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Policies required by U.S. generally accepted accounting principles (“GAAP”) for complete financial statements. For further information, refer to the financial statements and footnotes included in Astronics Corporation’s 2023 annual report on Form 10-K. Description of the BusinessAstronics Corporation (“Astronics” or the “Company”) is a leading provider of advanced technologies to the global aerospace, defense, and electronics industries. Our products and services include advanced, high-performance electrical power generation, distribution and seat motion systems, lighting and safety systems, avionics products, systems certification, aircraft structures and automated test systems. We have principal operations in the United States (U.S.), Canada, France, and England, as well as engineering offices in Ukraine and India. On February 13, 2019, the Company completed a divestiture of its semiconductor test business within the Test Systems segment. The transaction included two elements of contingent earnings. In March 2023, the Company agreed with the final earnout calculation for the calendar 2022 earnout for \$3.4 million. The Company recorded the gain and received the payment in the first quarter of 2023.Restricted CashUnder the provisions of the ABL Revolving Credit Facility (as defined and discussed below in Note 7), the Company has a cash dominion arrangement with the banking institution for its accounts within the United States whereby daily cash receipts are contractually utilized to pay down outstanding balances on the ABL Revolving Credit Facility. Account balances that have not yet been applied to the ABL Revolving Credit Facility are classified as restricted cash in the accompanying Consolidated Condensed Balance Sheets. The following table provides a reconciliation of cash and restricted cash included in Consolidated Condensed Balance Sheets to the amounts included in the Consolidated Condensed Statements of Cash Flows.(In thousands)June 29, 2024July 1, 2023Cash and Cash Equivalents\$2,857A \$3,472A Restricted Cash\$1,535A \$822A Total Cash and Restricted Cash Shown in Statements of Cash Flows\$4,392A \$4,294A Trade Accounts Receivable and Contract AssetsThe allowance for estimated credit losses is based on the Company’s assessment of the collectability of customer accounts. The Company regularly reviews the allowance by considering factors such as the age of the receivable balances, historical experience, credit quality, current economic conditions, and reasonable and supportable forecasts of future economic conditions that may affect a customer’s ability to pay.9Table of ContentsThe changes in allowances for estimated credit losses for the three and six months ended June 29, 2024 and July 1, 2023 consisted of the following:Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Balance at Beginning of the Period\$9,193A \$2,630A \$8,596A \$2,265A Bad Debt Expense, Net of Recoveries\$38A (99)\$312A 189A Write-off Charges Against the Allowance and Other Adjustments(8,096)(806)(7,413)(729)Balance at End of the Period\$1,495A \$1,725A \$1,495A \$1,725A In November 2023, a non-core contract manufacturing customer reported within the Aerospace segment filed for bankruptcy under Chapter 11. As a result, the Company recorded a full reserve in the fourth quarter of 2023 of \$7.5A million for outstanding accounts receivable, which was subsequently written off in the second quarter of 2024.Research and Development ExpensesResearch and development costs are expensed as incurred and include salaries, benefits, consulting, material costs, and depreciation. Research and development expenses amounted to \$14.2A million and \$12.7A million for the three months ended and \$27.5A million and \$25.4A million for the six months ended June 29, 2024 and July 1, 2023, respectively. These costs are included in cost of products sold.Valuation of Goodwill and Long-Lived AssetsThe Company tests goodwill at the reporting unit level on an annual basis or more frequently if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount.Long-lived assets are evaluated for recoverability whenever adverse effects or changes in circumstances indicate that the carrying value may not be recoverable. The recoverability test consists of comparing the undiscounted projected cash flows with the carrying amount. Should the carrying amount exceed undiscounted projected cash flows, an impairment loss would be recognized to the extent the carrying amount exceeds fair value.As of June 29, 2024 and July 1, 2023, the Company concluded that no indicators of impairment relating to intangible assets or goodwill existed and an interim test was not performed in the six-month periods then ended.Foreign Currency TranslationThe aggregate foreign currency transaction gain or loss included in operations was insignificant for the three and six months ended June 29, 2024 and July 1, 2023.10Table of ContentsNewly Adopted Accounting PronouncementsRecent Accounting Pronouncements Not Yet AdoptedStandardDescriptionFinancial Statement Effect or Other Significant MattersASU No. 2023-07Segment Reporting (Topic 280), Improvements to Reportable Segment DisclosureThe standard includes updates to the disclosure requirements for a public entity’s reportable segments and provides more detailed information about a reportable segment’s expenses. The new standard is effective for fiscal years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, with retrospective application required.The Company is currently evaluating the impact of adopting this guidance. We expect adoption to result in additional disclosures in the notes to our Consolidated Financial Statements.ASU No. 2023-09Income Taxes (Topic 740), Improvements to Income Tax DisclosuresThe amendments in this update require enhanced disclosures within the annual rate reconciliation, including new requirements to present reconciling items on a gross basis in specified categories, disclosure of both percentages and dollar amounts, and disaggregation of the reconciling items by nature when they meet a quantitative threshold. The update also includes enhanced disclosure requirements for income taxes paid. The new standard is effective for annual periods beginning after December 15, 2024; early adoption is permitted.The Company is currently evaluating the impact of adopting this guidance. We expect adoption to result in additional disclosures in the notes to our Consolidated Financial Statements.We consider the applicability and impact of all ASUs. Recent ASUs were assessed and determined to be either not applicable or had or are expected to have minimal impact on our financial statements and related disclosures.2) RevenueOn June 29, 2024, we had \$633.4A millionA of outstanding performance obligations, which we refer to as total backlog. We expect to recognize approximately \$561.5A millionA of our outstanding performance obligations as revenue over the next twelve months and the balance thereafter.We recognized \$9.0A million and \$10.6A million during the three months ended and \$15.2 million and \$19.5 million during the six months ended June 29, 2024 and July 1, 2023, respectively, in revenues that were included in the contract liability balance at the beginning of the period. The Company’s contract assets and contract liabilities consist primarily of costs and profits in excess of billings and billings in excess of cost and profits, respectively. The following table presents the beginning and ending balances of contract assets and contract liabilities during the six months ended June 29, 2024: (In thousands)Contract AssetsContract LiabilitiesBeginning Balance, January 1, 2024\$46,321A \$22,888A Ending Balance, June 29, 2024\$53,291A \$18,448A The increase in contract assets reflects the net impact of new revenue recognized in excess of billings exceeding billing of previously unbilled revenue during the period, partially offset by a \$3.5A million revision of estimated costs to complete certain long-term mass transit Test contracts. The revision resulted in reduced revenue recognized during the three and six months ended June 29, 2024 due to lower estimates of the percentage of work completed on the programs. The decrease in contract liabilities reflects the net impact of revenue recognized in excess of new customer advances or deferred revenues recorded.The Company recognizes an asset for certain, material costs to fulfill a contract if it is determined that the costs relate directly to a contract or an anticipated contract that can be specifically identified, generate or enhance resources that will be used in satisfying performance obligations in the future, and are expected to be recovered. Such costs are amortized on a systematic basis that is consistent with the transfer to the customer of the goods to which the asset relates. Start-up costs are expensed as incurred. Capitalized fulfillment costs are included in Work in Progress within Inventories in the accompanying Consolidated Condensed Balance Sheets. Should future orders not materialize or it is determined the costs are no longer probable of recovery, the capitalized costs are written off. Capitalized fulfillment costs were \$3.0A million and \$4.7A million on June 29, 2024 and December 31, 2023, respectively. Amortization of fulfillment costs recognized within Cost of Products Sold was \$1.1Table of Contentsapproximately \$2.7A million and \$3.0A million for the three and six months ended June 29, 2024. No amortization of fulfillment costs was recorded in 2023.The following table presents our revenue disaggregated by Market Segments as follows:Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Aerospace SegmentCommercial Transport\$249,829A \$206,292A \$128,399A \$112,079A Military Aircraft\$41,860A 27,648A 24,781A 13,584A General Aviation\$38,566A 44,463A 19,015A 25,015A Other\$10,326A 15,576A 4,748A 7,704A Aerospace Total\$340,581A 293,979A 176,943A 158,382A Test Systems SegmentGovernment & Defense\$42,607A 37,013A 21,171A 16,072A Test Systems Total\$42,607A 37,013A 21,171A 16,072A Total\$383,188A \$330,992A \$198,114A \$174,454A The following table presents our revenue disaggregated by Product Lines as follows:Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Aerospace SegmentElectrical Power & Motion\$173,452A \$121,400A 90,328A \$67,946A Lighting & Safety\$88,241A 78,471A 46,454A 41,918A Avionics\$54,565A 60,664A 28,971A 30,923A Systems Certification\$7,812A 13,297A 3,364A 7,620A Structures\$6,185A 4,571A 3,078A 2,271A Other\$10,326A 15,576A 4,748A 7,704A Aerospace Total\$340,581A 293,979A 176,943A 158,382A Test Systems\$42,607A 37,013A 21,171A 16,072A Total\$383,188A \$330,992A \$198,114A \$174,454A 3) InventoriesInventories consisted of the following:(In thousands)June 29, 2024December 31, 2023Finished Goods\$33,169A \$29,013A Work in Progress\$28,748A 32,118A Raw Material\$138,762A 130,670A \$200,679A \$191,801A 12Table of Contents4) Property, Plant and EquipmentProperty, Plant and Equipment consisted of the following:(In thousands)June 29, 2024December 31, 2023Land\$8,579A \$8,606A Buildings and Improvements\$1,354A 71,480A Machinery and Equipment\$129,289A 126,725A Construction in Progress\$3,698A 4,219A 212,920A 211,030A Less Accumulated Depreciation\$130,409A 125,594A \$82,511A \$85,436A 5) Intangible AssetsThe following table summarizes acquired intangible assets as follows:June 29, 2024December 31, 2023(In thousands)Weighted Average LifeGross Carrying AmountAccumulated AmortizationGross Carrying AmountAccumulated AmortizationPatents11 years\$2,146A \$2,146A \$2,146A Non-compete Agreement4 years\$1,082A 11,082A 11,082A Trade Names10 years\$1,403A 10,162A 11,426A 9,973A Completed and Unpatented Technology9 years\$7,857A 40,795A 47,896A 38,961A Customer Relationships15 years\$142,137A 91,597A 142,208A 87,186A Total Intangible Assets\$214,625A \$155,782A \$214,758A \$149,338A All acquired intangible assets other than goodwill and one trade name are being amortized. Amortization expense for acquired intangibles is summarized as follows: Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Amortization Expense\$6,539A \$7,196A \$3,269A \$3,599A Amortization expense for acquired intangible assets reported for 2024 and for each of the next five years is summarized as follows:(In thousands)2024\$12,863A 2025\$10,935A 2026\$9,533A 2027\$7,825A 2028\$7,037A 2029\$5,664A 6) GoodwillThe following table summarizes the changes in the carrying amount of goodwill for the six months ended June 29, 2024:(In thousands)December 31, 2023Foreign Currency TranslationJune 29, 2024Aerospace\$36,575A (\$67)\$36,508A Test Systems\$21,635A \$21,635A \$58,210A (\$67)\$58,143A 13Table of Contents7) Long-term Debt and Notes PayableThe Company’s long-term debt at December 31, 2023 consisted of borrowings under its Sixth Amended and Restated Credit Agreement (the “ABL Revolving Credit Facility”) which was entered into on January 19, 2023. The ABL Revolving Credit Facility set the maximum aggregate amount that the Company can borrow under the revolving credit line at \$115 million, with borrowings subject to a borrowing base determined primarily by certain domestic inventory and accounts receivable. The maturity date of borrowings under the ABL Revolving Credit Facility was January 19, 2026. Under the terms of the ABL Revolving Credit Facility, the Company paid interest on the unpaid principal amount of the facility at a rate equal to SOFR (which was required to be at least 1.00% plus 2.25% to 2.75%. The Company was required to pay a quarterly commitment fee under the ABL Revolving Credit Facility in an amount equal to 0.25% or 0.375% based on the Company’s average excess availability. Under the provisions of the ABL Revolving Credit Facility, the Company has a cash dominion arrangement with the lead banking institution whereby eligible daily cash receipts are contractually utilized to pay down outstanding borrowings and any cash balances

bankruptcy of the Company or any subsidiary, all unpaid principal and other amounts owing under the credit facilities automatically become due and payable. Other events of default, such as failure to make payments as they become due and breach of financial and other covenants, change of control, cross default under other material debt agreements, and a going concern qualification for any reason other than loan maturity date give the agent the option to declare all such amounts immediately due and payable. The Company expects its sales growth and reductions in working capital will provide sufficient cash flows to fund operations. However, the Company may also evaluate various actions and alternatives to enhance its profitability and cash generation from operating activities, which could include manufacturing efficiency initiatives, cost-reduction measures, working with vendors and suppliers to reduce lead times and expedite shipment of critical components, and working with customers to expedite receivable collections. Our ability to maintain sufficient liquidity and comply with financial debt covenants is highly dependent upon achieving expected operating results. Failure to achieve expected operating results could have a material adverse effect on our liquidity, our ability to obtain financing or access our existing financing, and our operations in the future and could allow our debt holders to demand payment of all outstanding amounts.

8) Product Warranties In the ordinary course of business, the Company warrants its products against defects in design, materials, and workmanship typically over periods ranging from twelve to sixty months. The Company determines warranty reserves needed by product line based on experience and current facts and circumstances. Activity in the warranty accrual is summarized as follows: Six Months Ended Three Months Ended (In thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Balance at Beginning of Period \$9,751A \$8,009A \$10,522A \$7,401A Warranties Issued \$3,301A 1,908A 1,812A 1,128A Warranties Settled (1,702)(2,151)(956)(814) Reassessed Warranty Exposure (47)(61)(75)(10) Balance at End of Period \$11,303A \$7,705A \$11,303A \$7,705A

15 Table of Contents 9) Income Taxes The effective tax rates were approximately (21.8)% and (207.5)% for the three months ended and 49.7% and (133.6)% for the six months ended June 29, 2024 and July 1, 2023, respectively. Beginning with the 2022 tax year, certain research and development costs are required to be capitalized and amortized over sixty months for income tax purposes. The tax rate in the 2024 period was impacted by a valuation allowance applied against the deferred tax asset associated with the research and development costs that are expected to be capitalized and was partially offset by the removal of valuation allowances related to net operating losses and certain timing differences that are expected to reverse during 2024. In addition, the tax rate in the 2024 period was also impacted by state income taxes and the federal research and development credit expected for 2024. The Company records a valuation allowance against the deferred tax assets if and to the extent it is more likely than not that the Company will not recover the deferred tax assets. In evaluating the need for a valuation allowance, the Company weighs all relevant positive and negative evidence and considers among other factors, historical financial performance, projected future taxable income, scheduled reversals of deferred tax liabilities, the overall business environment, and tax planning strategies. Losses in recent periods and cumulative pre-tax losses in the three-year period ending with the current year, combined with the significant uncertainty brought about by the COVID-19 pandemic, are collectively considered significant negative evidence under ASC 740 when assessing whether an entity can use projected income as a basis for concluding that deferred tax assets are realizable on a more-likely than not basis. For purposes of assessing the recoverability of deferred tax assets, the Company determined that it could not include future projected earnings in the analysis due to its recent history of losses and therefore had insufficient objective positive evidence that the Company will generate sufficient future taxable income to overcome the negative evidence of cumulative losses. Accordingly, during the years ended December 31, 2023 and 2022, the Company determined that a portion of its deferred tax assets were not expected to be realizable in the future and the Company continues to maintain the valuation allowance against its deferred tax assets as of June 29, 2024. 10) Earnings Per Share Basic and diluted weighted-average shares outstanding are as follows: Six Months Ended Three Months Ended (In thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Weighted Average Shares - Basic 34,936A 32,560A 35,007A 32,614A Net Effect of Dilutive Stock Awards 3A A A 540A A A Weighted Average Shares - Diluted 34,936A 32,560A 35,547A 32,614A Stock options with exercise prices greater than the average market price of the underlying common shares are excluded from the computation of diluted earnings per share because they are out-of-the-money and the effect of their inclusion would be anti-dilutive. The Company incurred a net loss for the six months ended June 29, 2024 and the three and six months ended July 1, 2023, therefore all outstanding stock options and unvested restricted stock units are excluded from the computation of diluted loss per share because the effect of their inclusion would be anti-dilutive. The number of common shares excluded from the computation was approximately 1,072,000 shares as of June 29, 2024 and 1,114,000 shares as of July 1, 2023.

11) Shareholders' Equity Share Buyback and Reissuance The Company's Board of Directors from time to time authorizes the repurchase of common stock, which allows the Company to purchase shares of its common stock in accordance with applicable securities laws on the open market or through privately negotiated transactions. Common shares repurchased by the Company are recorded at cost as treasury shares and result in a reduction of equity. Under its current credit agreements, the Company is currently restricted from further stock repurchases. When treasury shares are reissued, the Company determines the cost using an average cost method. The difference between the average cost of the treasury shares and the reissuance price is included in Retained earnings. During the six month periods ended June 29, 2024 and July 1, 2023, the Company reissued 139,000 and 164,000 treasury shares, respectively, associated with the funding of employer 401K contributions and recorded the difference between the average cost and the reissuance price, 1.3A million and \$2.2 million, respectively, as a reduction to Retained earnings. At the Market Equity Offering On August 8, 2023, the Company initiated an at-the-market equity offering program (the "ATM Program") for the sale from time to time of shares of the Company's common stock, par value \$0.01 per share (the "Common Stock") having an aggregate offering price of up to \$30.0A million. During the three and six months ended June 29, 2024, the Company did not sell any shares. 16 Table of Contents of our common stock under the ATM Program. As of June 29, 2024, the Company had remaining capacity under the ATM Program to sell shares of Common Stock having an aggregate offering price up to approximately \$8.2A million. Comprehensive (Loss) Income and Accumulated Other Comprehensive Loss The components of accumulated other comprehensive loss are as follows: (In thousands) June 29, 2024 December 31, 2023 Foreign Currency Translation Adjustments \$ (7,275) \$ (6,351) Retirement Liability Adjustment A Before Tax (4,795) (5,357) Tax Benefit of Retirement Liability Adjustment 2,282A 2,282A Retirement Liability Adjustment A After Tax (2,513) (3,075) Accumulated Other Comprehensive Loss \$ (9,788) \$(9,426) The components of other comprehensive (loss) income are as follows: Six Months Ended Three Months Ended (In thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Foreign Currency Translation Adjustments \$ (924) \$ 711A \$(168) \$ 487A Retirement Liability Adjustments: Reclassifications to Selling, General and Administrative Expenses: Amortization of Prior Service Cost 193A 193A 96A 98A Amortization of Net Actuarial Losses 369A 179A 185A 89A Retirement Liability Adjustment 562A 372A 281A 187A Other Comprehensive (Loss) Incomes (362) \$(1,083A) \$113A \$113A \$674A 12) Supplemental Retirement Plan and Related Post Retirement Benefits The Company has two non-qualified supplemental retirement defined benefit plans (the "SERP" and the "SERP II") for certain current and retired executive officers. The following table sets forth information regarding the net periodic pension cost for the plans. Six Months Ended Three Months Ended (In thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Service Cost \$ 53A A \$ 53A A Interest Cost \$ 685A 652A 342A 327A Amortization of Prior Service Cost 193A 193A 96A 98A Amortization of Net Actuarial Losses 369A 179A 185A 89A Net Periodic Cost \$ 1,247A \$ 1,077A \$ 623A \$ 541A Participants in the SERP are entitled to paid medical, dental, and long-term care insurance benefits upon retirement under the plan. The Company also has a defined benefit plan related to its subsidiary in France. The net periodic cost for both plans for the three and six months ended June 29, 2024 and July 1, 2023, is immaterial. The service cost component of net periodic benefit costs above is recorded in Selling, General and Administrative Expenses within the Consolidated Condensed Statements of Operations, while the remaining components are recorded in Other Expense (Income). Net 13) Sales to Major Customers The loss of major customers or a significant reduction in business with a major customer would significantly, and negatively impact our sales and earnings. In the three and six months ended June 29, 2024 and July 1, 2023, the Company had one customer over 10% of consolidated sales. Sales to The Boeing Company (the "Boeing") accounted for 11.7% and 11.2% of sales in the three and six months ended June 29, 2024 and 11.5% and 10.9% in the three and six months ended July 1, 2023, respectively. Accounts receivable from Boeing on June 29, 2024 were approximately \$23.2 million. 17 Table of Contents 14) Legal Proceedings Lufthansa One of the Company's subsidiaries is involved in numerous patent infringement actions brought by Lufthansa Technik AG (the "Lufthansa") in Germany, the United Kingdom (the "UK") and France. The Company is vigorously defending all such litigation and proceedings. Additional information about these legal proceedings can be found in Note 19 of the Company's Annual Report on Form 10-K for the year ended December 31, 2023. The reserve for the German indirect claim and interest was approximately \$17.3A million on June 29, 2024 and \$17.1 million on December 31, 2023. The Company currently believes it is unlikely that the damages in the indirect proceedings and related interest will be paid within the next twelve months. Therefore, the liability related to this matter is classified within Other Liabilities (non-current) in the Consolidated Condensed Balance Sheets on June 29, 2024 and December 31, 2023. In the matter before the UK High Court of Justice, as previously disclosed, Lufthansa has pleaded its case for monetary compensation, which will be determined at a separate trial. Lufthansa has elected to pursue a claim in relation to the defendants' profits from their infringing activities. We have estimated damages and accrued interest for AES and its indemnified customers of approximately \$7.3A million and \$7.4A million as of June 29, 2024 and December 31, 2023, respectively. This variance is due to currency fluctuation and interest accrued. Interest will accrue until the final payment to Lufthansa. This amount is subject to change as additional data is received and evaluated, and as additional information regarding the nature of its claim is put forward by Lufthansa in advance of the damages trial. The damages trial is scheduled to be heard starting in October 2024, with payment likely due in early 2025. Therefore, the liability related to these matters is classified within Accrued Expenses and Other Current Liabilities in the Consolidated Condensed Balance Sheets on June 29, 2024. The liability related to these matters was classified within Other Liabilities (non-current) on December 31, 2023. As previously disclosed, on December 4, 2020, the Court held the French patent invalid for all asserted claims. There can consequently be no finding of infringement on first instance. Lufthansa has appealed this judgment. The appeal hearing took place on December 8, 2022, and on February 24, 2023, the Court upheld the first instance judgment in favor of AES. Lufthansa lodged an appeal before the French Supreme Court; the French Supreme Court will review the Court of Appeal of Paris reasoning around the nullification of one of the claims of the patent. AES filed a brief with the French Supreme Court on January 22, 2024 in response to Lufthansa's appeal and awaits guidance on further briefing or a decision from the Court. As loss exposure is not probable and estimable at this time, the Company has not recorded any liability with respect to the French matter as of June 29, 2024 or December 31, 2023. There were no other significant developments in any of these matters during the six months ended June 29, 2024. A liability for reimbursement of Lufthansa's legal expenses associated with the UK matter was approximately \$0.7A million on June 29, 2024 and December 31, 2023, which is expected to be paid within the next twelve months and, as such, is classified in Accrued Expenses and Other Current Liabilities in the accompanying Consolidated Condensed Balance Sheet as of June 29, 2024 and December 31, 2023. Other On March 23, 2020, Teradyne, Inc. filed a complaint against the Company and its subsidiary, Astronics Test Systems (the "ATS") (together, the "Defendants") in the United States District Court for the Central District of California alleging patent and copyright infringement, and certain other related claims. The Defendants moved to dismiss certain claims from the case. On November 6, 2020, the Court dismissed the Company from the case, and also dismissed a number of claims, though the patent and copyright infringement claims remained. The case proceeded to discovery. In addition, on December 21, 2020, ATS filed a petition for inter partes review (the "IPR") with the US Patent Trial and Appeal Board (the "PTAB"), seeking to invalidate the subject patent, and on July 21, 2021, the PTAB instituted IPR. The PTAB issued its decision on July 20, 2022, in which it invalidated all of Teradyne's patent claims. Teradyne did not appeal the decision. On June 5, 2023, the parties attended a court-ordered mediation but did not reach a settlement. After the mediation, Teradyne agreed to drop its remaining state law claims in exchange for ATS dropping one of its defenses, leaving only its copyright claim. On December 7, 2023, the District Court granted ATS's motion for summary judgment on its affirmative defense of fair use. The Court subsequently entered final judgment in favor of ATS on December 14, 2023. Teradyne filed a Notice of Appeal to the Ninth Circuit Court of Appeals on January 12, 2024. Teradyne's opening brief on its appeal was filed on April 9, 2024. ATS's answering brief was filed on June 10, 2024. Teradyne's reply brief is due August 7, 2024. No amounts have been accrued for this matter in the June 29, 2024, or December 31, 2023 financial statements, as loss exposure was neither probable nor estimable at such times. Other than these proceedings, we are not party to any significant pending legal proceedings that management believes will result in a material adverse effect on our financial condition or results of operations. 18 Table of Contents 15) Segment Information Below are the sales and operating profit by segment for the three and six months ended June 29, 2024 and July 1, 2023, and a reconciliation of segment operating profit to (loss) income before income taxes. Operating profit is net sales less cost of products sold and other operating expenses excluding interest and corporate expenses. Cost of products sold and other operating expenses are directly identifiable to the respective segment. Six Months Ended Three Months Ended (In thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Sales: Aerospace 340,623A \$ 294,101A \$ 176,948A \$ 158,386A Less Inter-segment Sales (42)(122)(5)(4) Total Aerospace Sales 340,581A 293,979A 176,943A 158,382A Test Systems 42,607A 37,013A 21,171A 16,072A Less Inter-segment Sales A A A A Total Test Systems Sales 42,607A 37,013A 21,171A 16,072A Total Consolidated Sales \$ 383,188A \$ 330,992A \$ 198,114A \$ 174,454A Segment Measure of Operating Profit and Margins Aerospace \$ 31,377A \$ 17,806A \$ 19,280A \$ 13,719A 9.2A % 6.1A % 10.9A % 8.7A % Test Systems (8,415) (6,740) (5,336) (6,143) (19.8) (18.2) (25.2) (38.2) Total Segment Measure of Operating Profit \$ 22,962A \$ 11,066A \$ 13,944A \$ 7,576A 6.0A % 6.3A % 7.0A % 4.3A % (Additions to) Deductions from Segment Measure of Operating Profit: Net Gain on Sale of Business A (3,427) A A A Interest Expense, Net of Interest Income 1,615A 1,390A 5,856A 5,920A Corporate Expenses and Other 14,617A 10,130A 6,829A 5,558A (Loss) Income Before Income Taxes (3,270) (7,027) 1,259A (3,902) During the six months ended July 1, 2023, \$5.8A million was recognized in sales related to the reversal of a deferred revenue liability assumed with an acquisition and associated with a customer program within our Test Systems Segment which is no longer expected to occur, which also benefits Test Systems' operating loss for the period. Corporate expenses and other for the six months ended July 1, 2023, includes income of \$1.8A million associated with the reversal of a liability related to an equity investment, as we will no longer be required to make the associated payment. This amount is included in Other Expense (Income), Net in the Consolidated Condensed Statement of Operations. Total Assets: (In thousands) June 29, 2024 December 31, 2023 Aerospace \$ 504,462A \$ 493,660A Test Systems 123,294A 122,681A Corporate 17,103A 17,451A Total Assets \$ 644,859A \$ 633,792A 16) Fair Value There were no financial assets or liabilities carried at fair value measured on a recurring basis on June 29, 2024 or December 31, 2023. There were no non-recurring fair value measurements performed in the six months ended June 29, 2024 and July 1, 2023. 19 Table of Contents Due to their short-term nature, the carrying value of cash and equivalents, accounts receivable, and accounts payable approximate fair value. The carrying value of the Company's variable rate long-term debt instruments also approximates fair value due to the variable rate feature of these instruments. 17) Subsequent Events The Company amended its existing ABL Revolving Credit Facility on July 11, 2024 by entering into the Seventh Amended and Restated Credit Agreement. The Restated Agreement increased the maximum aggregate amount that the Company can borrow pursuant to the revolving credit line thereunder to \$200A million from \$115A million. The Restated Agreement extended the scheduled maturity date for the credit facility from January 19, 2026 to July 11, 2027. The Company also entered into a \$55A million Term Loan Facility on July 11, 2024. The Revised Term Loan Facility has a maturity date of July 11, 2027. The Company repaid in full all outstanding indebtedness under the Term Loan Credit Agreement dated as of January 19, 2023. The payoff amount of approximately \$84.5A million consisted of a repayment of the principal amount of approximately \$80.3A million, plus accrued but unpaid interest, fees and expenses, including a call premium of 4.00% (or approximately \$3.2A million) which satisfied all of the Company's indebtedness obligations thereunder. The Company funded the repayment of its obligations under the previous agreement with borrowings under the Restated Agreement and the Revised Term Loan Facility. In the third quarter of 2024, the Company expects to record a loss on extinguishment of the debt of approximately \$7.0A million below Income from Operations and a write-off of deferred financing costs of approximately \$0.5A million related to the exiting ABL lender in Interest Expense within the Consolidated Condensed Statements of Operations. The Company incurred approximately \$3.9A million in incremental debt issuance costs related to the new facilities, allocated between the Restated Agreement and the Revised Term Loan Facility. All costs will amortize to interest expense over the term of the respective agreement. Additional information regarding the Revised ABL and Term Loan credit facilities can be found in Note 7. 20 Table of Contents Item 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (The following should be read in conjunction with Management's Discussion and Analysis of Financial Condition and Results of Operations contained in the Company's Form 10-K for the year ended December 31, 2023.) OVERVIEW Astronics Corporation, through its subsidiaries, is a leading supplier of advanced technologies and products to the global aerospace and defense industries. Our products and services include advanced, high-performance electrical power generation and distribution systems, seat motion solutions, lighting and safety systems, avionics products, aircraft structures, systems certification, and automated test systems. Our Aerospace segment designs and manufactures products for the global aerospace industry.

product lines include lighting and safety systems, electrical power generation, distribution and seat motion systems, aircraft structures, avionics products, systems certification, and other products. Our primary Aerospace customers are the airframe manufacturers (the OEMs) that build aircraft for the commercial transport, military, and general aviation markets, suppliers to those OEMs, aircraft operators such as airlines, suppliers to the aircraft operators, and branches of the U.S. Department of Defense (the USDO). Our Test Systems segment designs, develops, manufactures, and maintains automated test systems that support the aerospace and defense and mass transit industries as well as training and simulation devices for both commercial and military applications. In the Test Systems segment, Astronics' products are sold to a global customer base including OEMs and prime government contractors for both electronics and military products. Our strategy is to increase our value by developing technologies and capabilities, either internally or through acquisition, and using those capabilities to provide innovative solutions to our targeted markets where our technology can be beneficial. Important factors affecting our growth and profitability are the rate at which new aircraft are produced, government funding and timing of awards of military programs, our ability to have our products designed into new aircraft, and the rates at which aircraft owners, including commercial airlines, refurbish or install upgrades to their aircraft and supply chain and labor market pressures. New aircraft build rates and aircraft owners spending on upgrades and refurbishments is cyclical and dependent on the strength of the global economy. Once one of our products is designed into a new aircraft, the spare parts business associated thereto is also frequently retained by the Company. Future growth and profitability of the Test Systems business is dependent on developing and procuring new and follow-on business. The nature of our Test Systems business is such that it pursues large, often multi-year, projects. There can be significant periods between orders in this business, which may result in large fluctuations in sales and profit levels and backlog from period to period. Test Systems segment customers include the USDO, prime contractors to the USDO, mass transit operators and prime contractors to mass transit operators. Each of the markets that we serve presents opportunities that we expect will provide growth for the Company over the long-term. We continue to look for opportunities in all of our markets to capitalize on our core competencies to expand our existing business and to grow through strategic acquisitions. The main challenges that we continue to face include varying levels of supply chain pressures from the residual impacts of the COVID-19 pandemic, material availability and cost increases, labor availability and cost, and improving shareholder value through increasing profitability. Increasing profitability is dependent on many things, primarily sales growth, both acquired and organic, and the Company's ability to pass cost increases along to customers and control operating expenses, and identify means of creating improved productivity. Sales are driven by increased build rates for existing aircraft, market acceptance and economic success of new aircraft and our products, continued government funding of defense programs, the Company's ability to obtain production contracts for parts we currently supply or have been selected to design and develop for new aircraft platforms and continually identifying and winning new business for our Test Systems segment. Reduced aircraft build rates driven by regulatory actions impacting OEM production, aircraft groundings, tight credit markets, weak economy, reduced air passenger travel, and an increasing supply of used aircraft on the market would likely result in reduced demand for our products, which will result in lower profits. Reduction of defense spending may result in fewer opportunities for us to compete, which could result in lower profits in the future. Many of our newer development programs are based on new and unproven technology and at the same time we are challenged to develop the technology on a schedule that is consistent with specific programs. Delays in delivery schedules and incremental costs resulting from supply chain and labor rate pressures have in the past resulted, and could in the future also result in, lower profits. We will continue to address these challenges by working to improve operating efficiencies and focusing on executing the growth opportunities currently in front of us. Table of Contents Our ABL Revolving Credit Facility and Term Loan Facility each subject us to various financial and other affirmative and negative covenants with which we must comply on an ongoing or periodic basis. These include financial covenants pertaining to minimum liquidity requirements and minimum fixed charge coverage ratio requirements. An unexpected decline in our revenues or operating income, including occurring as a result of events beyond our control, could cause us to violate our financial covenants. Our ability to satisfy the financial covenants under our credit agreements is an item that our management team continues to closely monitor. While the Company expects to remain in compliance with the required financial covenants for the duration of the agreements, any unexpected negative impacts to our business, including as a result of declines in aircraft production rates from expectations or production delays resulting from regulatory actions or labor strikes affecting OEMs or subsidiaries of the Company, additional supply chain pressures, the timing of customer orders, and our ability to meet customer delivery schedules, or labor availability and cost pressures, could result in lower revenues and reduced financial profits, and, as a result thereof, our inability to satisfy the financial covenants in our ABL Revolving Credit Facility and Term Loan Facility. We are monitoring the ongoing conflict between Russia and Ukraine and the related export controls and financial and economic sanctions imposed on certain industry sectors, including the aviation sector, and parties in Russia by the U.S., the U.K., the European Union and others. Although the conflict has not resulted in a direct material adverse impact on our business to date, the implications of the Russia and Ukraine conflict in the short-term and long-term are difficult to predict at this time. Factors such as increased energy costs, the availability of certain raw materials for aircraft manufacturers, embargoes on flights from Russian airlines, sanctions on Russian companies, and the stability of Ukrainian customers could impact the global economy and aviation sector. On February 13, 2019, the Company completed a divestiture of its semiconductor test business within the Test Systems segment. The transaction included two elements of contingent earnings. In March 2023, the Company agreed with the final earnings calculation for the calendar 2022 semiconductor test business earnings of \$3.4 million. The Company recorded the gain and received the payment in the first quarter of 2023. CONSOLIDATED RESULTS OF OPERATIONS Six Months Ended Three Months Ended (\$ in thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Sales \$383,188 \$330,992 \$198,114 \$174,454 Gross Profit (sales less cost of products sold) \$75,545 \$60,205 \$41,354 \$32,695 Gross Margin 19.7% 18.2% 20.9% 18.7% Selling, General and Administrative Expenses \$66,329 \$60,179 \$33,804 \$30,299 SG&A Expenses as a Percentage of Sales 17.3% 18.2% 17.1% 17.4% Net Gain on Sale of Business \$A \$(3,427) \$A \$A Interest Expense, Net \$11,615 \$11,390 \$5,856 \$5,920 Effective Tax Rate 49.7% (133.6%) (21.8%) 20.7% Net (Loss) Income \$(1,645) \$(16,414) \$1,533 \$11,999 A discussion by segment can be found in the Segment Results of Operations in this MD&A. CONSOLIDATED SECOND QUARTER RESULTS Consolidated sales were up 23.7% million, or 13.6%. Aerospace sales increased \$18.6 million and Test Systems sales increased \$5.1 million. Consolidated cost of products sold in the second quarter of 2024 was \$156.8 million, compared with \$141.8 million in the prior-year period. The increase was primarily due to higher sales volume, coupled with \$2.0 million in bonus expense as the Company's incentive programs resumed in 2024. Selling, general and administrative (SG&A) expenses were \$33.8 million in the second quarter of 2024 compared with \$30.3 million in the prior-year period primarily due to increased wages and benefits, including an increase of bonus expense recorded in SG&A of \$2.0 million. Consolidated net income was \$1.5 million, or \$0.04 per diluted share, measurably improved compared with net loss of \$12.0 million, or \$0.37 per diluted share, in the prior year. Tax benefit in the quarter was \$0.3 million, compared with tax expense of \$8.1 million in the prior year. Table of Contents Bookings were \$219.0 million in the quarter resulting in a book-to-bill ratio of 1.11:1. For the trailing twelve months, bookings totaled \$783.6 million and the book-to-bill ratio was 1.06:1. Backlog at the end of the quarter was \$633.4 million. CONSOLIDATED YEAR-TO-DATE RESULTS Consolidated sales were up \$52.2 million, or 15.8%. Aerospace sales increased \$46.6 million and Test Systems sales increased \$5.6 million. The prior-year period Test Systems sales benefited from the reversal of a \$5.8 million deferred revenue liability recorded with a previous acquisition. Consolidated cost of products sold in the first half of 2024 was \$307.6 million, compared with \$270.8 million in the prior-year period. The increase was primarily due to higher volume, coupled with \$3.8 million in bonus expense recorded to cost of products sold as the Company's incentive programs resumed in 2024. SG&A expenses were \$66.3 million in the first half of 2024 compared with \$60.2 million in the prior-year period primarily due to increased wages and benefits, including an increase in bonus expense recorded in SG&A of \$3.9 million. In the prior year period, the Company recognized a \$3.4 million gain from the final earnings payment for the 2019 sale of its semiconductor test business, as well as \$1.8 million within Other Income associated with the reversal of a liability related to an equity investment. Consolidated net loss was \$1.6 million, or \$0.05 per diluted share, compared with net loss of \$16.4 million, or \$0.50 per diluted share, in the prior year. Tax benefit in the current period was \$1.6 million, compared with tax expense of \$9.4 million in the prior year. SEGMENT RESULTS OF OPERATIONS Operating profit, as presented below, is sales less cost of products sold and other operating expenses, excluding interest expense, other corporate expenses and other non-operating sales and expenses. Cost of products sold and other operating expenses are directly identifiable to the respective segment. Operating profit is reconciled to (loss) income before income taxes in Note 15 of the Notes to Consolidated Condensed Financial Statements included in this report. Table of Contents AEROSPACE SEGMENT Six Months Ended Three Months Ended (\$ in thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Sales \$340,623 \$294,101 \$176,948 \$158,382 Less Inter-segment Sales (42)(122)(5)(4) Total Aerospace Sales \$340,581 \$293,979 \$176,943 \$158,382 Operating Profit \$31,377 \$17,806 \$19,280 \$13,719 Operating Margin 9.2% 6.1% 10.9% 8.7% Aerospace Sales by Market (In thousands) Commercial Transports \$249,829 \$206,292 \$128,399 \$112,079 Military Aircraft \$1,860 \$27,648 \$24,781 \$13,584 General Aviation \$38,566 \$44,463 \$19,015 \$25,015 Other \$10,326 \$15,576 \$4,748 \$7,704 \$340,581 \$293,979 \$176,943 \$158,382 Aerospace Sales by Product Line (In thousands) Electrical Power & Motion \$173,452 \$121,400 \$90,328 \$67,946 Lighting & Safety \$88,241 \$78,471 \$46,454 \$41,918 Avionics \$54,565 \$60,664 \$28,971 \$30,923 Systems Certification \$7,812 \$13,297 \$3,364 \$7,620 Structures \$6,185 \$4,571 \$3,078 \$2,271 Other \$10,326 \$15,576 \$4,748 \$7,704 \$340,581 \$293,979 \$176,943 \$158,382 (In thousands) June 29, 2024 December 31, 2023 Total Assets \$504,462 \$493,660 Backlog \$554,592 \$517,240 AEROSPACE SECOND QUARTER RESULTS Aerospace segment sales increased \$18.6 million, or 11.7%, to \$176.9 million. The improvement was driven by a 14.6% increase, or \$16.3 million, in Commercial Transport sales. Sales to this market were \$128.4 million, or 64.8% of consolidated sales in the quarter, compared with \$112.1 million, or 64.3% of consolidated sales in the second quarter of 2023. Higher airline spending drove increased demand. Military Aircraft sales increased \$11.2 million, or 82.4%, to \$24.8 million, driven by progress on the FLRAA program as well as higher sales of lighting, safety and avionics products for military aircraft. General Aviation sales decreased \$6.0 million, or 24.0%, to \$19.0 million due to lower antenna and VIP sales. Aerospace segment operating profit of \$19.3 million grew 41% compared with operating profit of \$13.7 million in the same period last year. As a percent of sales, operating margin expanded to 10.9%, or 220 basis points over the prior-year period. Operating margin expansion reflects the leverage gained on higher volume and improving production efficiencies. Operating profit in the second quarter of 2024 was impacted by a \$3.0 million increase in litigation-related legal expenses and reserve adjustments related to an ongoing patent dispute and \$2.9 million related to the resumption of the Company's incentive programs. Aerospace bookings were \$192.7 million for a book-to-bill ratio of 1.09:1. Backlog for the Aerospace segment was \$554.6 million at quarter end. Table of Contents AEROSPACE YEAR-TO-DATE RESULTS Aerospace segment sales increased \$46.6 million, or 15.9%, to \$340.6 million. The improvement was driven by a 21.1% increase, or \$43.5 million, in commercial transport sales. Sales to this market were \$249.8 million, or 65.2% of consolidated sales in the first half of 2024, compared with \$206.3 million, or 62.3% of consolidated sales in the same period of 2023. Higher airline spending drove increased demand. Military Aircraft sales increased \$14.2 million, or 51.4%, to \$41.9 million, driven by progress on the FLRAA program as well as higher sales of lighting, safety and avionics products for military aircraft. General Aviation sales decreased \$5.9 million, or 13.3%, to \$38.6 million due to lower antenna and VIP sales. Aerospace segment operating profit of \$31.4 million grew 76% compared with operating profit of \$17.8 million in the same period last year. As a percent of sales, operating margin expanded to 9.2%, or 315 basis points over the prior-year period. Operating margin expansion reflects the leverage gained on higher volume and improving production efficiencies. Operating profit in the first half of 2024 was impacted by a \$4.9 million increase in litigation-related legal expenses and reserve adjustments related to an ongoing patent dispute and \$5.3 million related to the resumption of the Company's incentive programs. TEST SYSTEMS SEGMENT Six Months Ended Three Months Ended (\$ in thousands) June 29, 2024 July 1, 2023 June 29, 2024 July 1, 2023 Sales \$42,607 \$37,013 \$21,171 \$16,072 Less Inter-segment Sales \$A \$A \$A \$A Total Test Systems Sales \$42,607 \$37,013 \$21,171 \$16,072 Operating Loss \$(8,415) \$(6,740) \$(5,336) \$(6,143) Operating Margin (19.8%) (18.2%) (25.2%) (38.2%) All Test Systems sales are to the Government and Defense Market. (In thousands) June 29, 2024 December 31, 2023 Total Assets \$123,294 \$122,681 Backlog \$78,774 \$75,036 TEST SYSTEMS SECOND QUARTER RESULTS Test Systems segment sales were \$21.2 million, up \$5.1 million. The improvement was driven by radio test sales following the award of the U

under the ABL Revolving Credit Facility. Eligible cash balances that have not yet been applied to outstanding debt balances are classified as restricted cash in the accompanying Consolidated Condensed Balance Sheets. The Company was also required to maintain minimum excess availability of \$10 million for the quarter ended June 29, 2024. On June 29, 2024, there was \$97.4 million outstanding on the ABL Revolving Credit Facility and there remained \$17.3A million available, net of outstanding letters of credit (though subject to the minimum liquidity requirement). The Company also entered into a \$90 million asset-based Term Loan Facility on January 19, 2023. The Term Loan Facility was secured primarily by fixed assets, real estate and intellectual property. The maturity date of the Term Loan Facility was the 26Table of Contentsearlier of the stated maturity date of the ABL Revolving Credit Facility or January 19, 2027, if the ABL Revolving Credit Facility was extended beyond that date. The Company paid interest under the Term Loan Facility at a rate equal to SOFR (which was required to be at least 2.50%) plus 8.75%. The Company was required to pay a commitment fee under the Term Loan Facility of 5% of the total aggregate commitment, or \$4.5 million, \$1.8 million which was paid on the closing date, \$1.8 million which was paid in June 2023 and \$0.9 million which was paid in June 2024. Amortization of the principal under the Term Loan Facility began with a monthly amortization rate of 0.292% of the outstanding term loan principal balance for the period April 1, 2023 through June 1, 2023, 0.542% per month for the period July 1, 2023 through September 1, 2023 and 0.833% monthly thereafter. Pursuant to the ABL Revolving Credit Facility and the Term Loan Facility, the Company was required to comply with a minimum trailing four quarter Adjusted EBITDA, as defined in the ABL Revolving Credit Facility and Term Loan Facility Agreements, of \$48.0A million in the second quarter of 2024, increasing thereafter. Mandatory prepayment of a portion of excess cash flow, as defined by the Term Loan Facility, was payable towards the principal amount outstanding on an annual basis. No such amounts were payable for the year ended December 31, 2023. Any voluntary prepayments made are subject to a prepayment fee, as defined by the Term Loan Facility. The Company was subject to a minimum fixed charge coverage ratio of 1.10 to 1.00. Further, the Company was subject to excess cash flow repayment provisions, restrictions on additional indebtedness, share repurchases and dividend payments, and a limitation on capital expenditures. The Company was in compliance with debt covenants under the ABL Revolving Credit Facility and Term Loan Facility as of and for the quarter ended June 29, 2024. The Company amended its existing ABL Revolving Credit Facility on July 11, 2024 by entering into the Seventh Amended and Restated Credit Agreement (the "Restated ABL Agreement"). The Restated ABL Agreement increased the maximum aggregate amount that the Company can borrow pursuant to the revolving credit line thereunder to \$200A million from \$115A million, with borrowings subject to a borrowing base determined primarily by inventory, accounts receivable, machinery and equipment and real estate. The Restated ABL Agreement extended the scheduled maturity date for the credit facility from January 19, 2026 to July 11, 2027. Under the terms of the Restated ABL Agreement, the Company will now pay interest on the unpaid principal amount of the credit facility at a rate equal to SOFR plus a term SOFR adjustment in the amount of 0.10% per annum (which collectively shall be at least 1.00%) plus an applicable margin ranging from 2.50% to 3.00% determined based upon the Company's excess availability (as defined in the Restated ABL Agreement). The Company will pay a quarterly commitment fee under the Restated ABL Agreement on undrawn revolving credit commitments in an amount equal to 0.25% or 0.375% based on the Company's average excess availability under the credit facility. The Company also entered into a \$55A million Term Loan Facility (the "Revised Term Loan Facility") on July 11, 2024. The Revised Term Loan Facility is secured primarily by the Company's intellectual property and equity interests of the Company's subsidiaries. The maturity date of the Revised Term Loan Facility is July 11, 2027. The Company will pay interest under the Revised Term Loan Facility at a rate equal to SOFR plus a term SOFR adjustment in the amount of 0.10% per annum (which collectively shall be at least 1.00%) plus an applicable margin ranging from 5.50% to 6.75% determined based upon the Company's consolidated leverage ratio (as defined in the Revised Term Loan Facility). The Company will pay a commitment fee to the lenders under the Revised Term Loan Facility in the amount of 2.0% of the total aggregate commitment. The Company is required to repay the principal amount of the term loans under the Revised Term Loan Facility in quarterly installments on the last day of each fiscal quarter in an amount equal to \$137,500. The principal amount of the Revised Term Loan Facility will amortize at a rate of 1.00% (or approximately \$550,000) per year. The Company is required to pay a call premium of \$3.2A million in conjunction with the repayment of the original Term Loan Facility. Total payments of \$1.3A million are payable over the next twelve months, including the annual amortization of the Revised Term Loan Facility and the final monthly \$0.8A million payment due under the Term Loan Facility prior to its termination, and as such, have been classified as current in the accompanying Consolidated Condensed Balance Sheet as of June 29, 2024. The interest rate on current maturities of long-debt is variable at SOFR plus 8.75% and was 14.2% at June 29, 2024 and December 31, 2023. The remaining balance of \$79.7A million under the Term Loan Facility as of June 29, 2024, is recorded as long-term in the accompanying Consolidated Condensed Balance Sheet. The Company incurred \$1.7A million in incremental debt issuance costs during the six months ended June 29, 2024, allocated between the original and Restated ABL Revolving Credit Facilities and the original and Revised Term Loan Facilities. All costs are amortized to interest expense over the term of the respective agreement. Unamortized deferred debt issuance costs associated with the ABL Revolving Credit Facility (\$1.8A million as of June 29, 2024) are recorded within Other Assets and those associated with the Term Loan Facility (\$4.5A million as of June 29, 2024) are recorded as a reduction of the carrying value of the debt on the Consolidated Condensed Balance Sheet. 27Table of ContentsCertain of the Company's subsidiaries are borrowers under the Restated ABL Agreement and the Revised Term Loan Facility and the assets of such subsidiaries also secure the obligations under the Restated Agreement and the Term Loan Facility. Pursuant to the Restated ABL Agreement and the Revised Term Loan Facility, the Company is subject to a minimum fixed charge coverage ratio of 1.10 to 1.00. The Company is also required to maintain minimum excess availability of the greater of 10% of the borrowing base under the Restated Agreement, or \$15.0A million. In the event of voluntary or involuntary bankruptcy of the Company or any subsidiary, all unpaid principal and other amounts owing under the credit facilities automatically become due and payable. Other events of default, such as failure to make payments as they become due and breach of financial and other covenants, change of control, cross default under other material debt agreements, and a going concern qualification for any reason other than loan maturity date give the agent the option to declare all such amounts immediately due and payable. On June 5, 2023, the Company filed a shelf registration statement on Form S-3 with the SEC, which allows us to issue shares of common stock, preferred stock, warrants, subscription rights, purchase contracts and debt securities in one or more offerings up to an aggregate offering price of \$150A million and on terms to be determined at the time of the offering. On August 8, 2023, the Company initiated an at-the-market equity offering program (the "ATM Program") for the sale from time to time of shares of the Company's common stock, par value \$0.01 per share having an aggregate offering price of up to \$30A million. Shares of Common Stock under the ATM Program are offered using Wells Fargo Securities, LLC and HSBC Securities (USA) Inc., as sales agents (the "Sales Agents" and each a "Sales Agent"), pursuant to the equity distribution agreement, dated August 8, 2023, by and among the Company and the Sales Agents. The Company currently is obligated to use the net proceeds from any sale of shares of common stock pursuant to the ATM Program to pay down the outstanding principal amount of, and any unpaid interest on, the ABL Revolving Credit Facility. However, any principal amount paid down on our ABL Revolving Credit Facility using the proceeds of the ATM Program will be, subject to compliance with the requirements and conditions set forth in the ABL Revolving Credit Facility, available to be reborrowed by the Company and used for, among other items, working capital and general corporate purposes. If the outstanding principal amount balance of the ABL Revolving Credit Facility has been reduced to zero, then the Company intends to use the net proceeds of the ATM Program for general corporate purposes. During the three and six months ended June 29, 2024, the Company did not sell any shares of our common stock under the ATM Program. As of June 29, 2024, the Company had remaining capacity under the ATM Program to sell shares of common stock having an aggregate offering price up to approximately \$8.2A million. Cash on hand at the end of the quarter was \$4.4A million. Net debt was \$174.0A million, compared with \$161.2A million at the end of 2023. The Company expects its cash flow from operations will provide sufficient cash flows to fund operations. However, the Company may also evaluate various actions and alternatives to enhance its profitability and cash generation from operating activities, which could include manufacturing efficiency initiatives, cost-reduction measures, working with vendors and suppliers to reduce lead times and expedite shipment of critical components, and working with customers to expedite receivable collections. The Company may also utilize available capacity under the Restated ABL Agreement. Our ability to maintain sufficient liquidity and comply with financial debt covenants is highly dependent upon achieving expected operating results. Failure to achieve expected operating results could have a material adverse effect on our liquidity, our ability to obtain financing or access our existing financing, and our operations in the future and could allow our debt holders to demand payment of all outstanding amounts. OFF BALANCE SHEET ARRANGEMENTS We do not have any material off balance sheet arrangements that have or are reasonably likely to have a material future effect on our results of operations or financial condition. BACKLOG The Company's backlog on June 29, 2024 was \$633.4 million compared with \$592.3 million on December 31, 2023 and \$611.1A million on July 1, 2023. CONTRACTUAL OBLIGATIONS AND COMMITMENTS Our contractual obligations and commitments have not changed materially from the disclosures in our 2023 Annual Report on Form 10-K except as set forth below. 28Table of ContentsThe Company amended its existing ABL Revolving Credit Facility on July 11, 2024 by entering into the Seventh Amended and Restated Credit Agreement. The Restated ABL Agreement increased the maximum aggregate amount that the Company can borrow pursuant to the revolving credit line thereunder to \$200A million from \$115A million, with borrowings subject to a borrowing base determined primarily by inventory, accounts receivable, machinery and equipment and real estate. The Restated ABL Agreement extended the scheduled maturity date for the credit facility from January 19, 2026 to July 11, 2027. Under the terms of the Restated ABL Agreement, the Company will now pay interest on the unpaid principal amount of the credit facility at a rate equal to SOFR plus a term SOFR adjustment in the amount of 0.10% per annum (which collectively shall be at least 1.00%) plus an applicable margin ranging from 2.50% to 3.00% determined based upon the Company's excess availability (as defined in the Restated ABL Agreement). The Company will pay a quarterly commitment fee under the Restated ABL Agreement on undrawn revolving credit commitments in an amount equal to 0.25% or 0.375% based on the Company's average excess availability under the credit facility. The Company also entered into a \$55A million Term Loan Facility on July 11, 2024. The Revised Term Loan Facility is secured primarily by the Company's intellectual property and equity interests of the Company's subsidiaries. The maturity date of the Revised Term Loan Facility is July 11, 2027. The Company will pay interest under the Revised Term Loan Facility at a rate equal to SOFR plus a term SOFR adjustment in the amount of 0.10% per annum (which collectively shall be at least 1.00%) plus an applicable margin ranging from 5.50% to 6.75% determined based upon the Company's consolidated leverage ratio (as defined in the Revised Term Loan Facility). The Company will pay a commitment fee to the lenders under the Revised Term Loan Facility in the amount of 2.0% of the total aggregate commitment. The Company is required to repay the principal amount of the term loans under the Revised Term Loan Facility in quarterly installments on the last day of each fiscal quarter in an amount equal to \$137,500. The principal amount of the Revised Term Loan Facility will amortize at a rate of 1.00% (or approximately \$550,000) per year. The Company repaid in full all outstanding indebtedness under the Term Loan Credit Agreement dated as of January 19, 2023. The payoff amount of approximately \$84.5A million consisted of a repayment of the principal amount of approximately \$80.3A million, plus accrued but unpaid interest, fees and expenses, including a call premium of 4.00% (or approximately \$3.2A million) which satisfied all of the Company's indebtedness obligations thereunder. The Company funded the repayment of its obligations under the previous agreement with borrowings under the Restated Agreement and the Revised Term Loan Facility. Refer to Note 7 of the Notes to Consolidated Condensed Financial Statements included in this report for additional information regarding the amended and expanded credit agreements. MARKET RISK Risk due to fluctuation in interest rates is a function of the Company's floating rate debt obligations, which total approximately \$178.4A million as of June 29, 2024. A change of 1% in interest rates of all variable rate debt would impact annual net loss by approximately \$1.8A million, before income taxes. Although the majority of our sales, expenses, and cash flows are transacted in U.S. dollars, we have exposure to changes in foreign currency exchange rates related primarily to the Euro and the Canadian dollar. The Company believes that the impact of changes in foreign currency exchange rates in 2024 has not been significant. The future impacts of the Russia and Ukraine conflict and the COVID-19 pandemic and their residual effects, including economic uncertainty, inflationary environment, and disruption within the global supply chain, labor markets, and aerospace industry, on our business remain uncertain. As we cannot anticipate the ultimate duration or scope of the Russia-Ukraine war and the COVID-19 pandemic, the ultimate financial impact on our results cannot be reasonably estimated but could be material. CRITICAL ACCOUNTING POLICIES Refer to Note 2 of the Notes to Consolidated Condensed Financial Statements included in this report for the Company's critical accounting policies with respect to revenue recognition. A For a complete discussion of the Company's other critical accounting policies, refer to the Company's annual report on Form 10-K for the year ended December 31, 2023. RECENT ACCOUNTING PRONOUNCEMENTS Refer to Note 1 of the Notes to Consolidated Condensed Financial Statements included in this report. 29Table of Contents FORWARD-LOOKING STATEMENTS Information included or incorporated by reference in this report that does not consist of historical facts, including statements accompanied by or containing words such as "may," "will," "should," "believe," "expect," "anticipate," "intend," "plan," "project," "approximate," "estimate," "predict," "forecast," "anticipate," "assume," and other words and terms of similar meaning, including their negative counterparts, are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Such forward-looking statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements are not guarantees of future performance and are subject to several factors, risks and uncertainties, the impact or occurrence of which could cause actual results to differ materially from the expected results described in the forward-looking statements. Certain of these factors, risks and uncertainties are discussed in the sections of this report entitled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations." New factors, risks and uncertainties may emerge from time to time that may affect the forward-looking statements made herein. Given these factors, risks and uncertainties, investors should not place undue reliance on forward-looking statements as predictive of future results. We disclaim any obligation to update the forward-looking statements made in this report. Item 3. Quantitative and Qualitative Disclosures About Market Risk The disclosure under the heading "Market Risk" in Item 2. "Management's Discussion and Analysis of Financial Condition and Results of Operations" above is incorporated by reference into Item 3. Item 4. Controls and Procedures a. Evaluation of Disclosure Controls and Procedures The Company's management, with the participation of the Company's Chief Executive Officer (its principal executive officer) and Chief Financial Officer (its principal financial officer), has evaluated the effectiveness of the Company's disclosure controls and procedures as of June 29, 2024. Based on that evaluation, the Company's Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures were effective as of June 29, 2024. b. Changes in Internal Control over Financial Reporting There have been no changes in our internal control over financial reporting during the most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. 30Table of Contents PART II - OTHER INFORMATION Item 1. Legal Proceedings Currently, we are involved in legal proceedings relating to an allegation of patent infringement and, based on rulings to date we have concluded that losses related to these proceedings are probable. For a discussion of contingencies related to legal proceedings, see Note 14 of the Notes to Consolidated Condensed Financial Statements. Item 1a. Risk Factors In addition to other information set forth in this report, you should carefully consider the factors discussed in Part I, Item 1A. "Risk Factors," in our Annual Report on Form 10-K for the year ended December 31, 2023 (the "2023 10-K"), which could materially affect our business, financial condition or results of operations. Our risk factors have not changed materially from those risk factors previously disclosed in our 2023 10-K except as set forth below. The risks described in this report and in the 2023 10-K are not the only risks facing us. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or results of operations. Our ABL Revolving Credit Facility and Term Loan Facility contain financial and restrictive covenants that we may be unable to satisfy, and that, if not satisfied, could result in the acceleration of any outstanding indebtedness thereunder and limit our ability to borrow additional funds. In addition, the terms of our ABL Revolving Credit Facility and Term Loan Facility contain covenants that restrict our current and future operations, particularly our ability to take certain actions. Our ABL Revolving Credit Facility and Term Loan Facility each subject us to various financial and other affirmative and negative covenants with which we must comply on an ongoing or periodic basis. These include financial covenants pertaining to minimum liquidity requirements and minimum fixed charge coverage ratio requirements. An unexpected decline in our revenues or operating income, including occurring as a result of events beyond our control, could cause us to violate our financial covenants. A covenant violation could result in a default under the ABL Revolving Credit Facility and Term Loan Facility. If any such default occurs, the lenders may elect to declare all outstanding borrowings, together with accrued interest and other amounts payable thereunder, to be immediately due and payable. Further, as the amount available to us under our credit facilities is subject to borrowing base calculations determined by the value of accounts receivable, inventory, real estate and machinery and equipment (under our ABL Revolving Credit Facility), an unexpected decline in the value of these assets would require a mandatory

[illegible]

Satisfaction, Start Date [Axis] Accounts Receivable (Decrease) in Accounts Receivable SERP Supplemental Employee Retirement Plan [Member] Non-Rule 10b5-1 Arrangement Adopted Non-Rule 10b5-1 Arrangement Adopted [Flag] Net Issuance of Common Stock for RSUâ€™s (in shares) Stock Issued During Period, Shares, Restricted Stock Award, Net of Forfeitures Fair Value Fair Value Disclosures [Text Block] Land Land [Member] Award Timing Disclosures [Line Items] Other Assets and Liabilities Increase (Decrease) in Other Operating Assets and Liabilities, Net Schedule of Allowance for Estimated Credit Losses Financing Receivable, Allowance for Credit Loss [Table Text Block] Other Performance Measure, Amount Other Performance Measure, Amount Debt Terms Period [Domain] Debt Terms Period [Domain] Debt Terms Period [Domain] 2027 Finite-Lived Intangible Asset, Expected Amortization, Year Three Operating margins, percentage Percentage Of Operating Income Loss Goodwill Goodwill [Line Items] Beginning of 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Depreciation, Depletion and Amortization Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table] Revenue, Remaining Performance Obligation, Expected Timing
of Satisfaction [Table] Gross Profit Gross Profit Schedule of Reconciliation of Restricted Cash Restrictions on Cash and Cash Equivalents [Table Text Block] Intangible Assets Intangible Assets
Disclosure [Text Block] Machinery and Equipment Machinery and Equipment [Member] Schedule of Activity in Warranty Accrual Schedule of Product Warranty Liability [Table Text Block] Fair
Value as of Grant Date Award Grant Date Fair Value Customer Concentration Risk Customer Concentration Risk [Member] Subsequent Events [Abstract] Deferred debt issuance costs Debt
Issuance Costs, Net Long-term Debt and Notes Payable Debt Disclosure [Text Block] Amortization of fulfillment costs Capitalized Contract Cost, Amortization Recovery of Erroneously Awarded
Compensation Disclosure [Line Items] Face amount Debt Instrument, Face Amount Schedule of Disaggregation of Revenue Disaggregation of Revenue [Table Text Block] Stockholders Equity
Stockholders Equity [Line Items] Stockholders Equity [Line Items] Balance at Beginning of Period Balance at End of Period Standard and Extended Product Warranty Accrual Entity Address,
Postal Zip Code Entity Address, Postal Zip Code Restatement Determination Date: Restatement Determination Date [Axis] Title of 12(b) Security Title of 12(b) Security Concentration Risk Type
[Axis] Concentration Risk Type [Axis] Common Stock Common Stock, Value, Issued Operating Results Fiscal Period, Policy [Policy Text Block] Tax Benefit of Retirement Liability Adjustment
AOICI Tax, Attributable to Parent Cash and Cash Equivalents Cash and Cash Equivalents Cash and Cash Equivalents, at Carrying Value Non-Cash Deferred Liability Recovery Business
Acquisition, Preacquisition Contingency, Settlement Business Acquisition, Preacquisition Contingency, Settlement Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years
That are Outstanding and Unvested Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member] Finite-Lived Intangible Assets
Finite-Lived Intangible Assets [Line Items] Loss on extinguishment of debt Gain (Loss) on Extinguishment of Debt Retirement Liability Adjustment â€” Before Tax AOICI before Tax, Attributable
to Parent Cash Flows from Financing Activities: Net Cash Provided by (Used in) Financing Activities [Abstract] Year-end Fair Value of Equity Awards Granted in Covered Year that are
Outstanding and Unvested Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested [Member] Basic (in usd per share) Earnings Per Share, Basic
Accounts Payable Increase (Decrease) in Accounts Payable Award Timing MNPI Disclosure Award Timing MNPI Disclosure [Text Block] Adjustment To PEO Compensation, Footnote Adjustment
To PEO Compensation, Footnote [Text Block] Debt Terms Period [Axis] Debt Terms Period [Axis] Debt Terms Period Finance Lease Principal Payments Finance Lease, Principal Payments
Aggregate Pension Adjustments Service Cost Aggregate Pension Adjustments Service Cost [Member] Schedule of Goodwill [Table] Goodwill [Table] General Aviation General Aviation [Member]
General Aviation Compensation Actually Paid vs. Other Measure Compensation Actually Paid vs. Other Measure [Text Block] Total Current Liabilities Liabilities, Current Vesting Date Fair Value
of Equity Awards Granted and Vested in Covered Year Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year [Member] Indirect Sales Indirect Sales [Member] Indirect
Sales Non-Aerospace Contract Manufacturing Customer Non-core Aerospace Contract Manufacturing Customer [Member] Non-core Aerospace Contract Manufacturing Customer Total Assets
Total Assets Assets 2025 Finite-Lived Intangible Asset, Expected Amortization, Year One Cost of Products Sold Cost of Goods and Services Sold Amounts outstanding under revolving line of
credit Long-Term Line of Credit Schedule of Acquired Intangible Assets Schedule of Acquired Finite-Lived Intangible Assets by Major Class [Table Text Block] Other Liabilities Other Liabilities,
Noncurrent Movement in Standard Product Warranty Accrual [Roll Forward] Movement in Standard Product Warranty Accrual [Roll Forward] Forgone Recovery due to Violation of Home
Country Law, Amount Forgone Recovery due to Violation of Home Country Law, Amount Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Revenue,
Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Monthly amortization rate Debt Instrument, Monthly Amortization Rate Of Principal Amount Debt Instrument,
Monthly Amortization Rate Of Principal Amount Non-Cash Annual Stock Bonus Accrual Non-Cash Annual Stock Bonus Accrual Non-Cash Annual Stock Bonus Accrual Termination Date Trading
Arrangement Termination Date Entity Address, City or Town Entity Address, City or Town ABL Revolving Credit Facility ABL Revolving Credit Facility [Member] ABL Revolving Credit Facility
Proceeds from Long-term Debt Proceeds from Issuance of Long-Term Debt Debt Instrument [Axis] Debt Instrument [Axis] Net (Loss) Income Net (Loss) Income Net Loss Net (Loss) Income Net
Income (Loss) Attributable to Parent Trading Arrangement: Trading Arrangement [Axis] Class B Stock Converted to Common Stock Stock Issued During Period, Value, Conversion of Convertible
Securities Pay vs Performance Disclosure, Table Pay vs Performance [Table Text Block] Loss Contingencies [Table] Loss Contingencies [Table] Equity Awards Adjustments, Excluding Value
Reported in Compensation Table Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member] Dividends or Other Earnings Paid on Equity Awards not Otherwise
Reflected in Total Compensation for Covered Year Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year [Member] Entity File
Number Entity File Number Consolidated Entities [Domain] Consolidated Entities [Domain] Revenue Revenue from Contract with Customer [Text Block] Document Fiscal Year Focus Document
Fiscal Year Focus Income Statement [Abstract] Income Statement [Abstract] Entity Address, Address Line One Entity Address, Address Line One Extinguishment of debt Extinguishment of
Debt, Amount Debt Instrument, Name [Domain] Debt Instrument, Name [Domain] Effect of Exchange Rates on Cash Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and
Restricted Cash Equivalents, Continuing Operations Name Forgone Recovery, Individual Name 2029 Finite-Lived Intangible Asset, Expected Amortization, Year Five Document Period End Date
Document Period End Date Sale of Stock [Axis] Sale of Stock [Axis] Loss Contingency, Nature [Domain] Loss Contingency, Nature [Domain] Revised Term Loan Facility Revised Term Loan
Facility [Member] Revised Term Loan Facility Finished Goods Inventory, Finished Goods, Net of Reserves Other Other Noncash Income (Expense) Award Timing MNPI Considered Award
Timing MNPI Considered [Flag] Insider Trading Arrangements [Line Items] Contract Assets Contract with Customer, Asset, after Allowance for Credit Loss Inventory Disclosure [Abstract]
Outstanding Aggregate Erroneous Compensation Amount Outstanding Aggregate Erroneous Compensation Amount Defined Benefit Plans and Other Postretirement Benefit Plans Table Text
Block [Line Items] Defined Benefit Plans and Other Postretirement Benefit Plans Table Text Block [Line Items] PEO Actually Paid Compensation Amount PEO Actually Paid Compensation
Amount Military Aircraft Military Aircraft [Member] Sold Discontinued Operations, Disposed of by Sale [Member] Revenue recognized included in contract liability balance Deferred revenue
liability Contract with Customer, Liability, Revenue Recognized Adjustment to Compensation: Adjustment to Compensation [Axis] Prepaid Expenses and Other Current Assets Prepaid Expense
and Other Assets, Current Accounts Receivable Accounts Receivable [Member] Document Transition Report Document Transition Report Document Quarterly Report Document Quarterly
Report Litigation Case [Domain] Litigation Case [Domain] Retirement Liability Adjustment â€” Net of Taxes Other Comprehensive (Income) Loss, Defined Benefit Plan, after Tax and
Reclassification Adjustment, Attributable to Parent Customer [Domain] Customer [Domain] Accumulated Other Comprehensive Loss Accumulated Other Comprehensive Income (Loss), Net of
Tax Entity Current Reporting Status Entity Current Reporting Status Retained Earnings Retained Earnings [Member] Restricted Cash Restricted Cash and Cash Equivalents Pension
Adjustments Service Cost Pension Adjustments Service Cost [Member] Weighted Average Shares - Basic (in shares) Weighted Average Number of Shares Outstanding, Basic Stock Price or TSR
Estimation Method Stock Price or TSR Estimation Method [Text Block] Document Information [Table] Document Information [Table] Amortization of Deferred Financing Fees Amortization of
Debt Issuance Costs and Discounts Increase (Decrease) in Stockholders' Equity [Roll Forward] Increase (Decrease) in Stockholders' Equity [Roll Forward] Executive Category: Executive
Category [Axis] Name Awards Close in Time to MNPI Disclosures, Individual Name Construction in Progress Construction in Progress [Member] Consolidated sales Revenue Benchmark
[Member] Number of non-qualified supplemental retirement defined benefit plans Number Of Non Qualified Supplemental Retirement Defined Benefit Plans Electrical Power & Motion Product
Line Electrical Power And Motion [Member] Entity File Category Entity File Category Remaining performance obligation Revenue, Remaining Performance Obligation, Amount Loss
Contingencies [Line Items] Loss Contingencies [Line Items] Company Selected Measure Name Company Selected Measure Name EX-101.PRE 9 atro-20240629_pre.xml XBRL TAXONOMY
EXTENSION PRESENTATION LINKBASE DOCUMENT XML 11 R1.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Cover - shares 6 Months Ended Jun. 29, 2024 Jul. 29, 2024 Document Information
Â Â Document Type 10-Q Â Document Quarterly Report true Â Document Period End Date Jun. 29, 2024 Â Document Transition Report false Â Entity File Number 0-7087 Â Entity
Registrant Name ASTRONICS CORPORATION Â Entity Incorporation, State or Country Code NY Â Entity Tax Identification Number 16-0959303 Â Entity Address, Address Line One 130
Commerce Way Â Entity Address, City or Town East Aurora Â Entity Address, State or Province NY Â Entity Address, Postal Zip Code 14052 Â City Area Code 716 Â Local Phone Number
805-1599 Â Title of 12(b) Security Common Stock, \$.01 par value per share Â Trading Symbol ATRO Â Security Exchange Name NASDAQ Â Entity Current Reporting Status Yes Â Entity
Interactive Data Current Yes Â Entity File Category Accelerated Filer Â Entity Emerging Growth Company false Â Entity Small Business false Â Entity Shell Company false Â Document
Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q2 Â Amendment Flag false Â Entity Central Index Key 0000008063 Â Current Fiscal Year End Date --12-31 Â Common Stock Â
Document Information Â Â Entity Common Stock, Shares Outstanding (in shares) Â 29,335,907 Class B Common Stock Â Â Document Information Â Â Entity Common Stock, Shares
Outstanding (in shares) Â 5,656,204 X - Definition Boolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. +

Details Name: dei AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:MonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:yearItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: dei DocumentInformationLineItems Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a> + Details Name: dei DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1> + Details Name: dei DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntityFileCategory Namespace Prefix: dei_ Data Type: dei:fileCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Regulation S-T -Number 232 -Section 405> + Details Name: dei EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2> + Details Name: dei EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b> + Details Name: dei Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1> + Details Name: dei SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_StatementClassOfStockAxis=atro CommonClassUndefinedMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementClassOfStockAxis=us-gaap CommonClassBMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 12 R2.htm IDEA: XBRL DOCUMENT v3.24.2.u1

Consolidated Condensed Balance Sheets - USD (\$) in Thousands Jun. 29, 2024 Dec. 31, 2023 Current Assets:   Cash and Cash Equivalents  2,857  4,756 Restricted Cash 1,535 6,557 Accounts Receivable, Net of Allowance for Estimated Credit Losses 186,295 172,108 Inventories 200,679 191,801 Prepaid Expenses and Other Current Assets 21,039 14,560 Total Current Assets 412,405 389,782 Property, Plant and Equipment, Net of Accumulated Depreciation 82,511 85,436 Operating Right-of-Use Assets 26,262 27,909 Other Assets 6,695 7,335 Intangible Assets, Net of Accumulated Amortization 58,843 65,420 Goodwill 58,143 58,210 Total Assets 644,859 633,792 Current Liabilities:   Current Maturities of Long-term Debt 1,300 8,996 Accounts Payable 56,186 61,134 Current Operating Lease Liabilities 5,485 5,069 Accrued Expenses and Other Current Liabilities 60,536 46,106 Customer Advance Payments and Deferred Revenue 17,635 22,029 Total Current Liabilities 141,142 143,334 Long-term Debt 172,635 159,237 Long-term Operating Lease Liabilities 22,423 24,376 Other Liabilities 50,779 57,327 Total Liabilities 386,979 384,274 Shareholders Equity:     Common Stock 377,373 Accumulated Other Comprehensive Loss (9,788) (9,426) Other Shareholders Equity 267,291 258,571 Total Shareholders Equity 257,880 249,518 Total Liabilities and Shareholders Equity  644,859  633,792 X - ReferencesNo definition available. + Details Name: atro_OtherShareholdersEquity Namespace Prefix: atro_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(19\)\(a\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10> + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2> + Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14A>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph \(g\)\(2\)\(iii\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph \(h\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(30\)\(a\)\(4\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(23\)\(a\)\(3\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 7: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14> + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 5: 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https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(A\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17:](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18:](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19:](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20:](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20:) [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap AssetsCurrent Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap AssetsCurrentAbstract Namespace Prefix: us-gaap Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1:](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap AssetsCurrent Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap AssetsCurrentAbstract Namespace Prefix: us-gaap Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(1\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2:](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2:) [http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3:](http://www.xbrl.org/2003/role/exampleRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3:) [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock \(or common stock redeemable solely at the option of the issuer\). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1:](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1:) [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2:](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2:) <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3:> [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3:](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-03\(a\)\(22\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap CommonStockValue Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current. + ReferencesReference 1:](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22))-Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap CommonStockValue Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current. + ReferencesReference 1:) <http://www.xbrl.org/2003/role/disclosureRef-Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2:> [http://www.xbrl.org/2003/role/disclosureRef-Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3:](http://www.xbrl.org/2003/role/disclosureRef-Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3:) <http://www.xbrl.org/2003/role/disclosureRef-Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap ContractWithCustomerLiabilityCurrent Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1:> <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2:> <http://www.xbrl.org/2003/role/exampleRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3:> [http://www.xbrl.org/2003/role/exampleRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4:](http://www.xbrl.org/2003/role/exampleRef-Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4:) <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5:> [http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(15\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6:](http://www.xbrl.org/2003/role/disclosureRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(15))-Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6:) <http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1Reference 7:> [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8:](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1Reference 8:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(10\)\(1\)\)-Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap Goodwill Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1:](http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1))-Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap Goodwill Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. + ReferencesReference 1:) [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2:](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 2:) [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3:](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2Reference 3:) [http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1 + Details Name: us-gaap IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us](http://www.xbrl.org/2003/role/disclosureRef-Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482686/350-30-45-1 + Details Name: us-gaap IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1:)

Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21>: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27): [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28): [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29):

30Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1)Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 7: [http://fasb.org/us-gaap/role/ref/otherTransitionRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://fasb.org/us-gaap/role/ref/otherTransitionRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(SX 210.7-04\(11\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-50-32)Reference 9: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31>Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(SX 210.9-05\(b\)\(2\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-50-31](http://www.xbrl.org/2003/role/disclosureRef-Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-50-31)Reference 11: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(SX 210.5-03\(10\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-50-32](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-50-32)Reference 12: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(SX 210.9-04\(15\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-50-31](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-50-31) + Details Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeStatementAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB 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[http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(SAB Topic 6.1.7\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-50-9](http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (SAB Topic 6.1.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-50-9)Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph \(h\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(SX 210.7-04\(9\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (SX 210.7-04(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-50-32)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph \(a\) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section 45 -Paragraph 2 -Subparagraph (a) -SubTopic 20 -Topic 740 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482659/740-20-45-2)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(SX 210.4-08\(h\)\) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-50-31](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (SX 210.4-08(h)) -SubTopic 10 -Topic 235 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-50-31) + Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionAmount of interest income (expense) classified as nonoperating. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(SX 210.5-03\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-50-32](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-50-32)Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48> + Details Name: us-gaap_InterestIncomeExpenseNonoperatingNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI 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6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(SX 210.5-03\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-50-32](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-50-32)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting 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https://asc.fasb.org/1943274/2147479134/946-220-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-50-32)Reference 22: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32)Reference 23: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph \(SX 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Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32)Reference 28: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(ii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(ii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32)Reference 29: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32)Reference 30: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32)Reference 31: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-50-32)Reference 32: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B)Reference 33: <http://www.xbrl.org/2003/role/disclosureRef-Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7>Reference 34: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-50-31> + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1:

-Paragraph 22 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 13: [http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details](http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details) Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(4\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details) Name: us-gaap_SellingGeneralAndAdministrativeExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 14 R4.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Consolidated Condensed Statements of Comprehensive (Loss) Income - USD (\$) in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Statement of Comprehensive Income [Abstract] A A A Net (Loss) Income \$ 1,533 \$ (11,999) \$ (1,645) \$ (16,414) Other Comprehensive (Loss) Income: A A A Foreign Currency Translation Adjustments (168) 487 (924) 711 Retirement Liability Adjustment æ Net of Tax 281 187 562 372 Total Other Comprehensive (Loss) Income 113 674 (362) 1,083 Comprehensive (Loss) Income \$ 1,646 \$ (11,325) \$ (2,007) \$ (15,331) X - DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-5 + Details](http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: <a href=) Name: us-gaap_ComprehensiveIncomeNetOfTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 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https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting 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https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: <a href=) Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph \(a\) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-04\(19\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details](http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (a) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details) Name: us-gaap_OtherComprehensiveIncomeLossForeignCurrencyTransactionAndTranslationAdjustmentNetOfTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPeriodIncreaseDecreaseAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount after tax of other comprehensive income (loss) attributable to parent entity. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 19 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-19Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph \(c\)\(3\) -SubTopic 10 -Topic 810 -Publisher FASB -URI 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http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1A -Subparagraph (c)(3) -SubTopic 10 -Topic 810 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A + Details) Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount, after tax and reclassification adjustment, of (increase) decrease in accumulated other comprehensive income for defined benefit plan. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph \(j\) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph \(k\) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.7-04\(19\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details](http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (j) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (k) -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1 + Details) Name: us-gaap_OtherComprehensiveIncomeLossPensionAndOtherPostretirementBenefitPlansAdjustmentNetOfTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 15 R5.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Consolidated Condensed Statements of Cash Flows - USD (\$) in Thousands 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Cash Flows from Operating Activities: A A Net Loss \$ (1,645) \$ (16,414) Adjustments to Reconcile Net Loss to Cash Flows from Operating Activities: A A Depreciation and Amortization 12,531 13,373 Amortization of Deferred Financing Fees 1,695 1,363 Provisions for Non-Cash Losses on Inventory and Receivables 2,415 1,705 Equity-based Compensation Expense 4,642 3,992 Operating Lease Non-Cash Expense 2,562 2,563 Non-Cash 401K Contribution and Quarterly Bonus Accrual 3,454 2,536 Non-Cash Annual Stock Bonus Accrual 1,448 0 Net Gain on Sale of Business, Before Taxes 0 (3,427) Non-Cash Deferred Liability Recovery 0 (5,824) Other 1,827 (1,275) Changes in Operating Assets and Liabilities Providing (Using) Cash: A A Accounts Receivable (15,281) (22,619) Inventories (11,398) (22,638) Accounts Payable (4,661) 14,081 Accrued Expenses 9,255 5,611 Customer Advance Payments and Deferred Revenue (4,280) 959 Income Taxes (4,487) 7,422 Operating Lease Liabilities (2,447) (2,674) Supplemental Retirement Plan Liabilities (209) (206) Other Assets and Liabilities 356 321 Net Cash from Operating Activities (4,223) (21,151) Cash Flows from Investing Activities: A A Proceeds from Sale of Business and Assets 0 3,427 Capital Expenditures (3,394) (3,806) Net Cash from Investing Activities (3,394) (379) Cash Flows from Financing Activities: A A Proceeds from Long-term Debt 15,392 131,732 Principal Payments on Long-term Debt (9,498) (112,774) Stock Warrant Activity (3,172) (601) Financing-related Costs (1,837) (6,388) Finance Lease Principal Payments (70) (24) Other (10) 0 Net Cash from Financing Activities 805 11,945 Effect of Exchange Rates on Cash (109) 101 Decrease in Cash and Cash Equivalents and Restricted Cash (6,921) (9,484) Cash and Cash Equivalents and Restricted Cash at Beginning of Period 11,313 13,778 Cash and Cash Equivalents and Restricted Cash at End of Period \$ 4,392 \$ 4,294 X - DefinitionBusiness Acquisition, Preacquisition Contingency, Settlement + ReferencesNo definition available. + Details Name: atro_BusinessAcquisitionPreacquisitionContingencySettlement Namespace Prefix: atro_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionIncrease (Decrease) in Operating Lease Liabilities + ReferencesNo definition available. + Details Name: atro_IncreaseDecreaseInOperatingLeaseLiabilities Namespace Prefix: atro_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionNon-Cash Annual Stock Bonus Accrual + ReferencesNo definition available. + Details Name: atro_NonCashAnnualStockBonusAccrual Namespace Prefix: atro_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionOperating Lease, Non-Cash

Expense + ReferencesNo definition available. + Details Name: atro_OperatingLeaseNonCashExpense Namespace Prefix: atro_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionProceeds (Payments) From Stock Award Activity + ReferencesNo definition available. + Details Name: atro_ProceedsPaymentsFromStockAwardActivity Namespace Prefix: atro_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionProvision For Non Cash Losses On Inventory And Receivables + ReferencesNo definition available. + Details Name: atro_ProvisionForNonCashLossesOnInventoryAndReceivables Namespace Prefix: atro_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionAmount of amortization expense attributable to debt discount (premium) and debt issuance costs. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69F>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph \(b\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1F](http://www.xbrl.org/2003/role/disclosureRef-Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1F)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 5: <http://www.xbrl.org/2003/role/commonPracticeRef-Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3> + Details Name: us-gaap_AmortizationOffinancingCostsAndDiscounts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4> + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1> + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(b\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph \(e\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22) + Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 230 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1> + Details Name: us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionAmount of cash outflow for principal payment on finance lease. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(g\)\(1\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5](http://www.xbrl.org/2003/role/disclosureRef-Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5) + Details Name: us-gaap_FinanceLeasePrincipalPayments Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: credit Period Type: duration X - DefinitionAmount of gain (loss) from sale and disposal of integrated set of activities and assets capable of being conducted and managed for purpose of providing return in form of dividend, lower cost, or other economic benefit to investor, owner, member and participant. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-1B) + Details Name: us-gaap_GainLossOnSaleOfBusiness Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInAccountsPayable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in amount due within one year (or one business cycle) from customers for the credit sale of goods and services. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInAccountsReceivable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the period in the amount due for taxes based on the reporting entity's earnings or attributable to the entity's income earning process (business presence) within a given jurisdiction. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInAccruedIncomeTaxesPayable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of expenses incurred but not yet paid. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInAccruedLiabilities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) in obligation to transfer good or service to customer for which consideration has been received or is receivable. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-11)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInContractWithCustomerLiability Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInEmployeeRelatedLiabilities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in operating assets after deduction of operating liabilities classified as other. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph \(a\) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28) + Details Name: us-gaap_IncreaseDecreaseInOtherOperatingCapitalNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24> + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24> + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25> + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemBalance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(g\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph \(g\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2)Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.5-03\(20\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(b\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1)Reference 13: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>

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https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18>: <http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19>: [http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.7-04\(18\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-599-1Reference 20](http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-599-1Reference 20): [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.6-07\(9\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-1Reference 21](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-1Reference 21): [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 3 -Subparagraph \(SX 210.6-09\(1\)\(d\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3Reference 22](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 599 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-599-3Reference 22): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 23](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 23): [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 24](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 24): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 25](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 25): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(4\)\(iv\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 26](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 26): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph \(SX 210.13-01\(a\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 27](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1AReference 27): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(i\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference 28](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference 28): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(ii\)\(A\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference 29](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(ii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference 29): [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph \(SX 210.13-02\(a\)\(4\)\(iii\)\(B\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference 30](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification 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32](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-599-1BReference 32):

<https://asc.fasb.org/1943274/214748112/505-10-50-2Reference 2>: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 10 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 10 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3): [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.6-05\(4\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4): [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(4\)\(b\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5): [http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(16\)\(a\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6](http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6):

xbrl:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2>: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(30\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3>: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(31\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4>: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147481372/852-10-55-1Reference 5>: <http://www.xbrl.org/2003/role/exampleRef-Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI> <https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(19\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.6-05\(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8>: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(4\)\(b\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(6\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10>: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(7\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11>: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(iii\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(iii))) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12>: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13>: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI) <https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14>: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SAB Topic 4.E\) -Publisher FASB -URI](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI) https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionNumber of previously issued common shares repurchased by the issuing entity and held in treasury. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 45 -Paragraph 1 -Publisher FASB -URI>

Type: duration XML 20 R10.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Property, Plant and Equipment 6 Months Ended Jun. 29, 2024 Property, Plant and Equipment [Abstract] X - Property, Plant and Equipment Property, Plant and EquipmentProperty, Plant and Equipment consisted of the following:(In thousands)June 29, 2024December 31, 2023Land\$8,579A \$8,606A Buildings and Improvements171,354A 71,480A Machinery and Equipment129,289A 126,725A Construction in Progress3,698A 4,219A 212,920A 211,030A Less Accumulated Depreciation130,409A 125,594A \$82,511A \$85,436A X - ReferencesNo definition available. + Details Name: us-gaap PropertyPlantAndEquipmentDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. + ReferencesReference 1: <http://fashb.org/us-gaap/role/ref/legacyRef-Topic 360 - Name Accounting Standards Codification -Publisher FASB -URI https://asc.fashb.org/360/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 6 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fashb.org/1943274/2147477798/958-360-50-6>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(d\) -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fashb.org/1943274/2147477798/958-360-50-1](http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fashb.org/1943274/2147477798/958-360-50-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 7 -SubTopic 360 -Topic 958 -Publisher FASB -URI https://asc.fashb.org/1943274/2147477798/958-360-50-7> + Details Name: us-gaap PropertyPlantAndEquipmentDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 21 R11.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Intangible Assets 6 Months Ended Jun. 29, 2024 Goodwill and Intangible Assets Disclosure [Abstract] A Intangible Assets Intangible AssetsThe following table summarizes acquired intangible assets as follows:June 29, 2024December 31, 2023(In thousands)WeightedAverageÄ LifeGrossÄ CarryingAmountAccumulatedAmortizationGrossÄ CarryingAmountAccumulatedAmortizationPatents11 years\$2,146A \$2,146A \$2,146A \$2,146A Non-compete Agreement4 years11,082A 11,082A 11,082A 11,072A Trade Names10 years11,403A 10,162A 11,426A 9,973A Completed and Unpatented Technology9 years47,857A 40,795A 47,896A 38,961A Customer Relationships15 years142,137A 91,597A 142,208A 87,186A Total Intangible Assets13 years\$214,625A \$155,782A \$214,758A \$149,338A All acquired intangible assets other than goodwill and one trade name are being amortized. Amortization expense for acquired intangibles is summarized as follows: Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Amortization Expense\$6,539A \$7,196A \$3,269A \$3,599A Amortization expense for acquired intangible assets expected for 2024 and for each of the next five years is summarized as follows:(In thousands)2024\$12,863A 2025\$10,935A 2026\$9,533A 2027\$7,825A 2028\$7,037A 2029\$5,664A X - ReferencesNo definition available. + Details Name: us-gaap GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for all or part of the information related to intangible assets. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fashb.org/350-30/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fashb.org/1943274/2147482665/350-30-50-4>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fashb.org/1943274/2147482665/350-30-50-2>Reference 4: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fashb.org/1943274/2147482548/350-20-55-24](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fashb.org/350-20/tableOfContent + Details Name: us-gaap GoodwillDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 22 R12.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill 6 Months Ended Jun. 29, 2024 Goodwill and Intangible Assets Disclosure [Abstract] A Goodwill GoodwillThe following table summarizes the changes in the carrying amount of goodwill for the six months ended June 29, 2024:(In thousands)December 31, 2023Foreign Currency TranslationJune 29, 2024Aerospace$36,575A (67)36,508A Test Systems21,635A ä€Ä 21,635A $58,210A (67)58,143A X - ReferencesNo definition available. + Details Name: us-gaap GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for goodwill. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147482573/350-20-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fashb.org/1943274/2147482573/350-20-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481544/470-10-50-6](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fashb.org/350-20/tableOfContent + Details Name: us-gaap GoodwillDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 23 R13.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Long-term Debt and Notes Payable 6 Months Ended Jun. 29, 2024 Debt Disclosure [Abstract] A Long-term Debt and Notes Payable Long-term Debt and Notes PayableThe Company's long-term debt at JuneÄ 29, 2024 and December 31, 2023 consisted of borrowings under its Sixth Amended and Restated Credit Agreement (the ä€œABL Revolving Credit Facilityä€) which was entered into on JanuaryÄ 19, 2023. The ABL Revolving Credit Facility set the maximum aggregate amount that the Company can borrow under the revolving credit line at $115 million, with borrowings subject to a borrowing base determined primarily by certain domestic inventory and accounts receivable. The maturity date of borrowings under the ABL Revolving Credit Facility was JanuaryÄ 19, 2026. Under the terms of the ABL Revolving Credit Facility, the Company paid interest on the unpaid principal amount of the facility at a rate equal to SOFR (which was required to be at least 1.00%) plus 2.25% to 2.75%. The Company was required to pay a quarterly commitment fee under the ABL Revolving Credit Facility in an amount equal to 0.25% or 0.375% based on the Companyä€™s average excess availability. Under the provisions of the ABL Revolving Credit Facility, the Company has a cash dominion arrangement with the lead banking institution whereby eligible daily cash receipts are contractually utilized to pay down outstanding borrowings and any cash balances subject to the dominion arrangement collateralize the outstanding borrowings under the ABL Revolving Credit Facility. Eligible cash balances that have not yet been applied to outstanding debt balances are classified as restricted cash in the accompanying Consolidated Condensed Balance Sheets. The Company was also required to maintain minimum excess availability of $10 million for the quarter ended JuneÄ 29, 2024. On JuneÄ 29, 2024, there was $97.4 million outstanding on the ABL Revolving Credit Facility and there remained $17.3Ä million available, net of outstanding letters of credit (though subject to the minimum liquidity requirement). The Company also entered into a $90 million asset-based Term Loan Facility on JanuaryÄ 19, 2023. The Term Loan Facility was secured primarily by fixed assets, real estate and intellectual property. The maturity date of the Term Loan Facility was the earlier of the stated maturity date of the ABL Revolving Credit Facility or JanuaryÄ 19, 2027, if the ABL Revolving Credit Facility was extended beyond that date. The Company paid interest under the Term Loan Facility at a rate equal to SOFR (which was required to be at least 2.50%) plus 8.75%. The Company was required to pay a commitment fee under the Term Loan Facility of 5% of the total aggregate commitment, or $4.5 million, $1.8 million which was paid on the closing date, $1.8 million which was paid in June 2023 and $0.9 million which was paid in June 2024.Amortization of the principal under the Term Loan Facility began with a monthly amortization rate of 0.292% of the outstanding term loan principal balance for the period AprilÄ 1, 2023 through JuneÄ 1, 2023, 0.542% per month for the period JulyÄ 1, 2023 through SeptemberÄ 1, 2023 and 0.833% monthly thereafter.Pursuant to the ABL Revolving Credit Facility and the Term Loan Facility, the Company was required to comply with a minimum trailing four quarter Adjusted EBITDA, as defined in the ABL Revolving Credit Facility and Term Loan Facility Agreements, of $48.0Ä million in the second quarter of 2024, increasing thereafter. Mandatory prepayment of a portion of excess cash flow, as defined by the Term Loan Facility, was payable towards the principal amount outstanding on an annual basis. No such amounts were payable for the year ended DecemberÄ 31, 2023. Any voluntary prepayments made are subject to a prepayment fee, as defined by the Term Loan Facility. The Company was subject to a minimum fixed charge coverage ratio of 1.10 to 1.00. Further, the Company was subject to excess cash flow repayment provisions, restrictions on additional indebtedness, share repurchases and dividend payments, and a limitation on capital expenditures. The Company was in compliance with debt covenants under the ABL Revolving Credit Facility and Term Loan Facility as of and for the quarter ended JuneÄ 29, 2024. The Company amended its existing ABL Revolving Credit Facility on JulyÄ 11, 2024 by entering into the Seventh Amended and Restated Credit Agreement (the ä€œRestated ABL Agreementä€). The Restated ABL Agreement increased the maximum aggregate amount that the Company can borrow pursuant to the revolving credit line thereunder to $200Ä million from $115Ä million, with borrowings subject to a borrowing base determined primarily by inventory, accounts receivable, machinery and equipment and real estate. The Restated ABL Agreement extended the scheduled maturity date for the credit facility from JanuaryÄ 19, 2026 to JulyÄ 11, 2027. Under the terms of the Restated ABL Agreement, the Company will now pay interest on the unpaid principal amount of the credit facility at a rate equal to SOFR plus a term SOFR adjustment in the amount of 0.10% per annum (which collectively shall be at least 1.00%) plus an applicable margin ranging from 2.50% to 3.00% determined based upon the Companyä€™s excess availability (as defined in the Restated ABL Agreement). The Company will pay a quarterly commitment fee under the Restated ABL Agreement on undrawn revolving credit commitments in an amount equal to 0.25% or 0.375% based on the Companyä€™s average excess availability under the credit facility.The Company also entered into a $55Ä million Term Loan Facility (the ä€œRevised Term Loan Facilityä€) on JulyÄ 11, 2024. The Revised Term Loan Facility is secured primarily by the Companyä€™s intellectual property and equity interests of the Companyä€™s subsidiaries. The maturity date of the Revised Term Loan Facility is JulyÄ 11, 2027. The Company will pay interest under the Revised Term Loan Facility at a rate equal to SOFR plus a term SOFR adjustment in the amount of 0.10% per annum (which collectively shall be at least 1.00%) plus an applicable margin ranging from 5.50% to 6.75% determined based upon the Companyä€™s consolidated leverage ratio (as defined in the Revised Term Loan Facility). The Company will pay a commitment fee to the lenders under the Revised Term Loan Facility in the amount of 2.0% of the total aggregate commitment. The Company is required to repay the principal amount of the term loans under the Revised Term Loan Facility in quarterly installments on the last day of each fiscal quarter in an amount equal to $137,500. The principal amount of the Revised Term Loan Facility will amortize at a rate of 1.00% (or approximately $550,000) per year. The Company is required to pay a call premium of $3.2Ä million in conjunction with the repayment of the original Term Loan Facility.Total payments of $1.3Ä million are payable over the next twelve months, including the annual amortization of the Revised Term Loan Facility and the final monthly $0.8Ä million payment due under the Term Loan Facility prior to its termination, and as such, have been classified as current in the accompanying Consolidated Condensed Balance Sheet as of JuneÄ 29, 2024. The interest rate on current maturities of long-debt is variable at SOFR plus 8.75% and was 14.2% at JuneÄ 29, 2024 and DecemberÄ 31, 2023. The remaining balance of $79.7Ä million under the Term Loan Facility as of JuneÄ 29, 2024, is recorded as long-term in the accompanying Consolidated Condensed Balance Sheet.The Company incurred $1.7Ä million in incremental debt issuance costs during the six months ended JuneÄ 29, 2024, allocated between the original and Restated ABL Revolving Credit Facilities and the original and Revised Term Loan Facilities. All costs are amortized to interest expense over the term of the respective agreement. Unamortized deferred debt issuance costs associated with the ABL Revolving Credit Facility ($1.8Ä million as of JuneÄ 29, 2024) are recorded within Other Assets and those associated with the Term Loan Facility ($4.5Ä million as of JuneÄ 29, 2024) are recorded as a reduction of the carrying value of the debt on the Consolidated Condensed Balance Sheet.Certain of the Companyä€™s subsidiaries are borrowers under the Restated ABL Agreement and the Revised Term Loan Facility and the assets of such subsidiaries also secure the obligations under the Restated Agreement and the Term Loan Facility.Pursuant to the Restated ABL Agreement and the Revised Term Loan Facility, the Company is subject to a minimum fixed charge coverage ratio of 1.10 to 1.00. The Company is also required to maintain minimum excess availability of the greater of 10% of the borrowing base under the Restated Agreement, or $15.0Ä million.In the event of voluntary or involuntary bankruptcy of the Company or any subsidiary, all unpaid principal and other amounts owing under the credit facilities automatically become due and payable. Other events of default, such as failure to make payments as they become due and breach of financial and other covenants, change of control, cross default under other material debt agreements, and a going concern qualification for any reason other than loan maturity date give the agent the option to declare all such amounts immediately due and payable.The Company expects its sales growth and reductions in working capital will provide sufficient cash flows to fund operations. However, the Company may also evaluate various actions and alternatives to enhance its profitability and cash generation from operating activities, which could include manufacturing efficiency initiatives, cost-reduction measures, working with vendors and suppliers to reduce lead times and expedite shipment of critical components, and working with customers to expedite receivable collections.Our ability to maintain sufficient liquidity and comply with financial debt covenants is highly dependent upon achieving expected operating results. Failure to achieve expected operating results could have a material adverse effect on our liquidity, our ability to obtain financing or access our existing financing, and our operations in the future and could allow our debt holders to demand payment of all outstanding amounts. X - ReferencesNo definition available. + Details Name: us-gaap DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants. + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481544/470-10-50-6](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481544/470-10-50-6)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\)\(3\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\)\(2\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\)\(1\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fashb.org/1943274/2147477092/405-40-50-1)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(h\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.4-08\(c\)\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147480678/235-10-599-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.4-08(c)) -Publisher FASB -URI https://asc.fashb.org/1943274/2147480678/235-10-599-1)Reference 10: <http://fashb.org/us-gaap/role/ref/legacyRef -Topic 470 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fashb.org/470/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fashb.org/1943274/2147482925/835-30-45-2>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B>Reference 13: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(g\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(i\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (i) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1B)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph \(a\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1C](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (a) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1C)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph \(b\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1C](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (b) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1C)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph \(c\) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1C](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (c) -Publisher FASB -URI https://asc.fashb.org/1943274/2147481139/470-20-50-1C)

https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-11Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-11Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-11 + Details Name: us-gaap DebtDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R14.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Product Warranties 6 Months Ended Jun. 29, 2024 Guarantees [Abstract] A Product Warranties Product WarrantiesIn the ordinary course of business, the Company warrants its products against defects in design, materials, and workmanship typically over periods ranging from twelve to sixty months. The Company determines warranty reserves needed by product line based on experience and current facts and circumstances. Activity in the warranty accrual is summarized as follows:Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Balance at Beginning of Period\$9,751A \$8,009A \$10,522A \$7,401A Warranties Issued3,301A 1,908A 1,812A 1,128A Warranties Settled(1,702)(2,151)(956)(814)Reassessed Warranty Exposure(47)(61)(75)(10)Balance at End of Period\$11,303A \$7,705A \$11,303A \$7,705A X - ReferencesNo definition available. + Details Name: us-gaap GuaranteesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for standard and extended product warranties and other product guarantee contracts, including a tabular reconciliation of the changes in the guarantor's aggregate product warranty liability for the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(5) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4 + Details Name: us-gaap ProductWarrantyDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 25 R15.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes 6 Months Ended Jun. 29, 2024 Income Tax Disclosure [Abstract] A Income Taxes Income TaxesThe effective tax rates were approximately (21.8)% and (207.5)% for the three months ended and 49.7% and (133.6)% for the six months ended June 29, 2024 and July 1, 2023, respectively. Beginning with the 2022 tax year, certain research and development costs are required to be capitalized and amortized over sixty months for income tax purposes. The tax rate in the 2024 period was impacted by a valuation allowance applied against the deferred tax asset associated with the research and development costs that are expected to be capitalized and was partially offset by the removal of valuation allowances related to net operating losses and certain timing differences that are expected to reverse during 2024. In addition, the tax rate in the 2024 period was also impacted by state income taxes and the federal research and development credit expected for 2024.The Company records a valuation allowance against the deferred tax assets if and to the extent it is more likely than not that the Company will not recover the deferred tax assets. In evaluating the need for a valuation allowance, the Company weighs all relevant positive and negative evidence and considers among other factors, historical financial performance, projected future taxable income, scheduled reversals of deferred tax liabilities, the overall business environment, and tax planning strategies. Losses in recent periods and cumulative pre-tax losses in the three-year period ending with the current year, combined with the significant uncertainty brought about by the COVID-19 pandemic, are collectively considered significant negative evidence under ASC 740 when assessing whether an entity can use projected income as a basis for concluding that deferred tax assets are realizable on a more-likely than not basis. For purposes of assessing the recoverability of deferred tax assets, the Company determined that it could not include future projected earnings in the analysis due to its recent history of losses and therefore had insufficient objective positive evidence that the Company will generate sufficient future taxable income to overcome the negative evidence of cumulative losses. Accordingly, during the years ended December 31, 2023 and 2022, the Company determined that a portion of its deferred tax assets were not expected to be realizable in the future and the Company continues to maintain the valuation allowance against its deferred tax assets as of June 29, 2024. X - ReferencesNo definition available. + Details Name: us-gaap IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for income tax. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12CReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12BReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 270 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477891/740-270-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SAB Topic 6.1.5.Q1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-599-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(h)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/740/tableOfContentReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-14Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-21Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 17 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-17Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 2 -Subparagraph (SAB Topic 11.C) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-599-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482603/740-30-50-2 + Details Name: us-gaap IncomeTaxDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R16.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Earnings Per Share 6 Months Ended Jun. 29, 2024 Earnings Per Share [Abstract] A Earnings Per Share Earnings Per ShareBasic and diluted weighted-average shares outstanding are as follows:Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Weighted Average Shares - Basic34,936A 32,560A 35,007A 32,614A Net Effect of Dilutive Stock Awards 4A 4A 540A 4A A Weighted Average Shares - Diluted34,936A 32,560A 35,547A 32,614A Stock options with exercise prices greater than the average market price of the underlying common shares are excluded from the computation of diluted earnings per share because they are out-of-the-money and the effect of their inclusion would be anti-dilutive. The Company incurred a net loss for the six months ended June 29, 2024 and the three and six months ended July 1, 2023, therefore all outstanding stock options and unvested restricted stock units are excluded from the computation of diluted loss per share because the effect of their inclusion would be anti-dilutive. The number of common shares excluded from the computation was approximately 1,072,000 shares as of June 29, 2024 and 1,114,000 shares as of July 1, 2023. X - ReferencesNo definition available. + Details Name: us-gaap EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for earnings per share. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/260/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-3 + Details Name: us-gaap EarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 27 R17.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Shareholders' Equity 6 Months Ended Jun. 29, 2024 Equity [Abstract] A Shareholders' Equity Shareholders' EquityShare Buyback and ReissuanceThe Company's Board of Directors from time to time authorizes the repurchase of common stock, which allows the Company to purchase shares of its common stock in accordance with applicable securities laws on the open market or through privately negotiated transactions. Common shares repurchased by the Company are recorded at cost as treasury shares and result in a reduction of equity. Under its current credit agreements, the Company is currently restricted from further stock repurchases. When treasury shares are reissued, the Company determines the cost using an average cost method. The difference between the average cost of the treasury shares and the reissuance price is included in Retained earnings. During the six month periods ended June 29, 2024 and July 1, 2023, the Company reissued 139,000 and 164,000 treasury shares, respectively, associated with the funding of employer 401K contributions and recorded the difference between the average cost and the reissuance price, \$1.3A million and \$2.2 million, respectively, as a reduction to Retained earnings.At-the-Market Equity OfferingOn August 8, 2023, the Company initiated an at-the-market equity offering program (the "ATM Program") for the sale from time to time of shares of the Company's common stock, par value \$0.01 per share ("Common Stock") having an aggregate offering price of up to \$30.0A million. During the three and six months ended June 29, 2024, the Company did not sell any shares of our common stock under the ATM Program. As of June 29, 2024, the Company had remaining capacity under the ATM Program to sell shares of Common Stock having an aggregate offering price up to approximately \$8.2A million. Comprehensive (Loss) Income and Accumulated Other Comprehensive LossThe components of accumulated other comprehensive loss are as follows:(In thousands)June 29, 2024December 31, 2023Foreign Currency Translation Adjustments\$(7,275)\$(6,351)Retirement Liability Adjustment 4A 4A Before Tax(4,795)\$(5,357)Tax Benefit of Retirement Liability Adjustment 2,282A 2,282A Retirement Liability Adjustment 4A 4A After Tax(2,513)(3,075)Accumulated Other Comprehensive Loss\$(9,788)\$(9,426)The components of other comprehensive (loss) income are as follows:Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Foreign Currency Translation Adjustments\$(924)\$711A \$(168)\$487A Retirement Liability Adjustments:Reclassifications to Selling, General and Administrative Expenses:Amortization of Prior Service Cost193A 193A 96A 98A Amortization of Net Actuarial Losses369A 179A 185A 89A Retirement Liability Adjustment562A 372A 281A 187A Other Comprehensive (Loss) Income\$(362)\$1,083A \$113A \$674A X - ReferencesNo definition available. + Details Name: us-gaap EquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-14Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-6Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-6Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-599-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(e)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-599-1Reference 10: http://asc.fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-13Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-13Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-13Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-14Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-14Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-16Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-18Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-18Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/214748112/505-10-50-18 + Details Name: us-gaap StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 28 R18.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Supplemental Retirement Plan and Related Post Retirement Benefits 6 Months Ended Jun. 29, 2024 Retirement Benefits [Abstract] A Supplemental Retirement Plan and Related Post Retirement Benefits Supplemental Retirement Plan and Related Post Retirement BenefitsThe Company has two non-qualified supplemental retirement defined benefit plans ("SERP" and "SERP II") for certain current and retired executive officers. The following table sets forth information regarding the net periodic pension cost for the plans.Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023Service Cost\$53A \$53A \$27A Interest Cost\$65A 652A 342A 327A Amortization of Prior Service Cost193A 193A 96A 98A Amortization of Net Actuarial Losses369A 179A 185A 89A Net Periodic Cost\$1,247A \$1,077A \$623A \$541A Participants in the SERP are entitled to paid

medical, dental, and long-term care insurance benefits upon retirement under the plan. The Company also has a defined benefit plan related to its subsidiary in France. The net periodic cost for both plans for the three and six months ended JuneA 29, 2024 and JulyA 1, 2023, is immaterial. The service cost component of net periodic benefit costs above is recorded in Selling, General and Administrative Expenses within the consolidated Condensed Statements of Operations, while the remaining components are recorded in Other Expense (Income), Net. X - ReferencesNo definition available. + Details Name: us-gaap CompensationAndRetirementDisclosureAbstract Namespace Prefix: us-gaap Data Type: xbrl:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for retirement benefits. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 70 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/21474800794/715-70-50-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 17 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480482/715-20-55-17>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d)(iv)(03) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d)(i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (q) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (l) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/715/tableOfContentReference> 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (d)(iii) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (o) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (p) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (r)(1) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (r)(2) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480506/715-20-50-1>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 20 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480126/715-20-S99-2>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 715 -SubTopic 60 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480266/715-60-50-3> + Details Name: us-gaap PensionAndOtherPostretirementBenefitsDisclosureTextBlock Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 29 R19.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Sales to Major Customers 6 Months Ended Jun. 29, 2024 Risks and Uncertainties [Abstract] A Sales to Major Customers Sales to Major CustomersThe loss of major customers or a significant reduction in business with a major customer would significantly, and negatively impact our sales and earnings. In the three and six months ended JuneA 29, 2024 and JulyA 1, 2023, the Company had one customer over 10% of consolidated sales. Sales to The Boeing Company (â€œBoeingâ€) accounted for 11.7% and 11.2% of sales in the three and six months ended JuneA 29, 2024 and 11.5% and 10.9% in the three and six months ended JulyA 1, 2023, respectively. Accounts receivable from Boeing on JuneA 29, 2024 were approximately \$23.2 million. X - DefinitionThe entire disclosure for any concentrations existing at the date of the financial statements that make an entity vulnerable to a reasonably possible, near-term, severe impact. This disclosure informs financial statement users about the general nature of the risk associated with the concentration, and may indicate the percentage of concentration risk as of the balance sheet date. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 275 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/275/tableOfContent> + Details Name: us-gaap ConcentrationRiskDisclosureTextBlock Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap RisksAndUncertaintiesAbstract Namespace Prefix: us-gaap Data Type: xbrl:stringItem Type Balance Type: na Period Type: duration XML 30 R20.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Legal Proceedings 6 Months Ended Jun. 29, 2024 Commitments and Contingencies Disclosure [Abstract] A Legal Proceedings Legal ProceedingsLufthansaOne of the Companyâ€™s subsidiaries is involved in numerous patent infringement actions brought by Lufthansa Technik AG (â€œLufthansaâ€) in Germany, the United Kingdom (â€œUKA€) and France. The Company is vigorously defending all such litigation and proceedings. Additional information about these legal proceedings can be found in Note 19 â€œLegal Proceedingsâ€ in the Companyâ€™s Annual Report on Form 10-K for the year ended DecemberA 31, 2023. The reserve for the German indirect claim and interest was approximately \$17.3A million on JuneA 29, 2024 and \$17.1 million on DecemberA 31, 2023. The Company currently believes it is unlikely that the damages in the indirect proceedings and related interest will be paid within the next twelve months. Therefore, the liability related to this matter is classified within Other Liabilities (non-current) in the Consolidated Condensed Balance Sheets on JuneA 29, 2024 and DecemberA 31, 2023. In the matter before the UK High Court of Justice, as previously disclosed, Lufthansa has pleaded its case for monetary compensation, which will be determined at a separate trial. Lufthansa has elected to pursue a claim in relation to the defendantsâ€™ profits from their infringing activities. We have estimated damages and accrued interest for AES and its indemnified customers of approximately \$7.3A million and \$7.4A million as of JuneA 29, 2024 and DecemberA 31, 2023, respectively. This variance is due to currency fluctuation and interest accrued. Interest will accrue until the final payment to Lufthansa. This amount is subject to change as additional data is received and evaluated, and as additional information regarding the nature of its claim is put forward by Lufthansa in advance of the damages trial. The damages trial is scheduled to be heard starting in October 2024, with payment likely due in early 2025. Therefore, the liability related to these matters is classified within Accrued Expenses and Other Current Liabilities in the Consolidated Condensed Balance Sheets on JuneA 29, 2024. The liability related to these matters was classified within Other Liabilities (non-current) on DecemberA 31, 2023. As previously disclosed, on December 4, 2020, the Court held the French patent invalid for all asserted claims. There can consequently be no finding of infringement on first instance. Lufthansa has appealed this judgment. The appeal hearing took place on December 8, 2022, and on February 24, 2023, the Court upheld the first instance judgment in favor of AES. Lufthansa lodged an appeal before the French Supreme Court; the French Supreme Court will review the Court of Appeal of Paris reasoning around the nullification of one of the claims of the patent. AES filed a brief with the French Supreme Court on January 22, 2024 in response to Lufthansaâ€™s appeal and awaits guidance on further briefing or a decision from the Court. As loss exposure is not probable and estimable at this time, the Company has not recorded any liability with respect to the French matter as of JuneA 29, 2024 or DecemberA 31, 2023. There were no other significant developments in any of these matters during the six months ended June 29, 2024. A liability for reimbursement of Lufthansaâ€™s legal expenses associated with the UK matter was approximately \$0.7A million on JuneA 29, 2024 and DecemberA 31, 2023, which is expected to be paid within the next twelve months and, as such, is classified in Accrued Expenses and Other Current Liabilities in the accompanying Consolidated Condensed Balance Sheet as of JuneA 29, 2024 and DecemberA 31, 2023. OtherOn March 23, 2020, Teradyne, Inc. filed a complaint against the Company and its subsidiary, Astronics Test Systems (â€œATSâ€) (together, â€œthe Defendantsâ€) in the United States District Court for the Central District of California alleging patent and copyright infringement, and certain other related claims. The Defendants moved to dismiss certain claims from the case. On November 6, 2020, the Court dismissed the Company from the case, and also dismissed a number of claims, though the patent and copyright infringement claims remained. The case proceeded to discovery. In addition, on December 21, 2020, ATS filed a petition for inter partes review (â€œIPRâ€) with the US Patent Trial and Appeal Board (â€œPTABâ€), seeking to invalidate the subject patent, and on July 21, 2021, the PTAB instituted IPR. The PTAB issued its decision on July 20, 2022, in which it invalidated all of Teradyneâ€™s patent claims. Teradyne did not appeal the decision. On June 5, 2023, the parties attended a court-ordered mediation but did not reach a settlement. After the mediation, Teradyne agreed to drop its remaining state law claims in exchange for ATS dropping one of its defenses, leaving only its copyright claim. On December 7, 2023, the District Court granted ATSâ€™s motion for summary judgment on its affirmative defense of fair use. The Court subsequently entered final judgment in favor of ATS on December 14, 2023. Teradyne filed a Notice of Appeal to the Ninth Circuit Court of Appeals on January 12, 2024. Teradyneâ€™s opening brief on its appeal was filed on April 9, 2024. ATSâ€™s answering brief was filed on June 10, 2024. Teradyneâ€™s reply brief is due August 7, 2024. No amounts have been accrued for this matter in the JuneA 29, 2024, or DecemberA 31, 2023 financial statements, as loss exposure was neither probable nor estimable at such times. Other than these proceedings, we are not party to any significant pending legal proceedings that management believes will result in a material adverse effect on our financial condition or results of operations. X - ReferencesNo definition available. + Details Name: us-gaap CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap Data Type: xbrl:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for commitments and contingencies. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/405-30/tableOfContentReference> 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482648/440-10-50-4>Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/450/tableOfContentReference> 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478522/954-440-50-1>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482648/440-10-50-4>Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/440/tableOfContent> + Details Name: us-gaap CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration XML 31 R21.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment Information 6 Months Ended Jun. 29, 2024 Segment Reporting [Abstract] A Segment Information Segment InformationBelow are the sales and operating profit by segment for the three and six months ended JuneA 29, 2024 and JulyA 1, 2023, and a reconciliation of segment operating profit to (loss) income before income taxes. Operating profit is net sales less cost of products sold and other operating expenses excluding interest and corporate expenses. Cost of products sold and other operating expenses are directly identifiable to the respective segment. Six Months EndedThree Months Ended(In thousands)June 29, 2024July 1, 2023June 29, 2024July 1, 2023SalesAerospace\$340,623A \$294,101A \$176,948A \$158,386A Less Inter-segment Salesâ€(42)(122)(5)(4)Total Aerospace Sales340,581A 293,979A 176,943A 158,382A Test Systems42,607A 37,013A 21,171A 16,072A Less Inter-segment Salesâ€(A â€A â€A â€A Total Test Systems Sales42,607A 37,013A 21,171A 16,072A Total Consolidated Sales\$383,188A \$330,992A \$198,114A \$174,454A Segment Measure of Operating Profit and MarginsAerospace\$31,377A \$17,806A \$19,280A \$13,719A 9.2A %6.1A %10.9A %8.7A %Test Systems(8,415)(6,740)(5,336)(6,143)(19.8%)(18.2%)(25.2%)(28.3%)Total Segment Measure of Operating Profit122,962A 11,066A 13,944A 7,576A 6.0A %3.3A %7.0A %4.3A %(Additions to Deductions from Segment Measure of Operating Profit:Net Gain on Sale of Businessâ€(A (3,427)â€A â€A Interest Expense, Net of Interest Income11,615A 11,390A 5,856A 5,920A Corporate Expenses and Other14,617A 10,130A 6,829A 5,558A (Loss) Income Before Income Taxes\$(3,270)\$(7,027)1,259A \$(3,902)During the six months ended JulyA 1, 2023, \$5.8A million was recognized in sales related to the reversal of a deferred revenue liability assumed with an acquisition and associated with a customer program within our Test Systems Segment which is no longer expected to occur, which also benefits Test Systemsâ€™ operating loss for the period. Corporate expenses and other for the six months ended JulyA 1, 2023, includes income of \$1.8A million associated with the reversal of a liability related to an equity investment, as we will no longer be required to make the associated payment. This amount is included in Other Expense (Income), Net in the Consolidated Condensed Statement of Operations. Total Assets:(In thousands)June 29, 2024December 31, 2023Aerospace\$504,462A \$493,660A Test Systems123,294A 122,681A Corporate17,103A 17,451A Total Assets\$644,859A \$633,792A X - ReferencesNo definition available. + Details Name: us-gaap SegmentReportingAbstract Namespace Prefix: us-gaap Data Type: xbrl:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482964/270-10-50-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 5: <http://fasb.org/us-gaap/role/ref/otherTransitionRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 6: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-54>Reference 7: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-47>Reference 8: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-54>Reference 9: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-26>Reference 10: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-54>Reference 11: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-54>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-31>Reference 14: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 34 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-34>Reference 15: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26C -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-26C>Reference 16: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26B -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-26B>Reference 17: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-15>Reference 18: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-42>Reference 19: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-40>Reference 20: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Publisher FASB -URI <https://asc.fasb.org/280/tableOfContentReference> 21: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards

Codification -Section 50 -Paragraph 26 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32 + Details Name: us-gaap_SegmentReportingDisclosureTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 32 R22.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value 6 Months Ended Jun. 29, 2024 Fair Value Disclosures [Abstract] A Fair Value Fair ValueThere were no financial assets or liabilities carried at fair value measured on a recurring basis on JuneA 29, 2024 or DecemberA 31, 2023. There were no non-recurring fair value measurements performed in the six months ended JuneA 29, 2024 and JulyA 1, 2023.Due to their short-term nature, the carrying value of cash and equivalents, accounts receivable, and accounts payable approximate fair value. The carrying value of the Companyâ€™s variable rate long-term debt instruments also approximates fair value due to the variable rate feature of these instruments. X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for the fair value of financial instruments (as defined), including financial assets and financial liabilities (collectively, as defined), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 107 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-107Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2E -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2EReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6A -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 940 -SubTopic 820 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478119/940-820-50-1 + Details Name: us-gaap_FairValueDisclosuresTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 33 R23.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Subsequent Events 6 Months Ended Jun. 29, 2024 Subsequent Events [Abstract] A Subsequent EventsSubsequent EventsThe Company amended its existing ABL Revolving Credit Facility on JulyA 11, 2024 by entering into the Seventh Amended and Restated Credit Agreement. The Restated Agreement increased the maximum aggregate amount that the Company can borrow pursuant to the revolving credit line thereunder to \$200A million from \$115A million. The Restated Agreement extended the scheduled maturity date for the credit facility from JanuaryA 19, 2026 to JulyA 11, 2027. The Company also entered into a \$55A million Term Loan Facility on JulyA 11, 2024. The Revised Term Loan Facility has a maturity date of JulyA 11, 2027. The Company repaid in full all outstanding indebtedness under the Term Loan Credit Agreement dated as of JanuaryA 19, 2023. The payoff amount of approximately \$84.5A million consisted of a repayment of the principal amount of approximately \$80.3A million, plus accrued but unpaid interest, fees and expenses, including a call premium of 4.00% (or approximately \$3.2A million) which satisfied all of the Companyâ€™s indebtedness obligations thereunder. The Company funded the repayment of its obligations under the previous agreement with borrowings under the Restated Agreement and the Revised Term Loan Facility. In the third quarter of 2024, the Company expects to record a loss on extinguishment of the debt of approximately \$7.0A million below Income from Operations and a write-off of deferred financing costs of approximately \$0.5A million related to the exiting ABL lender in Interest Expense within the Consolidated Condensed Statements of Operations. The Company incurred approximately \$3.9A million in incremental debt issuance costs related to the new facilities, allocated between the Restated Agreement and the Revised Term Loan Facility. All costs will amortize to interest expense over the term of the respective agreement.Additional information regarding the Revised ABL and Term Loan credit facilities can be found in NoteA 7. X - ReferencesNo definition available. + Details Name: us-gaap_SubsequentEventsAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for significant events or transactions that occurred after the balance sheet date through the date the financial statements were issued or the date the financial statements were available to be issued. Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/855/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 855 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483399/855-10-50-2 + Details Name: us-gaap_SubsequentEventsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 34 R24.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Pay vs Performance Disclosure - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Pay vs Performance Disclosure A A A (Net Loss) Income \$ 1,533 \$ (1,999) \$ (1,645) \$ (16,414) X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1 + Details Name: ecd_PvpTable Namespace Prefix: ecd_Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 35 R25.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Insider Trading Arrangements 3 Months Ended Jun. 29, 2024 Trading Arrangements, by Individual A Rule 10b5-1 Arrangement Adopted false Non-Rule 10b5-1 Arrangement Adopted false Rule 10b5-1 Arrangement Terminated false Non-Rule 10b5-1 Arrangement Terminated false X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrAdoptedFlag Namespace Prefix: ecd_Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrTrmtdFlag Namespace Prefix: ecd_Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrAdoptedFlag Namespace Prefix: ecd_Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1:

[/www.xbrl.org/2003/role/presentationRef - Publisher SEC - Name Regulation S-K - Number 229 - Section 408 - Subsection a - Paragraph 1 - Details Name: ecd Rule10b51ArrTrmtdFlag](#)
 Namespace Prefix: ecd Data Type: xbrli:booleanItem Type Balance Type: na Period Type: duration X - ReferencesReference 1: [http://www.xbrl.org/2003/role/presentationRef - Publisher SEC - Name Regulation S-K - Number 229 - Section 408 - Subsection a - Paragraph 2 - Subparagraph A + Details Name: ecd TradingArrByIndTable Namespace Prefix: ecd Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 36 R26.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation \(Policies\) 6 Months Ended Jun. 29, 2024 Accounting Policies \[Abstract\] A Basis of Presentation and Description of the Business The accompanying unaudited statements have been prepared in accordance with U.S. generally accepted accounting principles for interim financial information. Accordingly, they do not include all of the information and footnotes required by U.S. generally accepted accounting principles for complete financial statements. In the opinion of management, all adjustments, consisting of normal recurring accruals, considered necessary for a fair presentation have been included. Description of the Business Astronics Corporation \(the "Astronics" or the "Company"\) is a leading provider of advanced technologies to the global aerospace, defense, and electronics industries. Our products and services include advanced, high-performance electrical power generation, distribution and seat motion systems, lighting and safety systems, avionics products, systems certification, aircraft structures and automated test systems. We have principal operations in the United States \(the "U.S."\), Canada, France, and England, as well as engineering offices in Ukraine and India. Operating Results Operating Results The results of operations for any interim period are not necessarily indicative of results for the full year. In addition, the supply chain pressures and residual impacts of the COVID-19 pandemic have increased the volatility we experience in our financial results in recent periods and this could continue in future interim and annual periods. Operating results for the six months ended June 29, 2024, are not necessarily indicative of the results that may be expected for the year ending December 31, 2024. The balance sheet on December 31, 2023, has been derived from the audited financial statements at that date but does not include all of the information and footnotes required by U.S. generally accepted accounting principles \(the "GAAP"\) for complete financial statements. Restricted Cash Restricted Cash Under the provisions of the ABL Revolving Credit Facility \(as defined and discussed below in Note 7\), the Company has a cash dominion arrangement with the banking institution for its accounts within the United States whereby daily cash receipts are contractually utilized to pay down outstanding balances on the ABL Revolving Credit Facility. Account balances that have not yet been applied to the ABL Revolving Credit Facility are classified as restricted cash in the accompanying Consolidated Condensed Balance Sheets. Trade Accounts Receivable and Contract Assets Trade Accounts Receivable and Contract Assets The allowance for estimated credit losses is based on the Company's assessment of the collectability of customer accounts. The Company regularly reviews the allowance by considering factors such as the age of the receivable balances, historical experience, credit quality, current economic conditions, and reasonable and supportable forecasts of future economic conditions that may affect a customer's ability to pay. Research and Development Expenses Research and Development Expenses Research and development costs are expensed as incurred and include salaries, benefits, consulting, material costs, and depreciation. Research and development expenses amounted to \\$14.2A million and \\$12.7A million for the three months ended and \\$27.5A million and \\$25.4A million for the six months ended June 29, 2024 and July 1, 2023, respectively. These costs are included in cost of products sold. Valuation of Goodwill and Long-Lived Assets Valuation of Goodwill and Long-Lived Assets The Company tests goodwill at the reporting unit level on an annual basis or more frequently if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount. Long-lived assets are evaluated for recoverability whenever adverse effects or changes in circumstances indicate that the carrying value may not be recoverable. The recoverability test consists of comparing the undiscounted projected cash flows with the carrying amount. Should the carrying amount exceed undiscounted projected cash flows, an impairment loss would be recognized to the extent the carrying amount exceeds fair value. Newly Adopted Accounting Pronouncements Newly Adopted Accounting Pronouncements Recent Accounting Pronouncements Not Yet Adopted Standard Description Financial Statement Effect or Other Significant Matters ASU No. 2023-07 Segment Reporting \(Topic 280\), Improvements to Reportable Segment Disclosure The standard includes updates to the disclosure requirements for a public entity's reportable segments and provides more detailed information about a reportable segment's expenses. The new standard is effective for fiscal years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, with retrospective application required. The Company is currently evaluating the impact of adopting this guidance. We expect adoption to result in additional disclosures in the notes to our Consolidated Financial Statements. ASU No. 2023-09 Income Taxes \(Topic 740\), Improvements to Income Tax Disclosures The amendments in this update require enhanced disclosures within the annual rate reconciliation, including new requirements to present reconciling items on a gross basis in specified categories, disclosure of both percentages and dollar amounts, and disaggregation of the reconciling items by nature when they meet a quantitative threshold. The update also includes enhanced disclosure requirements for income taxes paid. The new standard is effective for annual periods beginning after December 15, 2024; early adoption is permitted. The Company is currently evaluating the impact of adopting this guidance. We expect adoption to result in additional disclosures in the notes to our Consolidated Financial Statements. We consider the applicability and impact of all ASUs. Recent ASUs were assessed and determined to be either not applicable or had or are expected to have minimal impact on our financial statements and related disclosures. X - References No definition available. + Details Name: us-gaap Accounting Policies Abstract Namespace Prefix: us-gaap Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - Definition Disclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements \(for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS\). + References No definition available. + Details Name: us-gaap Basis of Accounting Policy Policy Text Block Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - Definition Entity's cash and cash equivalents accounting policy with respect to restricted balances. Restrictions may include legally restricted deposits held as compensating balances against short-term borrowing arrangements, contracts entered into with others, or company statements of intention with regard to particular deposits; however, time deposits and short-term certificates of deposit are not generally included in legally restricted deposits. + References Reference 1: \[http://fasb.org/us-gaap/role/ref/legacyRef - Topic 942 - SubTopic 210 - Name Accounting Standards Codification - Section S99 - Paragraph 1 - Subparagraph \\(SX 210.9-03\\(1\\)\\(a\\)\\) - Publisher FASB - URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef - Name Accounting Standards Codification - Topic 230 - SubTopic 10 - Section 50 - Paragraph 1 - Publisher FASB - URI https://asc.fasb.org/1943274/2147482913/230-10-50-1 + Details Name: us-gaap Cash and Cash Equivalents Restricted Cash and Cash Equivalents Policy Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - Definition Disclosure of accounting policy for credit loss on financial instrument measured at amortized cost basis, net investment in lease, off-balance sheet credit exposure, and available-for-sale debt security. Includes, but is not limited to, methodology used to estimate allowance for credit loss, how writeoff of uncollectible amount is recognized, and determination of past due status and nonaccrual status. + References Reference 1: \\[http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section S99 - Paragraph 1 - Subparagraph \\\(SAB Topic 6.M.2.Q4\\\) - Publisher FASB - URI https://asc.fasb.org/1943274/2147483530/326-20-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 50 - Paragraph 14 - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-50-14Reference 3: \\\[http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 30 - Paragraph 5A - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-30-5AReference 4: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 50 - Paragraph 3C - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-50-3CReference 5: \\\\[http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 35 - Paragraph 8A - Publisher FASB - URI https://asc.fasb.org/1943274/2147479366/326-20-35-8AReference 6: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 50 - Paragraph 3D - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-50-3DReference 7: \\\\\[http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 45 - Paragraph 5 - Publisher FASB - URI https://asc.fasb.org/1943274/2147479344/326-20-45-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 30 - Paragraph 1B - Publisher FASB - URI https://asc.fasb.org/1943274/2147479175/326-30-30-1BReference 9: \\\\\\[http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 50 - Paragraph 3C - Publisher FASB - URI https://asc.fasb.org/1943274/2147479106/326-30-50-3CReference 10: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 50 - Paragraph 3A - Publisher FASB - URI https://asc.fasb.org/1943274/2147479106/326-30-50-3AReference 11: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 50 - Paragraph 3D - Publisher FASB - URI https://asc.fasb.org/1943274/2147479106/326-30-50-3DReference 12: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 35 - Paragraph 13A - Publisher FASB - URI https://asc.fasb.org/1943274/2147479148/326-30-35-13AReference 13: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 30 - Paragraph 4A - Publisher FASB - URI https://asc.fasb.org/1943274/2147479391/326-20-30-4AReference 14: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 35 - Paragraph 7A - Publisher FASB - URI https://asc.fasb.org/1943274/2147479148/326-30-35-7AReference 15: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 50 - Paragraph 21 - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-50-21Reference 16: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 50 - Paragraph 11 - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-50-11Reference 17: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 30 - Name Accounting Standards Codification - Section 50 - Paragraph 7 - Publisher FASB - URI https://asc.fasb.org/1943274/2147479106/326-30-50-7Reference 18: http://www.xbrl.org/2003/role/disclosureRef - Topic 326 - SubTopic 20 - Name Accounting Standards Codification - Section 50 - Paragraph 17 - Publisher FASB - URI https://asc.fasb.org/1943274/2147479319/326-20-50-17 + Details Name: us-gaap Credit Loss Financial Instrument Policy Text Block Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - Definition Disclosure of accounting policy for determining an entity's fiscal year or other fiscal period. This disclosure may include identification of the fiscal period end-date, the length of the fiscal period, any reporting period lag between the entity and its subsidiaries, or equity investees. If a reporting lag exists, the closing date of the entity having a different period end is generally noted, along with an explanation of the necessity for using different closing dates. Any intervening events that materially affect the entity's financial position or results of operations are generally also disclosed. + References Reference 1: \\\\\\\[http://fasb.org/us-gaap/role/ref/legacyRef - Name Accounting Standards Codification - Topic 810 - SubTopic 10 - Section 45 - Paragraph 12 - Publisher FASB - URI https://asc.fasb.org/1943274/2147481231/810-10-45-12 + Details Name: us-gaap Fiscal Period Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - Definition Disclosure of accounting policy for the impairment and disposal of long-lived assets including goodwill and other intangible assets. + References No definition available. + Details Name: us-gaap Impairment or Disposal of Long-Lived Assets Including Intangible Assets Policy Policy Text Block Namespace Prefix: us-gaap Data Type: dtr-types:textBlockItem Type Balance Type: na Period Type: duration X - Definition Disclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + References No definition available. + Details Name: us-gaap New Accounting Pronouncements Policy Policy Text Block Namespace Prefix: us-ga\\\\\\\]\\\\\\\(#\\\\\\\)\\\\\\]\\\\\\(#\\\\\\)\\\\\]\\\\\(#\\\\\)\\\\]\\\\(#\\\\)\\\]\\\(#\\\)\\]\\(#\\)\]\(#\)](#)

Systems42,607Â 37,013Â 21,171Â 16,072Â Total\$383,188Â \$330,992Â \$198,114Â \$174,454Â X - DefinitionTabular disclosure of receivable, contract asset, and contract liability from contract with customer. Includes, but is not limited to, change in contract asset and contract liability. + ReferencesReference 1:

Systems42,607Á 37,013Á 21,171Á 16,072Á Less Inter-segment SalesÁ Â Á Â Á Â Á Total Test Systems Sales42,607Á 37,013Á 21,171Á 16,072Á Total Consolidated Sales\$383,188Á \$330,992Á \$198,114Á \$174,454Á Segment Measure of Operating Profit and MarginsAerospace\$31,377Á \$17,806Á \$19,280Á \$13,719Á 9.2Á %6.1Á %10.9Á %8.7Á %Test Systems(8,415)(6,740)(5,336)(6,143)(19.8)(18.2)(25.2)(38.2)%Total Segment Measure of Operating Profit\$22,962Á 11,066Á 13,944Á 7,576Á 6.0Á %3.3Á %7.0Á %4.3Á %Á (Additions to Deductions from Segment Measure of Operating Profit:Net Gain on Sale of Business\$Á (3,427)Á Â Á Â Á Â Interest Expense, Net of Interest Income1,615Á 11,390Á 5,856Á 5,920Á Corporate Expenses and Other14,617Á 10,130Á 6,829Á 5,558Á (Loss) Income Before Income Taxes\$(3,270)\$(7,027)\$(1,259)\$(3,902)Total Assets:(In thousands)June 29, 2024December 31, 2023Aerospace\$504,462Á \$493,660Á Test Systems123,294Á 122,681Á Corporate17,103Á 17,451Á Total Assets\$644,859Á \$633,792Á X - DefinitionTabular disclosure of the profit or loss and total assets for each reportable segment. An entity discloses certain information on each reportable segment if the amounts (a) are included in the measure of segment profit or loss reviewed by the chief operating decision maker or (b) are otherwise regularly provided to the chief operating decision maker, even if not included in that measure of segment profit or loss. + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 25 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 22 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 280 -SubTopic 10 -Section 50 -Paragraph 30 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-30> + Details Name: us-gaap_ScheduleOfSegmentReportingInformationBySegmentTextBlock Namespace Prefix: us-gaap_Data Type: dt-xyes:textBlockItem Type Balance Type: na Period Type: duration X -ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 48 R38.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation - Narrative (Details) \$ in Thousands 1 Months Ended 3 Months Ended 6 Months Ended Feb. 13, 2019 element Mar. 31, 2023 USD (\$) Jun. 29, 2024 USD (\$) Jul. 01, 2023 USD (\$) Jun. 29, 2024 USD (\$) Jul. 01, 2023 USD (\$) Mar. 30, 2024 USD (\$) Dec. 31, 2023 USD (\$) Apr. 01, 2023 USD (\$) Dec. 31, 2022 USD (\$) Business Acquisition [Line Items] Á Á Á Á Á Á Allowance for doubtful accounts Á Á \$ 1,495 \$ 1,725 \$ 1,495 \$ 1,725 \$ 8,596 \$ 9,193 \$ 2,265 \$ 2,630 Research and development expense Á Á \$ 14,200 \$ 12,700 \$ 27,500 \$ 25,400 Á Á Á Non-Aerospace Contract Manufacturing Customer Á Á Á Á Á Á Á Business Acquisition [Line Items] Á Á Á Á Á Á Á Allowance for doubtful accounts Á Á Á Á Á Á \$ 7,500 Á Á Sold | Semiconductor Test Business | Test Systems Segment Á Á Á Á Á Á Á Business Acquisition [Line Items] Á Á Á Á Á Á Á Number of elements for contingent earnings | element 2 Á Á Á Á Á Á Á Earnout proceeds received Á \$ 3,400 Á Á Á Á Á Á X - DefinitionDisposal Group, Including Discontinued Operation, Contingent Consideration Received + ReferencesNo definition available. + Details Name: atro_DisposalGroupIncludingDiscontinuedOperationContingentConsiderationReceived Namespace Prefix: atro_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X -DefinitionNumber Of Elements For Contingent Earn-Outs + ReferencesNo definition available. + Details Name: atro_NumberOfElementsForContingentEarnOuts Namespace Prefix: atro_Data Type: xbrli:integerItem Type Balance Type: na Period Type: duration X -DefinitionAmount of allowance for credit loss on accounts receivable. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478777/944-210-S99-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479344/326-20-45-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-4>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13> + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X -DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 805 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479907/805-20-50-5> + Details Name: us-gaap_BusinessAcquisitionLineItems Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X -DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482785/280-10-55-48>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481283/985-20-50-2>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482916/730-10-50-1>Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479532/912-730-25-1> + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X -Details Name: srt_MajorCustomersAxis=atro_NonCoreAerospaceContractManufacturingCustomerMember Namespace Prefix: Data Type: na Balance Type: Period Type: X -Details Name: us-gaap_DisposalGroupClassificationAxis=us-gaap_DiscontinuedOperationsDisposedOfBySaleMember Namespace Prefix: Data Type: na Balance Type: Period Type: X -Details Name: us-gaap_IncomeStatementBalanceSheetAndAdditionalDisclosuresByDisposalGroupsIncludingDiscontinuedOperationsAxis=atro_SemiconductorTestBusinessMember Namespace Prefix: Data Type: na Balance Type: Period Type: X -Details Name: us-gaap_StatementBusinessSegmentsAxis=atro_TestSystemsSegmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 49 R39.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation - Schedule of Reconciliation of Cash and Restricted Cash (Details) - USD (\$) \$ in Thousands Jun. 29, 2024 Dec. 31, 2023 Jul. 01, 2023 Dec. 31, 2022 Accounting Policies [Abstract] Á Á Á Á Cash and Cash Equivalents \$ 2,857 \$ 4,756 \$ 3,472 Á Restricted Cash 1,535 Á 822 Á Total Cash and Restricted Cash Shown in Statements of Cash Flows \$ 4,392 \$ 11,313 \$ 4,294 \$ 13,778 X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X -DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-4> + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X -DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-4> + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X -DefinitionAmount of cash and cash equivalents restricted as to withdrawal or usage. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478777/944-210-S99-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482913/230-10-50-8>Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef> -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(1)(a)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478546/942-210-S99-1>Reference 5: <http://fasb.org/us-gaap/role/ref/legacyRef> -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482740/230-10-45-4> + Details Name: us-gaap_RestrictedCashAndCashEquivalents Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant XML 50 R40.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation - Schedule of Allowance for Estimated Credit Losses (Details) - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Accounts Receivable, Allowance for Credit Loss [Roll Forward] Á Á Á Á Balance at Beginning of the Period \$ 8,596 \$ 2,265 \$ 9,193 \$ 2,630 Bad Debt Expense, Net of Recoveries 312 189 398 (99) Write-off Charges Against the Allowance and Other Adjustments (7,413) (729) (8,096) (806) Balance at End of the Period \$ 1,495 \$ 1,725 \$ 1,495 \$ 1,725 X - DefinitionAmount of allowance for credit loss on accounts receivable. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147478777/944-210-S99-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479344/326-20-45-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147481962/310-10-50-4>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13> + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivable Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X -DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivableRollforward Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X -DefinitionAmount of direct write-downs of accounts receivable charged against the allowance. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13> + Details Name: us-gaap_AllowanceForDoubtfulAccountsReceivableWriteOffs Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X -DefinitionAmount of expense (reversal of expense) for expected credit loss on accounts receivable. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479319/326-20-50-13>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(5)) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147483621/220-10-S99-2> + Details Name: us-gaap_ProvisionForDoubtfulAccounts Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration XML 51 R41.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Narrative (Details) - USD (\$) \$ 3 Months Ended 6 Months Ended 12 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Dec. 31, 2023 Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Á Á Á Á Remaining performance obligation \$ 633,400,000 Á \$ 633,400,000 Á Á Revenue recognized included in contract liability balance 9,000,000 \$ 10,600,000 15,200,000 \$ 19,500,000 Á Revision of estimated costs 3,500,000 Á 3,500,000 Á Á Capitalized cost 3,000,000 Á 3,000,000 Á \$ 4,700,000 Amortization of fulfillment costs 2,700,000 Á 3,000,000 Á \$ 0 Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-06-30 Á Á Á Á Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Á Á Á Á Remaining performance obligation \$ 561,500,000 Á \$ 561,500,000 Á Á Period of recognition 12 months Á 12 months Á Á Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-06-30 Á Á Á Á Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items] Á Á Á Á Period of recognition Á Á Á X - DefinitionContract With Customer, Revision Of Estimated Costs + ReferencesNo definition available. + Details Name: atro_ContractWithCustomerRevisionOfEstimatedCosts Namespace Prefix: atro_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X -DefinitionAmount of amortization expense for asset recognized from cost incurred to obtain or fulfill contract with customer. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 340 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479483/340-40-50-3> + Details Name: us-gaap_CapitalizedContractCostAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X -DefinitionAmount, before accumulated amortization and accumulated impairment loss, of asset recognized from cost incurred to obtain or fulfill contract with customer. + ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef> -Topic 340 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479483/340-40-50-3> + Details Name: us-gaap_CapitalizedContractCostGross Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X -DefinitionAmount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-8> + Details Name: us-gaap_ContractWithCustomerLiabilityRevenueRecognized Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X -DefinitionAmount of transaction price allocated to performance obligation that has not been recognized as revenue. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -SubTopic 10 -Topic 606 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-13> +

Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPeriod in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-13> + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2024-06-30 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2025-06-30 Namespace Prefix: Data Type: na Balance Type: Period Type: X:ML 52 R42.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Schedule of Contract Assets and Liabilities (Details) - USD (\$) \$ in Thousands Jun. 29, 2024 Dec. 31, 2023 Revenue from Contract with Customer [Abstract] Á Á Contract Assets \$ 53,291 Á 46,321 Contract Liabilities \$ 18,448 Á 22,888 X - DefinitionAmount, after allowance for credit loss, of right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479837/606-10-45-3>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479837/606-10-45-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-8> + Details Name: us-gaap_ContractWithCustomerAssetNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479837/606-10-45-1>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-8>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479837/606-10-45-2> + Details Name: us-gaap_ContractWithCustomerLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X:ML 53 R43.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Revenue Disaggregated by Market (Details) - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Disaggregation of Revenue [Line Items] Á Á Á Sales 198,114 Á 174,454 Á 383,188 Á 330,992 Aerospace Segment Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 176,943 158,382 340,581 293,979 Aerospace Segment | Commercial Transport Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 128,399 112,079 249,829 206,292 Aerospace Segment | Military Aircraft Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 24,781 13,584 41,860 27,648 Aerospace Segment | General Aviation Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 19,015 25,015 38,566 44,463 Aerospace Segment | Other Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 4,748 7,704 10,326 15,576 Test Systems Segment Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 21,171 16,072 42,607 37,013 Test Systems Segment | Government & Defense Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 21,171 Á 16,072 Á 42,607 Á 37,013 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-5>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 3: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 4: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 5: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 6: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 7: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 8: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91> + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-41>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482964/270-10-50-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 4: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 5: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479941/924-10-S99-1>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-5>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-30>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-42>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-40>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-4> + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_StatementBusinessSegmentsAxis=atro AerospaceSegmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsegmentsAxis=atro CommercialTransportAircraftMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsegmentsAxis=atro MilitaryAircraftMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsegmentsAxis=atro GeneralAviationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementBusinessSegmentsAxis=atro TestSystemsSegmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SubsegmentsAxis=atro GovernmentAndDefenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X:ML 54 R44.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue - Disaggregated by Product Lines (Details) - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Disaggregation of Revenue [Line Items] Á Á Á Sales 198,114 Á 174,454 Á 383,188 Á 330,992 Aerospace Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 176,943 158,382 340,581 293,979 Aerospace | Electrical Power & Motion Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 90,328 67,946 173,452 121,400 Aerospace | Lighting & Safety Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 46,454 41,918 88,241 78,471 Aerospace | Avionics Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 28,971 30,923 54,565 60,664 Aerospace | Systems Certification Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 3,364 7,620 7,812 13,297 Aerospace | Structures Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 3,078 2,271 6,185 4,571 Aerospace | Other Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 4,748 7,704 10,326 15,576 Test Systems Á Á Á Disaggregation of Revenue [Line Items] Á Á Á Sales 21,171 Á 16,072 Á 42,607 Á 37,013 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-5>Reference 2: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 3: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 4: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 5: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 6: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 7: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91>Reference 8: <http://www.xbrl.org/2003/role/exampleRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479777/606-10-55-91> + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-41>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482964/270-10-50-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 4: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 5: <http://www.xbrl.org/2003/role/exampleRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-32>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479941/924-10-S99-1>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-5>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-30>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-42>Reference 10: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-40>Reference 12: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147482810/280-10-50-22>Reference 13: <http://www.xbrl.org/2003/role/disclosureRef> -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI <https://asc.fasb.org/1943274/2147479806/606-10-50-4> + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: us-gaap_StatementBusinessSegmentsAxis=atro AerospaceSegmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=atro ProductLineElectricalPowerAndMotionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=atro ProductLineLightingAndSafetyMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=atro ProductLineAvionicsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=atro ProductLineSystemsCertificationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=atro ProductLineStructuresMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=atro ProductLineOtherMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementBusinessSegmentsAxis=atro TestSystemsSegmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X:ML 55 R45.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Inventories (Details) - USD (\$) \$ in Thousands Jun. 29, 2024 Dec. 31, 2023 Inventory Disclosure [Abstract] Á Á Finished Goods \$ 33,169 Á 29,013 Work in Progress 28,748 32,118 Raw Material 138,762 130,670 Inventory, net \$ 200,679 Á 191,801 X - ReferencesNo definition available. + Details Name: us-gaap_InventoryDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying amount, net of valuation reserves and adjustments, as of the balance sheet date of merchandise or goods held

by the company that are readily available to sale. + ReferencesReference 1:

position date (rolling approach). + ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482640/350-30-55-40](http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: <a href=)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph \(a\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49](http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2 + Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 60 R50.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Goodwill (Details) $ in Thousands 6 Months Ended Jun. 29, 2024 USD ($) Goodwill [Roll Forward] A Balance at beginning of period $ 58,210 Foreign Currency Translation (67) Balance at end of period 58,143 Operating Segments | Aerospace A Goodwill [Roll Forward] A Balance at beginning of period 36,575 Foreign Currency Translation (67) Balance at end of period 36,508 Operating Segments | Test Systems A Goodwill [Roll Forward] A Balance at beginning of period 21,635 Foreign Currency Translation 0 Balance at end of period $ 21,635 X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: <a href=)Reference 2: <http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100](http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100)Reference 4: <http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.5-02\(15\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 6: <http://www.xbrl.org/2003/role/disclosureRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482598/350-20-45-1>Reference 7: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(h\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 9: <http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 3: <http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69B>Reference 4: <http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69C>Reference 5: <http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1>Reference 6: [http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8](http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2 + Details Name: us-gaap_DebtInstrumentFaceAmount Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionEffective interest rate for the funds borrowed under the debt agreement considering interest compounding and original issue discount or premium. + ReferencesReference 1: <a href=)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph \(SX 210.5-02\(22\)\(a\)\(1\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 599 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2>Reference 5: [http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8](http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6 + Details Name: us-gaap_DebtInstrumentInterestRateEffectivePercentage Namespace Prefix: us-gaap_Data Type: dtr:types:percentItem Type Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <a href=)Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8>

Section S99 - Paragraph 1 - Subparagraph (SX 210.4-08(f)) - Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap DebtInstrumentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of payment greater than the preceding installment payments to be paid at final maturity date of debt. + ReferencesNo definition available. + Details Name: us-gaap DebtInstrumentPeriodicPaymentTermsBalloonPaymentToBePaid Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionRepresents the charge against earnings during the period for commitment fees and debt issuance expenses. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap DebtRelatedCommitmentFeesAndDebtIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, before accumulated amortization, of debt issuance costs. Includes, but is not limited to, legal, accounting, underwriting, printing, and registration costs. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap DeferredFinanceCostsGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after accumulated amortization, of debt issuance costs. Includes, but is not limited to, legal, accounting, underwriting, printing, and registration costs. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap DeferredFinanceCostsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionThe carrying value as of the balance sheet date of the current and noncurrent portions of long-term obligations drawn from a line of credit, which is a bank's commitment to make loans up to a specific amount. Examples of items that might be included in the application of this element may consist of letters of credit, standby letters of credit, and revolving credit arrangements, under which borrowings can be made up to a maximum amount as of any point in time conditional on satisfaction of specified terms before, as of and after the date of drawdowns on the line. Includes short-term obligations that would normally be classified as current liabilities but for which (a) postbalance sheet date issuance of a long term obligation to refinance the short term obligation on a long term basis, or (b) the enterprise has entered into a financing agreement that clearly permits the enterprise to refinance the short-term obligation on a long term basis and the following conditions are met (1) the agreement does not expire within 1 year and is not cancelable by the lender except for violation of an objectively determinable provision, (2) no violation exists at the BS date, and (3) the lender has entered into the financing agreement is expected to be financially capable of honoring the agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap LineOfCredit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of the fee for available but unused credit capacity under the credit facility. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap LineOfCreditFacilityCommitmentFeeAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe fee, expressed as a percentage of the line of credit facility, for the line of credit facility regardless of whether the facility has been used. + ReferencesNo definition available. + Details Name: us-gaap LineOfCreditFacilityCommitmentFeePercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionMaximum borrowing capacity under the credit facility without consideration of any current restrictions on the amount that could be borrowed or the amounts currently outstanding under the facility. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap LineOfCreditFacilityMaximumBorrowingCapacity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of borrowing capacity currently available under the credit facility (current borrowing capacity less the amount of borrowings outstanding). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap LineOfCreditFacilityRemainingBorrowingCapacity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap LongTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap LongTermDebtCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap VariableRateAxis=us-gaap SecuredOvernightFinancingRateSoftMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap LongtermDebtTypeAxis=us-gaap LineOfCreditMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtTermsPeriodAxis=atro AfterQuarterEndedMarch312024Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtInstrumentAxis=atro RestatedABIAgreementAndTermLoanAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap SubsequentEventTypeAxis=us-gaap SubsequentEventMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtTermsPeriodAxis=atro SecondQuarterOf2024Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtInstrumentAxis=atro TermLoanAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtTermsPeriodAxis=atro April12023ThroughJune12023Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtTermsPeriodAxis=atro July12023ThroughSeptember12023Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtTermsPeriodAxis=atro AfterSeptember12023Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap VariableRateAxis=atro SecuredOvernightFinancingRateSOFRFloorMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtInstrumentAxis=atro RevisedTermLoanFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt RangeAxis=srt MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt RangeAxis=srt MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap CreditFacilityAxis=us-gaap RevolvingCreditFacilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap DebtInstrumentAxis=atro SeventhAmendedAndRestatedCreditAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: DOCUMENT v3.24.2.u1 Product Warranties - Narrative (Details) 6 Months Ended Jun. 29, 2024 Minimum A Product Warranty Liability A Product warranty period 12 months Maximum A Product Warranty Liability A Product warranty period 60 months X - DefinitionStandard Product Warranty, Duration Of Warranty + ReferencesNo definition available. + Details Name: atro StandardProductWarrantyDurationOfWarranty Namespace Prefix: atro_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap ProductWarrantyLiabilityLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: srt RangeAxis=srt MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt RangeAxis=srt MaximumMember Namespace Prefix: Data

Type: na Balance Type: Period Type: XML 63 R53.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Product Warranties - Schedule of Activity in Warranty Accrual (Details) - USD (\$) \$ in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Movement in Standard Product Warranty Accrual [Roll Forward] Å Å Å Balance at Beginning of Period \$ 10,522 \$ 7,401 \$ 9,751 \$ 8,009 Warranties Issued 1,812 1,128 3,301 1,908 Warranties Settled (956) (814) (1,702) (2,151) Reassessed Warranty Exposure (75) (10) (47) (61) Balance at End of Period \$ 11,303 \$ 7,705 \$ 11,303 \$ 7,705 X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_MovementInStandardProductWarrantyAccrualRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for estimated claims under standard and extended warranty protection rights granted to customers. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.9-03\(15\)\(5\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-4)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph \(c\)\(5\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8) + Details Name: us-gaap_ProductWarrantyAccrual Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of decrease in the standard and extended product warranty accrual from payments made in cash or in kind to satisfy claims under the terms of the standard and extended product warranty. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph \(c\)\(2\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8) + Details Name: us-gaap_ProductWarrantyAccrualPayments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) in the standard and extended product warranty accrual from changes in estimates attributable to preexisting product warranties. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph \(c\)\(4\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8) + Details Name: us-gaap_ProductWarrantyAccrualPreexistingIncreaseDecrease Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration X - DefinitionAmount of increase in the standard and extended product warranty accrual from warranties issued. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph \(c\)\(3\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (c)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482425/460-10-50-8) + Details Name: us-gaap_ProductWarrantyAccrualWarrantiesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: duration XML 64 R54.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Income Taxes (Details) 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Income Tax Disclosure [Abstract] Å Å Å Effective tax rate (21.80%) (207.50%) 49.70% (133.60%) X - DefinitionPercentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231> + Details Name: us-gaap_EffectiveIncomeTaxRateContinuingOperations Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncomeTaxDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 65 R55.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Earnings Per Share - Schedule of Basic and Diluted Weighted-Average Shares Outstanding (Details) - shares shares in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Earnings Per Share [Abstract] Å Å Å Weighted Average Shares - Basic (in shares) 35,007 32,614 34,936 32,560 Net Effect of Dilutive Stock Awards (in shares) 540 0 0 0 Weighted Average Shares - Diluted (in shares) 35,547 32,614 34,936 32,560 X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionThe sum of dilutive potential common shares or units used in the calculation of the diluted per-share or per-unit computation. + ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1) + Details Name: us-gaap_WeightedAverageNumberDilutedSharesOutstandingAdjustment Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(a\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10> + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration XML 66 R56.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Earnings Per Share - Narrative (Details) - shares shares in Thousands 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Earnings Per Share [Abstract] Å Å Å Common shares excluded from computation (in shares) 1,072 1,114 X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1) + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration XML 67 R57.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Shareholders' Equity - Narrative (Details) - USD (\$) 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Aug. 08, 2023 Stockholders Equity Å Å Å Difference between the cost and the reissuance price Å Å \$ 1,300,000 \$ 2,200,000 Å Share par value (in usd per share) Å Å Å \$ 0.01 ATM Program Å Å Å Å Stockholders Equity Å Å Å Å Aggregate offering price Å Å Å \$ 30,000,000 Remaining available for sale \$ 8,200,000 Å \$ 8,200,000 Å Treasury Stock Å Å Å Å Stockholders Equity Å Å Å Å Shares issued to fund 401k obligation (in shares) 68,000 69,000 139,000 164,000 Å X - DefinitionSale of Stock, Authorized, Amount + ReferencesNo definition available. + Details Name: atro_SaleOfStockAuthorizedAmount Namespace Prefix: atro_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionSale of Stock, Remaining Authorized, Amount + ReferencesNo definition available. + Details Name: atro_SaleOfStockRemainingAuthorizedAmount Namespace Prefix: atro_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionStockholders Equity [Line Items] + ReferencesNo definition available. + Details Name: atro_StockholdersEquityLineItems Namespace Prefix: atro_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1) + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItem Type Balance Type: na Period Type: instant X - DefinitionNumber of shares issued during the period to an employee benefit plan, such as a defined contribution or defined benefit plan. + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodSharesEmployeeBenefitPlan Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration X - DefinitionIn cases when treasury stock is reissued at a price lower than the cost to repurchase, the excess difference between the selling price and cost to repurchase is charged against retained earnings (assuming that all APIC arising from treasury stock transactions has first been exhausted). + ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.3-04\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1)Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification -Topic 505 -SubTopic 30 -Section 30 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481108/505-30-30-10> + Details Name: us-gaap_TreasuryStockReissuedAtLowerThanRepurchasePrice Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: duration X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=atro AtTheMarketEquityOfferingMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_TreasuryStockCommonMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 68 R58.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Shareholders' Equity - Schedule of Components of Accumulated Other Comprehensive Income (Loss) (Details) - USD (\$) \$ in Thousands Jun. 29, 2024 Mar. 30, 2024 Dec. 31, 2023 Jul. 01, 2023 Apr. 01, 2023 Dec. 31, 2022 Accumulated Other Comprehensive Income (Loss) [Line Items] Å Å Å Å Stockholders' equity \$ 257,880 Å \$ 249,518 \$ 230,401 Å Foreign Currency Translation Adjustments Å Å Å Å Accumulated Other Comprehensive Income (Loss) [Line Items] Å Å Å Å Stockholders' equity (7,275) Å (6,351) Å Å Retirement Liability Adjustment Å Å Å Å Accumulated Other Comprehensive Income (Loss) [Line Items] Å Å Å Å Stockholders' equity (2,513) Å (3,075) Å Å Retirement Liability Adjustment æ¢ Before Tax (4,795) Å (5,357) Å Å Tax Benefit of Retirement Liability Adjustment 2,282 Å 2,282 Å Å Accumulated Other Comprehensive Loss Å Å Å Å Accumulated Other Comprehensive Income (Loss) [Line Items] Å Å Å Å Stockholders' equity \$ (9,788) \$ (9,901) \$ (9,426) \$ (8,443) \$ (9,117) \$ (9,526) X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph \(b\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph \(d\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20](http://www.xbrl.org/2003/role/disclosureRef-Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20) + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItem Type Balance Type: na Period Type: duration X - DefinitionAmount before tax of increase (decrease) in accumulated equity from transactions and other events and circumstances from non-owner sources, attributable to parent. Excludes net income (loss), and accumulated changes in equity from transactions resulting from investments by owners (distributions to owners). + ReferencesNo definition available. + Details Name: us-gaap_AOCIBeforeTaxAttributableToParent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: credit Period Type: instant X - DefinitionAmount of tax expense (benefit) allocated to accumulated other comprehensive income (loss) attributable to parent. + ReferencesNo definition available. + Details Name: us-gaap_AOCIAtTaxAttributableToParent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItem Type Balance Type: debit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(29\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(30\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.5-02\(31\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: <http://www.xbrl.org/2003/role/exampleRef-Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.6-04\(19\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SX 210.6-05\(4\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(4\)\(b\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(6\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph \(SX 210.6-09\(7\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 11: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(ii\)\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 12: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 13: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph \(f\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 14: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph \(SAB Topic 4.E\) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2) + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-

gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedTranslationAdjustmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedDefinedBenefitPlansAdjustmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_StatementEquityComponentsAxis=us-gaap_AccumulatedOtherComprehensiveIncomeMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 69 R59.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Shareholders' Equity - Schedule of Other Comprehensive Income (Loss) (Details) - USD (\$) in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Accumulated Other Comprehensive Income (Loss) [Line Items] A A A Other Comprehensive (Loss) Income \$ 113 \$ 674 \$ (362) \$ 1,083 Foreign Currency Translation Adjustments A A A Accumulated Other Comprehensive Income (Loss) [Line Items] A A A Other Comprehensive (Loss) Income (168) 487 (924) 711 Amortization of Prior Service Cost A A A Accumulated Other Comprehensive Income (Loss) [Line Items] A A A Other Comprehensive (Loss) Income 96 98 193 193 Amortization of Net Actuarial Losses A A A Accumulated Other Comprehensive Income (Loss) [Line Items] A A A Other Comprehensive (Loss) Income 185 89 369 179 Retirement Liability Adjustment A A A Accumulated Other Comprehensive Income (Loss) [Line Items] A A A Other Comprehensive (Loss) Income \$ 281 \$ 187 \$ 562 \$ 372 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1:

[http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55- Paragraph 7 -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 5:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph \(b\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 6:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(b\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 7:](#)

[http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 8:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147483076/450-20-50-1 + Details Name: us-gaap LossContingenciesLineItems Namespace Prefix: us-gaap Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of loss contingency liability. + ReferencesReference 1:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147483076/450-20-50-1Reference 2:](#)

[http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147483076/450-20-50-10 + Details Name: us-gaap LossContingencyAccrualAtCarryingValue Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionReflects the estimated amount of loss from the specified contingency as of the balance sheet date. + ReferencesReference 1:](#)

[http://www.xbrl.org/2003/role/disclosureRef -Topic 720 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147483359/720-20-50-1Reference 2:](#) [http://www.xbrl.org/2003/role/exampleRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 27 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482395/460-10-55-27Reference 3:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph \(b\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147483076/450-20-50-9Reference 4:](#)

[http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph \(b\) -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147483076/450-20-50-4Reference 5:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482425/460-10-50-3Reference 6:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 460 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482425/460-10-50-2 + Details Name: us-gaap LossContingencyEstimateOfPossibleLoss Namespace Prefix: us-gaap Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: srt LitigationCaseAxis=atro LufthansaTechnikAGMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt LitigationCaseAxis=atro TeradyneIncAllegedPatentInfringementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt ConsolidatedEntitiesAxis=srt SubsidiariesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt LitigationCaseAxis=atro IndirectSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap LossContingenciesByNatureOfContingencyAxis=atro PatentInfringementMember Namespace Prefix: Data Type: na Balance Type: Period Type: Period Type: X - Details Name: us-gaap SegmentInformation \(Details\) - USD \(\\$\) \\$ in Thousands 3 Months Ended 6 Months Ended Jun. 29, 2024 Jul. 01, 2023 Jun. 29, 2024 Jul. 01, 2023 Dec. 31, 2023 Segment Reporting Information Á Á Á Sales \\$ 198,114 \\$ 174,454 \\$ 383,188 \\$ 330,992 Á Segment Measure of Operating Profit and Margins Á Á Á Á Total Segment Measure of Operating Profit 7,550 2,396 9,216 26 Á \(Additions to\) Deductions from Segment Measure of Operating Profit: Á Á Á Net Gain on Sale of Business 0 0 0 \(3,427\) Á Interest Expense, Net of Interest Income 5,856 5,920 11,615 11,390 Á \(Loss\) Income Before Income Taxes 1,259 \(3,902\) \(3,270\) \(7,027\) Á Deferred revenue liability 9,000 10,600 15,200 19,500 Á Total Assets 644,859 Á 644,859 Á \\$ 633,792 Aerospace Á Á Á Segment Reporting Information Á Á Á Sales 176,943 158,382 340,581 293,979 Á Test Systems Á Á Á Segment Reporting Information Á Á Á Sales 21,171 16,072 42,607 37,013 Á Operating Segments Á Á Á Segment Measure of Operating Profit and Margins Á Á Á Á Total Segment Measure of Operating Profit \\$ 13,944 \\$ 7,576 \\$ 22,962 \\$ 11,066 Á Operating margins, percentage 7.00% 4.30% 6.00% 3.30% Á Operating Segments | Aerospace Á Á Á Segment Reporting Information Á Á Á Sales \\$ 176,948 \\$ 158,386 \\$ 340,623 \\$ 294,101 Á Segment Measure of Operating Profit and Margins Á Á Á Total Segment Measure of Operating Profit \\$ 19,280 \\$ 13,719 \\$ 31,377 \\$ 17,806 Á Operating margins, percentage 10.90% 8.70% 9.20% 6.10% Á \(Additions to\) Deductions from Segment Measure of Operating Profit: Á Á Á Total Assets \\$ 504,462 Á \\$ 504,462 Á 493,660 Operating Segments | Test Systems Á Á Á Segment Reporting Information Á Á Á Sales 21,171 \\$ 16,072 42,607 \\$ 37,013 Á Segment Measure of Operating Profit and Margins Á Á Á Á Total Segment Measure of Operating Profit \\$ \(5,336\) \\$ \(6,143\) \\$ \(8,415\) \\$ \(6,740\) Á Operating margins, percentage \(25.20%\) \(38.20%\) \(19.80%\) \(18.20%\) Á \(Additions to\) Deductions from Segment Measure of Operating Profit: Á Á Á Deferred revenue liability Á Á Á \\$ 5,800 Á Total Assets \\$ 123,294 Á \\$ 123,294 Á 122,681 Less Inter-segment Sales | Aerospace Á Á Á Segment Reporting Information Á Á Á Sales \\$ \(5\) \(4\) \(42\) \(122\) Á Less Inter-segment Sales | Test Systems Á Á Á Segment Reporting Information Á Á Á Sales 0 0 0 0 Á Corporate Expenses and Other Á Á Á Á \(Additions to\) Deductions from Segment Measure of Operating Profit: Á Á Á Corporate Expenses and Other 6,829 \\$ 5,558 14,617 10,130 Á Income associated with reversal of liability related to equity investment Á Á Á \\$ 1,800 Á Total Assets \\$ 17,103 Á \\$ 17,103 Á \\$ 17,451 X - DefinitionIncome, Reversal Of Liability, Equity Investment + ReferencesNo definition available. + Details Name: atro IncomeReversalOfLiabilityEquityInvestment Namespace Prefix: atro Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: atro PercentageOfOperatingIncomeLoss Namespace Prefix: atro Data Type: dtr-types1:percentItemBalance Type: na Period Type: duration X - DefinitionSegment Reporting Information, Deductions From Operating profit \[Abstract\] + ReferencesNo definition available. + Details Name: atro SegmentReportingInformationDeductionsFromOperatingProfitAbstract Namespace Prefix: atro Data Type: xbrli:stringItemBalance Type: na Period Type: duration X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1:](#) [http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55- Paragraph 48 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2:](#)

[http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55- Paragraph 49 -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph \(i\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(ee\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5:](#)

[http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph \(d\) -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(bb\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8:](#)

[http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph \(a\) -Publisher FASB -URI](#)

[https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph \(SX 210.4-08\(g\)\(1\)\(ii\)\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10:](#) [http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph \(c\) -Publisher FASB -URI](#) [https://asc.fasb.org/1943274/2](#)

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(6EZK<0_VL]>G7KG<&PFZEA5SS!|.j@ M0I2/-% BYGR9SDETS?)LN(07=7W7$?/+7OLMCS)S@,%,SZ?P5#3A MON.X03 Z#+,#&P=I-RS2A-E6&)(FK--
M"FC:<?SCF1.&6&6/<XVIIUQ24?B% MA5S L[XU<WX-V<2 _R"] P" F+@<=>XOA-TV15[HV#T12](2Y M@1V0G@_PVS<@/<?X&IA& GMT _U A T?0Q>)/@#H?Q52TNI5,4W?
$=$>AM MG&T? 5.3->XUV!<GSH(6$4$841P3XU0A?&2B!R") P"@F+@<=>XF&K M7=I.KY.(N P@OTMF 2_U>:;,<V/>G9HPH-N.VY.22!<L&-9>? I Q8&
MOU@/F17&,E7M3S,XB633JHQ,)/G8*<_I'BZIHGW!<JOMCKD3?)!<Z?%<SFC MH+Q(0BM8M460TL-&J&(3"CRRC<P=5=-& YQT!<85@0S+> EM"#&C'XCR,
MT3HF;+9,ASQJQZCF8+7=]J,7G:0< (H"V" HG4+TMH!J]>4+&# R-B@M(B M%<M%JW1?TQ8&8/U &;<CB#T?JY5A&6;9;<[RC I?<M6IS6,&B73J(Z M0%<1:5%4+1NB5H7B(U.QB
3X?>YMIJW!<F$8Y70$ZHN$)BK YIHA13;N=P?9_-H%<G'2B->@M(B%<M%JW">WO(C_A,PD! S1HC8+2 M(BA:MT2M<2-&YV)<&J,|L+ _|>H8DBI+<_H)H8#P?JQ8,FRG/&N0K2>B=B
M|JZ'NO"?7#<A2WH&S%0&6E15?<C5:CT>?>I-L(2YKN)<=>876-A&6?<K"OGL M+<1=I7!DJCH+Q(0BM8M1.OLB^N/U"0"Z">T'DJ+H&C=&S97VCIA?<AW7@V'P
MJX!<|/B)01.F1LW0(C4A#56QZ4581AF?<Q-V>XHP/MAQE3QJQZ&G.M|G<M|I|HK|<Z62J362J?|XYUUBLDQ?<5NJ|JW+Z7F MV&+<VY|QJGV>SUP?E6?Y90&B#"?>
+SF7SR=-E(VFQ,F 4$&L!<10 (M .15DU1|;C0< /& 9-&SPO=VJR-W-H965T7"3KXV'W>V?<T' G_V$ MV+2A>V->S_E...3XGMK<D=-I=/<I0Z+FD3>Z2QJG-A>O*K( 2RP? )_S*RY*
MK'17K9Y&H1$S2RJ&WA>J>B,7"-I-A'I'FO&4,%)@<VJ|BRQ>+>D"RNNIXSNO M W=DT2(SX?);J _JA M3#96%TS^U4AFGTCY1W6?CD8.R2B>MF3M#M"2L>?>G
M|C0L$<SH'4+0$H)J80M(1&1V9HGFIOY1:8XH* 1*=S4)A0>88+<H87J.3H|,4,GB##<TO>?<5Q"R7B.OTFH:1 MJ9W^5,;?0* K_6(<##$S.4> %40|>=IP^AVR 0M_2P[=T5R?
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M'K5WAVMTBQ4|<FF?M>?>HGX'X'L7IGK<?<F">|>O'YS<60+<4+FDML3#1!0 ( .#15JGPF|J|@M, M 1 9>&P>=VJR-W-H965T7"3KXV'W>V?<T' G_V$ MV+2A>V->S_E...3XGMK<D=-I=/<I0Z+FD3>Z2QJG-A>O*K( 2RP? )_S*RY*
M#<#%9GY@<+<08$2+ISSPKQ,<+25E>V[9(=B3'XHJ5?<17-HSG6?HAWJ|J? 2G M-2C/;0X@<Q9UC6CQ0BZWY0&<53^C15E$<H*Q_ SAAF3LL+<_R_U?<CBEFYWL41^P
MXWF@M_2"R" EFJN1W,<D->?>H%G P G&P6MCOX082A!M01RDBYB-XQT!<M6?<NN M_Q_2A>5H120CB=046/WMR9>FD692.GZT1?<9W33PWL$<_J_U;5VNL21+EGVC
Mj=PMKQ)9%4K+15290V>?>TAKR-5, 'E' @_D,3&,<62'HA6=Z'E8*%<L_T MDF MH@<?>WAD :<H5?<N"WIKHXVRVM8?2Q$<3L KJ,5FSZH?<CHJ6:<@E-KXC$<-I
OP>OPY6X?7E^<1> M#NAN$CE5?<Q8JY+94$S64G|1UOFCNB,W7AKR|HN (H?709X OQ^<K$KDEP!<9P M=PBWE?<JYV3DGCXOP98S9S>AC6H6?538A|CB>+DS.U|WYHI#<KN M
M,6P<VNM5>Z_B|Q(AP+ALD?<J|PY?<D8$54A?<4|1+<A.WLRH.MX3G2BUA^< M?# RS&KJ3JW _RDNB+<?> "=>9LB?<S2Q(Q|OOSI=I|804$<?<1?<I
M_<A.7R?<C70ORX?<F|U|1L1FT^<5XUQ08C<_<SZ;S$<@<=>R M9(600&KV4JJA5T-V?<4K-L:4SYZQB=B&QH-<#@PFK M>=>?<Y-IV<NCJ?<T'<M_Q MEZOX9-
NW<VBV6GVJWHW$<Q:M7N|5;UX|&F|&J|&E|<K?<F(7J0'BS^X& MDI7U!<0>2>?<4=K|W|?<S?<ZP1U?<8?<S7H?<W>23^<U+ P04 "##P59 M5Y^<Y8$ !M&P &0
^<AL+W=OJ|G$<6;3V"RY^<?<W|BP(L97+J|;3;7KFEN3#8DP_2;PG3KZR MR+2A+V+MRJ?<?<0DV9;F+<_D9I@R9S8IS|V(V83G?<J6,W @<@R$S^XND|27E^<
MZD#G<0M76|4<=<?<3;9X>Z>Z>M<?>"WDUBI+FA$F6*=D-74F<K.MA>+567% MOY3LY=<S4%1YY|QJEN^<XM4<?<+<@&I+<?<757K.2@>
M1>9U|P=9)0<O&B&.<#<F0YT|<Q|2O$?<7|5X|<1#|1?<6=-8X$<E$<#?<101;56 M*YZ4_U-VZ524%1 CG1+Z5;K|U.P34YBMZ6-*P%Q?<HB2X ?Z'V69Z$<-|>)> M|JY*P@3=PK?
71&6&:RG>Z>Y-<N&KQ|PZ| 92!<P>PW|69+7.75MEB|D9M4=MX? M|<+> W_G|!<+<?<108VA?<Y=<520&BKU_|Z|J#11 M12X^<Z_TPPJ&XAWT K-
>L2>OYI89.KH32>|V|!<GJO M0<?<3;01K2>P5W:C M M" T'JLZ_E!<M"OYSLB|<8&G^<F"FI( RT ?<|S|<3&M^U.O;8|R@CA<,<OHHN1)< M@85XHFG-YAG/F3+<_<B,2IEB|NYF?
8C$<S|<9G&P65UI?<F?<5+<SCT">#<CAH| MG%PG/MD3I MK;6&A&CH,R|FL_ZO;@|;NW4?<2A VZ0 K_M+<+5V_ 86H$<5,;3| ^<X(57^P1=<_VK M T'<T'H|V|QKV_X 5H"B#<ZTIL8$<^<+<I
A">)<@<I("E"7B _||T75W4Y0I>AGN|JQ< _L<0<2J L2T.CTP&|NB0I?Q?<X0A M"31,<@M-S2DI?<?<V+| IL6 |T(7?<W>23^<U+ P04 "##P59 M5Y^<Y8$ !M&P &0
H8?<7YJ|PX0ID2B0ERN">|<Q&IWNQRQ62+<X;<PU7 M('M<@<I<?<7A1?<K'-I'6YPM=<88_5AB00,<#Y89NS?<70^<F+8 M4FO>A_<#V48,914Q?<FUXS>@<2PAQAD=<_J,BM=<#<0-<I!<K^$<B
&=<?<F+8 M&@<C0,CKN1KH-Y^<AVX,<OP9,05C4Z^<LG$<G$<S3VZV_U+^<P$?X M4&M#110 (<_#15D)<UERO@<(\ 9-&SPO=VJR-W-H965T7"3KXV'W>V?<T' G_V$ MV+2A>V->S_E...3XGMK<D=-I=/<I0Z+FD3>Z2QJG-A>O*K( 2RP? )_S*RY*
|<M Q^<+7%<@<OQ?<T'70FN8R131N|<HPU>P<P4+<92ZQ|<L'ODIR8)9TC<_NQ,NL-Y M_2MPPC<=<I=P|Q|DO,<L|Y">FD MXGD-UA|DA%5?<?<G80T^<U>=<H?>
@<W?<P^<A$X^<@<@3/M1#06<@<Y%GHUP<N5K|< MQ,58X6<D>D>
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Consolidated Condensed Statements of Operations Sheet <http://www.astronics.com/role/ConsolidatedCondensedStatementsofOperations> Consolidated Condensed Statements of Operations Statements 3 false false R4.htm 9952153 - Statement - Consolidated Condensed Statements of Comprehensive (Loss) Income Sheet <http://www.astronics.com/role/ConsolidatedCondensedStatementsofComprehensiveLossIncome> Consolidated Condensed Statements of Comprehensive (Loss) Income Statements 4 false false R5.htm 9952154 - Statement - Consolidated Condensed Statements of Cash Flows Sheet <http://www.astronics.com/role/ConsolidatedCondensedStatementsofCashFlows> Consolidated Condensed Statements of Cash Flows Statements 5 false false R6.htm 9952155 - Statement - Consolidated Condensed Statements of Shareholders' Equity Sheet <http://www.astronics.com/role/ConsolidatedCondensedStatementsofShareholdersEquity> Consolidated Condensed Statements of Shareholders' Equity Statements 6 false false R7.htm 9952156 - Disclosure - Basis of Presentation Sheet <http://www.astronics.com/role/BasisofPresentation> Basis of Presentation Notes 7 false false R8.htm 9952157 - Disclosure - Revenue Sheet <http://www.astronics.com/role/Revenue> Revenue Notes 8 false false R9.htm 9952158 - Disclosure - Inventories Sheet <http://www.astronics.com/role/Inventories> Inventories Notes 9 false false R10.htm 9952159 - Disclosure - Property, Plant and Equipment Sheet <http://www.astronics.com/role/PropertyPlantandEquipment> Property, Plant and Equipment Notes 10 false false R11.htm 9952160 - Disclosure - Intangible Assets Sheet <http://www.astronics.com/role/IntangibleAssets> Intangible Assets Notes 11 false false R12.htm 9952161 - Disclosure - Goodwill Sheet <http://www.astronics.com/role/Goodwill> Goodwill Notes 12 false false R13.htm 9952162 - Disclosure - Long-term Debt and Notes Payable Notes <http://www.astronics.com/role/LongtermDebtandNotesPayable> Long-term Debt and Notes Payable Notes 13 false false R14.htm 9952163 - Disclosure - Product Warranties Sheet <http://www.astronics.com/role/ProductWarranties> Product Warranties Notes 14 false false R15.htm 9952164 - Disclosure - Income Taxes Sheet <http://www.astronics.com/role/IncomeTaxes> Income Taxes Notes 15 false false R16.htm 9952165 - Disclosure - Earnings Per Share Sheet <http://www.astronics.com/role/EarningsPerShare> Earnings Per Share Notes 16 false false R17.htm 9952166 - Disclosure - Shareholders' Equity Sheet <http://www.astronics.com/role/ShareholdersEquity> Shareholders' Equity Notes 17 false false R18.htm 9952167 - Disclosure - Supplemental Retirement Plan and Related Post Retirement Benefits Sheet <http://www.astronics.com/role/SupplementalRetirementPlanandRelatedPostRetirementBenefits> Supplemental Retirement Plan and Related Post Retirement Benefits Notes 18 false false R19.htm 9952168 - Disclosure - Sales to Major Customers Sheet <http://www.astronics.com/role/SalestoMajorCustomers> Sales to Major Customers Notes 19 false false R20.htm 9952169 - 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Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } }, "auth_ref": ["r57", "r772"] }, "us-gaap_AccountsReceivableMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsReceivableMember", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accounts Receivable", "label": "Accounts Receivable [Member]", "documentation": "Due from customers or clients for goods or services that have been delivered or sold." } }, "auth_ref": ["r713"] }, "us-gaap_AccountsReceivableNetCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsReceivableNetCurrent", "crdr": "debit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 4.0 } }, "presentation": 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Excludes net income (loss), and accumulated changes in equity from transactions resulting from investments by owners and distributions to owners." } }, "auth_ref": ["r1", "r11", "r18", "r537", "r540", "r574", "r626", "r627", "r885", "r886", "r887", "r897", "r898", "r899", "r901"] }, "us-gaap_AccumulatedTranslationAdjustmentMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedTranslationAdjustmentMember", "presentation": ["http://www.astronics.com/role/ShareholdersEquityScheduleofComponentsofAccumulatedOtherComprehensiveIncomeLossDetails", "http://www.astronics.com/role/ShareholdersEquityScheduleofOtherComprehensiveIncomeLossDetails"], "lang": { "en-us": { "role": { "terseLabel": "Foreign Currency Translation Adjustments", "label": "Accumulated Foreign Currency Adjustment Attributable to Parent [Member]", "documentation": "Accumulated other comprehensive income (loss) resulting from foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term-investment nature, attributable to the parent." } }, "auth_ref": ["r2", "r11", "r18", "r77", "r78", "r161", "r162", "r559", "r560", "r561", "r562", "r563", "r885"] }, "ecd_Additional402vDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Additional402vDisclosureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Additional 402(v) Disclosure", "label": "Additional 402(v) Disclosure [Text Block]" } }, "auth_ref": ["r827"] }, "us-gaap_AdditionalPaidInCapitalMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapitalMember", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsofShareholdersEquity"], "lang": { "en-us": { "role": { "terseLabel": "Additional Paid in Capital", "label": "Additional Paid-in Capital [Member]", "documentation": "Excess of issue price over par or stated value of the entity's capital stock and amounts received from other transactions involving the entity's stock or stockholders." } }, "auth_ref": ["r639", "r897", "r898", "r899", "r901", "r965", "r1019"] }, "ecd_AdjToCompAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToCompAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to Compensation, Amount", "label": "Adjustment to Compensation Amount" } }, "auth_ref": ["r840"] }, "ecd_AdjToCompAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToCompAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to Compensation", "label": "Adjustment to Compensation [Axis]" } }, "auth_ref": ["r840"] }, "ecd_AdjToNonPeoNeoCompFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToNonPeoNeoCompFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to Non-PEO NEO Compensation Footnote [Text Block]", "label": "Adjustment to Non-PEO NEO Compensation Footnote [Text Block]" } }, "auth_ref": ["r840"] }, "ecd_AdjToPeoCompFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AdjToPeoCompFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Adjustment to PEO Compensation, Footnote", "label": "Adjustment to PEO Compensation, Footnote [Text Block]" } }, "auth_ref": ["r840"] }, "us-gaap_AdjustmentsRelatedToTaxWithholdingForShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsRelatedToTaxWithholdingForShareBasedCompensation", "crdr": "debit", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsofShareholdersEquity"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Tax Withholding Related to Issuance of RSU\02019s and Shares for Bonus Obligations", "label": "Share-Based Payment Arrangement, Decrease for Tax Withholding Obligation", "documentation": "Amount of decrease to equity for grantee's tax withholding obligation for award under share-based payment arrangement." } }, "auth_ref": [] }, "us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue", "crdr": "credit",

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Costs and Discounts", "documentation": "Amount of amortization expense attributable to debt discount (premium) and debt issuance costs." } } }, { "auth_ref": ["r365", "r745", "r746", "r892", "r972"] }, { "us-gaap_AmortizationOffintangibleAssets": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AmortizationOffintangibleAssets", "crdr": "debit", "presentation": [{ "http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforAcquiredIntangiblesDetails", "lang": { "en-us": { "role": { "terseLabel": "Amortization Expense", "label": "Amortization of Intangible Assets", "documentation": "The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method." } } }, { "auth_ref": ["r8", "r286", "r292", "r740"] }, { "us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount", "presentation": [{ "http://www.astronics.com/role/EarningsPerShareNarrativeDetails", "lang": { "en-us": { "role": { "terseLabel": "Common shares excluded from computation (in shares)", "label": "Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount", "documentation": "Securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented." } } }, { "auth_ref": ["r198"] }, { "us-gaap_AociBeforeTaxAttributableToParent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AociBeforeTaxAttributableToParent", "crdr": "credit", "presentation": [{ "http://www.astronics.com/role/ShareholdersEquityScheduleofComponentsOfAccumulatedOtherComprehensiveIncomeLossDetails", "lang": { "en-us": { "role": { "terseLabel": "Retirement Liability Adjustment (u2013 Before Tax)", "label": "AOCI before Tax, Attributable to Parent", "documentation": "Amount before tax of increase (decrease) in accumulated equity from transactions and other events and circumstances from non-owner sources, attributable to parent. Excludes net income (loss), and accumulated changes in equity from transactions resulting from investments by owners (distributions to owners)." } } }, { "auth_ref": [] }, { "us-gaap_AociTaxAttributableToParent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AociTaxAttributableToParent", "crdr": "debit", "presentation": [{ "http://www.astronics.com/role/ShareholdersEquityScheduleofComponentsOfAccumulatedOtherComprehensiveIncomeLossDetails", "lang": { "en-us": { "role": { "negatedTerseLabel": "Tax Benefit of Retirement Liability Adjustment", "label": "AOCI Tax, Attributable to Parent", "documentation": "Amount of tax expense (benefit) allocated to accumulated other comprehensive income (loss) attributable to parent." } } }, { "auth_ref": [] }, { "atro_April12023ThroughJune12023Member": { "domainItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "April12023ThroughJune12023Member", "presentation": [{ 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"Exercise Price", "label": "Award Exercise Price" } } }, { "auth_ref": ["r862"] }, { "ecd_AwardGrantDateFairValue": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AwardGrantDateFairValue", "presentation": [{ "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Fair Value as of Grant Date", "label": "Award Grant Date Fair Value" } } }, { "auth_ref": ["r863"] }, { "ecd_AwardTmgDiscLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AwardTmgDiscLineItems", "lang": { "en-us": { "role": { "label": "Award Timing Disclosures [Line Items]" } } }, { "auth_ref": ["r858"] }, { "ecd_AwardTmgHowMnpiCnsdrdTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "AwardTmgHowMnpiCnsdrdTextBlock", "presentation": [{ "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Award 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These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r528"] }, "atro_BusinessAcquisitionPreacquisitionContingencySettlement": { "xbrltype": "monetaryItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "BusinessAcquisitionPreacquisitionContingencySettlement", "crdr": "credit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": -1.0, "order": 6.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Non-Cash Deferred Liability Recovery", "label": "Business Acquisition, Preacquisition Contingency, Settlement", "documentation": "Business Acquisition, Preacquisition Contingency, Settlement" } } }, "auth_ref": [] }, "us-gaap_CapitalizedContractCostAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CapitalizedContractCostAmortization", "crdr": "debit", "presentation": ["http://www.astronics.com/role/RevenueNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Amortization of fulfillment costs", "label": "Capitalized Contract Cost, Amortization", "documentation": "Amount of amortization expense for asset recognized from cost incurred to obtain or fulfill contract with customer." } } }, "auth_ref": ["r268"] }, "us-gaap_CapitalizedContractCostGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CapitalizedContractCostGross", "crdr": "debit", "presentation": ["http://www.astronics.com/role/RevenueNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Capitalized cost", "label": "Capitalized Contract Cost, Gross", "documentation": "Amount, before accumulated amortization and accumulated impairment loss, of asset recognized from cost incurred to obtain or fulfill contract with customer." } } }, "auth_ref": ["r913"] }, "us-gaap_CashAndCashEquivalentsAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsAtCarryingValue", "crdr": "debit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.astronics.com/role/BasisOfPresentationScheduleOfReconciliationOfCashandRestrictedCashDetails": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.astronics.com/role/BasisOfPresentationScheduleOfReconciliationOfCashandRestrictedCashDetails", "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets"], "lang": { "en-us": { "role": { "verboseLabel": "Cash and Cash Equivalents", "terseLabel": "Cash and Cash Equivalents", "label": "Cash and Cash Equivalents, at Carrying Value", "documentation": "Amount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation." } } }, "auth_ref": ["r23", "r139", "r721"] }, "us-gaap_CashAndCashEquivalentsRestrictedCashAndCashEquivalentsPolicy": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashAndCashEquivalentsRestrictedCashAndCashEquivalentsPolicy", "presentation": ["http://www.astronics.com/role/BasisOfPresentationPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Restricted Cash", "label": "Cash and Cash Equivalents, Restricted Cash and Cash Equivalents, Policy [Policy Text Block]", "documentation": "Entity's cash and cash equivalents accounting policy with respect to restricted balances. Restrictions may include legally restricted deposits held as compensating balances against short-term borrowing arrangements, contracts entered into with others, or company statements of intention with regard to particular deposits; however, time deposits and short-term certificates of deposit are not generally included in legally restricted deposits." } } }, "auth_ref": ["r24", "r110"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "crdr": "debit", "calculation": ["http://www.astronics.com/role/BasisOfPresentationScheduleOfReconciliationOfCashandRestrictedCashDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.astronics.com/role/BasisOfPresentationScheduleOfReconciliationOfCashandRestrictedCashDetails", "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "periodStartLabel": "Cash and Cash Equivalents and Restricted Cash at Beginning of Period", "periodEndLabel": "Cash and Cash Equivalents and Restricted Cash at End of Period", "totalLabel": "Total Cash and Restricted Cash Shown in Statements of Cash Flows", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents", "documentation": "Amount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r23", "r91", "r167"] }, "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "crdr": "debit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "totalLabel": "Decrease in Cash and Cash Equivalents and Restricted Cash", "label": "Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect", "documentation": "Amount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r0", "r91"] }, "ecd_ChangedPeerGroupFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChangedPeerGroupFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Changed Peer Group, Footnote", "label": "Changed Peer Group, Footnote [Text Block]" } } }, "auth_ref": ["r838"] }, "ecd_ChngInFrValOfVstngDtOfPrYrEqtyAwrdsVstdInCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ChngInFrValOfVstngDtOfPrYrEqtyAwrdsVstdInCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year", "label": "Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member]" } } }, "auth_ref": ["r835"] }, "ecd_ChngInFrValOfVstngDtOfVstngDtOfPrYrEqtyAwrdsVstdInCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested",

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Common stock represent the ownership interest in a corporation." } } }, "auth_ref": ["r12", "r69", "r660", "r677", "r1019", "r1020"] }, "us-gaap_CommonStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValue", "crdr": "credit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets", { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 1.0 }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets",], "lang": { "en-us": { "role": { "terseLabel": "Common Stock", "label": "Common Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r69", "r594", "r772"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure",], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Company Selected Measure", "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]", "auth_ref": ["r844"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Net Income", "label": "Compensation Actually Paid vs. Net Income [Text Block]" } } }, "auth_ref": ["r843"] }, "ecd_CompActuallyPaidVsOtherMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsOtherMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure",], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Other Measure", "label": "Compensation Actually Paid vs. Other Measure [Text Block]" } } }, "auth_ref": ["r845"] }, "ecd_CompActuallyPaidVsTotalShareholderRtnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsTotalShareholderRtnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure",], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Total Shareholder Return", "label": "Compensation Actually Paid vs. Total Shareholder Return [Text Block]" } } }, "auth_ref": ["r842"] }, "us-gaap_CompensationAndRetirementDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CompensationAndRetirementDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Retirement Benefits [Abstract]" } } }, "auth_ref": [] }, "us-gaap_ComprehensiveIncomeNetOfTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComprehensiveIncomeNetOfTax", "crdr": "credit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfComprehensiveLossIncome", { "parentTag": null, "weight": null, "order": null, "root": true }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfComprehensiveLossIncome",], "lang": { "en-us": { "role": { "totalLabel": "Comprehensive (Loss) Income", "label": "Comprehensive Income (Loss), Net of Tax, Attributable to Parent", "documentation": "Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners." } } }, "auth_ref": ["r19", "r157", "r159", "r163", "r588", "r602", "r603"] }, "us-gaap_ConcentrationRiskBenchmarkDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskBenchmarkDomain", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails",], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Benchmark [Domain]", "label": "Concentration Risk Benchmark [Domain]", "documentation": "The denominator in a calculation of a disclosed concentration risk percentage." } } }, "auth_ref": ["r26", "r27", "r54", "r55", "r238", "r713"] }, "us-gaap_ConcentrationRiskByBenchmarkAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByBenchmarkAxis", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails",], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Benchmark [Axis]", "label": "Concentration Risk Benchmark [Axis]", "documentation": "Information by benchmark of concentration risk." } } }, "auth_ref": ["r26", "r27", "r54", "r55", "r238", "r713"] }, "us-gaap_ConcentrationRiskByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByTypeAxis", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails",], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Type [Axis]", "label": "Concentration Risk Type [Axis]", "documentation": "Information by type of concentration risk, for example, but not limited to, asset, liability, net assets, geographic, customer, employees, supplier, lender." } } }, "auth_ref": ["r26", "r27", "r54", "r55", "r238", "r713", "r882"] }, "us-gaap_ConcentrationRiskDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskDisclosureTextBlock", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomers",], "lang": { "en-us": { "role": { "terseLabel": "Sales to Major Customers", "label": "Concentration Risk Disclosure [Text Block]", "documentation": "The entire disclosure for any concentrations existing at the date of the financial statements that make an entity vulnerable to a reasonably possible, near-term, severe impact. This disclosure informs financial statement users about the general nature of the risk associated with the concentration, and may indicate the percentage of concentration risk as of the balance sheet date." } } }, "auth_ref": ["r95"] }, "us-gaap_ConcentrationRiskPercentage1": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskPercentage1", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails",], "lang": { "en-us": { "role": { "terseLabel": "Percent of consolidated revenue (in excess of)", "label": "Concentration Risk, Percentage", "documentation": "For an entity that discloses a concentration risk in relation to quantitative amount, which serves as the \"benchmark\" (or denominator) in the equation, this concept represents the concentration percentage derived from the division." } } }, "auth_ref": ["r26", "r27", "r54", "r55", "r238"] }, "us-gaap_ConcentrationRiskTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskTypeDomain", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails",], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Type [Domain]", "label": "Concentration Risk Type [Domain]", "documentation": "For an entity that discloses a concentration risk as a percentage of some financial balance or benchmark, identifies the type (for example, asset, liability, net assets, geographic, customer, employees, supplier, lender) of the concentration." } } }, "auth_ref": ["r26", "r27", "r54", "r55", "r238", "r713"] }, "srt_ConsolidatedEntitiesAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ConsolidatedEntitiesAxis", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails",], "lang": { "en-us": { "role": { "terseLabel": "Consolidated Entities [Axis]", "label": "Consolidated Entities [Axis]" } } }, "auth_ref": ["r173", "r531", "r532", "r534", "r535", "r575", "r715", "r950", "r953", "r954"] }, "srt_ConsolidatedEntitiesDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ConsolidatedEntitiesDomain", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails",], "lang": { "en-us": { "role": { "terseLabel": "Consolidated Entities [Domain]", "label": "Consolidated Entities [Domain]" } } }, "auth_ref": ["r173", "r531", "r532", "r534", "r535", "r575", "r715", "r950", "r953", "r954"] }, "srt_ConsolidationItemsAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ConsolidationItemsAxis", "presentation": ["http://www.astronics.com/role/GoodwillDetails", "http://www.astronics.com/role/SegmentInformationDetails",], "lang": { "en-us": { "role": { "terseLabel": "Consolidation Items [Axis]", "label": "Consolidation Items [Axis]" } } }, "auth_ref": ["r119", "r173", "r202", "r212", "r226", "r227", "r228", "r229", "r230", "r232", "r233", "r234", "r332", "r333", "r334", "r335", "r337", "r338", "r339", "r340", "r341", "r733", "r734", "r951", "r952"] }, "srt_ConsolidationItemsDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ConsolidationItemsDomain", "presentation": ["http://www.astronics.com/role/GoodwillDetails", "http://www.astronics.com/role/SegmentInformationDetails",], "lang": { "en-us": { "role": { "terseLabel": "Consolidation Items [Domain]", "label": "Consolidation Items [Domain]", "auth_ref": ["r119", "r173", "r202", "r212", "r226", "r227", "r228", "r229", "r230", "r232", "r233", "r334", "r335", "r337", "r338", "r339", "r340", "r341", "r733", "r734", "r951", "r952"] }, "us-gaap_ConstructionInProgressMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConstructionInProgressMember", "presentation": ["http://www.astronics.com/role/PropertyPlantandEquipmentDetails",], "lang": { "en-us": { "role": { "terseLabel": "Construction in Progress", "label": "Construction in Progress [Member]", "documentation": "Structure or a modification to a structure under construction. Includes recently completed structures or modifications to structures that have not been placed into service." } } }, "auth_ref": [] }, "us-gaap_ContractWithCustomerAssetAndLiabilityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerAssetAndLiabilityTableTextBlock", "presentation": ["http://www.astronics.com/role/RevenueTables",], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Contract Assets and Liabilities", "label": "Contract with Customer, Contract Asset, Contract Liability, and Receivable [Table Text Block]", "documentation": "Tabular disclosure of receivable, contract asset, and contract liability from contract with customer. Includes, but is not limited to, change in contract asset and contract liability." } } }, "auth_ref": ["r957"] }, "us-gaap_ContractWithCustomerAssetNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerAssetNet", "crdr": "debit", "presentation": ["http://www.astronics.com/role/RevenueScheduleofContractAssetsandLiabilitiesDetails",], "lang": { "en-us": { "role": { "terseLabel": "Contract Assets", "label": "Contract with Customer, Asset, after Allowance for Credit Loss", "documentation": "Amount, after allowance for credit loss, of right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time." } } }, "auth_ref": ["r387", "r389", "r400"] }, "us-gaap_ContractWithCustomerLiability": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiability", "crdr": "credit", "presentation": ["http://www.astronics.com/role/RevenueScheduleofContractAssetsandLiabilitiesDetails",], "lang": { "en-us": { "role": { "verboseLabel": "Contract Liabilities", "label": "Contract with Customer, Liability", "documentation": "Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable." } } }, "auth_ref": ["r387", "r388", "r400"] }, "us-gaap_ContractWithCustomerLiabilityCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiabilityCurrent", "crdr": "credit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets", { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 2.0 }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets",], "lang": { "en-us": { "role": { "terseLabel": "Customer Advance Payments and Deferred Revenue", "label": "Contract with Customer, Liability, Current", "documentation": "Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current." } } }, "auth_ref": ["r387", "r388", "r400"] }, "us-gaap_ContractWithCustomerLiabilityRevenueRecognized": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiabilityRevenueRecognized", "crdr": "credit", "presentation": ["http://www.astronics.com/role/RevenueNarrativeDetails", "http://www.astronics.com/role/SegmentInformationDetails",], "lang": { "en-us": { "role": { "terseLabel": "Revenue recognized included in contract liability balance", "label": "Contract with Customer, Liability, Revenue Recognized", "documentation": "Amount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due." } } }, "auth_ref": ["r401"] }, "atro_ContractWithCustomerRevisionOfEstimatedCosts": { "xbrltype": "monetaryItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "ContractWithCustomerRevisionOfEstimatedCosts", "crdr": "debit", "presentation": ["http://www.astronics.com/role/RevenueNarrativeDetails",], "lang": { "en-us": { "role": { "terseLabel": "Revision of estimated costs", "label": "Contract With Customer, Revision Of Estimated Costs", "documentation": "Contract With Customer, Revision Of Estimated Costs" } } }, "auth_ref": [] }, "us-gaap_CorporateNonSegmentMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CorporateNonSegmentMember", "presentation": ["http://www.astronics.com/role/SegmentInformationDetails",], "lang": { "en-us": { "role": { "terseLabel": "Corporate Expenses and Other", "label": "Segment Reporting, Reconciling Item, Corporate Nonsegment [Member]", "documentation": "Corporate headquarters or functional department that may not earn revenues or may earn revenues that are only incidental to the activities of the entity and is not considered an operating segment." } } }, "auth_ref": ["r13", "r227", "r228", "r229", "r230", "r233", "r906"] }, "us-gaap_CostOfGoodsAndServicesSold": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CostOfGoodsAndServicesSold", "crdr": "debit", "calculation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations", { "parentTag": "us-gaap_GrossProfit", "weight": -1.0, "order": 2.0 }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations",], "lang": { "en-us": { "role": { "terseLabel": "Cost of Products Sold", "label": "Cost of Goods and Services Sold", "documentation": "The aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities." } } }, "auth_ref": ["r83", "r84", "r583"] }, "dei_CoverAbstract": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CoverAbstract", "lang": { "en-us": { "role": { "label": "Cover [Abstract]", "documentation": "Cover page." } } }, "auth_ref": [] }, "us-gaap_CreditFacilityAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditFacilityAxis", "presentation": ["http://www.astronics.com/role/LongtermDebtandNotesPayableDetails", "http://www.astronics.com/role/SubsequentEventsDetails",], "lang": { "en-us": { "role": { "terseLabel": "Credit Facility [Axis]", "label": "Credit Facility [Axis]", "documentation": "Credit Facility [Axis]" } } }, "auth_ref": [] } }

"Information by type of credit facility. Credit facilities provide capital to borrowers without the need to structure a loan for each borrowing." } } }, "auth_ref": ["r331", "r948"]] }, "us-gaap_CreditFacilityDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditFacilityDomain", "presentation": ["http://www.astronics.com/role/LongtermDebtandNotesPayableDetails", "http://www.astronics.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Credit Facility [Domain]", "label": "Credit Facility [Domain]", "documentation": "Type of credit facility. Credit facilities provide capital to borrowers without the need to structure a loan for each borrowing." } } }, "auth_ref": ["r331", "r948", "r949"]] }, "us-gaap_CreditLossFinancialInstrumentPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CreditLossFinancialInstrumentPolicyTextBlock", "presentation": ["http://www.astronics.com/role/BasisofPresentationPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Trade Accounts Receivable and Contract Assets", "label": "Credit Loss, Financial Instrument [Policy Text Block]", "documentation": "Disclosure of accounting policy for credit loss on financial instrument measured at amortized cost basis, net investment in lease, off-balance sheet credit exposure, and available-for-sale debt security. Includes, but is not limited to, methodology used to estimate allowance for credit loss, how writeoff of uncollectible amount is recognized, and determination of past due status and nonaccrual status." } } }, "auth_ref": ["r244", "r245", "r246", "r248", "r249", "r254", "r255", "r256", "r257", "r258", "r259", "r260", "r261", "r262", "r263", "r264", "r265", "r266"]], "dei_CurrentFiscalYearEndDate": { "xbrltype": "gMonthDayItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "CurrentFiscalYearEndDate", "presentation": ["http://www.astronics.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "Current Fiscal Year End Date", "label": "Current Fiscal Year End Date", "documentation": "End date of current fiscal year in the format --MM-DD." } } }, "auth_ref": [] }, "us-gaap_CustomerConcentrationRiskMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CustomerConcentrationRiskMember", "presentation": ["http://www.astronics.com/role/SalestoMajorCustomersDetails"], "lang": { "en-us": { "role": { "terseLabel": "Customer Concentration Risk", "label": "Customer Concentration Risk [Member]", "documentation": "Reflects the percentage that revenues in the period from one or more significant customers is to net revenues, as defined by the entity, such as total net revenues, product line revenues, segment revenues. The risk is the materially adverse effects of loss of a significant customer." } } }, "auth_ref": ["r96", "r238"]] }, "us-gaap_CustomerRelationshipsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CustomerRelationshipsMember", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Customer Relationships", "label": "Customer Relationships [Member]", "documentation": "Customer relationship that exists between an entity and its customer, for example, but not limited to, tenant relationships." } } }, "auth_ref": ["r51", "r925", "r927", "r928", "r929", "r931", "r932", "r935", "r936"]] }, "us-gaap_DebtDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtDisclosureAbstract", "lang": { "en-us": { "role": { "terseLabel": "Debt Disclosure [Abstract]", "label": "Debt Disclosure [Abstract]", "documentation": "Debt Disclosure [Abstract]" } } }, "auth_ref": [] }, "us-gaap_DebtDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtDisclosureTextBlock", "presentation": ["http://www.astronics.com/role/LongtermDebtandNotesPayable"], "lang": { "en-us": { "role": { "terseLabel": "Long-term Debt and Notes Payable", "label": "Debt Disclosure [Text Block]", "documentation": "The entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants." } } }, "auth_ref": ["r102", "r169", "r301", "r302", "r303", "r304", "r305", "r330", "r331", "r343", "r349", "r350", "r351", "r352", "r353", "r354", "r359", "r366", "r367", "r369", "r565"]] }, "us-gaap_DebtInstrumentAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentAxis", "presentation": ["http://www.astronics.com/role/LongtermDebtandNotesPayableDetails", "http://www.astronics.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Debt Instrument [Axis]", "label": "Debt Instrument [Axis]", "documentation": "Information by type of debt instrument, including, but not limited to, draws against credit facilities." } } }, "auth_ref": ["r15", "r59", "r60", "r112", "r114", "r173", "r344", "r345", "r346", "r347", "r348", "r350", "r355", "r356", "r357", "r358", "r360", "r361", "r362", "r363", "r364", "r365", "r742", "r743", "r744", "r745", "r746", "r771", "r895", "r938", "r939", "r940", "r971", "r973"]] }, "us-gaap_DebtInstrumentBasisSpreadOnVariableRate1": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DebtInstrumentBasisSpreadOnVariableRate1", "presentation": ["http://www.astronics.com/role/LongtermDebtandNotesPayableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Basis spread on variable rate", "label": "Debt Instrument, Basis Spread on Variable Rate", "documentation": "Percentage points added to the reference rate to compute the variable rate on the debt instrument." } } }, "auth_ref": [] }, "atro_DebtInstrumentCallPremiumPercentage": { "xbrltype": "percentItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "DebtInstrumentCallPremiumPercentage", "presentation": ["http://www.astronics.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Debt instrument, call 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The arrangements are generally based on terms and conditions stipulated by the entity, and which contain a promise by the employer to pay certain amounts or awards at designated future dates, including a period after retirement, upon compliance with stipulated requirements. Excludes disclosures pertaining to defined contribution plans." } } }, "auth_ref": ["r10", "r41", "r42", "r43", "r44"] }, "us-gaap_DefinedBenefitPlansAndOtherPostretirementBenefitPlansTableTextBlockLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DefinedBenefitPlansAndOtherPostretirementBenefitPlansTableTextBlockLineItems", "presentation": ["http://www.astronics.com/role/SupplementalRetirementPlanandRelatedPostRetirementBenefitsDetails", "lang": { "en-us": { "role": { "terseLabel": "Defined Benefit Plans and Other Postretirement Benefit Plans Table Text Block [Line Items]", "label": "Defined Benefit Plans and Other Postretirement Benefit Plans Table Text Block [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006." } } }, "auth_ref": [] }, "dei_DocumentInformationLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentInformationLineItems", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Document Information", "label": "Document Information [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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The format of the date is YYYY-MM-DD." } } }, "auth_ref": [] }, "dei_DocumentQuarterlyReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentQuarterlyReport", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Document Quarterly Report", "label": "Document Quarterly Report", "documentation": "Boolean flag that is true only for a form used as an quarterly report." } } }, "auth_ref": ["r794"] }, "dei_DocumentTransitionReport": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentTransitionReport", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Document Transition Report", "label": "Document Transition Report", "documentation": "Boolean flag that is true only for a form used as a transition report." } } }, "auth_ref": ["r826"] }, "dei_DocumentType": { "xbrltype": "submissionTypeItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "DocumentType", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Document Type", "label": "Document Type", "documentation": "The type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other.'" } } }, "auth_ref": [] }, "ecd_DvddsOrOthrErngsPdOnEqtyAwrdNsOtOthrsRflctdInTtlCompForCvrdYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "DvddsOrOthrErngsPdOnEqtyAwrdNsOtOthrsRflctdInTtlCompForCvrdYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Dividends or Other Earnings Paid on Equity Awards Not Otherwise Reflected in Total Compensation for Covered Year", "label": "Dividends or Other Earnings Paid on Equity Awards Not Otherwise Reflected in Total Compensation for Covered Year [Member]", "documentation": "Dividends or Other Earnings Paid on Equity Awards Not Otherwise Reflected in Total Compensation for Covered Year [Member]" } } }, "auth_ref": ["r837"] }, "us-gaap_EarningsPerShareAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareAbstract", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations", "lang": { "en-us": { "role": { "terseLabel": "(Loss) Earnings Per Share", "label": "Earnings Per Share [Abstract]", "documentation": "EarningsPerShareBasic", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations", "lang": { "en-us": { "role": { "terseLabel": "Basic (in usd per share)", "label": "Earnings Per Share, Basic", "documentation": "The amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period." } } }, "auth_ref": ["r164", "r179", "r180", "r181", "r182", "r183", "r184", "r190", "r192", "r195", "r196", "r197", "r201", "r526", "r530", "r544", "r545", "r589", "r604", "r726"] }, "us-gaap_EarningsPerShareDiluted": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareDiluted", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations", "lang": { "en-us": { "role": { "terseLabel": "Diluted (in usd per share)", "label": "Earnings Per Share, Diluted", "documentation": "The amount of net income (loss) for the period available to each share of common stock or common unit outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period." } } }, "auth_ref": ["r164", "r179", "r180", "r181", "r182", "r183", "r184", "r192", "r195", "r196", "r197", "r201", "r526", "r530", "r544", "r545", "r589", "r604", "r726"] }, "us-gaap_EarningsPerShareTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EarningsPerShareTextBlock", "presentation": ["http://www.astronics.com/role/EarningsPerShare", "lang": { "en-us": { "role": { "terseLabel": "Earnings Per Share", "label": "Earnings Per Share [Text Block]", "documentation": "The entire disclosure for earnings per share." } } }, "auth_ref": ["r189", "r198", "r199", "r200"] }, "us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "cdr": "debit", "calculation": {

"http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows", "lang": { "en-us": { "role": { "terseLabel": "Effect of Exchange Rates on Cash", "label": "Effect of Exchange Rate on Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Continuing Operations", "documentation": "Amount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies. Excludes amounts for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r557"] }, "us-gaap_EffectiveIncomeTaxRateContinuingOperations": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EffectiveIncomeTaxRateContinuingOperations", "presentation": ["http://www.astronics.com/role/IncomeTaxesDetails", "lang": { "en-us": { "role": { "terseLabel": "Effective tax rate", "label": "Effective Income Tax Rate Reconciliation, Percent", "documentation": "Percentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations." } } }, "auth_ref": ["r510", "r764"] }, "us-gaap_EmployeeStockOptionMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "EmployeeStockOptionMember", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Employee Stock Option", "label": "Share-Based Payment Arrangement, Option [Member]", "documentation": "Share-based payment arrangement granting right, subject to vesting and other restrictions, to purchase or sell certain number of shares at predetermined price for specified period of time." } } }, "auth_ref": [] }, "dei_EntityAddressAddressLine1": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressAddressLine1", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Address, Address Line One", "label": "Entity Address, Address Line One", "documentation": "Address Line 1 such as Attn, Building Name, Street Name" } } }, "auth_ref": [] }, "dei_EntityAddressCityOrTown": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressCityOrTown", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Address, City or Town", "label": "Entity Address, City or Town", "documentation": "Name of the City or Town" } } }, "auth_ref": [] }, "dei_EntityAddressPostalZipCode": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressPostalZipCode", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Address, Postal Zip Code", "label": "Entity Address, Postal Zip Code", "documentation": "Code for the postal or zip code" } } }, "auth_ref": [] }, "dei_EntityAddressStateOrProvince": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityAddressStateOrProvince", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Address, State or Province", "label": "Entity Address, State or Province", "documentation": "Name of the state or province." } } }, "auth_ref": [] }, "dei_EntityCentralIndexKey": { "xbrltype": "centralIndexKeyItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCentralIndexKey", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Central Index Key", "label": "Entity Central Index Key", "documentation": "A unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK." } } }, "auth_ref": ["r792"] }, "dei_EntityCommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCommonStockSharesOutstanding", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Common Stock, Shares Outstanding (in shares)", "label": "Entity Common Stock, Shares Outstanding", "documentation": "Indicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] }, "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Current Reporting Status", "label": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": [] }, "dei_EntityEmergingGrowthCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityEmergingGrowthCompany", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Emerging Growth Company", "label": "Entity Emerging Growth Company", "documentation": "Indicate if registrant meets the emerging growth company criteria." } } }, "auth_ref": ["r792"] }, "dei_EntityFileNumber": { "xbrltype": "fileNumberItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFileNumber", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity File Number", "label": "Entity File Number", "documentation": "Commission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen." } } }, "auth_ref": [] }, "dei_EntityFilerCategory": { "xbrltype": "filerCategoryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityFilerCategory", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Filer Category", "label": "Entity Filer Category", "documentation": "Indicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": ["r792"] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Incorporation, State or Country Code", "label": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": ["http://www.astronics.com/role/Cover", "lang": { "en-us": { "role": { "terseLabel": "Entity Interactive Data Current", "label": "Entity Interactive Data Current", 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Awards Adjustments, Excluding Value Reported in Compensation Table", "label": "Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member]", "documentation": "Footnote [Text Block]" } } }, "auth_ref": ["r872"] }, "ecd_EqtyAwrdsAdjJsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjJsMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Equity Awards Adjustments", "label": "Equity Awards Adjustments [Member]", "documentation": "Footnote [Text Block]" } } }, "auth_ref": ["r872"] }, "ecd_EqtyAwrdsInSummryCompstnTblForApblYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsInSummryCompstnTblForApblYrMember", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary 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Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information." } } }, "auth_ref": ["r547", "r548", "r549",

"r550", "r551", "r552", "r553", "r554", "r555", "r586", "r765", "r768"] }, "us-gaap_FinanceLeasePrincipalPayments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FinanceLeasePrincipalPayments", "crdr": "credit", "calculation": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 1.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "negatedLabel": "Finance Lease Principal Payments", "label": "Finance Lease, Principal Payments", "documentation": "Amount of cash outflow for principal payment on finance lease." } } }, "auth_ref": ["r571", "r572"] }, "us-gaap_FiniteLivedIntangibleAssetUsefulLife": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetUsefulLife", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "verboseLabel": "Weighted Average Life", "label": "Finite-Lived Intangible Asset, Useful Life", "documentation": "Useful life of finite-lived intangible assets, in 'PnYnMnDnThnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days." } } }, "auth_ref": [] }, "us-gaap_FiniteLivedIntangibleAssetsAccumulatedAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAccumulatedAmortization", "crdr": "credit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated Amortization", "label": "Finite-Lived Intangible Assets, Accumulated Amortization", "documentation": "Accumulated amount of amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": ["r143", "r269", "r291", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforIntangibleAssetsforEachofNextFiveYearsDetails"], "lang": { "en-us": { "role": { "terseLabel": "2025", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year One", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r293", "r719", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOffiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseRemainderOffiscalYear", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforIntangibleAssetsforEachofNextFiveYearsDetails"], "lang": { "en-us": { "role": { "terseLabel": "2024", "label": "Finite-Lived Intangible Asset, Expected Amortization, Remainder of Fiscal Year", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in remainder of current fiscal year." } } }, "auth_ref": ["r1021"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseTableTextBlock", "presentation": ["http://www.astronics.com/role/IntangibleAssetsTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Amortization Expense for Acquired Intangibles", "label": "Finite-Lived Intangible Assets Amortization Expense [Table Text Block]", "documentation": "Tabular disclosure of amortization expense of assets, excluding financial assets, that lack physical substance, having a limited useful life." } } }, "auth_ref": [] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFive", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforIntangibleAssetsforEachofNextFiveYearsDetails"], "lang": { "en-us": { "role": { "terseLabel": "2029", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Five", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r293", "r719", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearFour", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforIntangibleAssetsforEachofNextFiveYearsDetails"], "lang": { "en-us": { "role": { "terseLabel": "2028", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Four", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r293", "r719", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearThree", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforIntangibleAssetsforEachofNextFiveYearsDetails"], "lang": { "en-us": { "role": { "terseLabel": "2027", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Three", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r293", "r719", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAmortizationExpenseforIntangibleAssetsforEachofNextFiveYearsDetails"], "lang": { "en-us": { "role": { "terseLabel": "2026", "label": "Finite-Lived Intangible Asset, Expected Amortization, Year Two", "documentation": "Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r293", "r719", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsByMajorClassAxis", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets by Major Class [Axis]", "label": "Finite-Lived Intangible Assets by Major Class [Axis]", "documentation": "Information by major type or class of finite-lived intangible assets." } } }, "auth_ref": ["r285", "r287", "r288", "r289", "r290", "r291", "r294", "r295", "r584", "r585", "r719"] }, "us-gaap_FiniteLivedIntangibleAssetsGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsGross", "crdr": "debit", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Gross Carrying Amount", "label": "Finite-Lived Intangible Assets, Gross", "documentation": "Amount before amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life." } } }, "auth_ref": ["r269", "r291", "r585", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsLineItems", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets [Line Items]", "label": "Finite-Lived Intangible Assets [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r285", "r291", "r294", "r295", "r297", "r584", "r719", "r740"] }, "us-gaap_FiniteLivedIntangibleAssetsMajorClassNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiniteLivedIntangibleAssetsMajorClassNameDomain", "presentation": ["http://www.astronics.com/role/IntangibleAssetsScheduleofAcquiredIntangibleAssetsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Finite-Lived Intangible Assets, Major Class Name [Domain]", "label": "Finite-Lived Intangible Assets, Major Class Name [Domain]", "documentation": "The major class of finite-lived intangible asset (for example, patents, trademarks, copyrights, etc.) A major class is composed of intangible assets that can be grouped together because they are similar, either by their nature or by their use in the operations of a company." } } }, "auth_ref": ["r285", "r287", "r288", "r289", "r290", "r291", "r294", "r295", "r719"] }, "us-gaap_FiscalPeriod": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FiscalPeriod", "presentation": ["http://www.astronics.com/role/BasisofPresentationPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Operating Results", "label": "Fiscal Period, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for determining an entity's fiscal year or other fiscal period. This disclosure may include identification of the fiscal period end-date, the length of the fiscal period, any reporting period lag between the entity and its subsidiaries, or equity investees. If a reporting lag exists, the closing date of the entity having a different period end is generally noted, along with an explanation of the necessity for using different closing dates. Any intervening events that materially affect the entity's financial position or results of operations are generally also disclosed." } } }, "auth_ref": ["r53"] }, "ecd_ForgoneRecoveryDueToDisqualificationOfTaxBenefitsAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ForgoneRecoveryDueToDisqualificationOfTaxBenefitsAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Forgone Recovery due to Disqualification of Tax Benefits, Amount", "label": "Forgone Recovery due to Disqualification of Tax Benefits, Amount" } } }, "auth_ref": ["r803", "r813", "r823", "r855"] }, "ecd_ForgoneRecoveryDueToExpenseOfEnforcementAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "ForgoneRecoveryDueToExpenseOfEnforcementAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/ErrCompDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Forgone Recovery due 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from joint venture formation or both, that is not individually identified and separately recognized." } } }, "auth_ref": ["r142", "r271", "r587", "r734", "r739", "r766", "r772", "r915", "r922"] }, "us-gaap_GoodwillAndIntangibleAssetsDisclosureAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillAndIntangibleAssetsDisclosureAbstract", "lang": { "en-us": { "role": { "label": "Goodwill and Intangible Assets Disclosure [Abstract]" } } }, "auth_ref": [] }, "us-gaap_GoodwillDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillDisclosureTextBlock", "presentation": ["http://www.astronics.com/role/Goodwill"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill", "label": "Goodwill Disclosure [Text Block]", "documentation": "The entire disclosure for goodwill." } } }, "auth_ref": ["r270", "r272", "r282", "r739"] }, "us-gaap_GoodwillForeignCurrencyTranslationGainLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillForeignCurrencyTranslationGainLoss", "crdr": "credit", "presentation": ["http://www.astronics.com/role/GoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Foreign Currency Translation", "label": "Goodwill, Foreign Currency Translation Gain (Loss)", "documentation": "Amount of foreign currency translation gain (loss) which increases (decreases) asset representing future economic benefit from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized." } } }, "auth_ref": ["r278"] }, "us-gaap_GoodwillLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillLineItems", "presentation": ["http://www.astronics.com/role/GoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill", "label": "Goodwill [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r272", "r273", "r274", "r275", "r276", "r277", "r278", "r279", "r280", "r281", "r283", "r739"] }, "us-gaap_GoodwillRollForward": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GoodwillRollForward", "presentation": ["http://www.astronics.com/role/GoodwillDetails"], "lang": { "en-us": { "role": { "terseLabel": "Goodwill [Roll Forward]", "label": "Goodwill [Roll Forward]", "documentation": "A roll forward is a reconciliation of a concept from the beginning of a period to the end of a period." } } }, "auth_ref": [] }, "atro_GovernmentAndDefenseMember": { "xbrltype": "domainItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "GovernmentAndDefenseMember", "presentation": ["http://www.astronics.com/role/RevenueRevenueDisaggregatedByMarketDetails"], "lang": { "en-us": { "role": { "terseLabel": "Government & Defense", "label": "Government And Defense [Member]", "documentation": "Government And Defense" } } }, "auth_ref": [] }, "us-gaap_GrossProfit": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "GrossProfit", "crdr": "credit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations": { "parentTag": "us-gaap_OperatingIncomeLoss", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations"], "lang": { "en-us": { "role": { "totalLabel": "Gross Profit", "label": "Gross Profit", "documentation": "Aggregate revenue less cost of goods and services sold or operating expenses directly attributable to the revenue generation activity." } } }, "auth_ref": ["r81", "r85", "r120", "r171", "r241", "r332", "r333", "r335", "r336", "r337", "r338", "r339", "r341", "r342", "r556", "r728", "r733", "r904", "r905", "r907", "r908", "r909", 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This inventory is generally comprised of raw materials, labor and factory overhead costs, which require further materials, labor and overhead to be converted into finished goods, and which generally require the use of estimates to determine percentage complete and pricing." } } }, "auth_ref": [ "r98", "r724" ] }, "atro_July12023ThroughSeptember12023Member": { "xbrltype": "domainItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "July12023ThroughSeptember12023Member", "presentation": [ "http://www.astronics.com/role/LongtermDebtandNotesPayableDetails" ], "lang": { "en-us": { "role": { "terseLabel": "July 1, 2023 Through September 1, 2023", "label": "July 1, 2023 Through September 1, 2023 [Member]", "documentation": "July 1, 2023 Through September 1, 2023" } } }, "auth_ref": [ ] }, "us-gaap_LandMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LandMember", "presentation": [ "http://www.astronics.com/role/PropertyPlantandEquipmentDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Land", "label": "Land [Member]", "documentation": "Part of earth's surface not covered by water." } } }, "auth_ref": [ "r959" ] }, "us-gaap_LIABILITIES": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LIABILITIES", "crdr": "credit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_LIABILITIESAndStockholdersEquity", "weight": 1.0, "order": 1.0 }, "presentation": [ "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets" ], "lang": { "en-us": { "role": { "totalLabel": "Total LIABILITIES", "label": "LIABILITIES", "documentation": "Amount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others." } } }, "auth_ref": [ "r15", "r59", "r60", "r61", "r64", "r65", "r66", "r171", "r241", "r332", "r333", "r335", "r336", "r337", "r338", "r339", "r341", "r342", "r532", "r534", "r535", "r556", "r659", "r727", "r790", "r951", "r977", "r978" ] }, "us-gaap_LIABILITIESAndStockholdersEquity": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LIABILITIESAndStockholdersEquity", "crdr": "credit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": null, "weight": null, "order": null, "root": true }, "presentation": [ "http://www
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"Line of Credit", "label": "Line of Credit [Member]", "documentation": "A contractual arrangement with a lender under which borrowings can be made up to a specific amount at any point in time, and under which borrowings outstanding may be either short-term or long-term, depending upon the particulars." } } }, "auth_ref": [] }, "srt_LitigationCaseAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "LitigationCaseAxis", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Litigation Case [Axis]", "label": "Litigation Case [Axis]" } } } }, "auth_ref": [] }, "srt_LitigationCaseTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "LitigationCaseTypeDomain", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Litigation Case [Domain]", "label": "Litigation Case [Domain]" } } } }, "auth_ref": [] }, "us-gaap_LitigationReserve": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LitigationReserve", "crdr": "credit", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Estimated litigation liability", "label": "Estimated Litigation Liability", "documentation": "Aggregate carrying amount of the estimated litigation liability for known or estimated probable loss from litigation, which may include attorneys' fees and other litigation costs." } } } }, "auth_ref": ["r66", "r943"] }, "dei_LocalPhoneNumber": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LocalPhoneNumber", "presentation": ["http://www.astronics.com/role/Cover"], "lang": { "en-us": { "role": { "terseLabel": "Local Phone Number", "label": "Local Phone Number", "documentation": "Local phone number for entity." } } } }, "auth_ref": [] }, "us-gaap_LongTermDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebt", "crdr": "credit", "presentation": ["http://www.astronics.com/role/LongtermDebtandNotesPayableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Remaining balance", "label": "Long-Term Debt", "documentation": "Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation." } } } }, "auth_ref": ["r15", "r114", "r356", "r370", "r743", "r744", "r771", "r986"] }, "us-gaap_LongTermDebtCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtCurrent", "crdr": "credit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets", "http://www.astronics.com/role/LongtermDebtandNotesPayableDetails"], "lang": { "en-us": { "role": { "terseLabel": "Current Maturities of Long-term Debt", "label": "Long-Term Debt, Current Maturities", "documentation": "Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as current. Excludes lease obligation." } } } }, "auth_ref": ["r146"] }, "us-gaap_LongTermDebtNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtNoncurrent", "crdr": "credit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_Liabilities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets"], "lang": { "en-us": { "role": { "terseLabel": "Long-term Debt", "label": "Long-Term Debt, Excluding Current Maturities", "documentation": "Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. 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These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the company, if longer." } } } }, "auth_ref": ["r15", "r34", "r938", "r939", "r940"] }, "us-gaap_LossContingenciesByNatureOfContingencyAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingenciesByNatureOfContingencyAxis", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingency Nature [Axis]", "label": "Loss Contingency Nature [Axis]", "documentation": "Information by type of existing condition, situation, or set of circumstances involving uncertainty as to possible loss to an enterprise that will ultimately be resolved when one or more future events occur or fail to occur." } } } }, "auth_ref": ["r310", "r311", "r312", "r316", "r505", "r631", "r741", "r944", "r945"] }, "us-gaap_LossContingenciesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingenciesLineItems", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingencies [Line Items]", "label": "Loss Contingencies [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } } }, "auth_ref": ["r310", "r311", "r312", "r316", "r505", "r741", "r944", "r945"] }, "us-gaap_LossContingenciesTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingenciesTable", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingencies [Table]", "label": "Loss Contingencies [Table]", "documentation": "Disclosure of information about loss contingency. Excludes environmental contingency, warranty, and unconditional purchase obligation." } } } }, "auth_ref": ["r310", "r311", "r312", "r316", "r505", "r741", "r944", "r945"] }, "us-gaap_LossContingencyAccrualAtCarryingValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingencyAccrualAtCarryingValue", "crdr": "credit", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Reserve", "label": "Loss Contingency Accrual", "documentation": "Amount of loss contingency liability." } } } }, "auth_ref": ["r310", "r878"] }, "us-gaap_LossContingencyEstimateOfPossibleLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingencyEstimateOfPossibleLoss", "crdr": "debit", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss contingency, estimate of possible loss", "label": "Loss Contingency, Estimate of Possible Loss", "documentation": "Reflects the estimated amount of loss from the specified contingency as of the balance sheet date." } } } }, "auth_ref": ["r311", "r312", "r315", "r316", "r505", "r741"] }, "us-gaap_LossContingencyNatureDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingencyNatureDomain", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingency, Nature [Domain]", "label": "Loss Contingency, Nature [Domain]", "documentation": "An existing condition, situation, or set of circumstances involving uncertainty as to possible loss to an enterprise that will ultimately be resolved when one or more future events occur or fail to occur. Resolution of the uncertainty may confirm the incurrence of a loss or impairment of an asset or the incurrence of a liability." } } } }, "auth_ref": ["r310", "r311", "r312", "r316", "r505", "r631", "r741", "r944", "r945"] }, "atro_LufthansaTechnikAGMember": { "xbrltype": "domainItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "LufthansaTechnikAGMember", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Lufthansa Technik AG", "label": "Lufthansa Technik AG [Member]", "documentation": "Lufthansa Technik AG [Member]" } } } }, "auth_ref": [] }, "us-gaap_MachineryAndEquipmentMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MachineryAndEquipmentMember", "presentation": ["http://www.astronics.com/role/PropertyPlantandEquipmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Machinery and Equipment", "label": "Machinery and Equipment [Member]", 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Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit." } } } }, "auth_ref": ["r166"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivitiesAbstract", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "terseLabel": "Cash Flows from Financing Activities", "label": "Net Cash Provided by (Used in) Financing Activities [Abstract]" } } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInInvestingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivities", "crdr": "debit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "totalLabel": "Net Cash from Investing Activities", "label": "Net Cash Provided by (Used in) Investing Activities", "documentation": "Amount of cash inflow (outflow) from investing activities, including discontinued operations. 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Includes, but is not limited to, quantification of the expected or actual impact." } } }, "auth_ref": [] }, "atro_NonCashAnnualStockBonusAccrual": { "xbrltype": "monetaryItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "NonCashAnnualStockBonusAccrual", "crdr": "debit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "terseLabel": "Non-Cash Annual Stock Bonus Accrual", "label": "Non-Cash Annual Stock Bonus Accrual", "documentation": "Non-Cash Annual Stock Bonus Accrual" } } }, "auth_ref": [] }, "atro_NonCoreAerospaceContractManufacturingCustomerMember": { "xbrltype": "domainItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "NonCoreAerospaceContractManufacturingCustomerMember", 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Includes selling, general and administrative expense." } } }, "auth_ref": [] }, "us-gaap_OperatingIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "OperatingIncomeLoss", "crdr": "credit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations": { "parentTag": "us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "weight": 1.0, "order": 3.0 }, "http://www.astronics.com/role/SegmentInformationDetails": { "parentTag": "us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfOperations", "http://www.astronics.com/role/SegmentInformationDetails"], "lang": { "en-us": { "role": { "totalLabel": "Income from Operations", "terseLabel": "Total Segment Measure of Operating Profit", "label": "Operating 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extended warranty protection rights granted to customers." } } }, "auth_ref": ["r113", "r321", "r325", "r329"] }, "us-gaap_ProductWarrantyAccrualPayments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductWarrantyAccrualPayments", "crdr": "debit", "presentation": ["http://www.astronics.com/role/ProductWarrantiesScheduleofActivityInWarrantyAccrualDetails"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Warranties Settled", "label": "Standard and Extended Product Warranty Accrual, Decrease for Payments", "documentation": "Amount of decrease in the standard and extended product warranty accrual from payments made in cash or in kind to satisfy claims under the terms of the standard and extended product warranty." } } }, "auth_ref": ["r326"] }, "us-gaap_ProductWarrantyAccrualPreexistingIncreaseDecrease": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": 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Accrual, Increase for Warranties Issued", "documentation": "Amount of increase in the standard and extended product warranty accrual from warranties issued." } } }, "auth_ref": ["r327"] }, "us-gaap_ProductWarrantyDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductWarrantyDisclosureTextBlock", "presentation": ["http://www.astronics.com/role/ProductWarranties"], "lang": { "en-us": { "role": { "terseLabel": "Product Warranties", "label": "Product Warranty Disclosure [Text Block]", "documentation": "The entire disclosure for standard and extended product warranties and other product guarantee contracts, including a tabular reconciliation of the changes in the guarantor's aggregate product warranty liability for the reporting period." } } }, "auth_ref": ["r317", "r318", "r319", "r320", "r322", "r323"] }, "us-gaap_ProductWarrantyLiabilityLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", 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These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_ProductWarrantyLiabilityTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProductWarrantyLiabilityTable", "presentation": ["http://www.astronics.com/role/ProductWarrantiesNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Product Liability Contingency [Table]", "label": "Product Warranty Liability [Table]", "documentation": "Disclosure of information about product warranty liability, including, but not limited to, reductions in the liability for payments made under the warranty, changes in the liability for accruals related to product warranties issued, and changes in the liability for accruals related to preexisting warranties." } } }, "auth_ref": [] }, "srt_ProductsAndServicesDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "ProductsAndServicesDomain", "presentation": ["http://www.astronics.com/role/RevenueDisaggregatedbyProductLinesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Product and Service [Domain]", "label": "Product and Service [Domain]" } } }, "auth_ref": ["r235", "r583", "r617", "r618", "r619", "r620", "r621", "r622", "r623", "r720", "r748", "r773", "r775", "r776", "r779", "r780", "r781", "r782", "r783", "r784", "r785", "r786", "r787", "r788", "r789", "r790", "r791", "r792", "r793", "r794", "r795", "r796", "r797", "r798", "r799", "r800", "r801", "r802", "r803", "r804", "r805", "r806", "r807", "r808", "r809", "r810", "r811", "r812", "r813", "r814", "r815", "r816", "r817"] }, "us-gaap_PropertyPlantAndEquipmentAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentAbstract", "lang": { "en-us": { "role": { "label": "Property, Plant and Equipment [Abstract]" } } }, "auth_ref": [] }, "us-gaap_PropertyPlantAndEquipmentByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentByTypeAxis", "presentation": ["http://www.astronics.com/role/PropertyPlantAndEquipmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Property, Plant and Equipment, Type [Axis]", "label": "Long-Lived Tangible Asset [Axis]", "documentation": "Information by type of long-lived, physical assets used to produce goods and services and not intended for resale." } } }, "auth_ref": ["r9", "r573"] }, "us-gaap_PropertyPlantAndEquipmentDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentDisclosureTextBlock", "presentation": ["http://www.astronics.com/role/PropertyPlantAndEquipment"], "lang": { "en-us": { "role": { "terseLabel": "Property, Plant and Equipment", "label": "Property, Plant and Equipment [Text Block]", "documentation": "The entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections." } } }, "auth_ref": ["r99", "r125", "r128", "r129"] }, "us-gaap_PropertyPlantAndEquipmentGross": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentGross", "crdr": "debit", "calculation": { "http://www.astronics.com/role/PropertyPlantAndEquipmentDetails": { "parentTag": "us-gaap_PropertyPlantAndEquipmentNet", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.astronics.com/role/PropertyPlantAndEquipmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Property, plant and equipment, gross", "label": "Property, Plant and Equipment, Gross", "documentation": "Amount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r100", "r140", "r598"] }, "us-gaap_PropertyPlantAndEquipmentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentLineItems", "presentation": ["http://www.astronics.com/role/PropertyPlantAndEquipmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Property, Plant and Equipment, Net of Accumulated Depreciation", "label": "Property, Plant and Equipment [Table Text Block]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r573"] }, "us-gaap_PropertyPlantAndEquipmentNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentNet", "crdr": "debit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets"], "lang": { "en-us": { "role": { "terseLabel": "Property, Plant and Equipment, Net", "label": "Property, Plant and Equipment, Net of Accumulated Depreciation", "documentation": "Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r9", "r573", "r591", "r598", "r772"] }, "us-gaap_PropertyPlantAndEquipmentTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentTextBlock", "presentation": ["http://www.astronics.com/role/PropertyPlantAndEquipmentTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Property, Plant and Equipment", "label": "Property, Plant and Equipment [Table Text Block]", "documentation": "Tabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated depreciation." } } }, "auth_ref": ["r19"] }, "us-gaap_PropertyPlantAndEquipmentTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentTypeDomain", "presentation": ["http://www.astronics.com/role/PropertyPlantAndEquipmentDetails"], "lang": { "en-us": { "role": { "terseLabel": "Property, Plant and Equipment, Type [Domain]", "label": "Long-Lived Tangible Asset [Domain]", "documentation": "Listing of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale. Examples include land, buildings, machinery and equipment, and other types of furniture and equipment including, but not limited to, office equipment, furniture and fixtures, and computer equipment and software." } } }, "auth_ref": ["r100", "r573"] }, "us-gaap_ProvisionForDoubtfulAccounts": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProvisionForDoubtfulAccounts", "crdr": "debit", "presentation": ["http://www.astronics.com/role/BasisofPresentationScheduleofAllowanceforEstimatedCreditLossesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Bad Debt Expense, Net of Recoveries", "label": "Accounts Receivable, Credit Loss Expense (Reversal)", "documentation": "Amount of expense (reversal of expense) for expected credit loss on accounts receivable." } } }, "auth_ref": ["r165", "r251"] }, "atro_ProvisionForNonCashLossesOnInventoryAndReceivables": { "xbrltype": "monetaryItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "ProvisionForNonCashLossesOnInventoryAndReceivables", "crdr": "debit", "calculation": { "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 19.0 } }, "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows"], "lang": { "en-us": { "role": { "terseLabel": "Provisions for Non-Cash Losses on Inventory and Receivables", "label": "Provision For Non Cash Losses On Inventory And Receivables", "documentation": "Provision For Non Cash Losses On Inventory And Receivables" } } }, "auth_ref": [] }, "ecd_PvpTable": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTable",

"presentation": [{ "http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Pay vs Performance Disclosure", "label": "Pay vs Performance Disclosure [Table]" } } }, "auth_ref": ["r828"] }, "ecd_PvpTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "PvpTableTextBlock", "presentation": [{ "http://xbrl.sec.gov/ecd/role/PvpDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Pay vs Performance Disclosure, Table", "label": "Pay vs Performance [Table Text Block]" } } }, "auth_ref": ["r828"] }, "srt_RangeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeAxis", "presentation": [{ "http://www.astronics.com/role/LongtermDebtandNotesPayableDetails", "http://www.astronics.com/role/ProductWarrantiesNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Range [Axis]", "label": "Statistical Measurement [Axis]" } } }, "auth_ref": ["r311", "r312", "r313", "r314", "r427", "r475", "r501", "r502", "r503", "r505", "r546", "r579", "r580", "r581", "r624", "r625", "r631", "r651", "r652", "r702", "r703", "r704", "r705", "r706", "r707", "r716", "r717", "r738", "r747", "r763", "r767", "r768", "r769", "r770", "r775", "r783", "r941", "r955", "r966", "r980", "r981", "r982", "r983", "r984"] }, "srt_RangeMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "RangeMember", "presentation": [{ "http://www.astronics.com/role/LongtermDebtandNotesPayableDetails", "http://www.astronics.com/role/ProductWarrantiesNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Range [Domain]", "label": "Statistical Measurement [Domain]" } } }, "auth_ref": ["r311", "r312", "r313", "r314", "r427", "r475", "r501", "r502", "r503", "r505", "r546", "r579", "r580", "r581", "r624", "r625", "r631", "r651", "r652", "r702", "r703", "r704", "r705", "r706", "r716", "r717", "r738", "r747", "r763", "r767", "r768", "r769", "r770", "r775", "r783", "r941", "r955", "r966", "r980", "r981", "r982", "r983", "r984"] }, "us-gaap_ReconciliationOfAssetsFromSegmentToConsolidatedTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ReconciliationOfAssetsFromSegmentToConsolidatedTable", "presentation": [{ "http://www.astronics.com/role/SalestoMajorCustomersDetails", "lang": { "en-us": { "role": { "terseLabel": "Reconciliation of Assets from Segment to Consolidated [Table]", "label": "Reconciliation of Assets from Segment to Consolidated [Table]", "documentation": "Disclosure of information about identification, description, and amounts of all significant reconciling items in the reconciliation of total assets from reportable segments to the entity's consolidated assets." } } }, "auth_ref": ["r31", "r32"] }, "ecd_RecoveryOfErrCompDisclosureLineItems": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RecoveryOfErrCompDisclosureLineItems", "lang": { "en-us": { "role": { "label": "Recovery of Erroneously Awarded Compensation Disclosure [Line Items]" } } }, "auth_ref": ["r796", "r806", "r816", "r848"] }, "us-gaap_RepaymentsOfDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RepaymentsOfDebt", "crdr": "credit", "presentation": [{ "http://www.astronics.com/role/SubsequentEventsDetails", "lang": { "en-us": { "role": { "terseLabel": "Repayments of debt", "label": "Repayments of Debt", "documentation": "Amount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation." } } }, "auth_ref": ["r890"] }, "us-gaap_RepaymentsOfLongTermDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RepaymentsOfLongTermDebt", "crdr": "credit", "calculation": [{ "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": -1.0, "order": 4.0 }, "presentation": [{ "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfCashFlows", "lang": { "en-us": { "role": { "negatedTerseLabel": "Principal Payments on Long-term Debt", "label": "Repayments of Long-Term Debt", "documentation": "The cash outflow for debt initially having maturity due after one year or beyond the normal operating cycle, if longer." } } }, "auth_ref": ["r90", "r637"] }, "us-gaap_ResearchAndDevelopmentExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpense", "crdr": "debit", "presentation": [{ "http://www.astronics.com/role/BasisofPresentationNarrativeDetails", "lang": { "en-us": { "role": { "verboseLabel": "Research and development expense", "label": "Research and Development Expense", "documentation": "Amount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } }, "auth_ref": ["r507", "r719", "r733", "r985"] }, "us-gaap_ResearchAndDevelopmentExpensePolicy": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ResearchAndDevelopmentExpensePolicy", "presentation": [{ "http://www.astronics.com/role/BasisofPresentationPolicies", "lang": { "en-us": { "role": { "terseLabel": "Research and Development Expenses", "label": "Research and Development Expense, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for costs it has incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process." } } }, "auth_ref": ["r506"] }, "atro_RestatedABLAgreementAndTermLoanAgreementMember": { "xbrltype": "domainItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "RestatedABLAgreementAndTermLoanAgreementMember", "presentation": [{ "http://www.astronics.com/role/LongtermDebtandNotesPayableDetails", "http://www.astronics.com/role/SubsequentEventsDetails", "lang": { "en-us": { "role": { "terseLabel": "Restated Agreement and Term Loan Agreement", "label": "Restated ABL Agreement and Term Loan Agreement [Member]", "documentation": "Restated Agreement and Term Loan Agreement [Member]" } } }, "auth_ref": [] }, "ecd_RestatementDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDateAxis", "presentation": [{ "http://xbrl.sec.gov/ecd/role/ErrCompDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Restatement Determination Date", "label": "Restatement Determination Date [Axis]" } } }, "auth_ref": ["r797", "r807", "r817", "r849"] }, "ecd_RestatementDeterminationDate": { "xbrltype": "dateItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDeterminationDate", "presentation": [{ "http://xbrl.sec.gov/ecd/role/ErrCompDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Restatement Determination Date", "label": "Restatement Determination Date" } } }, "auth_ref": ["r798", "r808", "r818", "r850"] }, "ecd_RestatementDoesNotRequireRecoveryTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "RestatementDoesNotRequireRecoveryTextBlock", "presentation": [{ "http://xbrl.sec.gov/ecd/role/ErrCompDisclosure", "lang": { "en-us": { "role": { "terseLabel": "Restatement does not require recovery", "label": "Restatement Does Not Require Recovery [Text Block]" } } }, "auth_ref": ["r805", "r815", "r825", "r857"] }, "us-gaap_RestrictedCashAndCashEquivalents": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestrictedCashAndCashEquivalents", "crdr": "debit", "calculation": [{ "http://www.astronics.com/role/BasisofPresentationScheduleofReconciliationofCashandRestrictedCashDetails": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents", "weight": 1.0, "order": 1.0 }, "presentation": [{ "http://www.astronics.com/role/BasisofPresentationScheduleofReconciliationofCashandRestrictedCashDetails", "lang": { "en-us": { "role": { "terseLabel": "Restricted Cash", "label": "Restricted Cash and Cash Equivalents", "documentation": "Amount of cash and cash equivalents restricted as to withdrawal or usage. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r23", "r110", "r139", "r167", "r593"] }, "us-gaap_RestrictedCashCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RestrictedCashCurrent", "crdr": "debit", "calculation": [{ "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 2.0 }, "presentation": [{ "http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets", "lang": { "en-us": { "role": { "terseLabel": "Restricted Cash", "label": "Restricted Cash, Current", "documentation": "Amount of cash restricted as to withdrawal or usage, classified as current. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits." } } }, "auth_ref": ["r883", "r893"] }, "us-gaap_RetainedEarningsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetainedEarningsMember", "presentation": [{ "http://www.astronics.com/role/ConsolidatedCondensedStatementsOfShareholdersEquity", "lang": { "en-us": { "role": { "terseLabel": "Retained Earnings", "label": "Retained Earnings [Member]", "documentation": "Accumulated undistributed earnings (deficit)." } } }, "auth_ref": ["r133", "r174", "r175", "r176", "r178", "r183", "r185", "r187", "r242", "r243", "r299", "r516", "r517", "r523", "r524", "r525", "r527", "r529", "r530", "r536", "r538", "r539", "r541", "r543", "r567", "r568", "r626", "r628", "r639", "r1019"] }, "us-gaap_RetirementPlanTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetirementPlanTypeAxis", "presentation": [{ "http://www.astronics.com/role/SupplementalRetirementPlanandRelatedPostRetirementBenefitsDetails", "lang": { "en-us": { "role": { "terseLabel": "Retirement Plan Type [Axis]", "label": "Retirement Plan Type [Axis]", "documentation": "Information by type of retirement benefit plan. Includes, but is not limited to, retirement benefit arrangement for defined benefit pension and other postretirement plans, retirement benefit arrangement for defined contribution pension and other postretirement plans, and special and contractual termination benefits payable upon retirement." } } }, "auth_ref": ["r404", "r406", "r407", "r408", "r409", "r410", "r411", "r412", "r413", "r414", "r415", "r416", "r417", "r418", "r419", "r420", "r421", "r422", "r423", "r424", "r425", "r426", "r427", "r428", "r430", "r431", "r432", "r433", "r434", "r435", "r436", "r437", "r438", "r439", "r440", "r441", "r442", "r443", "r444", "r445", "r446", "r447", "r448", "r449", "r450", "r451", "r453", "r456", "r459", "r460", "r461", "r462", "r463", "r464", "r465", "r466", "r467", "r468", "r469", "r472", "r473", "r474", "r477", "r755", "r756", "r757", "r758", "r759", "r760", "r761", "r762"] }, "us-gaap_RetirementPlanTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RetirementPlanTypeDomain", "presentation": [{ "http://www.astronics.com/role/SupplementalRetirementPlanandRelatedPostRetirementBenefitsDetails", "lang": { "en-us": { "role": { "terseLabel": "Retirement Plan Type [Domain]", "label": "Retirement Plan Type [Domain]", "documentation": "Type of plan designed to provide participants with retirement benefits. 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Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise." } } }, "auth_ref": ["r118", "r119", "r202", "r211", "r212", "r226", "r232", "r235", "r237", "r238", "r398", "r399", "r583"] }, "us-gaap_RevenueFromContractWithCustomerTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueFromContractWithCustomerTextBlock", "presentation": [{ "http://www.astronics.com/role/Revenue", "lang": { "en-us": { "role": { "terseLabel": "Revenue", "label": "Revenue from Contract with Customer [Text Block]", "documentation": "The entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. 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Excludes insurance and lease contracts." } } }, "auth_ref": ["r131", "r390", "r391", "r392", "r393", "r394", "r395", "r396", "r397", "r402"] }, "us-gaap_RevenueRemainingPerformanceObligation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligation", "crdr": "credit", "presentation": [{ "http://www.astronics.com/role/RevenueNarrativeDetails", "lang": { "en-us": { "role": { "terseLabel": "Remaining performance obligation", "label": "Revenue, Remaining Performance Obligation, Amount", "documentation": "Amount of transaction price allocated to performance obligation that has not been recognized as revenue." } } }, "auth_ref": ["r126"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionLineItems", "presentation": [{ "http://www.astronics.com/role/RevenueNarrativeDetails", "lang": { "en-us": { "role": { "terseLabel": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items]", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1", "presentation": [{ "http://www.astronics.com/role/RevenueNarrativeDetails", "lang": { "en-us": { "role": { "terseLabel": "Period of recognition", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period", "documentation": "Period in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMndTnHnMns' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r127"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis",

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Facility", "label": "Revolving Credit Facility [Member]", "documentation": "Arrangement in which loan proceeds can continuously be obtained following repayments, but the total amount borrowed cannot exceed a specified maximum amount." } } }, "auth_ref": [ ] }, "us-gaap_RisksAndUncertaintiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RisksAndUncertaintiesAbstract", "lang": { "en-us": { "role": { "label": "Risks and Uncertainties [Abstract]" } } }, "auth_ref": [ ] }, "ecd_Rule10b51ArrAdoptedFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Rule10b51ArrAdoptedFlag", "presentation": [ "http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements" ], "lang": { "en-us": { "role": { "terseLabel": "Rule 10b5-1 Arrangement Adopted", "label": "Rule 10b5-1 Arrangement Adopted [Flag]" } } }, "auth_ref": [ "r866" ] }, "ecd_Rule10b51ArrTrmtdFlag": { "xbrltype": "booleanItemType", "nsuri": 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A major class is composed of intangible assets that can be grouped together because they are similar, either by nature or by their use in the operations of the company." } } }, "auth_ref": [ "r926", "r931" ] }, "us-gaap_ScheduleOfBusinessAcquisitionsByAcquisitionTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfBusinessAcquisitionsByAcquisitionTable", "presentation": [ "http://www.astronics.com/role/BasisofPresentationNarrativeDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Business Acquisitions, by Acquisition [Table]", "label": "Schedule of Business Acquisitions, by Acquisition [Table]", "documentation": "Disclosure of information about business combination. 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Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth_ref": ["r69", "r70", "r71", "r97", "r661", "r677", "r698", "r699", "r722", "r790", "r896", "r911", "r967", "r1019"] }, "us-gaap_StockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityAbstract", "presentation": ["http://www.astronics.com/role/ConsolidatedCondensedBalanceSheets"], "lang": { "en-us": { "role": { "terseLabel": "Shareholders\u2019 Equity", "label": "Equity, Attributable to Parent [Abstract]" } } }, "auth_ref": [] }, "atro_StockholdersEquityLineItems": { "xbrltype": "stringItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "StockholdersEquityLineItems", "presentation": ["http://www.astronics.com/role/ShareholdersEquityNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Stockholders Equity", "label": "Stockholders Equity [Line Items]", "documentation": "Stockholders Equity [Line Items]" } } }, "auth_ref": [] }, "us-gaap_StockholdersEquityNoteDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityNoteDisclosureTextBlock", "presentation": ["http://www.astronics.com/role/ShareholdersEquity"], "lang": { "en-us": { "role": { "terseLabel": "Shareholders' Equity", "label": "Equity [Text Block]", "documentation": "The entire disclosure for equity." } } }, "auth_ref": ["r103", "r170", "r372", "r374", "r375", "r376", "r377", "r378", "r379", "r380", "r381", "r382", "r383", "r384", "r386", "r542", "r700", "r701", "r712"] }, "atro_StockholdersEquityTable": { "xbrltype": "stringItemType", "nsuri": "http://www.astronics.com/20240629", "localname": "StockholdersEquityTable", "presentation": ["http://www.astronics.com/role/ShareholdersEquityNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Stockholders Equity [Table]", "label": "Stockholders Equity [Table]", "documentation": "Stockholders Equity [Table]" } } }, "auth_ref": [] }, "us-gaap_SubsegmentsAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsegmentsAxis", "presentation": ["http://www.astronics.com/role/RevenueRevenueDisaggregatedByMarketDetails"], "lang": { "en-us": { "role": { "terseLabel": "Subsegments [Axis]", "label": "Subsegments [Axis]", "documentation": "Information by business subsegments." } } }, "auth_ref": [] }, "us-gaap_SubsegmentsDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsegmentsDomain", "presentation": ["http://www.astronics.com/role/RevenueRevenueDisaggregatedByMarketDetails"], "lang": { "en-us": { "role": { "terseLabel": "Subsegments [Domain]", "label": "Subsegments [Domain]", "documentation": "Divisions of a component of an entity that engage in business activities from which they may earn revenue and incur expenses, including transactions with other components of the same entity." } } }, "auth_ref": [] }, "us-gaap_SubsequentEventLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsequentEventLineItems", "presentation": ["http://www.astronics.com/role/SubsequentEventsDetails"], "lang": { "en-us": { "role": { "terseLabel": "Subsequent Event [Line Items]", "label": "Subsequent Event [Line Items]", "documentation": "Detail information of subsequent event by type. 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Examples include: the sale of a capital stock issue, purchase of a business, settlement of litigation, catastrophic loss, significant foreign exchange rate changes, loans to insiders or affiliates, and transactions not in the ordinary course of business." } } }, "auth_ref": ["r576", "r578"] }, "srt_SubsidariesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "SubsidiariesMember", "presentation": ["http://www.astronics.com/role/LegalProceedingsDetails"], "lang": { "en-us": { "role": { "terseLabel": "AES", "label": "Subsidiaries [Member]" } } }, "auth_ref": ["r960", "r974", "r975", "r976"] }, "us-gaap_SubsidarySaleOfStockAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidiarySaleOfStockAxis", "presentation": ["http://www.astronics.com/role/ShareholdersEquityNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Sale of Stock [Axis]", "label": "Sale of Stock [Axis]", "documentation": "Information by type of sale of the entity's stock." } } }, "auth_ref": [] }, "us-gaap_SupplementalEmployeeRetirementPlanDefinedBenefitMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SupplementalEmployeeRetirementPlanDefinedBenefitMember", "presentation": ["http://www.astronics.com/role/SupplementalRetirementPlanandRelatedPostRetirementBenefitsDetails"], "lang": { "en-us": { "role": { "terseLabel": "SERP", "label": "Supplemental Employee Retirement Plan [Member]", "documentation": "Plan designed to provide limited group of employees with supplemental retirement benefits, in addition to other pension benefits. 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M'BX3WK.$,VN,+Y6A_3M\L'$S C%00A4?15?+I8P0& MHGH&H7L'7GB@>([7G_F2]JBS)EXSLY(I@&F, KFC11;JH6:1?XT(*)#@>'>Q&S MPA*)\I]5SD8,7YJJ70&M,WZ?>HM30G9
FUI[R7AD &5?&J;QZ0:)>-(MBI'MP9R*(F5@>D2V14@<~<~<~>?>80)TMSI$2%<C+D>#>#>@3?>T@>+I&G.UX)DNR M(71RKQKH1')24J03Q'74?>74>Y=HBO,<~<~<~>9TOB$>@/B
WNOR&C(9?1_9X8,P MHK1U0 *7V&DQ)WZX<~>EAGAW\I\Y?2,I)SBJC<X1P$L=>#IY M7#+#9>+>Y)H7 5@!>'G7@SDV8A2[R5]IHX_#(680$T,Y6,%67#>GN:<~<~<~>_G$ M%>M+
<1>1-TN<~>=3Y(R/W/V)PZ$>1RX'KA<~>=&1%4YD&=UL4UF1*#Q %>60**3JB MBA'UGDA'+I+3HIH(G;,<~<~<~>8NHMSF(?J *GM4%>T$&J$S, 1T<~<~<~>7<~<~<~>1-)'>;<~<~<~>M P^>:"BL
I\H\H'.HR;QF/>O$>B$>'>_719PZDD016YJ34'4IY T',+ID7R'>@>87 5[5HZ M(8S$>L61FFZ>?>QXYRK6$K'4=JSPY!>:>U> >I]W? M8-J50_#X1,1C2>P
E(BT<~<~<~>1' #0?<~<~<~>25TSPUD$XSN11B@>@> 6[21P]JB0,M'&($>L+>Z&#9,>'ACIGRDS,?S1QGG@>T M7K G:3I,G$<~<~<~>C)>:"R"X\4L:LD>21A7DYG\U>L2>NP% F4#+>D&POC+>,"1A(
MP9F@>I0?>A-D,>+<~<~<~>T<~<~<~>7<~<~<~>9&8&26%P$>_H'1'1GYM(XD89X M=>8Y,<~<~<~>4) _JAI M1+D&G0E3RH IJVD'>#H$?>?#T@>L>9*Q'>@>BCE;XF'B'Q-GFK'W_ X6PU3<~<~<~>(V2
M4'>G*B$1/K'<~<~<~>B'6'>FFEC2B'6'<~<~<~>A-Z,<~<~<~>1<~<~<~>2Z%K1Y6<~<~<~>V-6N?P11EL:$>C[20&8'$> M9W(DM'M4A5ZKRC.1,$54?>33'Z+>P),>$_AJBKC,<~<~<~>+>?>R7LJ9JDC&<~<~<~>B&O M1)<~<~<~>XJ&Z;<~<~<~>G5E-A)<~<~<~>%$>_%
M41S(1@>P>P08ROR?>Q$>R5IY'KX'J?>V179=R<~<~<~>M0' M2&NRLQ2>5$>F.I2N -Z41GK'26C6ENR&A)EOVE'>ISM45V;V7L'~>#206I\>VY M> WEZE.W=IDFQ?>DH9079;
<~<~<~>R2CY@>KJ&KIINRFH$<~<~<~>I=AJ<~<~<~>GRUN<~<~<~>FOS<~<~<~>B7.W MJB M:T'>=>RQO7Z'P7X5X'<~<~<~>0&@<~<~<~>Y\<~<~<~>I+<~<~<~>M1M1ORAK,V7L'<~<~<~>K=V$ZY>ZDLTW$
MW<~<~<~>F.BVVW'9&X.<~<~<~>N&N<~<~<~>YK$<~<~<~>O'>GRON<~<~<~>F3ZE<~<~<~>#HQB&84?>1 4 (3E_>J4)>[R9]Y0 M\N)Q3Q4H'>QJNVNW9KMJ]>,>=J'<~<~<~>1%02L1V3>]>TKJQ(*R<~<~<~>7B(V.VW=-.L5 M$5=$?>1$W'KKJ]
<~<~<~>8A$O$+>+<~<~<~>8XBV9]>I>YZPV'>Y8EO>50>_I23'>?2?>?1'>P K=>M15?1-G H&G,6'>P?>:S5TIOQI96LS15W8=K/J$5,1V3,36K.E6K2'>VPT@>
MFBFM;NKVU@>[I$6P51>WD,>+>#T9F>IDNV?>Q,0J5D 4F;TAA&>=>CFQVCMM8Q,0#0;#>D)36PUW<~<~<~>KL2;>SWENEY M<~<~<~>7,G,GT0S<~<~<~>1.7FU?>CK3$R>QA1FW9;==6X9JHK9KY=BBH7*
(5<~<~<~>3Q&EBE'=T5M%9)=4J<~<~<~>C'FNW<~<~<~>I'V5VDKO +>W'W@>[894XK0'58 M'Z,>58VABDZX'FSC&GJ37/>+>FGL+>?>IO:T(K9#>AL0F]VI5<~<~<~>1V @,I,[S U M]':C6=>:>P>'CW4>36L?
8DUTKO<~<~<~>+SD0P+NF=>9S?>FDW3LQVBVJQ:JX=>C'Y#YA#>'>#>99+>'>Y8T<~<~<~>C'>=>4P(6L$K5<~<~<~>+>D+>J<~<~<~>C,$>S,>#>W.RJNO)>@>1 ~>1-M.H:PD&+>AD'<~<~<~>+>OC;K9OJM7&X: MND%>X-
F$>_!>1P<~<~<~>*<~<~<~>Z) S 0Z0M#6<~<~<~>1V >P<~<~<~>[AW1PS]X$WPUG0>V VJ9?7 M648BM0=7X$ P9Q$>59485A8&8<~<~<~>(3NM#X1HD'>H8Z?>CCT-GPH<~<~<~>3 4,4CQK
M&?>7+>1+0&S2MP&Q/B]>=2K(Q'9Y0)WTD<~<~<~>[O9];>M&=>P'6'T@>I1Q9V3=>[MK2->_R14)>N?>+I&80AQGT$X9J&K(R<~<~<~>I.E'>@>FUD'>2$9 PDG03:HKX2FD(VL/ ZS6$Q1 M%>ZQK-
#15+>ZN&:>4ZPAVN&B&I&S<~<~<~>O'>D9K$P<~<~<~>B+>358HX8<~<~<~>,@<~<~<~>(C'<~<~<~>2&BE%'<~<~<~>M BF&I(R$K.OIP&P&T?>Z'1S, LZL $>K012W]B=>,>+>#I EY<~<~<~>1GNC% MLK'P4/_W+I2/Q+CG?
61M7&2>2/8I+GC/3CS'>50EA4N (50 YL<~<~<~>^<~<~<~>[2CT;=>M D]F<~<~<~>+>F?5,1$T'8934N&3D'IQ'2M+>F2C0Q3G 5S;>#N0?>N01A'>@>=>6'>V&'<~<~<~>C"
M_F7JUL1&HJ2@>T,@>I@>
```

166. >4X0MZ.A.Z2\$HUR4.>2>13>V1TT.G0JYB5=TLQ0.MDLFK(+.QYEUZW1==>=0.D2)=NSC9G6GWU=,FJGSJHBC#.D%6K.MY40Q&&@A21.3=F(UV.Y-V%K%_A_J.N3401.G#>WZC2J.PY.Z.MBN2\$S5%9U.NIK22\$80V&E.-D)3#377.MD3.52S%\$KINF.#7X19BN<=2.WDHY6(16#2D10&KPE.5L272\$H.FY<=>L.F
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M.^&=YAT614.HTW>W17Y=6/^C(2)GJ).#REU@>S.S86P1+GM41^5C6V.M#>GYPE&F^MCG.6D^U.A0M>5>S^H>NZ14.F#<5%Q22C>318J6.XEJ%SY.U>
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[illegible]

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[illegible]

[illegible]

[illegible]

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 IZNI1D37KC Q20T0YH7G> > LGM91M M2Q0Z1C1 M6023V1T T-S7<QD^F1U)88H1^T#X1D8K4= RZXKYXU1L YCSGZ2UO M-
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**right;vertical-align:top">1,495</td>
<td style="background-color:#ffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:top"></td><td
colspan="3" style="background-color:#ffff;border-bottom:3pt double #000;padding:0 1pt"></td><td style="background-color:#ffff;border-bottom:3pt double
#000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:top"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-
size:10pt;font-weight:400;line-height:112%">\$</td><td style="background-color:#ffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-
align:right;vertical-align:top">1,725</td>
</div>9193000263000085960002265000398000-99000312000189000809600008060007413000729000149500017250001495000172500007500000<div style="margin-
bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-style:italic;font-weight:700;line-
height:120%;text-decoration:underline">Research and Development Expenses</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span
style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-height:120%">Research and development costs are expensed as incurred
and include salaries, benefits, consulting, material costs, and depreciation. Research and development expenses amounted to \$14.2 million and \$12.7 million for the three
months ended and \$27.5 million and \$25.4 million for the six months ended June 29, 2024 and July 1, 2023, respectively. These costs are included in cost of products sold.
</div>14200000127000002750000025400000<div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-family:'Times New
Roman',sans-serif;font-size:10pt;font-style:italic;font-weight:700;line-height:120%;text-decoration:underline">Valuation of Goodwill and Long-Lived Assets</div><div
style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-
height:120%">The Company tests goodwill at the reporting unit level on an annual basis or more frequently if an event occurs or circumstances change that would more likely
than not reduce the fair value of a reporting unit below its carrying amount.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span
style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-height:120%">Long-lived assets are evaluated for recoverability whenever
adverse effects or changes in circumstances indicate that the carrying value may not be recoverable. The recoverability test consists of comparing the undiscounted projected
cash flows with the carrying amount. Should the carrying amount exceed undiscounted projected cash flows, an impairment loss would be recognized to the extent the
carrying amount exceeds fair value.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-family:'Times New
Roman',sans-serif;font-size:10pt;font-style:italic;font-weight:700;line-height:120%;text-decoration:underline">Newly Adopted Accounting Pronouncements</div><div
style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-style:italic;font-
weight:400;line-height:120%">Recent Accounting Pronouncements Not Yet Adopted</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><table
style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td
style="width:25.800%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td
style="width:1.0%"></td><td style="width:38.519%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td
style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:30.921%"></td><td style="width:0.1%"></td><tr><tr><td colspan="3" style="background-
color:#ffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:700;line-
height:100%">Standard</td><td colspan="3" style="background-color:#ffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffff;padding:2px
1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:700;line-
height:100%">Description</td><td colspan="3" style="background-color:#ffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffff;padding:2px
1pt;text-align:left;vertical-align:bottom">Financial
Statement Effect or Other Significant Matters</td><tr><tr><td colspan="3" style="background-color:#ceefff;border-top:1pt solid #000;padding:2px 1pt;text-
align:left;vertical-align:top">ASU No. 2023-
07
Segment Reporting (Topic 280), Improvements to Reportable Segment Disclosure
</td><td colspan="3" style="background-color:#ceefff;padding:0
1pt"></td><td colspan="3" style="background-color:#ceefff;border-top:1pt solid #000;padding:2px 1pt;text-align:justify;vertical-align:top"><span
style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-height:100%">The standard includes updates to the disclosure
requirements for a public entity's reportable segments and provides more detailed information about a reportable segment's expenses. The new standard is effective for fiscal
years beginning after December 15, 2023 and interim periods beginning after December 15, 2024, with retrospective application required.</td><td colspan="3" style="background-color:#ceefff;padding:0
1pt"></td><td colspan="3" style="background-color:#ceefff;border-top:1pt solid #000;padding:2px 1pt;text-align:justify;vertical-align:top">The Company is currently evaluating the
impact of adopting this guidance. We expect adoption to result in additional disclosures in the notes to our Consolidated Financial Statements.</td><tr><tr><td colspan="3" style="background-color:#ffff;border-bottom:1pt solid #000;border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:top"><span
style="color:#000000;font-family:'Times New Roman',sans-serif;font size:10pt;font-weight:400;line-height:100%">ASU No. 2023-09
Income Taxes (Topic 740),
Improvements to Income Tax Disclosures
</td><td colspan="3" style="background-color:#ffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffff;border-bottom:1pt solid #000;border-top:1pt solid #000;padding:2px 1pt;text-align:justify;vertical-align:top"><span style="color:#000000;font-family:'Times New
Roman',sans-serif;font-size:10pt;font-weight:400;line-height:100%">The amendments in this update require enhanced disclosures within the annual rate reconciliation,
including new requirements to present reconciling items on a gross basis in specified categories, disclosure of both percentages and dollar amounts, and disaggregation of
the reconciling items by nature when they meet a quantitative threshold. The update also includes enhanced disclosure requirements for income taxes paid. The new standard
is effective for annual periods beginning after December 15, 2024. early adoption is permitted.</td><td colspan="3" style="background-color:#ffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffff;border-bottom:1pt solid #000;border-top:1pt solid #000;padding:2px 1pt;text-align:justify;vertical-align:top"><span
style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-height:100%">The Company is currently evaluating the impact of adopting this
guidance. We expect adoption to result in additional disclosures in the notes to our Consolidated Financial Statements.</td><tr><tr><td colspan="3" style="background-color:#ffff;border-bottom:1pt solid #000;border-top:1pt solid #000;padding:2px 1pt;text-align:justify;vertical-align:top"><span style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-
height:120%">We consider the applicability and impact of all ASUs. Recent ASUs were assessed and determined to be either not applicable or had or are expected to have
minimal impact on our financial statements and related disclosures.</div>Revenue<div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span
style="color:#000000;font-family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-height:120%">On June 29, 2024, we had \$633.4 million of outstanding
performance obligations, which we refer to as total backlog. We expect to recognize approximately \$561.5 million of our outstanding performance obligations as revenue over
the next twelve months and the balance thereafter.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-
family:'Times New Roman',sans-serif;font-size:10pt;font-weight:400;line-height:120%">We recognized \$9.0 million and \$10.6 million during the three months ended and
\$15.2 million and \$19.5 million during the six months ended June 29, 2024 and July 1, 2023, respectively, in revenues that were included in the contract liability balance at
the beginning of the period.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><span style="color:#000000;font-family:'Times New
Roman',sans-serif;font-size:10pt;font-weight:400;line-height:120%">The Company's contract assets and contract liabilities consist primarily of costs and profits in excess of
billings and billings in excess of cost and profits, respectively. The following table presents the beginning and ending balances of contract assets and contract liabilities
during the six months ended June 29, 2024.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify"><table style="border-
collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:32.233%"></td><td
style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:35.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:1.0%"&**

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left:vertical-align:bottom">\$</td><td style="background-color:#cfeeff;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">27</td><td style="background-color:#cfeeff;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top">Interest Cost</td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">685</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">652</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">342</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">327</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cfeeff;padding:2px 1pt;text-align:left;vertical-align:top">Amortization of Prior Service Cost</td><td colspan="2" style="background-color:#cfeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">193</td><td colspan="3" style="background-color:#cfeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="2" style="background-color:#cfeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">96</td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">98</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">179</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">185</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="2" style="padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">89</td><td style="padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cfeeff;padding:2px 1pt;text-align:left;vertical-align:top">Net Periodic Cost</td><td colspan="2" style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">\$</td><td style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">1,247</td><td colspan="3" style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="2" style="background-color:#cfeeff;padding:0 1pt"></td><td style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">\$</td><td style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0;text-align:right;vertical-align:bottom">623</td><td colspan="3" style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">\$</td><td style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">541</td><td colspan="3" style="background-color:#cfeeff;border-bottom:3pt double #000000;border-top:1pt solid #000000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div>0530000270006850006520003420003270001930001930009600098000-369000-179000-185000-89000124700010770006230000541000Sales to Major CustomersThe loss of major customers or a significant reduction in business with a major customer would significantly, and negatively impact our sales and earnings. In the three and six months ended June 29, 2024 and July 1, 2023, the Company had one customer over 10% of consolidated sales. Sales to The Boeing Company ("Boeing") accounted for 11.7% and 11.2% of sales in the three and six months ended June 29, 2024 and 11.5% and 10.9% in the three and six months ended July 1, 2023, respectively. Accounts receivable from Boeing on June 29, 2024 were approximately \$23.2 million.0 1170 1120 1150 10923200000Legal Proceedings<div style="margin-bottom:9pt;margin-top:9pt;text-align:justify">Lufthansa</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify">One of the Company's subsidiaries is involved in numerous patent infringement actions brought by Lufthansa Technik AG ("Lufthansa") in Germany, the United Kingdom ("UK") and France. The Company is vigorously defending all such litigation and proceedings. Additional information about these legal proceedings can be found in Note 19 "Legal Proceedings" in the Company's Annual Report on Form 10-K for the year ended December 31, 2023.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify">The reserve for the German indirect claim and interest was approximately \$17.3 million on June 29, 2024 and \$17.1 million on December 31, 2023. The Company currently believes it is unlikely that the damages in the indirect proceedings and related interest will be paid within the next twelve months. Therefore, the liability related to this matter is classified within Other Liabilities (non-current) in the Consolidated Condensed Balance Sheets on June 29, 2024 and December 31, 2023.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify">In the matter before the UK High Court of Justice, as previously disclosed, Lufthansa has pleaded its case for monetary compensation, which will be determined at a separate trial. Lufthansa has elected to pursue a claim in relation to the defendants' profits from their infringing activities. We have estimated damages and accrued interest for AES and its indemnified customers of approximately \$7.3 million and \$7.4 million as of June 29, 2024 and December 31, 2023, respectively. This variance is due to currency fluctuation and interest accrued. Interest will accrue until the final payment to Lufthansa. This amount is subject to change as additional data is received and evaluated, and as additional information regarding the nature of its claim is put forward by Lufthansa in advance of the damages trial. The damages trial is scheduled to be heard starting in October 2024, with payment likely due in early 2025. Therefore, the liability related to these matters is classified within Accrued Expenses and Other Current Liabilities in the Consolidated Condensed Balance Sheets on June 29, 2024. The liability related to these matters was classified within Other Liabilities (non-current) on December 31, 2023.</div><div style="margin-bottom:9pt;margin-top:9pt;text-align:justify">As previously disclosed, on December 4, 2020, the Court held the French patent invalid for all asserted claims. There can consequently be no finding of infringement on first instance. Lufthansa has appealed this judgment. The appeal hearing took place on December 8, 2022, and on February 24, 2023, the Court upheld the first instance judgment in favor of AES. Lufthansa lodged an appeal before the French Supreme Court; the French Supreme Court will review the Court of Appeal of Paris reasoning around the nullification of one of the claims of the patent. AES filed a

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