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DELTA REPORT

10-K

NDSN - NORDSON CORP

10-K - OCTOBER 31, 2024 COMPARED TO 10-K - OCTOBER 31, 2023

The following comparison report has been automatically generated

TOTAL DELTAS 2841

█ CHANGES 381

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended **October 31, 2023** **October 31, 2024**

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____
Commission file number 0-7977

NORDSON CORPORATION

(Exact name of Registrant as specified in its charter)

Ohio

(State or other jurisdiction of incorporation) incorporation or organization

28601 Clemens Road Westlake, Ohio

(Address of principal executive offices)

34-0590250

(I.R.S. Employer Identification No.)

44145

(Zip Code)

(440) 892-1580

(Registrant's Telephone Number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of Each Class</u>	<u>Trading Symbol(s)</u>	<u>Name of Each Exchange on which Registered</u>
Common Shares, without par value	NDSN	Nasdaq Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act:

None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the Registrant (1) has 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 the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the Registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act

Indicate by check mark whether the Registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of Common Shares, no par value per share, held by nonaffiliates (based on the closing sale price on the Nasdaq Stock Market) as of **April 28, 2023** **April 30, 2024** was approximately **\$12,317,362,580**, **\$14,758,563,021**.

There were 57,016,026 Common Shares outstanding as of **November 30, 2023** **November 30, 2024**.

Documents incorporated by reference:

Portions of the Definitive Proxy Statement for the 2024 2025 Annual Meeting of Shareholders - Part III of the Form 10-K

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PART I

NOTE REGARDING AMOUNTS AND FISCAL YEAR REFERENCES

In this annual report, all amounts related to United States dollars and foreign currency and to the number of Nordson Corporation's common shares, except for per share earnings and dividend amounts, are expressed in thousands unless otherwise indicated. Unless the context otherwise indicates, all references to "we," "us," "our," or the "Company" mean Nordson Corporation.

Unless otherwise noted, all references to years relate to our fiscal year ending October 31.

Item 1. Business

General Description of Business

Nordson is an innovative precision technology company that leverages a scalable growth framework to deliver top tier growth with leading margins and returns. We engineer, manufacture and market differentiated products and systems used for precision dispensing, applying and controlling of adhesives, coatings, polymers, sealants, biomaterials, and other fluids, to test and inspect for quality, and to treat and cure surfaces and various medical products such as: catheters, cannulas, medical balloons and medical tubing. These products are supported with extensive application expertise and direct global sales and service. We serve a wide variety of consumer non-durable, consumer durable and technology end markets including packaging, electronics, medical, appliances, energy, transportation, precision agriculture, building and construction, and general product assembly and finishing.

Our strategy for long-term growth is based on solving customers' needs globally. We were incorporated in the State of Ohio in 1954 and are headquartered in Westlake, Ohio. Our products are marketed through a network of direct operations in more than 35 countries. Consistent with this global strategy, approximately 6667 percent of our revenues were generated outside the United States in 2023, 2024.

We have 7,900As of October 31, 2024, we had approximately 8,000 employees worldwide. Our principal manufacturing facilities are located in the United States, the People's Republic of China, Germany, Ireland, Israel, Italy, Mexico, the Netherlands and the United Kingdom.

ARAG Acquisition

On August 24, 2023, the Company completed the acquisition of the ARAG Group and its subsidiaries ("ARAG Group" or "ARAG") pursuant to the terms of the Sale and Purchase Agreement, dated as of June 25, 2023, by and among the Company, its Italian subsidiary, Capvis Equity V LP ("Capvis"), DRIP Co-Investment ("DRIP"), and certain individuals (together with Capvis and DRIP, collectively, the "Sellers"). ARAG is a global market and innovation leader in the development, production and supply of precision control systems and smart fluid components for agricultural spraying. ARAG operates as a division of our Industrial Precision Solutions segment. In anticipation of the acquisition, the Company entered into a €760,000 senior unsecured term loan facility with a group of banks in August 2023 (the "364-Day Term Loan Facility"). The all-cash ARAG acquisition of approximately €957,000, net of the repayment of approximately €30,300 of debt of the acquired companies, was funded using borrowings under the 364-Day Term Loan Facility and the Company's revolving credit facility.

Corporate Purpose and Goals

We strive to be a vital, self-renewing, worldwide organization that, within the framework of ethical behavior and enlightened citizenship, grows and produces wealth for our customers, employees, shareholders and communities.

We operate for the purpose of creating balanced, long-term benefits for all of our constituencies.

We focus on long-term growth and returns. Each quarter, we may not produce increased sales, net income, or earnings per share, or exceed the comparative prior year's quarter. When short-term swings occur, we do not intend to alter our foundational objectives in efforts to mitigate the impact of these temporary occurrences.

In 2021, we launched the Ascend strategy, which is designed to deliver top tier revenue growth with leading margins and returns. Ascend is driven by three interconnected pillars: the NBS ("Nordson Business System") Next growth framework; Owner Mindset, our division-led organizational structure; and Winning Teams, our talent strategy. These three pillars are built upon the foundation of what makes Nordson special: our culture and our values.

The NBS Next growth framework, the heart of the Ascend strategy, uses data-based segmentation to identify our greatest opportunities for profitable growth and ensure we are investing our resources **disproportionately** in those areas. Using data in a consistent and disciplined way, leaders across the Company are defining their strategic business priorities.

We drive organic growth by continually introducing new products and technology, providing high levels of customer service and support, capturing rapidly expanding opportunities in emerging geographies and leveraging existing technology into new

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applications. Additional growth comes through the acquisition of companies that have differentiated precision technology-based product portfolios, serve attractive high-growth end-markets applications and have a customer-centric business model. The primary goals of our acquisition strategy are to complement our current capabilities, diversify our business into new industry sectors with new customers and expand the scope of the solutions we can offer to our customers.

We strive to provide genuine customer satisfaction – it is the foundation upon which we continue to build our business.

Complementing our business strategy is the objective to provide opportunities for employee self-fulfillment, growth, security, recognition and equitable compensation. This goal is met through the Human Resources department's facilitation of employee training, leadership training and the creation of on-the-job growth opportunities. The result is a highly qualified and

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professional global team capable of meeting corporate objectives. For more information, see "Human Capital Resources" below.

We recognize the value of employee participation in the planning process. Strategic and operating plans are developed by all divisions, resulting in a sense of ownership and commitment on the part of employees in accomplishing our objectives.

We are an equal opportunity employer.

At Nordson, we have a long and proud history of investing in the communities where we live and work. We are committed to contributing **approximately up to** five percent of domestic pretax earnings to education, human welfare services and other charitable activities, particularly in communities where we have significant operations. Through the Nordson Corporation Foundation, (the "Foundation"), we give back by providing grants to nonprofits in communities where we have facilities employing approximately 100 people. In recent years, we have extended our reach internationally **with** through our 2:1 employee Matching Gifts, as well as community giving programs in **11** ten international locations. In **2022**, we also expanded our Matching Gifts program internationally, which further expands our culture of giving around the world. Since 1989, we have donated more than **\$162 million** **\$173 million** to communities where we live and work. In addition, our employees volunteered more than **109,000** **113,000** hours through our Time 'N Talent and Dollars for Doers programs.

Principal Products and Uses

We are a diversified precision technology company that engineers, manufactures and markets differentiated products and systems used to dispense, apply and control adhesives, coatings, polymers, sealants, biomaterials, medical components, and other fluids, to test and inspect for quality, and to treat and cure surfaces. Our precision technology can be found in manufacturing facilities around the world producing a wide range of goods for consumer durable, consumer non-durable, medical and technology end markets. Equipment ranges from single-use components to manual, stand-alone units for low-volume operations to microprocessor-based automated systems for high-speed, high-volume production lines.

We market our products globally, primarily through a direct sales force, and also through qualified distributors and sales representatives. We have built a worldwide reputation for creativity and expertise in the design and engineering of high-technology application equipment that meets the specific needs of our customers. We create value for our customers by developing solutions that increase uptime, enable faster line speeds and reduce consumption of materials. We serve a broad customer base, both in terms of industries and geographic regions. In **2023**, **2024**, no single customer accounted for ten percent or more of our sales.

The following is a summary of the product lines and markets served by our operating segments:

Industrial Precision Solutions

This segment delivers proprietary dispensing and material processing technology, as well as measurement, inspection and control solutions to diverse end markets. Product line specific solutions reduce material consumption, increase line efficiency and enhance product quality and appearance. Technologies are used for processing polymers, inspection

and measurement of food, tubing and films and dispensing adhesives, coatings, sealants and other materials. This segment primarily serves the consumer durables, non-durables, agriculture and industrial markets.

- **Industrial Coatings** – Automated and manual dispensing products and systems for cold materials, container coating, liquid finishing and powder coating, as well as ultraviolet equipment used primarily in curing and drying operations. Key strategic markets include beverage containers and food cans, electric battery, appliances, automotive, building and construction, composites, electronics and medical.
- **Measurement and Control Solutions** – In-line measurement sensors, gauges and analyzers using near-infrared, laser, X-ray, optical and nucleonic technologies, as well as proprietary algorithms and software. These precision applications ensure quality and reliability within the customers' manufacturing processes. Key strategic markets include consumer non-durable, film extrusion and converting, cable and tubing and energy storage.

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- **Nonwovens** – Dispensing, coating and laminating systems for applying adhesives, lotions, liquids and fibers to disposable products and continuous roll goods. Key strategic markets include adult incontinence products, baby diapers and child-training pants, hygiene products and surgical drapes, gowns, shoe covers and face masks.
- **Packaging** – Automated adhesive dispensing systems used in the rigid packaged goods industries. Key strategic markets include packaging for food and beverage, pharmaceutical and other consumer goods.
- **Polymer Processing** – Components and systems used in the thermoplastic and biopolymer melt stream in extrusion, injection molding, compounding, polymerization and recycling processes. Key strategic markets include flexible packaging, electronics, medical, building and construction, transportation and aerospace, and general consumer goods.

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- **Precision Agriculture** – On August 24, 2023, we acquired ARAG Group, a global market and innovation leader in precision agriculture spraying solutions. Its portfolio consists of three key product families: solutions, including fluid components, such as nozzles, pumps and filters; smart components that measure and control the flow, quantity and location of dispensed fluid; and control systems that provide a greater variety of input and functionality to the customer. This broad product portfolio is supported by differentiated software and data capabilities.
- **Product Assembly** – Dispensing, coating and laminating systems for the assembly of plastic, metal and wood products, for paper and paperboard converting applications and for the manufacturing of continuous roll goods. Key strategic markets include appliances, automotive components, building and construction materials, electronics, furniture, solar energy, and the manufacturing of bags, sacks, books, envelopes and folding cartons.

Medical and Fluid Solutions

This segment includes fluid management components and device solutions for medical, life science, high-tech industrial and other diverse end markets.

- **Medical** – Components used and devices for minimally invasive interventional delivery of medical devices, surgical procedures, including cannulas, catheters and medical balloons. Products also include proprietary single-use plastic components in medical applications, including biopharmaceutical, patient care/surgical and diagnostic systems.
- **Fluid Management** – Precision manual and semi-automated dispensers and highly engineered single-use plastic molded syringes, cartridges, tips and fluid connection components. Products are used within critical medical and industrial production processes and for applying and controlling the flow of adhesives, sealants and lubricants. Key strategic markets include electronics, industrial, medical and animal health.

Atrion Acquisition

On August 21, 2024, Nordson acquired Atrion Corporation, a Delaware corporation ("Atrion"), pursuant to the Agreement and Plan of Merger (the "Merger Agreement"), dated as of May 28, 2024, among Nordson, Alpha Medical Merger Sub, Inc., a Delaware corporation and a wholly owned subsidiary of Nordson ("Merger Sub") and Atrion. Headquartered in Allen, Texas, Atrion is a manufacturer of proprietary medical products and generated approximately \$169 million in annual revenue in 2023. Established in 1944, Atrion supports customers globally through three FDA registered U.S. Food and Drug Administration manufacturing facilities located in the United States. Atrion's portfolio is included in the Company's Medical and Fluid Solutions segment. It consists of three key businesses that we believe will significantly expand Nordson's addressable market in infusion and cardiovascular therapies:

- Halkey Roberts is a leader in infusion fluid delivery solutions, including single-use original equipment manufacturer ("OEM") medical components such as swabable needle free and pressure relief valves.
- Atrion Medical is a leading provider of OEM interventional inflation devices for balloon catheterization, stent deployment and fluid delivery in structural heart, ears, nose and throat and gastrointestinal procedures.
- Quest Medical's highly differentiated myocardial protection devices and single-use consumables deliver real-time precise drug administration during cardiovascular surgery.

Advanced Technology Solutions

This segment integrates our proprietary product technologies into the progressive stages of a customer's production processes, such as surface treatment, precisely controlled dispensing of material and pre- and post-dispense test and inspection to ensure quality. This segment predominantly serves customers in the electronics end markets.

- **Electronics Systems** – Automated dispensing systems for high-speed, accurate application of a broad range of attachment, protection and coating fluids, and related gas plasma treatment systems for cleaning and conditioning surfaces prior to dispense. Key strategic markets include the breadth of the electronics industry manufacturing supply chain that produces semiconductor, printed circuit board assemblies and electronic components.
- **Test and Inspection** – Bond testing and automated optical, acoustic microscopy and x-ray inspection systems used in the semiconductor and printed circuit board industries. Key strategic markets include mobile phones, tablets, personal computers, wearable technology, liquid crystal displays, micro hard drives, microprocessors, printed circuit boards, flexible circuits, micro mechanical systems and semiconductor packaging.

Manufacturing, Raw Materials and Other Resources

Our production operations include machining, molding and assembly. We manufacture specially designed parts and assemble components into finished equipment. Many components are made in standard modules that can be used in more than one product or in combination with other components for a variety of models. We have principal manufacturing operations and

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sources of supply in the United States in Ohio, Georgia, California, Colorado, Connecticut, Illinois, Michigan, Minnesota, Pennsylvania, Rhode Island, Tennessee, Florida, Texas, Alabama and Wisconsin; as well as in the People's Republic of China, Germany, Ireland, India, Israel, Italy, Mexico, the Netherlands and the United Kingdom.

Principal materials used to make our products are metals and plastics, typically in sheets, bar stock, castings, forgings, tubing and pellets. We also purchase many electrical and electronic components, fabricated metal parts, high-pressure fluid hoses, packings, seals and other items integral to our products. Suppliers are competitively selected based on cost, quality and service. Most significant raw materials that we use are available through multiple sources. We purchase most raw materials and other

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components on the open market and rely on third parties to provide certain finished goods. While these items are generally available from multiple sources, the cost of products sold may be affected by changes in the market price of raw materials and tariffs on certain raw materials, particularly imports from China, as well as disruptions in availability of raw materials, components and sourced finished goods.

We monitor and investigate alternative suppliers and materials based on numerous attributes including quality, service, financial stability and price. We currently source raw materials and components from a number of suppliers, but our ongoing efforts to improve service and manage compliance requirements and the cost effectiveness of our products and services may result in a reduction in the number of our suppliers.

Senior operating management supervises an extensive quality control program for our equipment, machinery and systems, and manufacturing processes.

Natural gas, electricity and other fuels are our primary energy sources. However, standby capacity for alternative sources is available if needed.

Over the last year, we have seen We continue to see a stabilization of the global supply chain, and improved lead times. times and lower inflation risk. We enhanced our risk mitigation and sourcing efforts as a result of the COVID-19 pandemic and geopolitical tensions. Logistics flows have improved, and global forwarding rates have returned closer to pre-pandemic levels. levels, except for Asia-origin shipments, which continue to be more volatile. We continue to see moderate rate increases on parcel and domestic trucking activity.

Intellectual Property

We rely on a combination of intellectual property rights, including patents, trademarks, copyrights, trade secrets and contractual provisions to protect our intellectual property. Our worldwide intellectual property portfolio is strengthened through innovation and brand recognition, and our comprehensive approach for protection and enforcement. We enter into confidentiality and intellectual property agreements with our employees that require them to disclose any inventions created in the scope of employment, convey all rights to those inventions to us and restrict the distribution of proprietary information. Risk factors associated with our intellectual property are discussed in Item 1A, "Risk Factors". Factors."

We protect and promote our intellectual property portfolio and take those actions we deem appropriate to enforce our intellectual property rights and to defend our rights to sell our products both domestically and internationally. Although in the aggregate, our global portfolio of more than 2,100 granted and pending patents and more than 1,000 trademarks are valuable assets that are important to our operations, we believe that our competitive advantage is also largely attributable to the technical, marketing and sales competence and capabilities of our employees, rather than on any individual patent or trademark. Therefore, we do not consider the expiration or loss of any single patent, trademark or intellectual property right, to be material to our business as a whole.

Seasonal Variation in Business

Historically, the highest volume of sales occurs in the second half of the fiscal year due in large part to the timing of customers' capital spending programs. Accordingly, fiscal first quarter sales volume is typically the lowest of the year due to timing of customers' capital spending programs and customer holiday shutdowns. However, the COVID-19 pandemic, supply chain disruptions, historic backlog and other unusual events have impacted this historical trend to a degree.

Competitive Conditions

We operate in a competitive global marketplace and compete with many large, well-established and highly competitive manufacturers and service providers. Our business is affected by a range of macroeconomic conditions, including industry capacity changes, global competition and economic conditions in the U.S. and abroad, as well as fluctuations in currency exchange rates. Our equipment is sold in competition with a wide variety of alternative bonding, sealing, finishing, coating, processing, testing, inspecting and fluid control techniques. Potential uses for our equipment include any production processes that require preparation, modification or curing of surfaces; dispensing, application, processing or control of fluids and materials; or testing and inspecting for quality.

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Many factors influence our competitive position, including pricing, product quality and service. We maintain a leadership position in our business segments by delivering high-quality, innovative products and technologies, as well as global service and technical support. Working with customers to understand their processes and developing the application solutions that help them meet their production requirements also contributes to our leadership position. Our worldwide network of direct sales and technical resources also is a competitive advantage.

Compliance with Governmental Regulations

Our global operations are subject to a variety of federal, state, local and international laws, regulations and compliance obligations relating to the manufacturing, designing and servicing of highly complex products and solutions. Examples of such

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regulations include, but are not limited to, import and export controls, data privacy, environmental, product safety, corruption, bribery, employment and labor. To support our policy of compliance in every jurisdiction we do business, we have robust internal controls, quality management systems, and management systems of compliance that govern our internal actions and mitigate our risk of non-compliance. We also have safeguards established to identify non-compliance concerns through internal and external audits and risk assessments, as well as an ethics helpline reporting system. The following describes certain significant regulations that may impact our business. For additional information about the risks associated with these laws and regulations, see Part I, Item 1A, "Risk Factors."

We transact with customers and suppliers in numerous geographies around the world and are required to comply with U.S. and non-U.S. import, export and sanctions laws (collectively "Trade Laws"). We have developed compliance programs and training to prevent violations of Trade Laws, and we regularly monitor and adjust our programs and training to reflect changes in Trade Laws or changes in our business. Geopolitical events may result in changes to Trade Laws that may impact our ability to transact business involving certain countries, certain items or certain counterparties, or may impose additional costs or complexity relating to tariffs, taxes, duties or adjustments to our compliance programs, training, or personnel requirements.

We are also required to comply with increasingly complex and changing laws and regulations enacted to protect business and personal data in the United States and other jurisdictions regarding privacy, data protection and data security, including those related to the collection, storage, use, transmission and protection of personal information and other consumer, customer, vendor or employee data. The risk of data privacy breaches cannot be entirely eliminated, creating risks of fines and penalties. Additionally, privacy and data protection laws and regulations, including with respect to the European Union's General Data Protection Regulation ("GDPR"), and the California Consumer Privacy Act of 2018 ("CCPA"), and the interpretation and enforcement of these and similar laws and regulations, are continuously evolving and there is significant uncertainty with respect to how compliance with these laws and regulations may develop and the costs and complexity of future compliance.

We are also subject to federal, state, local and foreign environmental, safety and health laws and regulations concerning, among other things, emissions to the air, discharges to land and water and the generation, handling, treatment and disposal of hazardous waste and other materials. Under certain of these laws, we can be held strictly liable for hazardous substance contamination of any real property we have ever owned, operated or used as a disposal site or for natural resource damages associated with such contamination. We are also required to maintain various related permits and licenses, many of which require periodic modification and renewal. The operation of manufacturing plants unavoidably entails environmental, safety and health risks, and we could incur material unanticipated costs or liabilities in the future if any of these risks were realized in ways or to an extent that we did not anticipate.

We believe that we operate in compliance, in all material respects, with applicable environmental laws and regulations. Compliance with environmental laws and regulations requires continuing management effort and expenditures. We have incurred, and will continue to incur, costs and capital expenditures to comply with these laws and regulations and to obtain and maintain the necessary permits and licenses. We maintain insurance coverage that may cover certain costs or legal claims related to environmental regulations, and we accrue for estimated environmental liabilities with charges to expense and believe our environmental accrual is adequate to provide for our portion of the costs of all such known environmental liabilities. We believe that the cost of complying with environmental laws and regulations will not have a material effect on our earnings, liquidity or competitive position but cannot assure that material compliance-related costs and expenses may not arise in the future. For example, future adoption of new or amended environmental laws, regulations or requirements or newly discovered contamination or other circumstances could require us to incur costs and expenses that may have a material effect, but cannot be presently anticipated.

We believe that policies, practices and procedures have been properly designed to prevent unreasonable risk of material regulation or compliance obligations arising from our operations. Compliance with federal, state, local and foreign regulation and laws during 2023 2024 had no material effect on our capital expenditures, earnings or competitive position. Based upon consideration of currently available information, we believe liabilities for any such matters will not have a material adverse effect on our financial position, operating results or liquidity, but we cannot guarantee that material liabilities may not arise from regulation and compliance obligations in the future.

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Human Capital Resources

Employee Profile

As of **October 31, 2023** **October 31, 2024**, we had approximately **7,900** full-time and part-time employees, including 115 at our Amherst, Ohio, facility who are represented by a collective bargaining agreement that expires on November 16, 2025. **8,000** employees.

Total Rewards

As part of our compensation philosophy, we believe that we must offer and maintain market competitive total rewards programs for our employees in order to attract and retain superior talent. These programs not only include base wages and

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incentives in support of our pay for performance culture, but also health, welfare and retirement benefits. We focus many programs on employee wellness and have implemented solutions including mental health support access, telemedicine and healthy weight loss programs. We believe that these solutions have helped us successfully manage healthcare and prescription drug costs for our employee population.

In the U.S., we match contributions to a tax-qualified defined contribution retirement savings plan (the "Savings Plan") for all eligible employees, in an amount equal to 50 cents for every dollar contributed by the employee until the employee contributions reach 6% of her or his base compensation. In addition, non-union new hires and re-hires as of July 1, 2021 are eligible for an additional enhanced 401(k) contribution of 3% eligible earnings. All contributions by employees into the Savings Plan are fully vested immediately. Company contributions, both the match and enhanced contribution, have a three-year graded vesting schedule and vest at 33 1/3% each year until fully vested after three years of employment. We also maintain a non-qualified, unfunded and unsecured deferred compensation plan for the benefit of eligible **management employees whose benefits under the Savings Plan are limited by the benefit restrictions of Section 415 of the Internal Revenue Code**. **management**. In addition, non-union employees hired prior to July 1, 2021 are eligible to participate in a Company-sponsored tax-qualified pension plan for U.S.-based employees (the "Salaried Pension Plan"). The Salaried Pension Plan is designed to work together with social security benefits to provide employees with up to 30 years of service retirement income replacement that is approximately 55% of eligible compensation, subject to the Internal Revenue Code maximum monthly benefit. Participants fully vest in the Salaried Pension Plan after five years of service. All eligible union employees hired prior to November 1, 2004 participate in a Company-sponsored tax-qualified pension plan for U.S.-based employees (the "Hourly Pension Plan"). The Hourly Pension Plan provides a multiplier for each year of service to supplement employees' retirement income. We also maintain a supplemental retirement benefit restoration plan ("Excess Defined Benefit Pension Plan"), which is an unfunded, non-qualified plan that is designed to provide retirement benefits to U.S.-based eligible **participants** **officers** hired prior to July 1, 2021, as a replacement for retirement benefits limited by regulations under the Internal Revenue Code.

In 2022, we launched a global recognition program that allows managers and peers to recognize the special achievements of others through both written recognition shared on a company awards feed, as well as monetary recognition that allows a recipient to choose a physical gift, gift card or donate the value of their recognition to charity. We also continue our service award program, which demonstrates appreciation and thanks to longstanding employees with five or more years of service. Service milestones are recognized at each five-year increment by presentation of a digital and/or printed certificate with an invitation to select a recognition award via an online catalog.

Talent

Our key talent philosophy is to develop talent from within and supplement with external hires. This approach has yielded a deep understanding among our employee base of our business, products and customers, while adding new employees and ideas in support of our continuous improvement mindset. Attracting and retaining the best talent relies on our ability to provide a diverse and inclusive workplace, personal and professional growth opportunities, and a rewarding employee experience. We strive to uphold a culture of shared knowledge, appreciation and success. We believe that our average tenure across the globe reflects our positive workplace culture and the strong engagement of our employees. Our talent acquisition team uses internal and external resources to recruit highly skilled and talented workers, and we encourage employee referrals for open positions.

Talent development and succession planning for critical roles is a cornerstone of our talent program. Development plans are created and monitored to ensure progress is made along the established timelines. Development plans also intersect with our mission, particularly as we strive to be responsible to our communities.

One of our core values—Respect for People—reflects the behavior we strive to include in every aspect of the way we conduct business. Our approach encompasses inclusion awareness and skill-building, intentionality with respect to diversity in our hiring and selection process and performance management and succession planning that recognizes the importance of diversity. Nordson's employee resource groups strengthen our commitment to fostering an inclusive, diverse workplace where everyone feels like they belong. Participation in these groups is open to all employees. We regularly reflect on our progress and explore opportunities to improve our inclusion and diversity programs, including at the executive leadership and Board levels.

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Available Information

Our annual report, ("Form 10-K"), quarterly reports ("Form 10-Q") and current reports (Form "8-K") and amendments to those reports filed or furnished with the Securities and Exchange Commission ("SEC") pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 are available free of charge at <https://investors.nordson.com> as soon as

reasonably practical after such material is electronically filed with, or furnished to, the SEC. Copies of these reports may also be obtained free of charge by sending written requests to Corporate Communications, Nordson Corporation, 28601 Clemens Road, Westlake, Ohio 44145. The contents of our website are not incorporated by reference herein and are not deemed to be a part of this **annual** report.

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Item 1A. Risk Factors

In an enterprise as diverse as ours, a wide range of factors could affect future performance. We discuss in this section some of the risk factors that could materially and adversely affect our business, financial condition, value and results of operations. You should consider these risk factors in connection with evaluating the forward-looking statements contained in this annual report because these factors could cause our actual results and financial condition to differ materially from those projected in forward-looking statements. You should not interpret the disclosure of any risk factor to imply that the risk factor has not already materialized. Additional risks factors may exist that are not presently known by the Company or that are currently deemed immaterial may also be present.

Risks Related to Economic Conditions

Changes in United States or international economic conditions, including declines in the industries we serve, could adversely affect the revenue stream and profitability of any of our operations.

In **2023** **2024**, approximately **34.33** percent of our revenue was generated in the United States, while approximately **66.67** percent was generated outside the United States. The COVID-19 pandemic and related preventative and mitigation measures implemented by governments around the world and the conflicts in Europe and the Middle East have **to date** negatively impacted the global economy and created significant volatility and disruption of financial **markets**, **markets**, and may continue to do so in future periods.

A general sustained slowdown in the global economy or in a particular region or industry or an increase in trade tensions with U.S. trading partners could negatively impact our business, financial condition or liquidity. Our largest markets include consumer non-durable, industrial, medical, electronics, consumer durable and automotive. A slowdown in any of these specific end markets could directly affect our revenue stream and profitability.

A portion of our product sales is attributable to industries and markets, such as the electronics, polymer processing, **agriculture**, and metal finishing industries, which historically have been cyclical and sensitive to relative changes in supply and demand and general economic conditions. The demand for our products depends, in part, on the general economic conditions of the industries or national economies of our customers. Downward economic cycles in our customers' industries or **countries** **markets** may reduce sales of some of our products. It is not possible to **accurately** predict **accurately** the factors that will affect demand for our products in the future.

Any significant downturn in the health of the general economy, or any recession, depression or other sustained adverse market event **or conditions**, including inflationary pressures, could have an adverse effect on our revenues and financial performance, resulting in impairment of assets. We cannot predict the strength or duration of any economic slowdown and instability or the timing of any recovery.

Our financial results have been, and could continue to be, significantly impacted by uncertainty in U.S. trade policy, including uncertainty surrounding changes in tariffs, trade agreements or other trade restrictions imposed by the U.S. or other governments.

Our ability to conduct business can be significantly impacted by changes in tariffs, changes or repeals of trade agreements, including the impact of the "United States-Mexico-Canada Agreement" with Mexico and Canada, which replaced the North American Free Trade Agreement, or the imposition of other trade restrictions or retaliatory actions imposed by various governments. **For example, the incoming U.S. presidential administration has proposed to significantly increase tariffs on foreign imports into the United States, particularly from Canada, China and Mexico.** Other effects of these changes, including impacts on the price of raw materials, responsive actions from governments and the opportunity for competitors to establish a presence in markets where we participate, could also have significant impacts on our **financial** results. We cannot predict what further action may be taken with respect to tariffs or trade relations between the U.S. and other governments, and any further changes in U.S. or international trade policy could have an adverse impact on our business. Further, the conflicts in Europe and the Middle East may have significant adverse effects on international trade policy.

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Significant movements in foreign currency exchange rates or change in monetary policy may harm our financial results.

We are exposed to fluctuations in foreign currency exchange rates, particularly with respect to the euro, the yen, the pound sterling and the Chinese yuan. Any significant change in the value of the currencies of the countries in which we do business against the United States dollar could affect our ability to sell products competitively and control our cost structure, which could have a material adverse effect on our business, financial condition and results of operations. For additional detail related to this risk, see Part II, Item 7A, Quantitative and Qualitative Disclosure About Market Risk.

A significant portion of our consolidated revenues in **2023** **2024** were generated in currencies other than the United States dollar, which is our reporting currency. We recognize foreign currency transaction gains and losses arising from our operations in the period incurred. As a result, currency fluctuations between the United States dollar and the currencies in which we do business have caused and may continue to cause foreign currency transaction and translation movements, which historically have been material and could continue to be material. We cannot predict the effects of exchange rate fluctuations upon our future operating results because of the number of currencies involved, the variability of currency exposures and the potential volatility

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of currency exchange rates. We take actions to manage our foreign currency exposure, such as entering into hedging transactions, where applicable, but we cannot assure that our strategies will adequately protect our consolidated operating results from the effects of exchange rate fluctuations. For example, the impact of conflicts in Europe and the Middle East, changes in monetary policies and the effects of the departure of the United Kingdom from the European Union ("Brexit") have caused increased volatility in global currency exchange rates that have resulted in the strengthening of the United States dollar against the foreign currencies in which we conduct business. Future adverse consequences arising from the conflicts in Europe and the Middle East and Brexit may include continued volatility in exchange rates. Any significant fluctuation in exchange rates may be harmful to our financial condition and results of operations. We also face risks arising from the imposition of exchange controls and currency devaluations. Exchange controls may limit our ability to convert foreign currencies into United States dollars or to remit dividends and other payments by our foreign subsidiaries or customers located in or conducting business in a country imposing controls. Currency devaluations diminish the United States dollar value of the currency of the country instituting the devaluation and, if they occur or continue for significant periods, could adversely affect our earnings or cash flow.

Risks Related to Our Business and Operations

Political conditions in and between the United States and foreign countries in which we operate could adversely affect us. our business.

We conduct our manufacturing, sales and distribution operations on a worldwide basis and are subject to risks associated with doing business both within and outside the United States. We expect that international operations and United States export sales will continue to be important to our business for the foreseeable future. Both sales from international operations and export sales are subject to varying degrees of risks inherent in doing business outside the United States. Such risks include, but are not limited to, the following:

- risks of political or economic instability;
- unanticipated or unfavorable circumstances arising from host country laws or regulations;
- threats of war, terrorism or governmental instability, including the conflicts in Europe and the Middle East;
- changes in tax rates, adoption of new tax laws or other additional tax policies, and other proposals to reform United States and foreign tax laws that impact how United States multinational corporations are taxed on foreign earnings;
- restrictions on the transfer of funds into or out of a country;
- potential negative consequences from changes to taxation policies;
- the disruption of operations from labor and political disturbances;
- the imposition of tariffs, import or export licensing requirements and other potential changes in trade policies and relations arising from policy initiatives implemented by the U.S. presidential administration; and
- exchange controls or other trade restrictions including transfer pricing restrictions when products produced in one country are sold to an affiliated entity in another country.

Any of these events could reduce the demand for our products, limit the prices at which we can sell our products, interrupt our supply chain, or otherwise have an adverse effect on our operating performance.

Our international operations also depend upon favorable trade relations between the U.S. and those foreign countries in which our customers, subcontractors and materials suppliers have operations. A protectionist trade environment in either the U.S. or those foreign countries in which we do business, such as a change in the current tariff structures, export compliance or other

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trade policies, may materially and adversely affect our ability to sell our products in foreign markets. The current incoming U.S. presidential administration has criticized existing trade agreements, and while it remains unclear what actions the current or future administration may take with respect to existing and proposed trade agreements, or restrictions on trade generally, more stringent export and import controls may be ultimately imposed in the future.

Failure to retain our existing senior management team or the inability to attract and retain qualified personnel could hurt our business and inhibit our ability to operate and grow successfully.

Our success will continue to depend to a significant extent on the continued service of our executive management team and the ability to recruit, hire and retain other key management personnel, including factory production workers and other staff, to support our growth and operational initiatives and replace those who retire or resign. Failure to retain our leadership team and workforce and to attract and retain other important management and technical personnel could place a constraint on our global

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growth and operational initiatives, possibly resulting in inefficient and ineffective management and operations, which would likely harm our revenues, operations and product development efforts and eventually result in a decrease in profitability.

The Company may be subject to risks relating to organizational changes.

We regularly execute organizational changes such as acquisitions, divestitures and realignments to support our growth and cost management strategies. We also engage in initiatives aimed to increase productivity, efficiencies and cash flow and to reduce costs. The Company commits significant resources to identify, develop and retain key employees to ensure uninterrupted leadership and direction. If we are unable to successfully manage these and other organizational changes, the ability to complete such activities and realize anticipated synergies or cost savings as well as our results of operations and financial condition could be materially adversely affected. We cannot offer assurances that any of these initiatives will be beneficial to the extent anticipated, or that the estimated efficiency improvements, incremental cost savings or cash flow improvements will be realized as anticipated or at all.

Increased information technology threats and more sophisticated cybersecurity incidents and targeted cybercrime threats could pose a risk to our systems, networks, products, solutions and services, and those of our business partners.

We have experienced and expect to continue to experience cyber-attacks cybersecurity threats and some cybersecurity incidents to our systems and networks. To date, we do not believe that any risks from cybersecurity threats, including as a result of past cybersecurity incidents, have not experienced any had, or are reasonably likely to have, a material breaches adverse effect on the company, including our business, strategy, results of operations or material losses related to cyber-attacks. financial condition. To conduct our business, we rely extensively on information technology systems, networks and services, some of which are managed, hosted and provided by third-party service providers. business partners. Increased global information technology security threats, more sophisticated and targeted computer crime and cyberterrorism pose a risk to the security of our systems and networks and those of our third-party service providers and the confidentiality, availability and integrity of our data. Cybersecurity incidents and similar attacks vary in their form and can include the deployment of harmful malware or ransomware, denial-of-services attacks, and other attacks, which may affect business continuity and threaten the availability, confidentiality and integrity of our systems and information. Cybersecurity incidents can also include employee or personnel failures, fraud, phishing or other social engineering attempts or other methods to cause confidential information, payments, account access or access credentials, or other data to be transmitted to an unintended recipient. Cybersecurity threat actors also may attempt to exploit vulnerabilities in software including software commonly used by companies in cloud-based services and bundled software. Depending on their nature and scope, such threats could potentially lead to the compromising of confidential information, including but not limited to confidential information relating to customer or employee data, improper use of our systems and networks, manipulation and destruction of data, defective products, production downtimes and operational disruptions, which in turn could adversely affect our reputation, competitiveness and results of operations. A cyber-attack cybersecurity incident or other failure or disruption relating to our information or systems or that of our third-party business partners, or any failure by us or our third-party business partners to effectively address, enforce and maintain our information technology infrastructure and cybersecurity requirements may also result in substantial harm to our business strategy, results of operations and financial condition, including major disruptions to business operations, loss including potential fines for failure to safeguard of intellectual property, release of confidential information, alteration or corruption of data or losses in connection with any systems, costs related to remediation or the payment of ransom, and litigation that may result from a cyber-attack. Our insurance coverage may not be adequate to cover all the including individual claims or consumer class actions, commercial litigation, administrative, and civil or criminal investigations or actions, regulatory intervention and sanctions or fines, investigation and remediation costs arising from such events, and possible prolonged negative publicity.

We have taken steps and incurred costs to further strengthen the security of our computer systems and continue to assess, maintain and enhance the ongoing effectiveness of our information security systems. While we attempt to mitigate these risks by employing a number of measures, including employee training, comprehensive monitoring of our networks and systems, and maintenance of backup and protective systems, our systems, networks, products, solutions and services remain potentially vulnerable to advanced persistent threats. The techniques used by criminals to obtain unauthorized access to sensitive data change frequently and often are not recognizable until launched against a target. Accordingly, we may be unable to anticipate

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these techniques or implement adequate preventative measures. It is therefore possible that in the future we may suffer a criminal attack, unauthorized parties may gain access to personal information in our possession and we may not be able to identify any such incident in a timely manner.

The interpretation and application of data protection laws, including federal, state and international laws, relating to the collection, use, retention, disclosure, security and transfer of personally identifiable data in the U.S., Europe and elsewhere (including but not limited to the European Union's GDPR and the CCPA), are uncertain and evolving. It is possible that these laws may be interpreted and applied in a manner that is inconsistent with our data practices. In addition, as a result of existing or new data protection requirements, we incur and expect to continue to incur significant ongoing operating costs as part of our significant efforts to protect and safeguard our sensitive data and personal information. These efforts also may divert management and employee attention from other business and growth initiatives. A breach in information privacy could result in legal or reputational risks and could have a negative impact on our revenues and results of operations.

We may face particular data protection and privacy risks in connection with the European Union's Global Data Protection Regulation, the California Consumer Privacy Act and other privacy laws and regulations.

The interpretation and application of data protection laws and other regulations, including federal, state and international laws, relating to the collection, use, retention, disclosure, security and transfer of personal information in the U.S., Europe and elsewhere (including but not limited to the European Union's GDPR and the CCPA), are uncertain and evolving. These laws and regulations may grant, among other things, individual rights to access and delete personal information, and the right to opt out of the sale of personal information. These laws and regulations can also impose significant forfeitures and penalties for noncompliance and afford private rights of action to individuals under certain circumstances. It is possible that these laws may be interpreted and applied in a manner that is inconsistent with our data practices. In addition, as a result of existing or new data protection laws and regulations, we incur and expect to continue to incur significant ongoing operating costs as part of our significant efforts to protect and safeguard our confidential or sensitive data and personal information. These efforts also may divert management and employee attention from other business and growth initiatives. A breach in information privacy could result in legal or reputational risks and could have a negative impact on our revenues and results of operations. Any failure to manage data privacy in compliance with applicable laws and regulations could result in significant regulatory investigations, fines, and sanctions, consumer and class action litigation, commercial litigation, prolonged negative publicity, data breaches, declining customer confidence, loss of key customers, employee liability and other unfavorable consequences.

A disruption in, shortage of, or price increases for, supply of our components and raw materials may adversely impact our business, financial condition, results of operations and cash flows.

While we manufacture certain parts and components used in our products, we require substantial amounts of raw materials and purchase some parts and components from suppliers. The availability and prices for raw materials, parts and components may be subject to curtailment or change due to, among other things, suppliers' allocation to other purchasers, interruptions in production by suppliers and changes in exchange rates and prevailing price levels, including as a result of inflation, inflation or the imposition of tariffs, import or export licensing requirements and other potential changes in trade policies. The conflicts in Europe and the Middle East have negatively impacted, and may continue to negatively impact, the availability and prices for raw materials, parts and components. While we generally attempt to pass along higher raw material, part and component costs to our customers in the form of price increases, there historically has been a delay between an increase in our raw material costs and our ability to increase the prices of our products. Additionally, we may not be able to increase the prices of our products due to competitive pricing pressure and other factors. Shortages in raw materials or our inability to pass along

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price increases could affect the prices we charge, our operating costs and our competitive position, which could adversely affect our business, financial condition, results of operations and cash flows.

In addition, our facilities, supply chains, distribution systems and products may be impacted by natural or man-made disruptions, including armed conflict, demand surges, damaging weather or other acts of nature (including weather or other acts of nature caused by climate change), pandemics or other public health crises. A shutdown of, or inability to utilize, one or more of our facilities, our supply chain, or our distribution system could significantly disrupt our operations, delay production and shipments, impact our relationships and reputation with customers, suppliers, employees and others, result in lost or decreased sales, or result in legal exposure and large remediation or other expenses, which could adversely affect our business, financial condition, results of operations and cash flows.

If our intellectual property protection is inadequate, others may be able to use our technologies and tradenames and thereby reduce our ability to compete, which could have a material adverse effect on us, our business, financial condition and results of operations.

We regard much of the technology underlying our products and the trademarks under which we market our products as proprietary. The steps we take to protect our proprietary technology may be inadequate to prevent misappropriation of our technology, or third parties may independently develop similar technology. We rely on a combination of patents, trademark,

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copyright and trade secret laws, employee and third-party non-disclosure agreements and other contracts to establish and protect our technology and other intellectual property rights. The agreements may be breached or terminated, and we may not have adequate remedies for any breach, and existing trade secrets, patent and copyright law afford us limited protection. Policing unauthorized use of our intellectual property is difficult. A third party could copy or otherwise obtain and use our products or technology without authorization. Litigation may be necessary for us to defend against claims of infringement or to protect our intellectual property rights and could result in substantial cost to us and diversion of our efforts. Further, we might not prevail in such litigation, which could harm our business.

Our products could infringe on the intellectual property of others, which may cause us to engage in costly litigation and, if we are not successful, could cause us to pay substantial damages and prohibit us from selling our products.

Third parties may assert infringement or other intellectual property claims against us based on their patents or other intellectual property claims, and we may have to pay substantial damages, possibly including treble damages, if it is ultimately determined our products infringe. We may have to obtain a license to sell our products if it is determined that our products infringe upon another party's intellectual property. We might be prohibited from selling our products before we obtain a license, which, if available at all, may require us to pay substantial royalties. Even if infringement claims against us are without merit, defending these types of lawsuits takes significant time, may be expensive and may divert management attention from other business concerns.

Risks Related to the Execution of Our Strategy

We continually assess the strategic fit of our existing businesses and may divest or otherwise dispose of businesses that are deemed not to fit with our strategic plan or are not achieving the desired return on investment, and we cannot be certain that our business, operating results and financial condition will not be materially and adversely affected.

A successful divestiture depends on various factors, including reaching an agreement with potential buyers on terms we deem attractive, as well as our ability to effectively transfer liabilities, contracts, facilities, and employees to any purchaser, identify and separate the intellectual property to be divested from the intellectual property that we wish to retain, reduce fixed costs previously associated with the divested assets or business, and collect the proceeds from any divestitures. These efforts require varying levels of management resources, which may divert our attention from other business operations. If we do not realize the expected benefits of any divestiture transaction, our consolidated financial position, results of operations and cash flows could be negatively impacted. In addition, divestitures of businesses involve a number of risks, including significant costs and expenses, the loss of customer relationships and a decrease in revenues and earnings associated with the divested business. Furthermore, divestitures potentially involve significant post-closing separation activities, which could involve the expenditure of material financial resources and significant employee resources. Any divestiture may result in a dilutive impact to our future earnings if we are unable to offset the dilutive impact from the loss of revenue associated with the divestiture, as well as significant write-offs, including those related to goodwill and other intangible assets, which could have a material adverse effect on our results of operations and financial condition.

If we fail to develop new products or enhance existing products, or our customers do not accept the new or enhanced products we develop, our revenue, financial condition, results of operations, cash flows and profitability, liquidity could be adversely impacted, affected.

Innovation is critical to our success. We believe that we must continue to enhance our existing products and to develop and manufacture new products with improved capabilities in order to continue to be a leading provider of precision technology solutions. We also believe that we must continue to make improvements in our productivity in order to maintain our

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competitive position. Difficulties or delays in research, development or production of new or enhanced products or failure to gain market acceptance of new or enhanced products and technologies may reduce future sales and adversely affect our competitive position. We continue to invest in the development and marketing of new or enhanced products. There can be no assurance that we will have sufficient resources to make such investments, that we will be able to make the technological advances necessary to maintain competitive advantages or that we can recover major research and development expenses. If we fail to make innovations, launch products with quality problems or the market does not accept our new products, our financial condition, results of operations, cash flows and liquidity could be adversely affected. In addition, as new or enhanced products are introduced, we must successfully manage the transition from older products to minimize disruption in customers' ordering patterns, avoid excessive levels of older product inventories and ensure that we can deliver sufficient supplies of new products to meet customers' demands.

Our growth strategy includes acquisitions, and we may not be able to execute on our acquisition strategy or integrate acquisitions successfully.

Our recent historical growth has depended, and our future growth is likely to continue to depend, in part on our acquisition strategy and the successful integration of acquired businesses into our existing operations. For example, in August 2023, 2024, we completed our acquisition of **the ARAG Group, Atrion**. We intend to continue to seek additional acquisition opportunities both to expand into new

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markets and to enhance our position in existing markets throughout the world. We cannot assure we will be able to successfully identify suitable acquisition opportunities, prevail against competing potential acquirers, negotiate appropriate acquisition terms, obtain financing that may be needed to consummate such acquisitions, complete proposed acquisitions, successfully integrate acquired businesses into our existing operations or expand into new markets. In addition, we cannot assure that any acquisition, including the recent acquisitions of **Atrion, the ARAG Group ("ARAG")** and **CyberOptics Corporation ("CyberOptics")**, once successfully integrated, will perform as planned, be accretive to earnings, or prove to be beneficial to our operations and cash flow.

The success of our acquisition strategy is subject to other risks and uncertainties, including:

- our ability to realize operating efficiencies, synergies or other benefits expected from an acquisition and possible delays in realizing the benefits of the acquired company or products;
- diversion of management's time and attention from other business concerns;
- difficulties in retaining key employees, customers or suppliers of the acquired business;
- difficulties in maintaining uniform standards, controls, procedures and policies throughout acquired companies;
- adverse effects on existing business relationships with suppliers or customers;
- the risks associated with the assumption of product liabilities or contingent or undisclosed liabilities of acquisition targets; and
- the ability to generate future cash flows or the availability of financing.

In addition, an acquisition could adversely impact our operating performance as a result of incurring acquisition-related debt, pre-acquisition potential tax or other liabilities, acquisition expenses, the amortization of acquisition-acquired assets or possible future impairments of goodwill or intangible assets associated with the acquisition.

We may also face liability with respect to acquired businesses for violations of environmental laws occurring prior to the date of our acquisition, and some or all of these liabilities may not be covered by environmental insurance secured to mitigate the risk or by indemnification from the sellers from which we acquired these businesses. We could also incur significant costs, including, but not limited to, remediation costs, natural resources damages, civil or criminal fines and sanctions and third-party claims, as a result of past or future violations of, or liabilities, associated with environmental laws.

Any impairment in the value of our intangible assets, including goodwill, would negatively affect our operating results and total capitalization.

Our total assets reflect substantial intangible assets, primarily goodwill. The goodwill results from our acquisitions and represents the excess of cost over the fair value of the identifiable net assets we acquired. We assess at least annually whether there has been any impairment in the value of our intangible assets. If future operating performance at one or more of our business units were to fall significantly below current levels, if competing or alternative technologies emerge, if market conditions for acquired businesses decline, if significant and prolonged negative industry or economic trends exist, if our stock price and market capitalization declines, or if future cash flow estimates decline, we could incur, under current applicable accounting rules, a non-cash charge to operating earnings for goodwill impairment. Any In addition, any determination requiring the write-off of a significant portion of unamortized intangible assets would negatively affect our results of operations and equity book value, the effect of which could be material.

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Risks Related to Legal, Compliance and Regulatory Matters

Changes in United States and international tax laws may have a material adverse effect on our business, financial condition and results of operations.

We are subject to income taxes in the United States and various foreign jurisdictions. Changes in applicable domestic or foreign tax laws and regulations, or their interpretation and application, including the possibility of retroactive effect, could affect our business, financial condition and profitability by increasing our tax liabilities. Our future results of operations could be adversely affected by changes in our effective tax rate as a result of a change in the mix of earnings in jurisdictions with differing statutory tax rates, changes in our overall profitability, changes in tax legislation and rates, changes in generally accepted accounting principles and changes in the valuation of deferred tax assets and liabilities. The U.S. federal government may adopt changes to international trade agreements, tariffs, taxes and other government rules and regulations. While we cannot predict what changes will actually occur with respect to any of these items, such changes could affect our business and results of operations.

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We may be exposed to liabilities under the Foreign Corrupt Practices Act ("FCPA"), which could have a material adverse effect on our business, business, reputation, financial condition or results of operations.

We are subject to compliance with various laws and regulations, including the FCPA, UK Bribery Act and similar worldwide anti-bribery and anti-corruption laws, which generally prohibit companies and their intermediaries from engaging in bribery or making other improper payments to private or public parties for the purpose of obtaining or retaining business or gaining an unfair business advantage. The FCPA also requires proper record keeping and characterization of such payments in our reports filed with the SEC. Our employees are trained and required to comply with these laws, and we are committed to legal compliance and corporate ethics. Violations of these laws could result in severe criminal or civil sanctions and financial penalties and other consequences that may have a material adverse effect on our business, reputation, financial condition or results of operations.

The level of returns on pension plan assets, changes in the actuarial assumptions used and management of pension liabilities could adversely affect us.

Our operating results may be positively or negatively impacted by the amount of expense we record for our defined benefit pension plans. U.S. GAAP requires that we calculate pension expense using actuarial valuations, which are dependent upon our various assumptions, including estimates of expected long-term rate of return on plan assets, discount rates for future payment obligations, and the expected rate of increase in future compensation levels. Our pension expense and funding requirements may also be affected by our actual return on plan assets and by legislation and other government regulatory actions. Changes in assumptions, laws or regulations and how the Company manages pension liabilities could lead to variability in financial results and could have a material adverse impact on liquidity.

Our global operations are subject to increasingly complex environmental regulatory requirements, and compliance with evolving environmental regulatory requirements could negatively impact our business, capital expenditures, results of operations, financial condition and competitive position.

We are subject to increasingly complex environmental regulations affecting international manufacturers, including those related to air and water emissions, waste management and climate change. Some environmental laws impose strict, retroactive and joint and several liability for the remediation of the release of hazardous substances, even for conduct that was lawful at the time it occurred, or for the conduct of or conditions caused by prior operators, predecessors or third parties. Failure to comply with environmental laws could expose us to penalties or clean-up costs, civil or criminal liability and sanctions on certain of our activities, as well as damage to property or natural resources. These liabilities, sanctions, damages and remediation efforts related to any non-compliance with such laws and regulations could negatively impact our ability to conduct our operations and our financial condition and results of operations. In addition, there can be no assurances that we will not be adversely affected by costs, liabilities or claims with respect to existing or subsequently acquired operations or under present laws and regulations or those that may be adopted or imposed in the future.

Changes in environmental laws or regulations could result in higher expenses and payments, and uncertainty relating to environmental laws or regulations may also affect how we conduct our operations and structure our investments and could limit our ability to enforce our rights. Changes in environmental and climate change laws or regulations, including laws relating to greenhouse gas emissions, could subject us to additional costs and restrictions, including increased energy and raw material costs. If environmental laws or regulations are either changed or adopted and impose significant operational restrictions and compliance requirements upon us or our products, they could negatively impact our business, capital expenditures, results of operations, financial condition and competitive position.

It is our policy to apply strict standards for environmental protection to all of our operations within and outside of the United States, even when we are not subject to local government regulations. We may incur substantial costs, including cleanup costs.

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fines and civil or criminal sanctions, liabilities resulting from third-party property damage or personal injury claims, or our products could be prohibited from entering certain jurisdictions, if we were to violate or become liable under environmental laws, if our products become non-compliant with environmental laws or if we were to undertake environmental protection actions voluntarily.

Expectations relating to environmental, social and governance ("ESG") considerations expose us to potential liabilities, increased costs, reputational harm and other adverse effects on our business.

Many governments, regulators, investors, employees, customers and other stakeholders are increasingly focused on environmental, social and governance ESG considerations relating to businesses, including climate change and greenhouse gas emissions, human capital and diversity, equity and inclusion. We make statements about our environmental, social and governance ESG goals and initiatives through information provided on our website, press statements and other communications, including through our ESG Report.

Responding to these environmental, social and governance ESG considerations and implementation of these goals and initiatives involves risks and uncertainties, requires investments and are impacted by factors that may be outside our control. In addition, some stakeholders may disagree with our goals and initiatives and the focus of

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stakeholders may change and evolve over time. Stakeholders also may have very different views on where environmental, social and governance ESG focus should be placed, including differing views of regulators in various jurisdictions in which we operate. Any failure, or perceived failure, by us to achieve our goals, further our initiatives, adhere to our public statements, comply with federal, state or international environmental, social and governance ESG laws and regulations, or meet evolving and varied stakeholder expectations and standards could result in legal and regulatory proceedings against us and materially adversely affect our business, reputation, results of operations, financial condition and stock price.

Risks Related to Our Capital Structure

Our inability to comply with the restrictive covenants included in the agreements governing our debt or to access additional sources of capital could impede our growth or the repayment or refinancing of existing debt.

The limits imposed on us by the restrictive covenants contained in the agreement governing our debt could prevent us from making acquisitions or cause us to lose access to these facilities.

The agreements governing our existing debt contain restrictive covenants that limit our ability to, among other things:

- borrow money or guarantee the debts of others;
- use assets as security in other transactions;
- make restricted payments or distributions; and
- sell or acquire assets or merge with or into other companies.

In addition, our credit facilities require us to meet certain financial ratios, including a "Leverage Ratio" and an "Interest Coverage Ratio," both as defined in the credit facilities.

These restrictions could limit our ability to plan for or react to market conditions or meet extraordinary capital needs and could otherwise restrict our financing activities.

Our ability to comply with the covenants and other terms of the agreement agreements governing our debt will depend on our future operating performance. If we fail to comply with such covenants and terms, we may be in default and the maturity of the related debt could be accelerated and become immediately due and payable. We may be required to obtain waivers from our lenders in order to maintain compliance under our credit facilities, including waivers with respect to our compliance with certain financial covenants. If we are unable to obtain necessary waivers and the debt under our credit facilities is accelerated, we would be required to obtain replacement financing at prevailing market rates.

We may need to obtain new or additional financing in the future to expand our business or refinance existing debt. If we are unable to access capital on satisfactory terms and conditions, we may not be able to expand our business or meet our payment requirements under our existing debt. Our ability to obtain new or additional financing will depend on a variety of factors, many of which are beyond our control. We may not be able to obtain new or additional financing because we have substantial debt or because we may not have sufficient cash flow to service or repay our existing or future debt. In addition, depending on market conditions and our financial performance, neither debt nor equity financing may be available on satisfactory terms or at all. Finally, as a consequence of worsening financial market conditions worsen, our credit facility providers may not provide the agreed credit if they become undercapitalized.

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Changes in interest rates could adversely affect us.

Any period of interest rate increases may adversely affect our profitability. As of October 31, 2023 October 31, 2024, we had \$1,749,305 \$2,223,928 of total debt outstanding, of which \$553,020 \$538,286 was priced at interest rates that float with the market. As of October 31, 2024, a one percentage point increase in the interest rate on the floating rate debt in 2023 would have resulted in approximately \$5,530 \$5,383 of additional annual interest expense. A higher level of floating rate debt would increase the exposure to changes in interest rates. For additional detail related to this risk, see Part II, Item 7A, Quantitative and Qualitative Disclosures About Market Risk.

General Risk Factors

The insurance that we maintain may not fully cover all potential exposures.

We maintain property, business interruption and casualty insurance but such insurance may not cover all risks associated with the hazards of our business and is subject to limitations, including deductibles and maximum liabilities covered. We are potentially at risk if one or more of our insurance carriers fail or deny our claims. Additionally, severe disruptions in the domestic and global financial markets could adversely impact the ratings and survival of some insurers. In the future, we may not be able to obtain coverage at current levels, and our premiums may increase significantly on coverage that we maintain.

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Our business, financial condition and operating results of operations may be adversely affected by natural disasters or other catastrophic events beyond our control.

While we have taken precautions to prevent production and service interruptions at our global facilities, severe weather conditions, including any that may be caused by global climate change, such as hurricanes or tornadoes, as well as major earthquakes, wildfires and other natural disasters in areas in which we have manufacturing facilities or from which we obtain products may cause physical damage to our properties, closure of one or more of our manufacturing or distribution facilities, lack of an adequate work force in a market, temporary disruption in the supply of inventory, disruption in the transport of products and utilities, and delays in the delivery of products to our customers. Any of these factors may disrupt our operations and adversely affect our business, financial condition and results of operations.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Not applicable. Cybersecurity Risk Management and Strategy.

Nordson Corporation manages cybersecurity risks by implementing processes for assessment, identification, and mitigation of cybersecurity threats. Nordson's cybersecurity program is designed to align with the National Institute of Standards and Technology ("NIST") Cybersecurity Framework, enabling us to develop policies regarding information access, asset protection and personal data security. However, this does not mean that we meet any particular technical standards, specifications or requirements, but rather that we use the NIST Cybersecurity Framework as a guide to help us identify, assess and manage cybersecurity risks and threats relevant to our business. We strive to protect our information assets through key cybersecurity measures, such as the implementation of multifactor authentication and advanced malware defenses, and we collaborate with internal stakeholders to establish layered cybersecurity defenses and restricted access based on business needs. We conduct regular continuous education sessions for our employees on cybersecurity awareness, including confidential information protection and simulated phishing attacks.

We engage with experts to assist with regular third-party penetration testing to evaluate our program against industry standards. We also have standing engagements with incident response experts and external counsel to enhance our cybersecurity resilience. We frequently collaborate with cybersecurity experts to share insights on threats, best practices and emerging trends.

Our cybersecurity risk management is a critical component of our comprehensive business continuity and enterprise risk management programs. Our information security team regularly collaborates with cross-functional subject matter experts and leaders to assess and enhance our cybersecurity risk posture and preparedness. Management employs the following defense mechanisms throughout the enterprise: employee training program to increase cybersecurity awareness, vulnerability management to identify and address potential weaknesses, multifactor authentication for secure access, tabletop exercises to simulate and prepare for potential incidents, and evaluation of third-party service providers, business partners and cloud suppliers, including through assessments of their cybersecurity practices prior to service utilization.

To date, management has not identified any risks from cybersecurity threats, including as a result of previous cybersecurity incidents, that have materially affected or are reasonably likely to materially affect Nordson Corporation, including its business strategy, results of operations or financial condition. See "Item 1A. Risk Factors, Increased information technology threats and cybersecurity incidents and threats could pose a risk to our systems, networks, products, solutions and services and those of our business partners." above for more information. While we are committed to safeguarding our information and the proprietary and confidential information they contain, we note that no security measures can guarantee complete protection against cybersecurity incidents.

Governance

The Board of Directors, as a whole, has overarching responsibility for overseeing our strategic and operational risks. The Audit Committee specifically monitors risk management, including cybersecurity threats. Management, led by the Vice President, Information Systems and Technology, regularly reports to the Board of Directors, primarily through the Audit Committee, providing an annual report on specific risks, mitigation efforts, and a review of Nordson's cybersecurity maturity.

Management is responsible for day-to-day assessment and management of cybersecurity threats and risks. Nordson's Senior Director of Security and Compliance, primarily leads these efforts. The Vice President, Information Systems and Technology is responsible for oversight of Nordson's entire global IT operations, including the cybersecurity program and brings more than 25 years of experience and leadership across various information technology engineering, business and management roles, including direct oversight of strategic direction, program execution and operational excellence of technology initiatives.

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The Senior Director of Security and Compliance assesses cybersecurity readiness using a variety of tools, including internal assessment tools as well as third-party control tests, vulnerability assessments, audits and evaluation against industry standards. Our security and compliance organization elevates issues relating to cybersecurity to our Chief Executive Officer and Board of Directors, such as potential threats or vulnerabilities. We also seek to prevent, detect, mitigate and remediate cybersecurity incidents by employing various defensive and continuous monitoring techniques using recognized industry frameworks and cybersecurity standards.

Our Vice President, Information Systems and Technology meets regularly with the Audit Committee to review our information technology systems and discuss key cybersecurity risks. Additionally, the Director, Internal Audit and Chief Financial Officer presents an overview of our global enterprise risk management program, including cybersecurity risks, to the Audit Committee, which is subsequently reported to the Board of Directors.

Item 2. Properties

Our principal owned and leased properties (defined as greater than 20,000 square feet or related to a principal operation) as of **October 31, 2023** **October 31, 2024** were as follows:

Location	Description of Property	Approximate Square Feet
United States		
Amherst, Ohio 1	A manufacturing, laboratory and office complex	521,000
Norwich, Connecticut 2	A manufacturing, laboratory and office building	212,000
Carlsbad, California 3	Three manufacturing and office buildings (leased)	181,000
Duluth, Georgia 1	A manufacturing, laboratory and office building	176,000
St. Petersburg, Florida 2	A manufacturing, warehouse and office building	156,000
Chippewa Falls, Wisconsin 1	A manufacturing, warehouse and office building (leased)	145,000
Swainsboro, Georgia 1	A manufacturing building	136,000
Arab, Alabama 2	A manufacturing building	116,000
East Providence, Rhode Island 2	A manufacturing, warehouse and office building	116,000
Loveland, Colorado 2	A manufacturing, warehouse and office building	115,000
Allen, Texas 2	A manufacturing, warehouse and office building	106,000
Salem, New Hampshire 2	Two manufacturing, warehouse and office buildings (leased)	83,000
Minneapolis, Minnesota 2	Two office, laboratory and warehouse buildings (leased)	69,000
Wixom, Michigan 1	A manufacturing, warehouse and office building (leased)	64,000
Golden Valley, Minnesota 3	An A manufacturing and office building	61,000
Irwindale, California 1	An office building and lab (leased)	48,000
Easton, Pennsylvania 3,2	A manufacturing, warehouse and office building	45,000 46,000
Dayton, Ohio 1	A manufacturing, warehouse and office building	43,000
Vista, California 3	A manufacturing building (leased)	41,000
Hickory, North Carolina 1	A manufacturing, warehouse and office building (leased)	41,000
Elk Grove, Illinois 3	A manufacturing, warehouse and office building (leased)	40,000
San Jose, CA California 2	A manufacturing, warehouse and office building (leased)	37,000
Brooklyn Park, Minnesota 2	An office, laboratory and warehouse building (leased)	34,000
Westlake, Ohio	Corporate headquarters	28,000
Liberty Lake, Washington	Lithia Springs, A warehouse and office building (leased)	
Georgia 3,1		27,000
Chattanooga, Tennessee 2	A manufacturing, warehouse and office building (leased)	27,000
Chattanooga, Tennessee 2	A manufacturing, warehouse and office building (leased)	25,000
Huntington Beach, California 2	An office, laboratory and warehouse building (leased)	21,000
International		
Erkrath, Germany 1,2	An office, laboratory and warehouse building (leased)	324,000
Rubiera, Italy 1	A manufacturing, five assembly, four warehouse and office buildings	325,000
Shanghai, China 1	Three manufacturing, warehouse, laboratory and office buildings	179,000
Münster, Germany 1	Two manufacturing, warehouse and office buildings (leased)	260,000 150,000
Shanghai, China 1	Seven manufacturing, warehouse, laboratory and office buildings	178,000
Lüneburg, Germany 1	A manufacturing and laboratory building	129,000
Guaymas, Mexico 2	Two manufacturing, warehouse and office buildings (leased)	89,000
Tokyo, Japan 1,2	Four office, laboratory and warehouse buildings (leased)	76,000
Suzhou, China 3	Two manufacturing, warehouse and office buildings (leased)	75,000
Tecate, Mexico 2	A manufacturing, warehouse and office building (leased)	59,000
Bangalore, India 1,2,3	A manufacturing, assembly, warehouse and office building	56,000
Rosario, Argentina 1	An assembly, warehouse and office building	55,000
Shanghai, China 1	Three manufacturing, warehouse, laboratory and office buildings (leased)	55,000
Maastricht, Netherlands 1	A manufacturing, warehouse and office building	54,000

Erkrath, Germany	Boyle, Ireland ^{1,2}	A manufacturing, warehouse and office building	47,000
Aylesbury, U.K. ³		A manufacturing, warehouse and office building (leased)	36,000
Galway, Ireland ²		An office, laboratory and warehouse building (leased)	50,000
Boyle, Ireland ²		A manufacturing, warehouse and office building	47,000
Deurne, Netherlands ¹		A manufacturing, warehouse and office building (leased)	46,000
Aylesbury, U.K. ³		A manufacturing, warehouse and office building (leased)	36,000
Galway, Ireland ²		An office, laboratory and warehouse building (leased)	36,000
Seongnam-City, South Korea ^{1, 2}		An office, laboratory and warehouse building (leased)	35,000
Saitama, Japan ¹		A manufacturing, warehouse, and office building (leased)	32,000
Geleen, Netherlands ¹		A warehouse and office building	30,000
Sao Paulo, Brazil ¹		An office, laboratory and warehouse building (leased)	23,000
El Marques, Mexico ¹		A warehouse and office building	22,000
Singapore ¹		Two warehouse and office buildings (leased)	22,000
Katzrin, Israel ²		An office, laboratory and warehouse building (leased)	20,000

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Business Segment - Property Identification Legend

1 - Industrial Precision Solutions

2 - Medical and Fluid Systems Solutions

3 - Advanced Technology Solutions

The facilities listed have adequate, suitable and sufficient capacity (production and non-production) to meet present and foreseeable demand for our products.

Other properties at international subsidiary locations and at branch locations within the United States are leased. Lease terms do not exceed 25 years and generally contain a provision for cancellation with some penalty at an earlier date. Information about leases is reported in Note **10** 9 of Notes to Consolidated Financial Statements that can be found in Part II, Item 8 of this document.

Item 3. Legal Proceedings

None.

Item 4. Mine Safety Disclosures

Not applicable.

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Information About Our Executive Officers

Our executive officers as of **October 31, 2023** **October 31, 2024**, were as follows:

Name	Name	Age	Officer (5) Year Since	Position or Office with the Company and Business Experience During the Past Five	Name	Age	Officer Since	Position or Office with the Company and Business Experience During the Past Five (5) Year Period	
								Position or Office with the Company and Business Experience During the Past Five (5) Year Period	
Sundaram Nagarajan	Sundaram Nagarajan	61	2019	President and Chief Executive Officer, 2019					
Stephen Shamrock		51	2023	Vice President and Corporate Controller, Interim Chief Financial Officer, 2023					
Sundaram Nagarajan					Daniel R. Hopgood	62	2019	President and Chief Executive Officer	
Daniel R. Hopgood						52	2024	Executive Vice President, Chief Financial Officer	
James E. DeVries									
James E. DeVries	James E. DeVries	64	2012	Executive Vice President, 2012		65	2012	Executive Vice President	
Stephen P. Lovass	Stephen P. Lovass	54	2017	Executive Vice President, 2017	Stephen P. Lovass	55	2017	Executive Vice President	
Jennifer McDonough	Jennifer McDonough	52	2021	Executive Vice President, General Counsel and Secretary, 2021	Jennifer McDonough	53	2021	Executive Vice President, General Counsel and Secretary	
Joseph P. Kelley	Joseph P. Kelley	51	2020	Executive Vice President, 2020	Joseph P. Kelley	52	2020	Executive Vice President	
Sarah Siddiqui	Sarah Siddiqui	46	2023	Executive Vice President, 2023	Sarah Siddiqui	47	2023	Executive Vice President	

Srinivas Subramanian	Srinivas Subramanian	53	2022	Executive Vice President, 2022	Srinivas Subramanian	54	2022	Executive Vice President
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Effective August 1, 2019, Sundaram Nagarajan was appointed President and Chief Executive Officer and as a member of the Board of Directors of the Company. Prior to becoming our President and Chief Executive Officer, Mr. Nagarajan served as Executive Vice President, Automotive OEM Segment, with Illinois Tool Works Inc. (NYSE: ITW), a global manufacturer of a diversified range of industrial products and equipment, since 2015. Prior to that, Mr. Nagarajan served as Executive Vice President, Welding Segment, with Illinois Tool Works Inc. from 2010 to 2015. Mr. Nagarajan joined the Board of Directors of Wesco International, Inc. (NYSE: WCC) in 2022. He previously served as a member of the Board of Directors of Sonoco Products Company (NYSE: SON) from 2015 to 2022.

Effective November 1, 2023 May 20, 2024, Stephen Shamrock Daniel R. Hopgood was appointed as Executive Vice President and Corporate Controller, Interim Chief Financial Officer. Prior to joining Nordson, in March 2022, Mr. Shamrock Hopgood was Senior Vice President, Treasurer Controller and Chief Financial Accounting Officer from October 2021 to March 2022 and Vice President Finance from April 2021 to October May 2024 and Senior Vice President, Global Financial Services and Systems from September 2017 to March 2021 of Wyandot Snacks, Inc. Eaton Corporation (NYSE: ETN), a custom snack manufacturer, multinational power management company. Prior to Wyandot, joining Eaton Corporation, Mr. Shamrock spent nearly seven years with Materion Corporation (NYSE: MTRN), an advanced materials company, where he was Vice President, Corporate Controller and Investor Relations, as well as Interim Chief Financial Officer for a five-month period. Mr. Shamrock also Hopgood served in various roles of increasing responsibility at The Goodyear Tire & Rubber Company (Nasdaq: GT) such as Vice President, Aftermarket Americas for Meritor, Inc. (NYSE: MTOR), a Fortune 500 manufacturer of commercial vehicle components and the audit practice systems, and Manager of KPMG, LLP, Corporate Finance and Reporting for MSX International, Inc., a management consulting company for leading automotive brands.

Effective November 1, 2023, Joseph P. Kelley was appointed as Executive Vice President and Industrial Precision Solutions segment leader. Solutions. Previously, Mr. Kelley served as Executive Vice President and Chief Financial Officer of the Company since July 2020. Prior to joining the Company, Mr. Kelley had previously served as Chief Financial Officer of Materion Corporation, (NYSE: MTRN), an advanced materials company, since 2015. Throughout his career, he served in roles of increasing financial responsibility at Materion, Avient Corporation (formerly known as PolyOne Corporation) (NYSE: AVNT), a specialty chemicals company, and Lincoln Electric Holdings, Inc. (Nasdaq: LECO), a global manufacturer.

Effective August 1, 2022, Stephen P. Lovass was named Executive Vice President - Medical and Fluid Solutions. Previously, Mr. Lovass served as Corporate Vice President since November 2016. Prior to joining the Company, Mr. Lovass served as President for one of the global sensors and controls businesses for Danaher Corporation (NYSE: DHR), an international Fortune 200, diversified science and technology company, from 2012 to 2016. Prior to joining Danaher Corporation, Mr. Lovass served as a Senior Vice President and Corporate Officer for Gerber Scientific, Inc., an automated systems manufacturer for sign-making, specialty graphics and packaging.

Effective November 1, 2021, Jennifer L. McDonough was named Executive Vice President, General Counsel and Secretary and leads the Company's global legal function in ethics and compliance, intellectual property and other general corporate legal matters. Ms. McDonough brings over 20 years of experience advising companies on wide-ranging, critical corporate initiatives and most recently served as Vice President, Deputy General Counsel and Assistant Secretary at PPL Corporation (NYSE: PPL), a Fortune 500 utility company, where she was responsible to deliver extensive legal counsel and services, including in the areas of general corporate law, mergers and acquisitions, corporate venture capital and investment transactions, securities and finance. Prior to joining PPL in 2017, Ms. McDonough served as Senior Vice President, General Counsel and Secretary at REX Energy Corporation, an independent condensate NGL and natural gas company, having joined REX Energy ("REX") in April 2011, and before that as Assistant General Counsel and Assistant Secretary at Kennametal Inc. (NYSE: KMT), a global manufacturer and provider of engineered products and solutions, (NYSE: KMT), which she joined in May 2005. She began her career as a business and finance attorney with the international law firm Morgan, Lewis and Bockius LLP.

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Effective February 20, 2023, Sarah Siddiqui was named Executive Vice President - Chief Human Resources Officer. Prior to joining the Company, Ms. Siddiqui served as Vice President of HR, Operations Engineering, Digital and Corporate Functions from August 2020 to February 2023 and Executive Director of HR, Operations, UTC Aerospace Systems from February 2018

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to July 2020 of Collins Aerospace at Raytheon Technologies (NYSE: RTX), an aerospace and defense company. Before joining Collins Aerospace, she had various roles of increasing responsibilities within the HR function at United Technologies and Citigroup.

Effective August 1, 2022, Srinivas Subramanian was named Executive Vice President - Advanced Technology Solutions. Previously, Mr. Subramanian served as Vice President of the Electronics Processing Solutions business, having served in various roles of increasing responsibility since joining the Company in 2006.

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PART II

Item 5. Market for the Company's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information and Dividends

Our common shares are listed on the Nasdaq Global Select Market under the symbol NDSN. As of November 30, 2023 November 30, 2024, there were 1,132 1,088 record shareholders.

While we have historically paid dividends to holders of our common shares on a quarterly basis, the declaration and payment of future dividends will depend on many factors, including but not limited to, our earnings, financial condition, business development needs and regulatory considerations, and are at the discretion of our board of directors.

Performance Graph

The following graph compares the 10-year cumulative return, calculated on a dividend-reinvested basis, from investing \$100 on November 1, 2013 November 1, 2014 in Nordson common shares, the S&P 500 Index, the S&P MidCap 400 Index, the S&P 500 Industrial Machinery Index, the S&P MidCap 400 Industrial Machinery Index and our New Peer Group, which includes: AME, B, DCI, ENTG, GGG, GTLS, ICUI, IEX, ITT, KEYS, LECO, MKSI, NATI, TER, TFX, TRMB, VNT, WTS and WWD. For 2023, the Company made changes to its peer group to add ICU Medical, Inc., Teleflex Incorporated and Vontier Corporation, because each had fallen inside of the parameters used to establish the peer group.

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Company/Market/Peer Group	Company/Market/Peer Group	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Company/Market/Peer Group	2014	2015	2016	2017	2018	2019	2020
Nordson Corporation	Nordson Corporation	\$100.00	\$107.27	\$101.05	\$143.92	\$183.81	\$179.62	\$232.19	\$288.97	\$382.91	\$342.16	\$326.94								
S&P 500 Index	S&P 500 Index	\$100.00	\$117.27	\$123.37	\$128.93	\$159.40	\$171.11	\$195.62	\$214.62	\$306.72	\$261.90	\$288.47								
S&P MidCap 400	S&P MidCap 400	\$100.00	\$111.65	\$115.48	\$122.70	\$151.51	\$153.05	\$166.85	\$164.93	\$245.59	\$217.25	\$214.95								
S&P 500 Ind. Machinery	S&P 500 Ind. Machinery	\$100.00	\$112.77	\$112.60	\$128.57	\$177.25	\$163.55	\$199.45	\$218.77	\$288.76	\$250.71	\$274.53								
S&P MidCap 400 Ind. Machinery	S&P MidCap 400 Ind. Machinery	\$100.00	\$105.97	\$88.70	\$104.10	\$149.31	\$146.17	\$173.69	\$185.60	\$263.65	\$238.86	\$255.39								
New Peer Group		\$100.00	\$106.28	\$101.89	\$109.29	\$169.60	\$168.47	\$218.26	\$238.88	\$352.61	\$288.34	\$279.39								
Old Peer Group		\$100.00	\$105.03	\$98.04	\$104.53	\$161.72	\$158.16	\$207.66	\$231.78	\$353.85	\$299.04	\$290.36								
Peer Group																				

Source: Zack's Investment Research

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Common Share Repurchases

(in whole shares)	Total Number of Shares Repurchased ⁽¹⁾	Average Price Paid per Share	Total Number of Shares Repurchased as Part of Publicly Announced Plans or Programs ⁽²⁾		Maximum Value of Shares That May Yet Be Purchased Under the Plans or Programs ⁽²⁾
			or Programs ⁽²⁾	or Programs ⁽²⁾	
August 1, 2023 to August 31, 2023	85	\$ 248.26	—	—	\$ 561,762
September 1, 2023 to September 30, 2023	8,171	\$ 217.77	8,008	\$	560,018
October 1, 2023 to October 31, 2023	37,277	\$ 215.18	37,277	\$	551,996
Total	45,533		45,285		

(in whole shares)	Total Number of Shares Repurchased ⁽¹⁾	Average Price Paid per Share	Total Number of Shares Repurchased as Part of Publicly Announced Plans or Programs ⁽²⁾		Maximum Value of Shares That May Yet Be Purchased Under the Plans or Programs ⁽²⁾
			or Programs ⁽²⁾	or Programs ⁽²⁾	
August 1, 2024 to August 31, 2024	30	\$ 243.34	—	—	\$ 523,798
September 1, 2024 to September 30, 2024	208	\$ 260.01	—	—	\$ 523,798
October 1, 2024 to October 31, 2024	215	\$ 260.35	—	—	\$ 523,798

Total	453	\$ 259.07	—	\$ 523,798
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(1) Includes shares tendered for taxes related to stock option exercises and vesting of restricted stock.

(2) In December 2014, the board of directors authorized a \$300,000 common share repurchase program. In August 2015, the board of directors authorized the repurchase of up to an additional \$200,000 of the Company's common shares. In August 2018, the board of directors authorized the repurchase of an additional \$500,000 of the Company's common shares. In September 2022, the board of directors authorized the repurchase of up to an additional \$500,000 of the Company's common shares. Approximately **\$551,996** **\$523,798** of the total \$1,500,000 authorized remained available for share repurchases at **October 31, 2023** **October 31, 2024**. Uses for repurchased shares include the funding of benefit programs including stock options and restricted stock. Shares purchased are treated as treasury shares until used for such purposes. The repurchase program will be funded using cash from operations and proceeds from borrowings under our credit facilities. The repurchase program does not have an expiration date.

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Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

NOTE REGARDING AMOUNTS AND FISCAL YEAR REFERENCES

In this annual report, all amounts related to United States dollars and foreign currency and to the number of Nordson Corporation's common shares, except for per share earnings and dividend amounts, are expressed in thousands. Unless the context otherwise indicates, all references to "we," "us," "our," or the "Company" mean Nordson Corporation.

Unless otherwise noted, all references to years relate to our fiscal year ending October 31.

Critical Accounting Policies and Estimates

Our Consolidated Financial Statements and accompanying notes have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires management to make estimates, judgments and assumptions that affect reported amounts of assets, liabilities, revenues and expenses. On an ongoing basis, we evaluate the accounting policies and estimates that are used to prepare financial statements. We base our estimates on historical experience and assumptions believed to be reasonable under current facts and circumstances. Actual amounts and results could differ from these estimates used by management.

Certain accounting policies that require significant management estimates and are deemed critical to our results of operations or financial position are discussed below. On a regular basis, critical accounting policies are reviewed with the Audit Committee of the board of directors.

Revenue recognition - A contract exists when it has approval and commitment from both parties, the rights of the parties are identified, payment terms are identified, the contract has commercial substance and collectability of the consideration is probable. Revenue is recognized when performance obligations under the terms of the contract with a customer are satisfied. Generally, our revenue results from short-term, fixed-price contracts and is recognized as of a point in time when the product is shipped or at a later point when the control of the product transfers to the customer. Refer to Note 1 to the Consolidated Financial Statements for further discussion regarding the Company's revenue recognition policy.

Business combinations - The acquisitions of our businesses are accounted for under the acquisition method of accounting. The amounts assigned to the identifiable assets acquired and liabilities assumed in connection with acquisitions are based on estimated fair values as of the date of the acquisition, with the remainder, if any, recorded as goodwill. The fair values are determined by management, taking into consideration information supplied by the management of the acquired entities, and other relevant information. Such information typically includes valuations obtained from independent appraisal experts, which management reviews and considers in its estimates of fair values. The valuations are generally based upon future cash flow projections for the acquired assets, discounted to present value. Determining the fair value of assets acquired and liabilities assumed requires management's judgment and often involves the use of significant estimates and assumptions, including assumptions with respect to future revenue growth rates and EBITDA margins, discount rates, customer attrition rates, and asset lives, among other items. This judgment could result in either a higher or lower value assigned to amortizable or depreciable assets. The impact could result in either higher or lower amortization and/or depreciation expense.

Goodwill - Goodwill is the excess of purchase price over the fair value of tangible and identifiable intangible net assets acquired in various business combinations. Goodwill is not amortized but is tested for impairment annually at the reporting unit level, or more often if indications of impairment exist.

We test goodwill in accordance with Accounting Standards Codification ("ASC") 350. We did not record any goodwill impairment charges in **2023** **2024**. We use an independent valuation specialist to assist with refining our assumptions and methods used to determine fair values. To test for goodwill impairment, we estimate the fair value of each of our reporting units using a combination of the **Income Approach** and the **Market Approach**.

The discounted cash flow method ("Income Approach") and the Market Approach.

The **Income Approach** uses assumptions for revenue growth, operating margin and working capital turnover that are based on management's strategic plans tempered by performance trends and reasonable expectations about those trends. Terminal value calculations employ a published formula known as the Gordon Growth Model Method that essentially captures the present value of perpetual cash flows beyond the last projected period assuming a constant Weighted Average Cost of Capital ("WACC") methodology and growth rate. For each reporting unit, a sensitivity analysis is performed to vary the discount and terminal growth rates in order to provide a range of reasonableness for detecting impairment. Discount rates are developed using a WACC methodology.

The WACC represents the blended average required rate of return for equity and debt capital based on observed market return data and company specific risk factors. For **2023** **2024**, the WACC rates used ranged from **8.38.0** percent to **11.09.0** percent depending upon the reporting unit's size, end market volatility and projection risk. See Note 5 to the Consolidated Financial Statements for further details regarding the valuation methodologies used.

In 2024, 2023 2022 and 2021 2022, the results of our annual impairment tests indicated no impairment.

The fair value ("FV") was compared to the carrying value ("CV") for each reporting unit. Based on the results shown in the table below and based on our measurement date of August 1, 2023 August 1, 2024, our conclusion is that no goodwill was impaired in 2023, 2024. Potential events or circumstances, such as a sustained downturn in global economies, could have a negative effect on estimated fair values.

	Excess of FV over WACC			Goodwill
	WACC	CV	Goodwill	
Industrial Precision Solutions Segment - Adhesives	Industrial Precision Solutions Segment - Adhesives	8.3% 697% \$ 511,799		
Industrial Precision Solutions Segment - Industrial Coating Systems	Industrial Precision Solutions Segment - Industrial Coating Systems	11.0% 678% \$ 24,084		
Advanced Technology Solutions Segment - Electronics Systems	Advanced Technology Solutions Segment - Electronics Systems	9.0% 387% \$ 27,534		
Advanced Technology Solutions Segment - Test & Inspection	Advanced Technology Solutions Segment - Test & Inspection	9.5% 168% \$ 371,425		
Medical and Fluid Solutions Segment - Fluid Management	Medical and Fluid Solutions Segment - Fluid Management	9.0% 186% \$ 1,175,938		

Pension plan in the United States - The measurement of the liabilities related to our domestic pension plan is based on management's assumptions related to future factors, including interest rates, return on pension plan assets, compensation increases, mortality and turnover assumptions and health care cost trend rates. The liabilities associated with the Company's international pension plans and OPEB are not as materially sensitive to changes in assumptions as the pension plan in the United States.

The weighted-average discount rate used to determine the present value of our domestic pension plan obligations was 5.27 percent at October 31, 2024 and 6.08 percent at October 31, 2023 and 5.70 percent at October 31, 2022. The discount rate used was determined by using quality fixed income investments with a duration period approximately equal to the period over which pension obligations are expected to be settled.

In determining the expected return on plan assets, we consider both historical performance and an estimate of future long-term rates of return on assets similar to those in our plans. We consult with and consider the opinions of financial and actuarial experts in developing appropriate return assumptions. The expected rate of return (long-term investment rate) on domestic pension assets used to determine net benefit costs was 6.50 percent and 6.40 percent in 2024 and 5.75 percent in 2023, and 2022, respectively.

The assumed rate of compensation increases used to determine the present value of our domestic pension plan obligations was 3.96 percent and 3.92 percent at October 31, 2024 and 4.30 percent at October 31, 2023 and October 31, 2022, respectively.

Annual expense amounts are determined based on the discount rate used at the end of the prior year. Differences between actual and assumed investment returns on pension plan assets result in actuarial gains or losses that are amortized into expense over a period of years.

Economic assumptions have a significant effect on the amounts reported. The effect of a one percent change in the discount rate, expected return on assets and compensation increase is shown in the table below. Bracketed numbers represent decreases in expense and obligation amounts.

	United States	
	1% Point Increase	1% Point Decrease
Discount rate:		
Effect on total net periodic pension cost in 2023	\$ (1,698)	\$ 2,101
Effect on pension obligation as of October 31, 2023	\$ (38,854)	\$ 47,913
Expected return on assets:		
Effect on total net periodic pension cost in 2023	\$ (4,081)	\$ 4,081
Compensation increase:		
Effect on total net periodic pension cost in 2023	\$ 2,480	\$ (2,187)
Effect on pension obligation as of October 31, 2023	\$ 15,052	\$ (13,644)

	1% Point Increase	1% Point Decrease
Discount rate:		
Effect on total net periodic pension cost in 2024	\$ (1,234)	\$ 3,137
Effect on pension obligation as of October 31, 2024	\$ (46,287)	\$ 57,461
Expected return on assets:		
Effect on total net periodic pension cost in 2024	\$ (4,094)	\$ 4,094
Compensation increase:		
Effect on total net periodic pension cost in 2024	\$ 2,252	\$ (2,006)
Effect on pension obligation as of October 31, 2024	\$ 17,371	\$ (15,630)

Income taxes – Income taxes are estimated based on income for financial reporting purposes. Deferred income taxes reflect the net tax effect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes and certain changes in valuation allowances. We provide valuation allowances

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against deferred tax assets if, based on available evidence, it is more likely than not that some portion or all of the deferred tax assets will not be realized.

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Management believes the valuation allowances are adequate after considering future taxable income, allowable carryforward periods and ongoing prudent and feasible tax planning strategies. In the event we were to determine that we would be able to realize the deferred tax assets in the future in excess of the net recorded amount (including the valuation allowance), an adjustment to the valuation allowance would increase income in the period such determination was made. Conversely, should we determine that we would not be able to realize all or part of the net deferred tax asset in the future, an adjustment to the valuation allowance would be expensed in the period such determination was made.

Further, at each interim reporting period, we estimate an effective income tax rate that is expected to be applicable for the full year. Significant judgment is involved regarding the application of global income tax laws and regulations and when projecting the jurisdictional mix of income. Additionally, interpretation of tax laws, court decisions or other guidance provided by taxing authorities influences our estimate of the effective income tax rates. As a result, our actual effective income tax rates and related income tax liabilities may differ materially from our estimated effective tax rates and related income tax liabilities. Any resulting differences are recorded in the period they become known.

ARAG Group Atrion Acquisition

On August 24, 2023 August 21, 2024, the Company completed the acquisition of the ARAG Group Atrion, pursuant to the terms of the Sale Merger Agreement with Merger Sub and Purchase Atrion. Pursuant to the Merger Agreement, dated Merger Sub merged with and into Atrion (the "Merger"), with Atrion surviving the Merger as a wholly owned subsidiary of June 25, 2023, by Nordson. Atrion is a leader in proprietary medical infusion fluid delivery and among the Company's niche cardiovascular solutions and will operate within our

Medical and Fluid Solutions segment. The all-cash acquisition of Atrion of \$789,996, net of cash acquired, was funded using borrowings under our revolving credit facility, and the Sellers. ARAG is a global market and innovation leader in the development, production and supply of precision control systems and smart fluid components for agricultural spraying. ARAG operates as a division of our Industrial Precision Solutions segment. In anticipation of the acquisition, the Company entered into a €760,000 senior unsecured 364-day term loan facility agreement with a group of banks for a delayed draw term loan facility in August 2023 the aggregate principal amount of \$500,000 (the "364-Day Term Loan Facility" Agreement). The all-cash ARAG acquisition of approximately €957,000, net of the repayment of approximately €30,300 of debt of the acquired companies, was funded using borrowings under the 364-Day Term Loan Facility and the Company's revolving credit facility. The 364-Day Term Loan Facility was subsequently paid off in September 2023 with the net proceeds of a senior notes offering (see Note 9 to the Consolidated Financial Statements for additional details), and cash on hand. Based on the fair value of the assets acquired and the liabilities assumed, a preliminary purchase price allocation resulted in the recognition of \$494,279 of goodwill and \$129,600 of \$694,900 and identifiable intangible assets of \$353,500 were recorded assets. The identifiable intangible assets consist primarily of \$27,500 \$40,100 of tradenames (amortized over nine 15 years), \$31,000 \$24,900 of technology (amortized over five 15 years), and \$295,000 \$64,600 of customer relationships (amortized over twenty-two 19 years). The financial results of the ARAG Group Atrion acquisition are not expected to have a material impact on our Consolidated Financial Statements.

Results of Operations

Below is a detailed discussion comparison of our results of operations for the fiscal years ended October 31, 2023 October 31, 2024 and October 31, 2022 October 31, 2023. For a discussion of other changes from the fiscal year ended October 31, 2022 October 31, 2023 to the fiscal year ended October 31, 2021 October 31, 2022, refer to Part II, Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, of our Annual Report on Form 10-K for the fiscal year ended October 31, 2022 October 31, 2023.

As used throughout this annual report, geographic regions include the Americas (United States, Canada, Mexico and Central and South America), Asia Pacific and Europe.

Consolidated Financial Results

Consolidated financial results for the years ended October 31, 2024, 2023 compared to and 2022 were as follows:

Worldwide

(in thousands except for per-share amounts)	2024	Change		Change	
		from 2023	2023	from 2022	2022
Sales	\$ 2,689,921	2.3 %	\$ 2,628,632	1.5 %	\$ 2,590,278
Cost of sales	1,203,792	— %	1,203,227	3.4 %	1,163,742
Gross margin	1,486,129	4.3 %	1,425,405	(0.1)%	1,426,536
Gross margin %	55.2%	1.0 %	54.2%	(0.9)%	55.1%
Selling and administrative expenses	812,128	7.9 %	752,644	3.9 %	724,176
Operating profit	674,001	0.2 %	672,761	(4.2)%	702,360
Interest expense	(88,924)	49.4 %	(59,505)	165.5 %	(22,413)
Interest and investment income	4,913	83.3 %	2,680	32.3 %	2,026
Pension settlement charge for U.S. Plans	—	—	—	—	(41,221)
Other - net	(4,509)	655.3 %	(597)	(107.0)%	8,527
Income before income taxes	585,481	(4.9)%	615,339	(5.2)%	649,279
Income tax expense	118,197	(7.5)%	127,846	(6.1)%	136,176
Net income	\$ 467,284	(4.1)%	\$ 487,493	(5.0)%	\$ 513,103

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Net Sales

Net sales for 2023 the Industrial precision solutions (IPS), Medical and Fluid Solutions (MFS) and Advanced technology solutions (ATS) segments were \$2,628,632, as follows:

	Twelve Months Ended				Variance - Increase (Decrease)			Total
	Oct 31, 2024	% of Total	Oct 31, 2023	% of Total	Organic	Acquisitions	Currency	
IPS	\$ 1,484,249	55.2%	\$ 1,391,046	52.9%	0.1 %	6.6 %	— %	6.7 %
MFS	695,452	25.9%	660,316	25.1%	(0.2)%	5.4 %	0.1 %	5.3 %
ATS	510,220	19.0%	577,270	22.0%	(11.4)%	— %	(0.2)%	(11.6)%
Total	\$ 2,689,921		\$ 2,628,632		(2.5)%	4.8 %	— %	2.3 %

The IPS organic sales increase of 1.5 0.1 percent from 2022 was driven by increases in packaging, nonwovens, and industrial coatings product lines, principally offset by declines in measurements and controls and polymer processing. The MFS organic sales decrease of \$2,590,278. The increase consisted of 0.2% was driven by a 3.8 percent increase from

acquisitions, decrease in the medical fluid components product line, partially offset by a 1.4 percent decline in the fluid solutions product line. The ATS organic sales decrease of 11.4 percent was driven by lower demand in electronics dispense product lines as well as test and unfavorable currency translation effects that decreased sales in inspection product lines.

Net Sales by 0.9 percent region were as follows:

	Twelve Months Ended				Variance - Increase (Decrease)			Total
	Oct 31, 2024	% of Total	Oct 31, 2023	% of Total	Organic	Acquisitions	Currency	
Americas	\$ 1,178,626	43.8%	\$ 1,149,760	43.7%	(1.9)%	4.3 %	0.1 %	2.5 %
Europe	726,100	27.0%	682,676	26.0%	(5.1)%	10.2 %	1.3 %	6.4 %
Asia Pacific	785,195	29.2%	796,196	30.3%	(1.0)%	1.0 %	(1.4)%	(1.4)%
Total	\$ 2,689,921		\$ 2,628,632		(2.5)%	4.8 %	— %	2.3 %

Sales outside the United States accounted for 66.2 percent of total sales in 2023, 66.6 percent in 2024, as compared to 66.8 percent in 2022. On a geographic 2023.

Operating Profit

Operating profit for the IPS, MFS and ATS segments were as follows:

	Twelve Months Ended				% of Sales Change	Increase (Decrease)	
	Oct 31, 2024	% of Sales	Oct 31, 2023	% of Sales			
IPS	\$ 470,559	31.7%	\$ 460,889	33.1%	(1.4)%	\$ 9,670	2.1 %
MFS	187,731	27.0%	189,367	28.7%	(1.7)%	(1,636)	(0.9)%
ATS	94,231	18.5%	101,662	17.6%	0.9%	(7,431)	(7.3)%
Corporate	(78,520)		(79,157)			637	(0.8)%
Total	\$ 674,001	25.1%	\$ 672,761	25.6%	(0.5)%	\$ 1,240	0.2 %

Consolidated operating margin decreased by 50 basis points primarily driven by costs related to the Americas region were \$1,149,760, an increase first-year effect of 4.8 percent from 2022, with organic sales increasing 2.0 percent, a 2.4 percent increase from acquisitions, and which more than offset favorable currency effects of 0.4 percent. Sales in the Asia Pacific region were \$796,196, a decrease of 6.1 percent from 2022, with organic sales decreasing 8.2 percent and unfavorable currency effects of 3.1 percent, partially offset by a 5.2 percent increase from acquisitions. Sales in Europe were \$682,676, an increase of 5.7 percent from 2022, with organic sales increasing 1.4 percent, a 4.2 percent increase from acquisitions, and favorable currency effects of 0.1 percent.

Cost of sales were \$1,203,227 in 2023, up product mix. 3.4 percent from \$1,163,742 in 2022. Gross profit, expressed as a percentage of sales, decreased to 54.2 percent in 2023 from 55.1 percent in 2022. The 0.9 margins improved 1.0 percentage point decrease in gross margin was primarily driven by reflecting the impact of favorable product mix and lower incremental inventory step-up amortization related to acquisitions of \$7,703 in 2024 versus \$8,862 in 2023, of \$8,862 and unfavorable foreign currency effects.

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Selling while the increase in selling and administrative expenses were \$752,644 in 2023, up from \$724,176 in 2022. The 3.9 percent increase was driven by a 8.3 percent increase due to the first-year effect of an acquisition, including acquisition costs, partially offset by lower base business costs and favorable currency translation effects which decreased costs by 5.3 percent. Selling and administrative expenses as a percentage of sales increased slightly to 28.6 percent in 2023 from 28.0 percent in 2022. The 0.6 percentage point increase was primarily due to cost structure simplification actions taken in 2023.

Operating profit as a percentage of sales decreased to 25.6 percent in 2023 compared to 27.1 percent in 2022. The 1.5 percent decrease in operating margin was primarily driven by acquisitions. IPS operating profit declined 140 basis points due to an unfavorable acquisition impact and severance costs. MFS operating margin declined 170 basis points due to \$10,761 in fees, severance, and non-cash inventory step-up amortization charges associated with the Atrion acquisition which offset improvements in operating efficiencies. ATS operating margin improved by 90 basis points on lower sales volumes due to cost reduction actions and other costs related to the first-year effect of acquisitions, favorable mix.

Interest and Other expenses

Interest expense in 2023 2024 was \$59,505, \$88,924, an increase of \$37,092, \$29,419, or 165.5 49.4 percent, from 2022 2023. The increase was due to reflects higher average debt levels and higher average interest rates compared to the prior year primarily driven by due to funding of acquisitions. During 2022, the Company recognized non-cash pension settlement charges of \$41,221 related to the purchase of an annuity contract to relieve the Company of certain U.S. pension benefit obligations. Other expense in 2023 2024 was \$597 \$4,509 compared to other income expense of \$8,527 \$597 in 2022 2023. Included in other expense in 2023 were \$5,499 in net foreign currency losses, which were partially offset by pension gains. Included in the prior year's other expense were \$7,742 in net foreign currency losses, which were largely offset by pension gains. Included in the prior year's other income were \$6,270 in foreign currency gains.

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Income tax expense

Income tax expense in 2023 2024 was \$118,197, or 20.2 percent of pre-tax income, as compared to \$127,846, or 20.8 percent of pre-tax income as compared to \$136,176, or 21.0 percent of pre-tax income in 2022 2023. The effective tax rate decreased 60 basis points primarily due to a decline in the impact of foreign tax rate variances. The income tax provision for 2024 included a tax benefit of \$4,037 due to our share-based payment transactions. Our income tax provision for 2023 included a tax benefit of \$4,286 due to our share-based payment transactions. Our income tax provision for 2022 included a tax benefit of \$3,273 due to our share-based payment transactions.

Net Income

Net income was \$467,284, or \$8.11 per diluted share, in 2024, compared to net income of \$487,493, or \$8.46 per diluted share, in 2023, compared to net income of \$513,103, or \$8.81 per diluted share, in 2022 2023. This represented a 5.0 4.1 percent decrease in net income and a 4.1 percent decrease in diluted earnings per share. The decrease of \$0.35 per diluted share was primarily driven by higher interest expense and acquisition-related expenses in 2023 2024 compared to non-cash pension settlement charges in 2022.

Industrial Precision Solutions

Sales of the Industrial Precision Solutions segment were \$1,391,046 in 2023, an increase of 4.0 percent, from 2022 sales of \$1,337,242. The increase was the result of an organic sales increase of 3.1 percent and an increase of 1.9 percent from acquisitions, partially offset by unfavorable currency effects of 1.0 percent. Organic sales growth was generally strong across most product lines and regions.

Operating profit as a percentage of sales increased to 33.1 percent in 2023 compared to 32.5 percent in 2022. The 0.6 percentage point improvement in operating margin was primarily the result of improved selling and administrative expense leverage due to increased sales volumes.

Medical and Fluid Solutions

Sales of the Medical and Fluid Solutions segment were \$660,316 in 2023, a decrease of 4.3 percent from 2022 sales of \$690,177. The decrease was the result of an organic sales decrease of 3.7 percent and unfavorable currency effects that decreased sales by 0.6 percent. The organic sales decrease was driven by lower demand for the medical fluid components and fluid solutions product lines, materially offset by continued strength in medical interventional solutions product lines.

Operating profit as a percentage of sales decreased to 28.7 percent in 2023 compared to 31.5 percent in 2022. The 2.8 percent percentage point decline in operating margin was principally driven by meaningful sales mix changes within medical product lines and related factory inefficiencies due to reduced volumes.

Advanced Technology Solutions

Sales of the Advanced Technology Solutions segment were \$577,270 in 2023, an increase of 2.6 percent from 2022 sales of \$562,859. The increase consisted of a volume increase of 3.7 percent, inclusive of an organic sales decrease of 9.2 percent and a 12.9 percent increase from acquisitions, partially offset by unfavorable currency effects that decreased sales by 1.1 percent. The organic sales decrease was driven by lower demand in electronics dispense product lines, partially offset by stronger demand in test and inspection product lines.

Operating profit as a percentage of sales decreased to 17.6 percent in 2023 compared to 23.7 percent in 2022. The 6.1 percentage point decline in operating margin was primarily due to fees, severance, and non-cash inventory charges of \$10,295 associated with the CyberOptics acquisition and factory inefficiencies due to reduced volumes, 2023.

Liquidity and Capital Resources

Cash and cash equivalents decreased \$47,778 increased \$273 in 2023 2024 to \$115,952 as of October 31, 2024 compared to \$115,679 as of October 31, 2023 compared to \$163,457 as of October 31, 2022. Approximately 81 percent of our consolidated cash and cash equivalents were held at various foreign subsidiaries as of October 31, 2023 October 31, 2024.

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A comparison of cash flow changes from 2024 to 2023 as follows:

Cash provided by

	Twelve Months Ended		
	October 31, 2024	October 31, 2023	Increase (Decrease)
Net Income and non-cash items	\$ 609,342	\$ 615,496	\$ (6,154)
Changes in operating assets and liabilities	(53,149)	25,786	(78,935)
Net cash provided by operating activities	556,193	641,282	(85,089)
Additions to property, plant and equipment	(64,410)	(34,583)	(29,827)
Acquisitions of businesses, net of cash acquired	(789,996)	(1,422,780)	632,784
Other - net	10,008	20,484	(10,476)
Net cash used in investing activities	(844,398)	(1,436,879)	592,481
Issuance of long-term debt	464,353	976,043	(511,690)
Repayment of finance lease obligations	(6,148)	(6,840)	692
Dividends paid	(161,438)	(150,356)	(11,082)

Issuance of common shares	31,067	21,373	9,694
Purchase of treasury shares	(33,339)	(89,708)	56,369
Net cash provided by financing activities	\$ 294,495	\$ 750,512	\$ (456,017)

The changes in operating activities was \$641,282 in 2023, compared to \$513,131 in 2022. The primary sources assets and liabilities were net income adjusted for non-cash income and expenses (consisting of depreciation and amortization, non-cash stock compensation, provision for losses on receivables, deferred income taxes, other non-cash expense, gain/loss on sale of property, plant and equipment, and non-cash pension settlement charges), which were \$615,496 in 2023, compared to \$676,200 in 2022. Changes in working capital items used cash of \$3,571 compared to \$107,314 used in 2022 principally driven by decreases in receivables customer advance payments and inventory while cash provided income taxes payable. Additions to property, plant and equipment were largely driven by other operating items was \$29,357 in 2023 compared to cash used of \$55,755 in 2022.

Cash used in investing activities was \$1,436,879 in 2023, compared to \$222,761 in 2022. In 2023, \$1,422,780 in cash was used for acquisitions, utilizing borrowings productivity and cash from operations, compared to \$171,613 used in 2022. Capital expenditures were \$34,583 in 2023 compared to \$51,428 in 2022.

Cash provided by financing activities was \$750,512 in 2023, compared to \$416,006 cash used in 2022. Proceeds and repayments of long-term debt provided \$976,043 of cash in 2023, compared to \$33,908 used in 2022. In 2023, cash of \$89,708 was used for the purchase of treasury shares, down from \$262,869 used in 2022. Dividend payments were \$150,356 in 2023, up from \$125,914 in 2022 due to an increase in dividends on our common shares, on an annual basis, to \$2.63 per share from \$2.18 per share. Issuance of common shares related to employee benefit plans generated \$21,373 of cash in 2023, up from \$12,124 in 2022.

The following is growth projects, including a summary of significant changes by balance sheet caption from October 31, 2022 to October 31, 2023. Receivables-net and inventories-net combined increased \$124,950, goodwill increased \$979,508, and intangible assets-net increased \$343,342 principally due to the acquisitions of the ARAG Group and CyberOptics. Long-term debt, including current maturities, increased \$999,199, principally due to the acquisition of the ARAG Group.new manufacturing facility.

We have a \$1,150,000 unsecured multi-currency credit facility with a group of banks which provides for a term loan facility in the aggregate principal amount of \$300,000, maturing in June 2026, and a multicurrency revolving credit facility in the aggregate principal amount of \$850,000, maturing in June 2028. In anticipation of the ARAG acquisition, the Company entered into the 364-Day a €760,000 senior unsecured term loan facility with a group of banks in August 2023 (the "364-Day Term Loan Facility in August 2023. Facility"). On September 13, 2023, the Company completed an underwritten public offering of \$350,000 aggregate principal amount of the Company's 5.600% Notes due 2028 (the "2028 Notes") and \$500,000 aggregate principal amount of the Company's 5.800% Notes due 2033 (together with the 2028 Notes, the "Notes"). The Company used the net proceeds from the sale of the Notes to repay its borrowings under the 364-Day Term Loan Facility. At October 31, 2023 October 31, 2024, we had \$300,000 \$280,000 outstanding on the term loan facility and \$248,000 \$240,000 outstanding on the revolving credit facility compared facility.

In anticipation of the Atrion acquisition, the Company entered into a 364-Day Term Loan Agreement with Morgan Stanley Senior Funding for \$500,000 on June 21, 2024, with a maturity date of August 20, 2025. In September 2024, the Company completed an underwritten public offering of \$600,000 aggregate principal amount of 4.500% Notes due 2029 (the "2029 Notes"). The Company used a portion of the net proceeds from the sale of the 2029 Notes to no repay all of the outstanding balance at October 31, 2022 borrowings under the old revolving credit facility. 364-Day Term Loan Agreement plus accrued and unpaid interest.

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Our operating performance, balance sheet position and financial ratios for 2023 2024 remained strong. Total debt increased \$999,199 during 2023 primarily due to the acquisition of the ARAG Group. The Company is well-positioned to manage liquidity needs that arise from working capital requirements, capital expenditures and contributions related to pension and postretirement obligations, as well as principal and interest payments on our outstanding debt. Primary sources of capital to meet these needs, as well as other opportunistic investments, are a combination of cash on hand, which was \$115,952 as of October 31, 2024, cash provided by operations, which was \$556,193 in 2024, and available borrowings under our loan agreements, agreements and unused bank lines of credit which totaled \$785,880 as of October 31, 2024. Cash from operations, which when combined with our available borrowing capacity and ready access to capital markets, is expected to be more than adequate to fund our liquidity needs over the twelve months and the foreseeable future thereafter. The Company believes it has the ability to generate and obtain adequate amounts of cash to meet its long-term needs for cash.

Contractual and Other Material Cash Obligations

The following table summarizes contractual and other material cash obligations as of October 31, 2023 October 31, 2024:

	Payments Due by Period					Payments Due by Period				
	Payments Due by Period		Payments Due by Period			Payments Due by Period		Payments Due by Period		
	Total	Less than 1 Year	1-3 Years	4-5 Years	After 5 Years	Total	Less than 1 Year	1-3 Years	4-5 Years	After 5 Years
Debt ⁽¹⁾	Debt ⁽¹⁾	\$1,749,305	\$115,662	\$435,643	\$648,000	\$550,000				
Interest payments on long-term debt ⁽¹⁾	Interest payments on long-term debt ⁽¹⁾	416,926	58,526	160,695	81,884	115,821				

Finance lease obligations ⁽²⁾	Finance lease obligations ⁽²⁾	18,349	4,918	6,055	1,633	5,743
Operating leases ⁽²⁾	Operating leases ⁽²⁾	119,317	16,853	28,441	21,172	52,851
Contributions related to pension and postretirement benefits ⁽³⁾	Contributions related to pension and postretirement benefits ⁽³⁾	6,770	6,770	—	—	—
Purchase obligations ⁽⁴⁾	Purchase obligations ⁽⁴⁾	192,453	187,498	4,943	12	—
Total obligations	Total obligations	\$2,503,120	\$390,227	\$635,777	\$752,701	\$724,415

(1) Refer to Note 8 to the Consolidated Financial Statements for further discussion.

(2) Refer to Note 9 to the Consolidated Financial Statements for further discussion.

(2) Refer to Note 10 to the Consolidated Financial Statements for further discussion.

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(3) Pension and postretirement plan funding amounts reflect known amounts over the next twelve months. Future amounts will be determined based on the future funded status of the plans and therefore cannot be estimated at this time. Refer to Note 6 to the Consolidated Financial Statements for further discussion.

(4) Purchase obligations primarily represent commitments for materials used in our manufacturing processes that are not recorded on our Consolidated Balance Sheet.

We believe that the combination of present capital resources, cash from operations and unused financing sources such as our credit facilities, including our revolving credit facility, are more than adequate to meet cash requirements for the twelve months and the foreseeable future thereafter. There are no significant restrictions limiting the transfer of funds from international subsidiaries to the parent company.

New Accounting Standards

Therein November 2023, the FASB issued ASU 2023-07, *Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures*. ASU 2023-07 requires enhanced disclosures about significant segment expenses and enhanced disclosures in interim periods. The guidance in ASU 2023-07 will be applied retrospectively and is effective for annual reporting periods in fiscal years beginning after December 15, 2023 and interim reporting periods in fiscal years beginning after December 31, 2024, with early adoption permitted. The Company is currently evaluating the impact that the adoption of ASU 2023-07 will have been no new accounting standards on its consolidated financial statements and disclosures and anticipates adoption in 2025.

In December 2023, the FASB issued which would ASU 2023-09, *Income Taxes (Topic 740): Improvements to Income Tax Disclosures*. ASU 2023-09 is intended to improve income tax disclosure requirements by requiring specific disclosure in the rate reconciliation and additional information for reconciling items that meet a quantitative threshold. The guidance in ASU 2023-09 will be effective for annual reporting periods in fiscal years beginning after December 15, 2024. The Company is currently evaluating the impact that the adoption of ASU 2023-09 will have on its consolidated financial statements and disclosures and anticipates adoption in fiscal 2026.

In November 2024, the FASB issued ASU 2024-03, *Income Statement (Topic 220): Reporting Comprehensive Income*. ASU 2024-03 does not change or remove current expense presentation requirements within the Consolidated Statements of Income. However, the amendments require either disclosure, or on an annual and interim basis, disaggregated information about certain income statement expense line items within the notes to the consolidated financial statements. The amendments in this update are

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effective for annual reporting periods beginning after December 15, 2026, and interim reporting periods beginning after December 15, 2027. The Company is currently evaluating the impact that the adoption during the current period by the Company of ASU 2024-03 will have on its consolidated financial statements and disclosures and anticipates adoption in fiscal 2028.

Effects of Foreign Currency

The impact of changes in foreign currency exchange rates on sales and operating results cannot be precisely measured due to fluctuating selling prices, sales volume, product mix and cost structures in each country where we operate. As a general rule, a weakening of the United States dollar relative to foreign currencies has a favorable effect on sales and net income, while a strengthening of the dollar has a detrimental effect.

In 2024, as compared with 2023, the United States dollar was slightly stronger against foreign currencies. If 2023 exchange rates had been in effect during 2024, sales would have been approximately \$3,352 higher and third-party costs would have been approximately \$903 higher. In 2023, as compared with 2022, the United States dollar was generally stronger against foreign currencies. If 2022 exchange rates had been in effect during 2023, sales would have been approximately \$23,153 higher and third-party costs would have been approximately \$15,210 higher. In 2022, as compared with 2021, the United States dollar was generally stronger against foreign currencies. If 2021 exchange rates had been in effect during 2022, sales would have been approximately \$103,829 higher and third-party costs would have been approximately \$68,788 higher. These effects on reported sales do not include the impact of local price adjustments made in response to changes in currency exchange rates.

Trends

Our solid historical performance is attributed to our diverse geographic and end market participation and our long-term commitment to develop and provide quality products and worldwide service to meet our customers' changing needs.

Safe Harbor Statements Under the Private Securities Litigation Reform Act of 1995

This annual report, particularly "Management's Discussion and Analysis of Financial Condition and Results of Operations," contains forward-looking statements within the meaning of the Securities Act of 1933, as amended, the Securities Exchange Act of 1934, as amended, and the Private Securities Litigation Reform Act of 1995. Such statements relate to, among other things, income, earnings, cash flows, changes in operations, operating improvements, businesses in which we operate and the United States and global economies. Statements in this annual report that are not historical are hereby identified as "forward-looking statements" and may be indicated by words or phrases such as "anticipates," "supports," "plans," "projects," "expects," "believes," "should," "would," "could," "hope," "forecast," "management is of the opinion," use of the future tense and similar words or phrases. These forward-looking statements reflect management's current expectations and involve a number of risks and uncertainties. These risks and uncertainties include, but are not limited to, U.S. and international economic and political conditions; financial and market conditions; currency exchange rates and devaluations; possible acquisitions including the Company's ability to complete and successfully integrate acquisitions, including the integration of the ARAG Group Atrion and CyberOptics; ARAG; the Company's ability to successfully divest or dispose of businesses that are deemed not to fit with its strategic plan; the effects of changes in U.S. trade policy and trade agreements; the effects of changes in tax law; and the possible effects of events beyond our control, such as political unrest, including the conflicts in Europe and the Middle East, acts of terror, natural disasters and pandemics.

In light of these risks and uncertainties, actual events and results may vary significantly from those included in or contemplated or implied by such forward-looking statements. Readers are cautioned not to place undue reliance on such forward-looking statements. These forward-looking statements speak only as of the date made. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

Factors that could cause our actual results to differ materially from the expected results are discussed in Part 1, Item 1A, Risk Factors of this annual report.

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Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We operate internationally and enter into intercompany transactions denominated in foreign currencies. Consequently, we are subject to market risk arising from exchange rate movements between the dates foreign currencies are recorded and the dates they are settled. We regularly use foreign exchange contracts to reduce our risks related to most of these transactions. These contracts, primarily associated with the euro, yen and pound sterling, typically have maturities of 90 days or less, and generally require the exchange of foreign currencies for United States dollars at rates stated in the contracts. Gains and losses from changes in the market value of these contracts offset foreign exchange losses and gains, respectively, on the underlying transactions. We use foreign exchange contracts on a routine basis to help mitigate the risks related to transactions denominated in foreign currencies.

Refer to Note 12.11 to the Consolidated Financial Statements for further discussion about our foreign currency transactions and the methods and assumptions used to record these transactions.

A portion of our operations is financed with short-term and long-term borrowings and is subject to market risk arising from changes in interest rates.

The tables that follow present principal repayments and weighted-average interest rates on outstanding borrowings of fixed-rate debt.

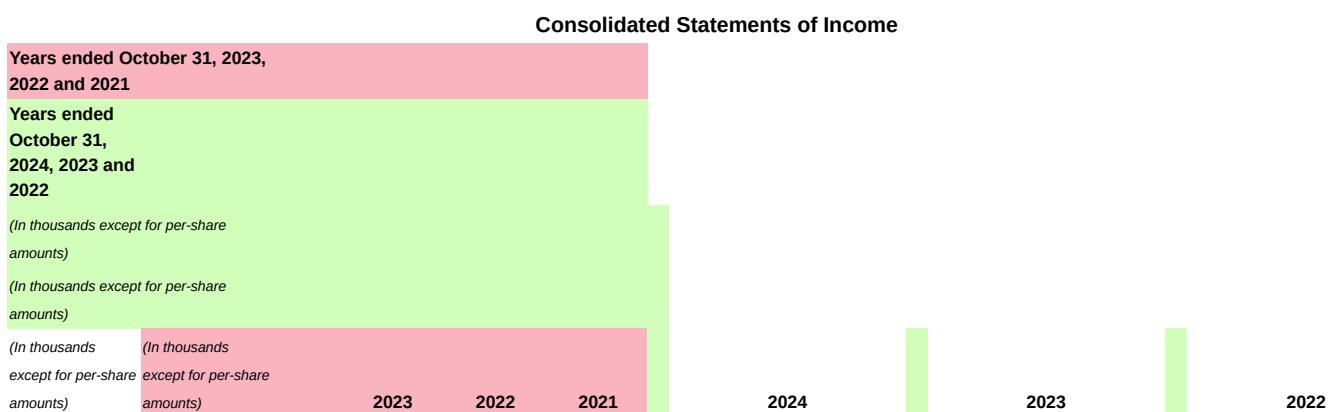
At October 31, 2023	2024	2025	2026	2027	2028	Thereafter	Total Value	Fair Value	At October 31, 2024	2025	2026	2027	2028	2029	Thereafter
At October 31, 2024									At October 31, 2024						
Annual repayments of long-term debt	Annual repayments of long-term debt								Annual repayments of long-term debt						
\$110,643	\$85,642	\$50,000	\$10,000	\$390,000	\$550,000	\$1,196,285	\$1,148,356		\$85,643	\$50,000	\$10,000	\$390,000	\$620,000	\$530,000	

Average interest rate on total borrowings outstanding during the year	Average interest rate on total borrowings outstanding during the year	3.6%	3.7%	3.8%	3.2%	5.4%	5.7%	5.1%		
At October 31, 2022	2023	2024	2025	2026	2027	Thereafter	Total Value	Fair Value		
At October 31, 2023										
At October 31, 2023										
At October 31, 2023										
Annual repayments of long-term debt										
Annual repayments of long-term debt										
Annual repayments of long-term debt	Annual repayments of long-term debt	\$130,643	\$110,643	\$85,642	\$50,000	\$10,000	\$90,000	\$476,928	\$452,879	
Average interest rate on total borrowings outstanding during the year	Average interest rate on total borrowings outstanding during the year	3.7%	3.8%	3.9%	4.0%	4.0%	4.1%	3.7%		
Average interest rate on total borrowings outstanding during the year										
Average interest rate on total borrowings outstanding during the year										

We also have variable-rate long-term debt. The weighted average interest rate of this variable-rate debt was 6.26 5.66 percent at October 31, 2023 October 31, 2024 and 1.74 6.26 percent at October 31, 2022 October 31, 2023. As of October 31, 2024, a one percent increase in interest rates would have resulted in additional annual interest expense of approximately \$5,530 \$5,383 on the variable rate long-term debt in 2023, debt.

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Item 8. Financial Statements and Supplementary Data



Sales	Sales	\$2,628,632	\$2,590,278	\$2,362,209
Operating costs and expenses:	Operating costs and expenses:			
Cost of sales	Cost of sales	1,203,227	1,163,742	1,038,129
Cost of sales	Cost of sales			
Cost of sales	Cost of sales			
Selling and administrative expenses	Selling and administrative expenses	752,644	724,176	708,953
		1,955,871	1,887,918	1,747,082
			2,015,920	
			2,015,920	
			2,015,920	
Operating profit	Operating profit	672,761	702,360	615,127
Other income (expense):	Other income (expense):			
Interest expense	Interest expense			
Interest expense	Interest expense	(59,505)	(22,413)	(25,491)
Interest and investment income	Interest and investment income	2,680	2,026	2,150
Pension settlement charge for U.S. Plans	Pension settlement charge for U.S. Plans	—	(41,221)	—
Other - net	Other - net	(597)	8,527	(17,610)
		(57,422)	(53,081)	(40,951)
			(88,520)	
Income before income taxes	Income before income taxes	615,339	649,279	574,176
Income tax expense	Income tax expense			
Income tax expense	Income tax expense			
Income tax expense	Income tax expense	127,846	136,176	119,808
Net income	Net income	\$ 487,493	\$ 513,103	\$ 454,368
Average common shares	Average common shares	57,090	57,629	58,091
Incremental common shares attributable to equity compensation	Incremental common shares attributable to equity compensation	541	620	643
Average common shares and common share equivalents	Average common shares and common share equivalents	57,631	58,249	58,734
Basic earnings per share	Basic earnings per share	\$ 8.54	\$ 8.90	\$ 7.82

Diluted earnings per share	Diluted earnings per share	\$ 8.46	\$ 8.81	\$ 7.74
Dividends declared per common share	Dividends declared per common share	\$ 2.63	\$ 2.18	\$ 1.69

The accompanying notes are an integral part of the consolidated financial statements.

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Consolidated Statements of Comprehensive Income

Years ended October 31, 2023, 2022 and 2021			2024	2023	2022
Years ended October 31, 2024, 2023 and 2022					
(In thousands)					
(In thousands)	(In thousands)		2024	2023	2022
Net income	Net income	\$487,493	\$513,103	\$454,368	
Components of other comprehensive income (loss), net of tax:	Components of other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	Foreign currency translation adjustments	26,766	(126,657)	7,033	
Foreign currency translation adjustments	Foreign currency translation adjustments				
Pension and postretirement benefit plans:	Pension and postretirement benefit plans:				
Prior service credit arising during the year		—	—	124	
Pension and postretirement benefit plans:	Pension and postretirement benefit plans:				
Net actuarial gain (loss) arising during the year	Net actuarial gain (loss) arising during the year				
Net actuarial gain (loss) arising during the year	Net actuarial gain (loss) arising during the year				
Net actuarial gain (loss) arising during the year	Net actuarial gain (loss) arising during the year	(15,106)	54,065	25,289	
Amortization of prior service cost	Amortization of prior service cost	(34)	(201)	(304)	

Amortization of actuarial (gain) loss	Amortization of actuarial (gain) loss	(24)	7,575	14,954
Curtailment gain		(2)	1,052	—
Curtailment gain (loss)				
Settlement (gain) loss recognized	Settlement (gain) loss recognized	(259)	32,219	3,187
Total pension and postretirement benefit plans	Total pension and postretirement benefit plans	(15,425)	94,710	43,250
Total other comprehensive income (loss)	Total other comprehensive income (loss)	11,341	(31,947)	50,283
Total other comprehensive income (loss)	Total other comprehensive income (loss)			
Total comprehensive income	Total comprehensive income	\$498,834	\$481,156	\$504,651
Total comprehensive income				

The accompanying notes are an integral part of the consolidated financial statements.

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Consolidated Balance Sheets				
October 31, 2023 and 2022				
October 31, 2024 and 2023				
(in thousands)				
(in thousands)				
(in thousands)				
Assets				
Assets				
Assets				
Current assets:				
Current assets:				
Current assets:	Current assets:	2023	2022	
Cash and cash equivalents	Cash and cash equivalents	\$ 115,679	\$ 163,457	2024
Receivables - net	Receivables - net	590,886	537,313	2023
Inventories - net	Inventories - net	454,775	383,398	
Prepaid expenses and other current assets	Prepaid expenses and other current assets	67,970	48,803	
Total current assets	Total current assets	1,229,310	1,132,971	
Total current assets				

Total current assets			
Goodwill	Goodwill	2,784,201	1,804,693
Property, plant and equipment - net	Property, plant and equipment - net	392,846	353,442
Intangible assets - net	Intangible assets - net	672,744	329,402
Operating right of use lease assets	Operating right of use lease assets	106,176	102,279
Deferred income taxes	Deferred income taxes	16,022	10,447
Other assets	Other assets	50,471	87,141
		\$5,251,770	\$3,820,375
\$			
Liabilities and shareholders' equity			
Current liabilities:	Current liabilities:		
Current maturities of long - term debt	Current maturities of long - term debt	\$ 115,662	\$ 392,537
Current liabilities:	Current liabilities:		
Current maturities of long-term debt and notes payable	Current maturities of long-term debt and notes payable		
Current maturities of long-term debt and notes payable	Current maturities of long-term debt and notes payable		
Current maturities of long-term debt and notes payable	Current maturities of long-term debt and notes payable		
Accrued liabilities	Accrued liabilities	199,588	206,828
Accounts payable	Accounts payable	106,320	99,276
Customer advance payments	Customer advance payments	93,389	92,584
Income taxes payable	Income taxes payable	45,359	22,333
Operating lease liability - current	Operating lease liability - current	16,853	15,738
Finance lease liability	Finance lease liability	4,918	4,907
Total current liabilities			
Total current liabilities			
Total current liabilities	Total current liabilities	582,089	834,203
Long-term debt	Long-term debt	1,621,394	345,320
Operating lease liability - noncurrent	Operating lease liability - noncurrent	92,412	90,768
Deferred income taxes	Deferred income taxes	210,637	110,781
Postretirement obligations	Postretirement obligations	50,862	56,804
Pension obligations	Pension obligations	40,425	40,551
Finance lease liability - noncurrent	Finance lease liability - noncurrent	11,670	11,184

Other long-term liabilities	Other long-term liabilities	44,221	36,389
Shareholders' equity:	Shareholders' equity:		
Preferred shares, no par value; 10,000 shares authorized; none issued	Preferred shares, no par value; 10,000 shares authorized; none issued	—	—
Preferred shares, no par value; 10,000 shares authorized; none issued	Preferred shares, no par value; 10,000 shares authorized; none issued		
Common shares, no par value; 160,000 shares authorized;	Common shares, no par value; 160,000 shares authorized;		
98,023 shares issued at October 31, 2023 and 2022	12,253	12,253	
98,023 shares issued at October 31, 2024 and 2023			
98,023 shares issued at October 31, 2024 and 2023			
98,023 shares issued at October 31, 2024 and 2023			
Capital in excess of stated value	Capital in excess of stated value	668,097	626,697
Retained earnings	Retained earnings	3,989,353	3,652,216
Accumulated other comprehensive loss	Accumulated other comprehensive loss	(196,441)	(207,782)
Common shares in treasury, at cost	Common shares in treasury, at cost	(1,875,202)	(1,789,009)
Total shareholders' equity	Total shareholders' equity	2,598,060	2,294,375
		\$5,251,770	\$3,820,375
		\$	=

The accompanying notes are an integral part of the consolidated financial statements.

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Consolidated Statements of Shareholders' Equity

Years ended October 31, 2023, 2022 and 2021

Years ended
October 31,
2024, 2023
and 2022

(In thousands, except for per share data)

Foreign currency translation adjustments	Foreign currency translation adjustments	—	—	—	(126,657)	—	(126,657)
Pension plan settlement adjustment	Pension plan settlement adjustment	—	—	—	33,271	—	33,271
Defined benefit pension and post-retirement plans adjustment	Defined benefit pension and post-retirement plans adjustment	—	—	—	61,439	—	61,439
October 31, 2022	October 31, 2022	\$ 12,253	\$ 626,697	\$3,652,216	\$ (207,782)	\$ (1,789,009)	\$ 2,294,375
Shares issued under company stock and employee benefit plans	Shares issued under company stock and employee benefit plans	—	17,858	—	—	3,515	21,373
Stock-based compensation	Stock-based compensation	—	23,542	—	—	—	23,542
Purchase of treasury shares	Purchase of treasury shares	—	—	—	—	(89,708)	(89,708)
Dividends declared (\$2.63 per share)	Dividends declared (\$2.63 per share)	—	—	(150,356)	—	—	(150,356)
Net income	Net income	—	—	487,493	—	—	487,493
Other comprehensive income (loss):	Other comprehensive income (loss):	—	—	—	—	—	—
Other comprehensive income (loss):	Other comprehensive income (loss):	—	—	—	—	—	—
Foreign currency translation adjustments	Foreign currency translation adjustments	—	—	—	26,766	—	26,766
Defined benefit pension and post-retirement plans adjustment	Defined benefit pension and post-retirement plans adjustment	—	—	—	(15,425)	—	(15,425)
Defined benefit pension and post-retirement plans adjustment	Defined benefit pension and post-retirement plans adjustment	—	—	—	(15,425)	—	(15,425)

Defined benefit pension and post-retirement plans adjustment	October 31, 2023	October 31, 2023	\$ 12,253	\$ 668,097	\$3,989,353	\$ (196,441)	\$ (1,875,202)	\$2,598,060
Shares issued under company stock and employee benefit plans								
Stock-based compensation								
Purchase of treasury shares								
Dividends declared (\$2.82 per share)								
Net income								
Other comprehensive income (loss):								
Other comprehensive income (loss):								
Other comprehensive income (loss):								
Foreign currency translation adjustments								
Foreign currency translation adjustments								
Foreign currency translation adjustments								
Defined benefit pension and post-retirement plans adjustment								
Defined benefit pension and post-retirement plans adjustment								
Defined benefit pension and post-retirement plans adjustment								
October 31, 2024								

The accompanying notes are an integral part of the consolidated financial statements.

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Consolidated Statements of Cash Flows

Years ended October 31, 2023, 2022 and 2021	
Years ended October 31, 2024, 2023 and 2022	
(In thousands)	(In thousands)

(in thousands)							
(in thousands)							
Cash flows from operating activities:							
Cash flows from operating activities:							
Cash flows from operating activities:	Cash flows from operating activities:	2023	2022	2021			
Net income	Net income	\$ 487,493	\$513,103	\$454,368			
Adjustments to reconcile net income to net cash provided by operating activities:	Adjustments to reconcile net income to net cash provided by operating activities:						
Depreciation	Depreciation	52,179	49,098	53,332			
Amortization	Amortization	59,719	50,825	50,551			
Provision for losses on receivables	Provision for losses on receivables	283	1,259	32			
Deferred income taxes	Deferred income taxes	(16,116)	(10,732)	4,071			
Non-cash stock compensation	Non-cash stock compensation	22,710	30,748	22,757			
Loss (gain) on sale of property, plant and equipment	Loss (gain) on sale of property, plant and equipment	1,092	(581)	589			
Pension settlement charge for U.S. Plans	Pension settlement charge for U.S. Plans	—	41,221	—			
Pension settlement charge for U.S. Plans							
Other non-cash	Other non-cash	8,136	1,259	4,907			
Changes in operating assets and liabilities:	Changes in operating assets and liabilities:						
Receivables	Receivables						
Receivables	Receivables	18,185	(72,907)	(13,720)			
Inventories	Inventories	22,418	(69,132)	(50,584)			
Prepaid expenses	Prepaid expenses	(14,677)	(1,708)	(5,209)			
Accounts payable							
Accounts payable							
Accounts payable	Accounts payable	(15,820)	10,671	20,769			

2024 2023 2022

Income taxes payable	Income taxes payable	17,722	6,155	8,659
Accrued liabilities	Accrued liabilities	(28,620)	925	32,929
Customer advance payments	Customer advance payments	(2,779)	18,682	36,167
Other	Other	29,357	(55,755)	(73,691)
Other				
Other				
Net cash provided by operating activities	Net cash provided by operating activities	641,282	513,131	545,927
Cash flows from investing activities:	Cash flows from investing activities:			
Additions to property, plant and equipment				
Additions to property, plant and equipment				
Additions to property, plant and equipment	Additions to property, plant and equipment	(34,583)	(51,428)	(38,303)
Proceeds from sale of property, plant and equipment	Proceeds from sale of property, plant and equipment	101	280	163
Acquisition of businesses, net of cash acquired	Acquisition of businesses, net of cash acquired	(1,422,780)	(171,613)	—
Other	Other	20,383	—	4,971
Net cash used in investing activities	Net cash used in investing activities	(1,436,879)	(222,761)	(33,169)
Cash flows from financing activities:	Cash flows from financing activities:			
Proceeds from long-term debt	Proceeds from long-term debt	2,178,596	63,067	9,414
Repayment of long-term debt	Repayment of long-term debt	(1,202,553)	(96,975)	(298,830)
Proceeds from issuance of debt				
Proceeds from issuance of debt				
Proceeds from issuance of debt				
Repayment of debt				
Repayment of capital lease obligations	Repayment of capital lease obligations	(6,840)	(5,439)	(6,624)
Issuance of common shares				
Issuance of common shares				
Issuance of common shares	Issuance of common shares	21,373	12,124	31,780
Purchase of treasury shares	Purchase of treasury shares	(89,708)	(262,869)	(60,970)
Dividends paid	Dividends paid	(150,356)	(125,914)	(97,683)

Net cash provided (used) in financing activities	Net cash provided (used) in financing activities	750,512	(416,006)	(422,913)
Effect of exchange rate changes on cash	Effect of exchange rate changes on cash	(2,693)	(10,879)	1,834
Increase (decrease) in cash and cash equivalents	Increase (decrease) in cash and cash equivalents	(47,778)	(136,515)	91,679
Cash and cash equivalents at beginning of year	Cash and cash equivalents at beginning of year	163,457	299,972	208,293
Cash and cash equivalents at end of year	Cash and cash equivalents at end of year	<u>\$ 115,679</u>	<u>\$163,457</u>	<u>\$299,972</u>

The accompanying notes are an integral part of the consolidated financial statements.

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Notes to Consolidated Financial Statements

NOTE REGARDING AMOUNTS AND FISCAL YEAR REFERENCES

In this annual report, all amounts related to United States dollars and foreign currency and to the number of Nordson Corporation's common shares, except for per share earnings and dividend amounts, are expressed in thousands. Unless the context otherwise indicates, all references to "we" or the "Company" mean Nordson Corporation.

Unless otherwise noted, all references to years relate to our fiscal year.

Note 1 — Significant accounting policies

Consolidation — The consolidated financial statements include the accounts of Nordson Corporation and its 100%-owned and controlled subsidiaries. Investments in affiliates and joint ventures in which our ownership is 50 percent or less or in which we do not have control but have the ability to exercise significant influence, are accounted for under the equity method. All significant intercompany accounts and transactions have been eliminated in consolidation.

Use of estimates — The preparation of financial statements in conformity with generally accepted accounting principles in the United States requires management to make estimates and assumptions that affect the amounts reported in the Consolidated Financial Statements and notes. Actual amounts could differ from these estimates.

Fiscal year — Our fiscal year is November 1 through October 31.

Revenue recognition — A contract exists when it has approval and commitment from both parties, the rights of the parties are identified, payment terms are identified, the contract has commercial substance and collectability of the consideration is probable. Revenue is recognized when performance obligations under the terms of the contract with a customer are satisfied. Generally, our revenue results from short-term, fixed-price contracts and primarily is recognized as of a point in time when the product is shipped or at a later point when the control of the product transfers to the customer. **Revenue** For products in which control transfers upon delivery, revenue is deferred for undelivered items is deferred and included within Accrued liabilities in our Consolidated Balance Sheets. Revenues deferred as of **October 31, 2023** **October 31, 2024** and **2022** **2023** were not material.

However, for certain contracts related to the sale of customer-specific products within our Medical and Fluid Solutions segment, revenue is recognized for these contracts over time as we satisfy performance obligations because of the continuous transfer of control to the customer. The continuous transfer of control to the customer occurs as we enhance assets that are customer controlled, and we are contractually entitled to payment for work performed to date plus a reasonable margin.

As control transfers over time for these products or services, revenue is recognized based on progress toward completion of the performance obligations. The selection method to measure progress towards completion requires judgment and is based on the nature of the products or services to be provided. We have elected to use the input method – costs incurred for these contracts because it best depicts the transfer of products or services to the customer based on incurring costs on the contract. Under this method, revenues are recorded proportionally as costs are incurred. Contract assets recognized are recorded in Prepaid expenses and other current assets and contract liabilities are recorded in Accrued liabilities in our Consolidated Balance Sheets and were not material at **October 31, 2023** **October 31, 2024** or **2022**, **2023**. Revenue recognized over time represented approximately less than ten percent of our overall consolidated revenues at **October 31, 2023** or **2022** for **October 31, 2024** and **2023**.

Revenue is measured as the amount of consideration we expect to receive be entitled to in exchange for transferring products or services. Taxes, including sales and value add, that we collect concurrently with revenue-producing activities are excluded from revenue. As a practical expedient, we may exclude the assessment of whether goods or services are performance obligations, if they are immaterial in the context of the contract and combine these with other performance obligations. While payment terms and conditions vary by contract type, we have determined that our contracts generally do not include a significant financing component. We have elected to apply the practical expedient to treat all shipping and handling costs as fulfillment costs, as a significant portion of these costs are incurred prior to transfer of control to the customer. We have also elected to apply the

practical expedient to expense sales commissions as they are incurred, as the amortization period resulting from capitalizing the costs is one year or less. These costs are recorded within **Selling general** and administrative expenses in our Consolidated Statements of Income.

We offer assurance-type warranties on our products as well as separately sold warranty contracts. Revenue related to warranty contracts that are sold separately is recognized over the life of the warranty term and is not material. Certain arrangements may include installation, installation supervision, training and spare parts, which tend to be completed in a short period of time, at an insignificant cost, and utilizing skills not unique to us, therefore, these items are typically regarded as inconsequential or not material.

We disclose disaggregated revenues by operating segment and geography in accordance with the revenue standard and on the same basis used internally by the chief operating decision maker for evaluating performance of operating segments and for allocating resources. Refer to Note **15** **14** for details on our operating segments.

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Notes to Consolidated Financial Statements — (Continued)

Shipping and handling costs — Amounts billed to customers for shipping and handling are recorded as revenue. Shipping and handling expenses are included in cost of sales.

Advertising costs — Advertising costs are expensed as incurred and were **were** **were** \$8,923, \$7,635 and \$7,028 in 2024, 2023 and \$5,986 in 2023, 2022, and 2021, respectively.

Research and development — Investments in research and development are important to our long-term growth, enabling us to keep pace with changing customer and marketplace needs through the development of new products and new applications for existing products. We place strong emphasis on technology developments and improvements through internal engineering and research teams. Research and development costs are expensed as incurred and were \$64,992, \$71,400 and \$52,531 in 2024, 2023 and \$59,422 in 2023, 2022, and 2021, respectively.

Earnings per share — Basic earnings per share are computed based on the weighted-average number of common shares outstanding during each year, while diluted earnings per share are based on the weighted-average number of common shares and common share equivalents outstanding. Common share equivalents consist of shares issuable upon exercise of stock options computed using the treasury stock method, as well as restricted stock and deferred stock-based compensation. Options whose exercise price is higher than the average market price are excluded from the calculation of diluted earnings per share because the effect would be anti-dilutive. Options for 140 common for 74 common shares were excluded from the diluted earnings per share calculation in 2023 **2024** and 78 **140** and 46 **78** options were excluded from the calculation of diluted earnings per share in 2022 **2023** and 2021 **2022**, respectively, because their effect would have been anti-dilutive. Under the 2021 Stock Incentive and Award Plan, executive officers and selected other key employees receive common share awards based on corporate performance measures over three-year performance periods. Awards for which performance measures have not been met were excluded from the calculation of diluted earnings per share.

Cash and cash equivalents — Highly liquid instruments with maturities of 90 days or less at date of purchase are considered to be cash equivalents.

Allowance for doubtful accounts — An allowance for doubtful accounts is maintained for estimated losses resulting from the inability of customers to make required payments. The amount of the allowance is determined principally on the basis of past collection experience and known factors regarding specific customers. Accounts are written off against the allowance when it becomes evident that collection will not occur. Credit is extended to customers satisfying pre-defined credit criteria. We believe we have limited concentration of credit risk due to the diversity of our customer base.

Our primary allowance for credit losses is the allowance for doubtful accounts, which is principally determined based on aging of receivables. Receivables are exposed to credit risk based on the customers' ability to pay which is influenced by, among other factors, their financial liquidity. We perform ongoing customer credit evaluation to maintain sufficient allowances for potential credit losses. Our segments perform credit evaluation and monitoring to estimate and manage credit risk through the review of customer information, credit ratings, approval and monitoring of customer credit limits and assessment of market conditions. We may also require prepayments or bank guarantees from customers to mitigate credit risk. Our receivables are generally short-term in nature with a majority of receivables outstanding less than 90 days. Accounts receivable balances are written-off against the allowance if deemed uncollectible.

Accounts receivable are net of an allowance for credit losses of \$9,769 and \$10,015 at October 31, 2024 and \$8,218 at October 31, 2023 and October 31, 2022, respectively. The provision for losses on receivables was \$283 **\$619** for the twelve months ended October 31, 2023 October 31, 2024 compared to \$1,259 **\$283** for the same period a year ago. The remaining change in the allowance for credit losses is principally related to increases due to acquisitions and the write-off of uncollectible accounts.

Inventories — Inventories are valued at the lower of cost or net realizable value. Effective in the third quarter of 2022, we changed our accounting method for certain U.S. inventories from a last-in, first-out basis ("LIFO") to a first-in, first-out basis ("FIFO"). Previously, the LIFO method was used to determine the cost of a portion of our inventories in the U.S. We believe this change in accounting method is preferable as it is consistent with how we manage our business, results in a uniform method to value our inventory across all regions of our business, improves comparability with our peers and is expected to better reflect the current value of inventory on the consolidated balance sheets. We applied this accounting change as a cumulative effect adjustment to cost of sales in the third quarter of 2022 and did not restate prior period financial statements because the impact was not material.

Derivatives — The Company does not enter into derivative financial instruments for trading purposes. Derivative instruments are used to manage risks associated with foreign exchange rates. We operate internationally and enter into intercompany transactions denominated in foreign currencies. Consequently, we are subject to market risk arising from exchange rate movements between the dates foreign currency transactions occur and the dates they are settled. We regularly use foreign currency forward contracts to reduce our risks related to most of these transactions. These contracts usually have maturities of

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Notes to Consolidated Financial Statements — (Continued)

90 days or less and generally require us to exchange foreign currencies for U.S. dollars at maturity, at rates stated in the contracts. These contracts are not designated as hedging instruments under U.S. GAAP. Accordingly, the changes in the fair value of the foreign currency forward contracts are recognized in each accounting period in "Other – net" on the Consolidated Statements of Income together with the transaction gain or loss from the related balance sheet position. The settlement of these contracts is recorded in operating activities on the Consolidated Statements of Cash Flows.

We utilize net investment hedges to offset the translation adjustment arising from re-measuring our investment in foreign subsidiaries. These hedges are included on the balance sheet at fair value. Changes in the fair value of derivative assets or liabilities (i.e., gains or losses) are recognized depending upon the type of hedging relationship and whether a hedge has been designated. For derivative instruments that qualify for hedge accounting and are used to hedge net assets of certain foreign subsidiaries, we designate the hedging instrument as a hedge of a net investment in a foreign operation with the effective portion of the derivative's gain or loss reported in Accumulated other comprehensive loss as part of the cumulative translation adjustment and amounts reclassified out of accumulated other comprehensive loss into earnings when the hedged net investment is either sold or substantially liquidated. The settlement of these hedges is recorded in investing activities on the Consolidated Statement of Cash Flows. Changes in fair value of derivative instruments that do not qualify for hedge accounting are recognized immediately in current net earnings in "Other-net" on the Consolidated Statements of Income.

The Company has entered into treasury locks to fix the interest rate related to notes issued. The derivative positions are closed when the debt is priced with a cash settlement net payment that offsets changes in the benchmark treasury rate between execution of the treasury rate locks and the debt pricing date. The treasury locks are designed as cash flow hedges and the deferred amounts are reported in Accumulated Other Comprehensive Income (loss) ("AOCI") and subsequently reclassified to interest expense as payments are made on the notes through the maturity date.

Property, plant and equipment and depreciation — Property, plant and equipment are carried at cost. Additions and improvements that extend the lives of assets are capitalized, while expenditures for repairs and maintenance are expensed as incurred. Plant and equipment are depreciated for financial reporting purposes using the straight-line method over the estimated useful lives of the assets or, in the case of property under finance leases, over the terms of the leases. Leasehold improvements are depreciated over the shorter of the lease term or their useful lives.

Useful lives are as follows:

Land improvements	15-25 years
Buildings	20-40 years
Machinery and equipment	3-18 years
Enterprise management systems	5-13 years

Depreciation expense is included in Cost of sales and Selling and administrative expenses on the Consolidated Statements of Income. Internal use software costs are expensed or capitalized depending on whether they are incurred in the preliminary project stage, application development stage or the post-implementation stage. Amounts capitalized are amortized over the estimated useful lives of the software beginning with the project's completion. All re-engineering costs are expensed as incurred. Interest costs on significant capital projects are capitalized. No interest was capitalized in 2024, 2023 2022 or 2021 2022.

Goodwill and intangible assets — Goodwill is the excess of cost of an acquired entity over the amounts assigned to assets acquired and liabilities assumed in a business combination. Goodwill relates to and is assigned directly to specific reporting units. Goodwill is not amortized but is subject to annual impairment testing. Our annual impairment testing is performed as of August 1. Testing is done more frequently if an event occurs or circumstances change that would indicate the fair value of a reporting unit is less than the carrying amount of those assets.

The acquisitions of our businesses are accounted for under the acquisition method of accounting. The amounts assigned to the identifiable assets acquired and liabilities assumed in connection with acquisitions are based on estimated fair values as of the date of the acquisition, with the remainder, if any, recorded as goodwill. The fair values are determined by management, taking into consideration information supplied by the management of the acquired entities, and other relevant information. Such information typically includes valuations obtained from independent appraisal experts, which management reviews and considers in its estimates of fair values. The valuations are generally based upon future cash flow projections for the acquired assets, discounted to present value. Determining the fair value of assets acquired and liabilities assumed requires management's judgment and often involves the use of significant estimates and assumptions, including assumptions with respect to future revenue growth rates and EBITDA margins, discount rates, customer attrition rates, and asset lives, among other items. This judgment could result in either a higher or lower value assigned to amortizable or depreciable assets. The impact could result in either higher or lower amortization and/or depreciation expense.

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Notes to Consolidated Financial Statements —(Continued)

Other amortizable intangible assets, which consist primarily of patent/technology costs, customer relationships, non-compete agreements and trade names, are amortized over their useful lives on a straight-line basis.

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Notes to Consolidated Financial Statements —(Continued)

At **October 31, 2023** **October 31, 2024**, the weighted-average useful lives for each major category of amortizable intangible assets were:

Patent/technology costs	11 years
Customer relationships	17 years
Noncompete agreements	4 years
Trade names	14 10 years

Foreign currency translation — The financial statements of subsidiaries outside the United States are generally measured using the local currency as the functional currency. Assets and liabilities of these subsidiaries are translated at the rates of exchange at the balance sheet dates. Income and expense items are translated at average monthly rates of exchange. The resulting translation adjustments are included in **Accumulated other comprehensive income (loss)**, **AOCI**, a separate component of Shareholders' equity. Generally, gains and losses from foreign currency transactions, including forward contracts, of these subsidiaries and the United States parent are included in net income. Gains and losses from intercompany foreign currency transactions of a long-term investment nature are included in **Accumulated other comprehensive income (loss)**, **AOCI**.

Accumulated other comprehensive loss — Accumulated other comprehensive loss at **October 31, 2023** **October 31, 2024** and **2022** **2023** consisted of:

	Cumulative translation adjustments	Pension and postretirement benefit plan adjustments	Accumulated other comprehensive loss
Balance at October 31, 2022	\$ (160,046)	\$ (47,736)	\$ (207,782)
Pension and postretirement plan changes, net of tax of \$4,774	—	(15,425)	(15,425)
Cumulative translation adjustments			
Balance at October 31, 2023			
Pension and postretirement plan changes, net of tax of \$1,716			
Currency translation losses	Currency translation losses	26,766	—
Balance at October 31, 2023	\$ (133,280)	\$ (63,161)	\$ (196,441)
Balance at October 31, 2024			

Warranties — We offer warranties to our customers depending on the specific product and terms of the customer purchase agreement. A typical warranty program requires that we repair or replace defective products within a specified time period (generally one year) measured from the date of delivery or first use. We record an estimate for future warranty-related costs based on actual historical return rates. Based on analysis of return rates and other factors, the adequacy of our warranty provisions is adjusted as necessary. The liability for warranty costs is included in Accrued liabilities in the Consolidated Balance Sheets.

Following is a reconciliation of the product warranty liability as of **October 31, 2023** **October 31, 2024** and **2022** **2023**:

	2023	2022	2024	2023
Balance at beginning of year	Balance at beginning of year	\$11,723	\$11,113	
Accruals for warranties	Accruals for warranties	20,910	17,188	
Warranty payments	Warranty payments	(16,171)	(14,609)	
Currency adjustments	Currency adjustments	(2,061)	(1,969)	

Balance at end of year	Balance at end of year	\$14,401	\$11,723
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Note 2 — Recently issued accounting standards

Therein November 2023, the FASB issued ASU 2023-07, *Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures*. ASU 2023-07 requires enhanced disclosures about significant segment expenses and enhanced disclosures in interim periods. The guidance in ASU 2023-07 will be applied retrospectively and is effective for annual reporting periods in fiscal years beginning after December 15, 2023 and interim reporting periods in fiscal years beginning after December 31, 2024, with early adoption permitted. The Company is currently evaluating the impact that the adoption of ASU 2023-07 will have been no new material accounting standards on its consolidated financial statements and disclosures and anticipates adoption in 2025.

In December 2023, the FASB issued which would ASU 2023-09, *Income Taxes (Topic 740): Improvements to Income Tax Disclosures*. ASU 2023-09 is intended to improve income tax disclosure requirements by requiring specific disclosure in the rate reconciliation and additional information for reconciling items that meet a quantitative threshold. The guidance in ASU 2023-09 will be effective for annual reporting periods in fiscal years beginning after December 15, 2024. The Company is currently evaluating

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Notes to Consolidated Financial Statements —(Continued)

the impact that the adoption of ASU 2023-09 will have on its consolidated financial statements and disclosures and anticipates adoption in fiscal 2026.

In November 2024, the FASB issued ASU 2024-03, *Income Statement (Topic 220): Reporting Comprehensive Income*. ASU 2024-03 does not change or remove current expense presentation requirements within the Consolidated Statements of Income. However, the amendments require either disclosure, or on an annual and interim basis, disaggregated information about certain income statement expense line items within the notes to the consolidated financial statements. The amendments in this update are effective for annual reporting periods beginning after December 15, 2026, and interim reporting periods beginning after December 15, 2027. The Company is currently evaluating the impact that the adoption during the current period of ASU 2024-03 will have on its consolidated financial statements and disclosures and anticipates adoption in fiscal 2028.

Note 3 — Acquisitions

Business acquisitions have been accounted for using the acquisition method, with the acquired assets and liabilities recorded at estimated fair value on the dates of acquisition. The cost in excess of the net assets of the business acquired is included in goodwill. Operating results since the respective dates of acquisitions are included in the Consolidated Statements of Income.

2024 Acquisition

On August 21, 2024, the Company completed the acquisition of Atrion Corporation, a Delaware corporation ("Atrion"), pursuant to the terms of the Agreement and Plan of Merger (the "Merger Agreement"), dated May 28, 2024, with Alpha Medical Merger Sub, Inc., a Delaware corporation and a wholly owned subsidiary of Nordson Corporation 39

("Merger Sub"), and Atrion. Pursuant to the Merger Agreement, Merger Sub merged with and into Atrion (the "Merger"), with Atrion surviving the Merger as a wholly owned subsidiary of Nordson. Atrion is a leader in Notes proprietary medical infusion fluid delivery and niche cardiovascular solutions and will operate within our Medical and Fluid Solutions segment. The all-cash acquisition of Atrion of \$789,996, net of cash acquired, was funded using borrowings under our revolving credit facility and the 364-day term loan agreement with a group of banks for a delayed draw term loan facility in the aggregate principal amount of \$500,000 (the "364-Day Term Loan Agreement") (see Note 8 to the Consolidated Financial Statements —(Continued) for additional details) and cash on hand. Based on the fair value of the assets acquired and the liabilities assumed, a preliminary purchase price allocation resulted in the recognition of \$494,279 of goodwill and \$129,600 of identifiable intangible assets. The identifiable intangible assets consist primarily of \$40,100 of tradenames (amortized over 15 years), \$24,900 of technology (amortized over 15 years), and \$64,600 of customer relationships (amortized over 19 years). Goodwill associated with the acquisition was not tax deductible. As of October 31, 2024, the purchase price allocation remains preliminary as we complete our assessment, principally related to income taxes. The financial results of the Atrion acquisition are not expected to have a material impact on our Consolidated Financial Statements.

The assets and liabilities acquired were as follows:

	August 21, 2024
Cash	\$ 24,428
Receivables - net	20,883
Inventories - net	64,801
Goodwill	494,279
Intangibles	129,600
Other assets	158,059
Total Assets	\$ 892,050
Accounts payable	\$ 25,587
Deferred income taxes	31,221
Other liabilities	20,818
Total Liabilities	\$ 77,626

2023 Acquisitions

On August 24, 2023, the Company completed the acquisition of the ARAG Group and its subsidiaries ("ARAG Group" or "ARAG") pursuant to the terms of the Sale and Purchase Agreement, dated as of June 25, 2023, by and among the Company, its Italian subsidiary, Capvis Equity V LP, DRIP Co-Investment, and certain individuals. ARAG is a global market and innovation leader in the development, production and supply of precision control systems and smart fluid components for agricultural spraying. ARAG operates as a division of our Industrial Precision Solutions segment. In anticipation of the acquisition, the Company entered into a €760,000 senior unsecured term loan facility with a group of banks in August 2023 (the "364-Day

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Notes to Consolidated Financial Statements —(Continued)

Term Loan Facility"). The all-cash ARAG acquisition of approximately €957,000, net of the repayment of approximately €30,300 of debt of the acquired companies, was funded using borrowings under the 364-Day Term Loan Facility and the Company's revolving credit facility. The 364-Day Term Loan Facility was subsequently paid off in September 2023 with the net proceeds of a senior notes offering (see Note 98 to the Consolidated Financial Statements for additional details). Based on the fair value of the assets acquired and the liabilities assumed, goodwill of \$694,900 \$684,938 and identifiable intangible assets of \$353,500 were recorded. The identifiable intangible assets consist primarily of \$27,500 of tradenames (amortized over nine years) 9 years, \$31,000 of technology (amortized over five years) 5 years, and \$295,000 of customer relationships (amortized over twenty-two years) 22 years. Goodwill associated with the acquisition was not tax deductible. As of October 31, 2023 October 31, 2024, the purchase price allocation remains preliminary as we complete our assessment principally of income taxes. is final. The financial results of the ARAG Group acquisition are not expected to have a material impact on our Consolidated Financial Statements.

The assets and liabilities acquired were as follows:

	August 24, 2023
Cash	\$ 32,966
Receivables - net	29,765 31,081
Inventories - net	54,389 54,252
Goodwill	694,900 684,938
Intangibles	353,500
Other assets	50,379 55,963
Total Assets	\$ 1,215,899 1,212,700
Accounts payable	\$ 18,915
Deferred income taxes	103,157 100,097
Other liabilities	15,924 15,785
Total Liabilities	\$ 137,996 134,797

On November 3, 2022, we acquired 100% of CyberOptics Corporation ("CyberOptics"). CyberOptics is a leading global developer and manufacturer of high-precision 3D optical sensing technology solutions. The CyberOptics acquisition expanded our test and inspection platform, providing differentiated technology that expands our product offering in the semiconductor and electronics industries and is reported in our Advanced Technology Solutions segment. We acquired CyberOptics for an aggregate purchase price of \$377,843, net of cash of approximately \$40,890, funded using borrowings under our revolving credit facility and cash on hand. Based on the fair value of the assets acquired and the liabilities assumed, goodwill of \$285,330 and identifiable intangible assets of \$58,600 were recorded. The identifiable intangible assets consist primarily of \$15,200 of tradenames (amortized over 15 years), \$14,600 of technology (amortized over 7 years), and \$28,800 of customer relationships (amortized over 12 years). Goodwill associated with the acquisition was not

tax deductible. As of **October 31, 2023** **October 31, 2024**, the purchase price allocation **is** **was** final. The **financial** results of CyberOptics are not material to our Consolidated Financial Statements.

The assets and liabilities acquired were as follows:

	November 3, 2022
Cash	\$ 40,890
Receivables - net	21,364
Inventories - net	33,639
Goodwill	285,330
Intangibles	58,600
Other assets	13,768
Total Assets	\$ 453,591
Accounts payable	\$ 8,109
Deferred income taxes	14,826
Other liabilities	11,923
Total Liabilities	\$ 34,858

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Notes to Consolidated Financial Statements — (Continued)

The assets and liabilities acquired were as follows: 2022 Acquisition

	November 3, 2022
Cash	\$ 40,890
Receivables - net	21,364
Inventories - net	33,639
Goodwill	285,330
Intangibles	58,600
Other assets	13,768
Total Assets	\$ 453,591
Accounts payable	\$ 8,109
Deferred income taxes	14,826
Other liabilities	11,923
Total Liabilities	\$ 34,858

2022 acquisition

On November 1, 2021, we acquired **100 percent** **100%** of NDC Technologies ("NDC"), a leading global provider of precision measurement solutions for in-line manufacturing process control. NDC's technology portfolio includes in-line measurement sensors, gauges and analyzers using near-infrared, laser, X-ray, optical and nucleonic technologies, as well as proprietary algorithms and software. We acquired NDC for an aggregate purchase price of \$171,613, net of cash of approximately \$7,533 and other working capital adjustments of \$2,763, utilizing cash on hand. Based on the fair value of the assets acquired and the liabilities assumed, goodwill of \$131,129 and identifiable intangible assets of \$31,130 were recorded. The identifiable intangible assets consist primarily of \$10,800 of tradenames (amortized over 13 years), \$10,000 of technology (amortized over 7 years), \$9,500 of customer relationships (amortized over 4 years) and \$830 of non-compete agreements (amortized over 3 years). Goodwill associated with this acquisition of \$72,018 is tax deductible. This acquisition is being reported in our Industrial Precision Solutions segment and the **financial** results of NDC are not material to our Consolidated Financial Statements.

Note 4 — Details of Consolidated Balance Sheet	2024		2023	
	\$	\$	\$	\$
Receivables:				
Accounts	\$ 571,381	\$ 558,393		
Notes	595	662		
Other	32,456	41,845		

	604,432		600,901
Allowance for doubtful accounts	(9,769)		(10,015)
	\$ 594,663	\$	590,886
Inventories:			
Finished goods	\$ 256,465	\$	233,552
Raw materials and component parts	250,477		211,874
Work-in-process	55,790		86,474
	562,732		531,900
Obsolescence and other reserves	(85,797)		(77,125)
	\$ 476,935	\$	454,775
Property, plant and equipment:			
Land	\$ 32,018	\$	15,792
Land improvements	4,822		5,019
Buildings	354,854		294,267
Machinery and equipment	649,510		549,291
Enterprise management system	53,401		52,939
Construction-in-progress	58,362		24,916
Leased property under finance leases	29,404		28,406
	1,182,371		970,630
Accumulated depreciation	(637,764)		(577,784)
	\$ 544,607	\$	392,846
Accrued liabilities:			
Salaries and other compensation	\$ 77,799	\$	63,130
Interest	13,800		11,240
Taxes other than income taxes	13,560		14,894
Warranty	13,538		14,401
Net Investment Contracts	10,675		—
Pension and other employee benefits	8,919		8,686
Commissions and rebates	6,844		8,823
Foreign currency forward contracts	5,508		10,425
Other	74,588		67,989
	\$ 225,231	\$	199,588

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Notes to Consolidated Financial Statements —(Continued)

Note 4 — Details of Consolidated Balance Sheet	2023	2022
Receivables:		
Accounts	\$ 558,393	\$ 510,300
Notes	662	417
Other	41,845	34,814
	600,901	545,531
Allowance for doubtful accounts	(10,015)	(8,218)
	\$ 590,886	\$ 537,313
Inventories:		
Finished goods	\$ 233,552	\$ 218,491
Raw materials and component parts	211,874	157,447

Work-in-process		86,474	53,195
Obsolescence and other reserves		531,900	429,133
		(77,125)	(45,735)
	\$	454,775	\$ 383,398
Property, plant and equipment:			
Land	\$	15,792	\$ 9,278
Land improvements		5,019	4,979
Buildings		294,267	271,450
Machinery and equipment		549,291	505,343
Enterprise management system		52,939	52,513
Construction-in-progress		24,916	31,466
Leased property under finance leases		28,406	27,512
		970,630	902,541
Accumulated depreciation		(577,784)	(549,099)
	\$	392,846	\$ 353,442
Accrued liabilities:			
Salaries and other compensation	\$	63,130	\$ 81,181
Taxes other than income taxes		14,894	14,869
Warranty		14,401	11,723
Interest		11,240	6,018
Foreign currency forward contracts		10,425	11,724
Pension and retirement		5,445	4,456
Customer commissions		3,065	3,526
Other		76,988	73,331
	\$	199,588	\$ 206,828

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Notes to Consolidated Financial Statements — (Continued)

Note 5 — Goodwill and intangible assets

We account for goodwill and other intangible assets in accordance with the provisions of ASC 350 and account for business combinations using the acquisition method of accounting and accordingly, the assets and liabilities of the entities acquired are recorded at their estimated fair values at the acquisition date. Goodwill is the excess of purchase price over the fair value of tangible and identifiable intangible net assets acquired in various business combinations. Goodwill is not amortized but is subject to annual impairment testing. Our annual impairment testing is performed as of August 1. Testing is done more frequently if an event occurs or circumstances change that would indicate the fair value of a reporting unit is less than the carrying amount of those assets. We assess the fair value of reporting units on a non-recurring basis using a quantitative analysis that uses a combination of the **discounted cash flow method** of the Income Approach and the guideline public company method of the Market Approach, and compare the result against the reporting unit's carrying value of net assets. The implied fair value of our reporting units is determined based on significant unobservable inputs, as discussed below; accordingly, these inputs fall within Level 3 of the fair value hierarchy. The **discounted cash flow method ("Income Approach") Approach** uses assumptions for revenue growth, operating margin and working capital turnover that are based on management's strategic plans tempered by performance trends and reasonable expectations about those trends. Terminal value calculations employ a published formula known as the Gordon Growth Model Method that essentially captures the present value of perpetual cash flows beyond the last projected period assuming a constant Weighted Average Cost of Capital ("WACC") methodology and growth rate. For each reporting unit, a sensitivity analysis is performed to vary the discount and terminal growth rates in order to provide a range of reasonableness for detecting impairment. Discount rates are developed using a WACC methodology. The WACC represents the blended average required rate of return for equity and debt capital based on observed market return data and company specific risk factors.

In the application of the guideline public company method, ("Market Approach"), fair value is determined using transactional evidence for similar publicly traded equity. The comparable company guideline group is determined based on relative similarities to each reporting unit since exact correlations are not available. An indication of fair value for each reporting unit is based on the placement of each reporting unit within a range of multiples determined for its comparable guideline company group. Valuation multiples are derived by dividing latest twelve-month performance for revenues and Earnings Before Interest, Taxes, Depreciation and Amortization ("EBITDA") into total invested capital, which is the sum of traded equity plus interest bearing debt less cash. These multiples are applied against the revenue and EBITDA of each reporting unit. While the implied indications of fair value using the guideline public company method yield meaningful results, the discounted cash flow method of the **income approach** **Income Approach** includes management's thoughtful projections and insights as to what the reporting units will accomplish in the near future. Accordingly, the reasonable, implied fair value of each reporting unit is a blend based on the consideration of both the Income and Market approaches.

An impairment charge is recorded for the amount by which the carrying value of the reporting unit exceeds the fair value of the reporting unit, as calculated in the quantitative analysis described above. Based on our annual impairment tests in 2024, 2023 2022 and 2021, 2022, the fair value of each reporting unit exceeded its carrying value, and accordingly, we did not record any goodwill impairment charges in 2024, 2023 2022 or 2021, 2022.

Our reporting units include components of the Industrial Precision Solutions, Medical and Fluid Solutions, and the Advanced Technology Solutions segments. Changes in the carrying amount of goodwill during **2023** **2024** by operating segment:

	Industrial Precision Solutions	Medical Fluid Systems	Advanced Technology Systems	Total	Industrial Precision Solutions	Medical and Fluid Solutions	Advanced Technology Systems	Total
Balance at October 31, 2022	\$ 520,236	\$ 1,172,069	\$ 112,388	\$ 1,804,693				
Balance at October 31, 2023								
Acquisitions	Acquisitions	694,900	—	285,330	980,230			
Currency effect	Currency effect	(6,140)	1,789	3,629	(722)			
Balance at October 31, 2023		<u>\$1,208,996</u>	<u>\$1,173,858</u>	<u>\$ 401,347</u>	<u>\$2,784,201</u>			
Currency effect								
Currency effect								
Balance at October 31, 2024								

The increase in goodwill for **2023** **2024** was due to the acquisition of **CyberOptics** and the **ARAG Group**, **Atrion**. See Note 3 to the Consolidated Financial Statements for additional details.

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Notes to Consolidated Financial Statements — (Continued)

Changes in the carrying amount of goodwill during **2022** **2023** by operating segment:

	Industrial Precision Solutions	Medical Fluid Systems	Advanced Technology Systems	Total	Industrial Precision Solutions	Medical and Fluid Solutions	Advanced Technology Systems	Total
Balance at October 31, 2021	\$415,020	\$1,176,149	\$ 121,979	\$1,713,148				
Balance at October 31, 2022								
Acquisitions	Acquisitions	131,129	—	—	131,129			
Currency effect	Currency effect	(25,913)	(4,080)	(9,591)	(39,584)			
Balance at October 31, 2022		<u>\$520,236</u>	<u>\$1,172,069</u>	<u>\$ 112,388</u>	<u>\$1,804,693</u>			
Currency effect								

Currency effect
Balance at
October 31,
2023

The increase in goodwill for 2022 2023 was due to the acquisition of NDC CyberOptics and the ARAG Group. See Note 3 to the Consolidated Financial Statements for additional details.

Information regarding intangible assets subject to amortization:

		October 31, 2023					
		Carrying Amount	Accumulated Amortization	Net Book Value			
		October 31, 2024			October 31, 2024		
		Carrying Amount			Carrying Amount	Accumulated Amortization	Net Book Value
Customer relationships	Customer relationships	\$ 794,706	\$ 287,585	\$507,121			
Patent/technology costs	Patent/technology costs	204,905	112,994	91,911			
Trade names	Trade names	125,692	52,488	73,204			
Noncompete agreements	Noncompete agreements	10,028	9,521	507			
Other	Other	182	181	1			
Total	Total	\$1,135,513	\$ 462,769	\$672,744			
		October 31, 2022					
		Carrying Amount	Accumulated Amortization	Net Book Value			
		October 31, 2023			October 31, 2023		
		Carrying Amount			Carrying Amount	Accumulated Amortization	Net Book Value
Customer relationships	Customer relationships	\$480,058	\$ 250,798	\$229,260			
Patent/technology costs	Patent/technology costs	157,549	96,426	61,123			
Trade names	Trade names	82,759	44,707	38,052			
Noncompete agreements	Noncompete agreements	10,253	9,290	963			
Other	Other	446	442	4			
Total	Total	\$731,065	\$ 401,663	\$329,402			

Amortization expense for 2024, 2023 and 2022 was \$76,972, \$59,719 and 2021 was \$59,719, \$50,825, and \$50,551, respectively. See Note 3 for details regarding intangibles recorded due to the acquisition of CyberOptics and the ARAG Group acquisitions.

Estimated amortization expense for each of the five succeeding years:

Year	Year	Amounts	Year	Amounts
2024	2025	\$ 75,447	2026	
2025	2025	71,291	2026	67,226
2026	2026	67,226	2027	63,353
2027	2027	63,353	2028	60,135
2028	2028	60,135	2029	

Note 6 — Retirement, pension and other postretirement plans

Retirement plans — We have funded contributory retirement plans covering certain employees. Our contributions are primarily determined by the terms of the plans, subject to the limitation that they shall not exceed the amounts deductible for income tax purposes. We also sponsor unfunded contributory supplemental retirement plans for certain employees. Generally, benefits under these plans vest gradually over a period of approximately three years from date of employment and are based on the employee's contribution. The expense applicable to retirement plans for 2024, 2023 2022 and 2021 2022 was approximately \$30,564, \$29,511 and \$26,635, and \$22,983, respectively.

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Notes to Consolidated Financial Statements —(Continued)

Pension plans — We have various pension plans covering a portion of our United States and international employees. Pension plan benefits are generally based on years of employment and, for salaried employees, the level of compensation. Actuarially

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Notes to Consolidated Financial Statements —(Continued)

determined amounts are contributed to United States plans to provide sufficient assets to meet future benefit payment requirements. We also sponsor an unfunded supplemental pension plan for certain employees. International subsidiaries fund their pension plans according to local requirements.

During the second quarter of 2022, we completed a partial plan settlement transaction in ~~regards~~ regard to two of our U.S. pension plans in which plan assets amounting to \$171,181 were used to purchase a group annuity contract from The Prudential Insurance Company of America ("Prudential"). The settlement resulted in a loss of \$41,221, ~~which~~ which is included in Pension settlement charge for U.S. Plans on the Consolidated Statements of Income. This transaction relieved the Company of its responsibility for the pension obligation related to certain retired employees and transferred the obligation and payment responsibility to Prudential for retirement benefits owed to approximately 1,500 retirees and other beneficiaries. The annuity contract covered retirees who commenced receiving benefits on or before November 1, 2021. The monthly retirement benefit payment amounts currently received by retirees and their beneficiaries did not change as a result of this transaction. Plan participants not included in the transaction remain in the plans and responsibility for payment of the retirement benefits remains with the Company.

A reconciliation of the benefit obligations, plan assets, accrued benefit cost and the amount recognized in financial statements for pension plans is as follows:

	United States		International								
	2023	2022	2023	2022							
	United States					United States		International			
	2024		2024			2024	2023	2024	2023		
Change in benefit obligation:	Change in benefit obligation:				Change in benefit obligation:						
Benefit obligation at beginning of year	Benefit obligation at beginning of year										
Service cost	Service cost	10,973	16,820	1,096	1,693						
Interest cost	Interest cost	16,699	14,486	2,513	1,105						
Participant contributions	Participant contributions	—	—	79	72						
Settlements					Settlements						
Settlements	Settlements	(1,499)	(171,181)	(607)	(1,446)						
Curtailments	Curtailments	—	(2,715)	(2)	(705)						
Foreign currency exchange rate change	Foreign currency exchange rate change	—	—	3,566	(14,291)						
Actuarial (gain) loss	Actuarial (gain) loss	(4,120)	(165,697)	(2,361)	(29,414)						
Benefits paid	Benefits paid	(6,387)	(15,464)	(2,351)	(2,183)						
Benefit obligation at end of year	Benefit obligation at end of year	\$319,186	\$303,520	\$ 62,813	\$ 60,880						
Change in plan assets:	Change in plan assets:										

Change in plan assets:

Change in plan assets:

Beginning fair value of plan assets

Beginning fair value of plan assets

Beginning fair value of plan assets	Beginning fair value of plan assets	\$333,851	\$639,589	\$ 38,316	\$ 47,274
Actual return on plan assets	Actual return on plan assets	(6,307)	(121,912)	117	301
Company contributions	Company contributions	2,018	2,819	2,429	2,381
Participant contributions	Participant contributions	—	—	79	72
Settlements	Settlements	(1,499)	(171,181)	(607)	(1,446)
Foreign currency exchange rate change	Foreign currency exchange rate change	—	—	1,880	(8,083)
Benefits paid	Benefits paid	(6,387)	(15,464)	(2,351)	(2,183)
Ending fair value of plan assets	Ending fair value of plan assets	\$321,676	\$333,851	\$ 39,863	\$ 38,316
Funded status at end of year	Funded status at end of year	\$ 2,490	\$ 30,331	\$(22,950)	\$(22,564)

Funded status at end of year

Funded status at end of year

Amounts recognized in financial statements:	Amounts recognized in financial statements:				
Amounts recognized in financial statements:	Amounts recognized in financial statements:				
Noncurrent asset	Noncurrent asset				
Noncurrent asset	Noncurrent asset				
Noncurrent asset	Noncurrent asset	\$ 11,473	\$ 41,548	\$ 9,991	\$ 7,588
Accrued benefit liability	Accrued benefit liability	(1,494)	(813)	(5)	(5)
Long-term pension obligations	Long-term pension obligations	(7,489)	(10,404)	(32,936)	(30,147)
Total amount recognized in financial statements	Total amount recognized in financial statements	\$ 2,490	\$ 30,331	\$(22,950)	\$(22,564)

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Notes to Consolidated Financial Statements —(Continued)

The net actuarial loss included in the projected benefit obligation for the United States and international pension plans for 2024 was primarily due to lower discount rates partially offset by gains due to demographic experience. The actuarial gain included in the projected benefit obligation for the United States pension plans for 2023 was primarily due to higher discount rates partially offset by losses due to demographic experience. The net actuarial gain included in the projected benefit obligation for the United States pension plans for 2022 was primarily due to higher discount rates partially offset by an increase in the compensation increase assumption.

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Notes to Consolidated Financial Statements —(Continued)

Amounts recognized in accumulated other comprehensive loss (income):

	United States		International		United States		International	
	2023	2022	2023	2022	2024	2023	2024	2023
Net actuarial loss (gain)	Net actuarial loss (gain)	\$102,506	\$74,293	\$ (3,122)	\$ (2,280)			
Prior service cost (credit)	Prior service cost (credit)	—	—	(91)	(133)			
Accumulated other comprehensive loss (income)	Accumulated other comprehensive loss (income)	\$102,506	\$74,293	\$ (3,213)	\$ (2,413)			

The following table summarizes the changes in accumulated other comprehensive loss (income):

	United States		International		United States		International	
	2023	2022	2023	2022	2024	2023	2024	2023
Balance at beginning of year	Balance at beginning of year	\$ 74,293	\$142,118	\$ (2,413)	\$28,736			
Net loss (gain) arising during the year	Net loss (gain) arising during the year	28,303	(16,010)	(943)	(28,234)			
Net (gain) recognized during the year	Net (gain) recognized during the year							
Net (gain) recognized during the year	Net (gain) recognized during the year	—	(7,504)	(79)	(2,278)			
Prior service adjustment recognized during the year	Prior service adjustment recognized during the year	—	(48)	50	104			
Settlement (gain) loss	Settlement (gain) loss	(90)	(41,548)	425	29			
Curtailment (gain) loss	Curtailment (gain) loss	—	(2,715)	2	1,406			

Exchange rate effect during the year	Exchange rate effect during the year	—	—	(255)	(2,176)
Balance at end of year	Balance at end of year	<u>\$102,506</u>	<u>\$ 74,293</u>	<u>\$(3,213)</u>	<u>\$(2,413)</u>

Information regarding the funded status of the Company's plans is as follows:

	United States		International		
	2023	2022	2023	2022	
For plans with accumulated benefit obligation in excess of plan assets:	For plans with accumulated benefit obligation in excess of plan assets:				
Accumulated benefit obligation	Accumulated benefit obligation				
Accumulated benefit obligation	Accumulated benefit obligation	\$8,703	\$10,555	\$36,413	\$32,514
Fair value of plan assets	Fair value of plan assets	—	—	5,115	4,724
For plans with projected benefit obligation in excess of plan assets:	For plans with projected benefit obligation in excess of plan assets:				
Projected benefit obligation	Projected benefit obligation	8,983	11,217	38,039	34,931
Projected benefit obligation	Projected benefit obligation				
Fair value of plan assets	Fair value of plan assets	—	—	5,115	4,778

Net periodic pension costs include the following components:

	United States			International			
	2023	2022	2021	2023	2022	2021	
United States	2024						
Service cost	Service cost	\$10,973	\$16,820	\$22,555	\$1,096	\$1,693	\$2,120
Interest cost	Interest cost	16,699	14,486	13,652	2,513	1,105	887
Expected return on plan assets	Expected return on plan assets	(26,116)	(27,776)	(28,410)	(1,532)	(1,430)	(1,585)
Amortization of prior service credit	Amortization of prior service credit	—	48	(64)	(50)	(104)	(303)
International	2024						
United States	2024						
2022	2024						
2023	2023						
2022	2022						

Amortization of net actuarial loss	Amortization of net actuarial loss	—	7,504	14,885	79	2,278	3,144
Settlement loss (gain)	Settlement loss (gain)	90	41,548	4,111	(425)	(29)	32
Curtailment gain	Curtailment gain	—	—	—	(2)	(2,112)	—
Total benefit cost	Total benefit cost	\$ 1,646	\$52,630	\$26,729	\$1,679	\$1,401	\$4,295

Net periodic pension cost for 2024 included a settlement loss of \$151 due to lump sum retirement payments. Net periodic pension cost for 2023 included a settlement gain of \$335 due to lump sum retirement payments. Net periodic pension cost for 2022 and 2021 included a settlement losses loss of \$298 and \$4,143, respectively, due to lump sum retirement payments. Net periodic pension cost for 2022 included a curtailment gain of \$2,112 due to the freeze of an international defined benefit plan.

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Notes to Consolidated Financial Statements —(Continued)

The components of net periodic pension cost other than service cost are included in Pension settlement charge for U.S. Plans and Other – net in our Consolidated Statements of Income.

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Notes to Consolidated Financial Statements —(Continued)

The weighted average assumptions used in the valuation of pension benefits were as follows:

	United States			International								
	2023	2022	2021	2023	2022	2021	2024	2023	2022	2024	2023	2022
	United States						United States			International		
	2024						2024	2023	2022	2024	2023	2022
Assumptions used to determine benefit obligations at October 31:	Assumptions used to determine benefit obligations at October 31:											
Discount rate	Discount rate											
Discount rate	Discount rate	6.08 %	5.70 %	3.02 %	4.35 %	3.78 %	1.30 %	5.27 %	6.08 %	5.70 %	3.80 %	4.35 %
Rate of compensation increase	Rate of compensation increase	3.92	4.30	4.00	2.96	3.44	2.90					
Assumptions used to determine net benefit costs for the years ended October 31:	Assumptions used to determine net benefit costs for the years ended October 31:											
Discount rate - benefit obligation	Discount rate - benefit obligation											
Discount rate - benefit obligation	Discount rate - benefit obligation											
Discount rate - benefit obligation	Discount rate - benefit obligation	5.70	3.02	2.85	3.78	1.30	1.01					

Discount rate	Discount rate
- service cost	- service cost 5.89 3.42 3.30 2.88 1.14 0.93
Discount rate	Discount rate
- interest cost	- interest cost 5.37 2.35 2.10 3.85 1.37 0.80
Expected return on plan assets	Expected return on plan assets 6.40 5.75 5.75 3.75 3.29 3.31
Rate of compensation increase	Rate of compensation increase 3.87 4.00 4.00 3.44 2.90 2.69

The amortization of prior service cost is determined using a straight-line amortization of the cost over the average remaining service period of employees expected to receive benefits under the plans.

The discount rate reflects the current rate at which pension liabilities could be effectively settled at the end of the year. The discount rate used considers a yield derived from matching projected pension payments with maturities of a portfolio of available bonds that receive the highest rating given from a recognized investments ratings agency. The changes in the discount rates in **2024**, **2023** **2022** and **2021** **2022** are due to changes in yields for these types of investments as a result of the economic environment.

In determining the expected return on plan assets using the calculated value of plan assets, we consider both historical performance and an estimate of future long-term rates of return on assets similar to those in our plans. We consult with and consider the opinions of financial and other professionals in developing appropriate return assumptions. The rate of compensation increase is based on management's estimates using historical experience and expected increases in rates.

The international plans include a cash balance plan with promised interest crediting rates. The weighted average crediting rates were **0.70%** **1.10%**, **0.70%** and **0.60%** for **2024**, **2023** and **0.50%** for **2023**, **2022**, and **2021**, respectively.

Net actuarial gains or losses are amortized to expense on a plan-by-plan basis when exceeding the accounting corridor, which is set at 10 percent of the greater of the plan assets or benefit obligations. Gains or losses within the corridor remain in other comprehensive income and are retested in subsequent measurements. Gains or losses outside of the corridor are subject to amortization over an average employee future service period that differs by plan. If substantially all of the plan's participants are no longer actively accruing benefits, the average life expectancy is used.

The allocation of pension plan assets as of **October 31, 2023** **October 31, 2024** and **2022** **2023** is as follows:

Asset Category	Asset Category	United States				International							
		United States		International		United States		International		United States		International	
		2023	2022	2023	2022	2024	2023	2024	2023	2024	2023	2022	
Asset Category	Asset Category												
Equity securities	Equity securities												
Equity securities	Equity securities	3 %	3 %	— %	— %	3	%	3	%	—	%	—	%
Debt securities	Debt securities	43	42	—	—								
Insurance contracts	Insurance contracts	—	—	31	47								
Pooled investment funds	Pooled investment funds	53	54	67	51								
Other	Other	1	1	2	2								
Total	Total	100 %	100 %	100 %	100 %	Total	100 %						

Our investment objective for defined benefit plan assets is to meet the plans' benefit obligations, while minimizing the potential for future required plan contributions.

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Notes to Consolidated Financial Statements — (Continued)

Our United States plans comprise 89 percent of the Company's worldwide pension assets. In general, the investment strategies focus on asset class diversification, liquidity to meet benefit payments, and an appropriate balance of long-term investment return and risk. Target ranges for asset allocations are determined by dynamically matching the actuarial projections of the plans' future liabilities and benefit payments with expected long-term rates of return on the assets, taking into account investment return volatility and correlations across asset classes. For **2023**, **2024**, the target in "return-seeking assets" is 30 percent and 70 percent in longer duration fixed income assets. Plan assets are diversified across multiple investment managers and are invested in liquid funds that are selected to track broad market indices. Investment risk is carefully controlled with plan assets rebalanced to target allocations on a periodic basis and continual monitoring of investment managers' performance relative to the guidelines established with each investment manager.

Our international plans comprise 11 percent of the Company's worldwide pension assets. Asset allocations are developed on a country-specific basis. Our investment strategy is to cover pension obligations with insurance contracts or to employ independent managers to invest the assets.

The fair values of our pension plan assets at **October 31, 2023** **October 31, 2024** by asset category are in the table below:

	United States				United States				International							
	Total				Total				Total							
	United States		International		Level 1		Level 2		Level 3		Level 1		Level 2		Level 3	
Cash																
	United States				International											
					Level		Level		Level		Level		Level		Level	
		Total	Level 1	Level 2	3		Total	1	2							
Cash		\$ 355	\$ 355	\$ —	\$ —	\$ 777	\$ 777	\$ —	\$ —	\$ —						
Money market funds		251	251	—	—	—	—	—	—	—						
Equity securities:	Equity securities:															
Equity securities:																
Equity securities:																
Basic materials	Basic materials	632	632	—	—	—	—	—	—	—						
Basic materials	Basic materials	632	632	—	—	—	—	—	—	—						
Consumer goods	Consumer goods	1,614	1,614	—	—	—	—	—	—	—						
Financial	Financial	1,787	1,787	—	—	—	—	—	—	—						
Healthcare	Healthcare	1,368	1,368	—	—	—	—	—	—	—						
Industrial goods	Industrial goods	1,403	1,403	—	—	—	—	—	—	—						
Technology	Technology	1,732	1,732	—	—	—	—	—	—	—						
Fixed income securities:	Fixed income securities:															
Fixed income securities:																
Fixed income securities:																
U.S. Government	U.S. Government	42,269	753	41,516	—	—	—	—	—	—						
Corporate	Corporate	94,650	—	94,650	—	—	—	—	—	—						
Other	Other	2,640	—	2,640	—	—	—	—	—	—						
Other types of investments:	Other types of investments:															
Insurance contracts	Insurance contracts	—	—	—	—	12,224	—	—	—	12,224	—	—	—	—	—	—
Insurance contracts	Insurance contracts															
Other	Other	2,092	2,092	—	—	—	—	—	—	—						
Total investments in the fair value hierarchy	Total investments in the fair value hierarchy	\$150,793	\$11,987	\$138,806	\$ —	\$13,001	\$777	\$ —	\$ —	\$12,224						
Investments measured at Net Asset Value:	Investments measured at Net Asset Value:															
Investments measured at Net Asset Value:	Investments measured at Net Asset Value:															

Investments measured at Net Asset Value:						
Real estate collective funds						
Real estate collective funds						
Real estate collective funds	Real estate collective funds	42,780	—			
Pooled investment funds	Pooled investment funds	128,103	26,862			
Pooled investment funds						
Pooled investment funds						
Total Investments at Fair Value	Total Fair Value	<u>\$321,676</u>	<u>\$39,863</u>			
Total Investments at Fair Value						
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Notes to Consolidated Financial Statements — (Continued)

The fair values of our pension plan assets at **October 31, 2022** **October 31, 2023** by asset category are in the table below:

	United States				International			
	Total	Level			Total	Level		
		Level 1	Level 2	3		1	2	Level 3
United States								
	Total				Total			
Cash	Cash	\$ 381	\$ 381	\$ —	\$ 775	\$ 775	\$ —	\$ —
Money market funds	Money market funds	155	155	—	—	—	—	—
Equity securities:	Equity securities:							
Basic materials	Basic materials							
Basic materials	Basic materials	719	719	—	—	—	—	—
Consumer goods	Consumer goods	1,802	1,802	—	—	—	—	—
Financial	Financial	1,489	1,489	—	—	—	—	—
Healthcare	Healthcare	1,801	1,801	—	—	—	—	—
Industrial goods	Industrial goods	1,713	1,713	—	—	—	—	—
Technology	Technology	1,569	1,569	—	—	—	—	—
Fixed income securities:	Fixed income securities:							
Fixed income securities:	Fixed income securities:							
U.S. Government	U.S. Government							

U.S.	U.S.								
Government	Government	29,252	328	28,924	—	—	—	—	—
Corporate	Corporate	109,433	—	109,433	—	—	—	—	—
Other	Other	2,964	—	2,964	—	—	—	—	—
Other types of investments:	Other types of investments:								
Insurance contracts	Insurance contracts	—	—	—	18,066	—	—	18,066	
Insurance contracts									
Insurance contracts									
Other	Other	1,474	1,474	—	—	—	—	—	—
Total investments in the fair value hierarchy	Total investments in the fair value hierarchy	\$152,752	\$11,431	\$141,321	\$ —	\$18,841	\$775	\$ —	\$18,066
Investments measured at Net Asset Value:	Investments measured at Net Asset Value:								
Investments measured at Net Asset Value:	Investments measured at Net Asset Value:								
Real estate collective funds	Real estate collective funds								
Real estate collective funds	Real estate collective funds	51,961		—					
Pooled investment funds	Pooled investment funds	129,138		19,475					
Pooled investment funds	Pooled investment funds								
Total Investments at Fair Value	Total Investments at Fair Value	\$333,851		\$38,316					
Total Investments at Fair Value	Total Investments at Fair Value								

These investment funds did not own a significant number of Nordson Corporation common shares for any year presented.

The inputs and methodology used to measure fair value of plan assets are consistent with those described in Note 11.10. Following are the valuation methodologies used to measure these assets:

- Money market funds** - Money market funds are public investment vehicles that are valued with a net asset value of one dollar. This value is a quoted price in an active market and is classified as Level 1.
- Equity securities** - Common stocks and mutual funds are valued at the closing price reported on the active market on which the individual securities are traded and are classified as Level 1.
- Fixed income securities** - U.S. Treasury bills reflect the closing price on the active market in which the government securities are traded and are classified as Level 1. Securities of U.S. agencies are valued using bid evaluations and are classified as Level 2. Corporate fixed income securities are valued using evaluated prices, such as dealer quotes, bids and offers and are therefore classified as Level 2.
- Insurance contracts** - Insurance contracts are investments with various insurance companies. The contract value represents the best estimate of fair value. These contracts do not hold any specific assets. These investments are classified as Level 3.
- Real estate collective funds** - These funds are valued using the net asset value of the underlying properties. Net asset value is calculated using a combination of key inputs, such as revenue and expense growth rates, terminal capitalization rates and discount rates.

- Pooled investment funds** - These are public investment vehicles valued using the net asset value. The net asset value is based on the value of the assets owned by the plan, less liabilities. These investments are not quoted on an active exchange.

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Notes to Consolidated Financial Statements — (Continued)

The following tables present an analysis of changes during the years ended **October 31, 2023** **October 31, 2024** and **2022** **2023** in Level 3 plan assets, by plan asset class, for U.S. and international pension plans using significant unobservable inputs to measure fair value:

Fair Value Measurements Using Significant Unobservable Inputs (Level 3)	
	Insurance contracts
Beginning balance at October 31, 2023	\$ 12,224
Actual return on plan assets:	
Purchases	1,428
Sales	(7,010)
Settlements	(214)
Unrealized gains	440
Foreign currency translation	522
Ending balance at October 31, 2024	\$ 7,390
Fair Value Measurements Using Significant Unobservable Inputs (Level 3)	
	Insurance contracts
Beginning balance at October 31, 2022	\$ 18,066
Actual return on plan assets:	
Purchases	1,320
Sales	(8,007)
Settlements	(607)
Unrealized losses gains	266
Foreign currency translation	1,186
Ending balance at October 31, 2023	\$ 12,224
Fair Value Measurements Using Significant Unobservable Inputs (Level 3)	
	Insurance contracts
Beginning balance at October 31, 2021	\$ 23,993
Actual return on plan assets:	
Purchases	1,525
Sales	(1,519)
Settlements	(1,446)
Unrealized losses	(254)
Foreign currency translation	(4,233)
Ending balance at October 31, 2022	\$ 18,066

Contributions to pension plans in **2024** **2025** are estimated to be approximately **\$3,962** **\$3,726**.

Retiree pension benefit payments, which include expected future service, are anticipated to be paid as follows:

Year	Year	United States	International	United States	International
		States			
2024		\$ 9,620	\$ 2,716		
2025	2025	11,828	3,082		
2026	2026	12,922	4,930		
2027	2027	14,992	3,740		
2028	2028	17,055	3,533		
2029-2033	112,222	19,527			
2029					
2030-					
2034					

Other postretirement plans - We sponsor an unfunded postretirement health care benefit plan covering certain of our United States employees. Employees hired after January 1, 2002, are not eligible to participate in this plan. For eligible retirees under the age of 65 who enroll in the plan, the plan is contributory in nature, with retiree contributions in the form of premiums that are adjusted annually. For eligible retirees age 65 and older who enroll in the plan, the plan delivers a benefit in the form of a Health Reimbursement Account ("HRA"), which retirees use for eligible reimbursable expenses, including premiums paid for purchase of a Medicare supplement plan or other out-of-pocket medical expenses such as deductibles or co-pays.

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Notes to Consolidated Financial Statements — (Continued)

A reconciliation of the benefit obligations, accrued benefit cost and the amount recognized in financial statements for other postretirement plans in the United States is as follows:

	United States		International	
	2023	2022	2023	2022
Change in benefit obligation:				
Benefit obligation at beginning of year	\$ 59,851	\$ 85,290	\$ 183	\$ 416
Service cost	399	687	5	12
Interest cost	3,063	1,923	11	12
Participant contributions	614	687	—	—
Foreign currency exchange rate change	—	—	10	(37)
Actuarial (gain) loss	(7,301)	(25,513)	35	(215)
Benefits paid	(3,193)	(3,223)	(8)	(5)
Benefit obligation at end of year	<u>\$ 53,433</u>	<u>\$ 59,851</u>	<u>\$ 236</u>	<u>\$ 183</u>
Change in plan assets:				
Beginning fair value of plan assets	\$ —	\$ —	\$ —	\$ —
Company contributions	2,579	2,536	8	5
Participant contributions	614	687	—	—
Benefits paid	(3,193)	(3,223)	(8)	(5)
Ending fair value of plan assets	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>
Funded status at end of year	<u>\$ (53,433)</u>	<u>\$ (59,851)</u>	<u>\$ (236)</u>	<u>\$ (183)</u>
Amounts recognized in financial statements:				
Accrued benefit liability	\$ (2,800)	\$ (3,224)	\$ (7)	\$ (6)
Long-term postretirement obligations	(50,633)	(56,627)	(229)	(177)
Total amount recognized in financial statements	<u>\$ (53,433)</u>	<u>\$ (59,851)</u>	<u>\$ (236)</u>	<u>\$ (183)</u>
United States		International		
2023	2022	2023	2022	

Amounts recognized in accumulated other comprehensive (gain) loss:				
Net actuarial (gain) loss	\$ (12,336)	\$ (5,035)	\$ (540)	\$ (661)
Accumulated other comprehensive (gain) loss	<u>\$ (12,336)</u>	<u>\$ (5,035)</u>	<u>\$ (540)</u>	<u>\$ (661)</u>

	2024	2023
Change in benefit obligation:		
Benefit obligation at beginning of year	\$ 53,433	\$ 59,851
Service cost	281	399
Interest cost	3,018	3,063
Participant contributions	580	614
Actuarial (gain) loss	623	(7,301)
Benefits paid	(3,683)	(3,193)
Benefit obligation at end of year	<u>\$ 54,252</u>	<u>\$ 53,433</u>
Change in plan assets:		
Beginning fair value of plan assets	\$ —	\$ —
Company contributions	3,103	2,579
Participant contributions	580	614
Benefits paid	(3,683)	(3,193)
Ending fair value of plan assets	<u>\$ —</u>	<u>\$ —</u>
Funded status at end of year	<u>\$ (54,252)</u>	<u>\$ (53,433)</u>
Amounts recognized in financial statements:		
Accrued benefit liability	\$ (2,890)	\$ (2,800)
Long-term postretirement obligations	(51,362)	(50,633)
Total amount recognized in financial statements	<u>\$ (54,252)</u>	<u>\$ (53,433)</u>

The following table summarizes the changes in accumulated other comprehensive (gain) loss:

	United States		International	
	2023	2022	2023	2022
Balance at beginning of year	\$ (5,035)	\$ 21,456	\$ (661)	\$ (543)
Net (gain) loss arising during the year	(7,301)	(25,513)	35	(217)
Net gain (loss) recognized during the year	—	(978)	62	51
Exchange rate effect during the year	—	—	24	48
Balance at end of year	<u>\$ (12,336)</u>	<u>\$ (5,035)</u>	<u>\$ (540)</u>	<u>\$ (661)</u>

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Notes to Consolidated Financial Statements —(Continued)

	2024	2023
Balance at beginning of year	\$ (12,336)	\$ (5,035)
Net (gain) loss arising during the year	623	(7,301)
Net gain (loss) recognized during the year	591	—
Balance at end of year	<u>\$ (11,122)</u>	<u>\$ (12,336)</u>

Net postretirement benefit costs include the following components:

	Service cost	United States			International		
		2023	2022	2021	2023	2022	2021
Service cost	\$ 399	\$ 687	\$ 778	\$ 5	\$ 12	\$ 15	

Service cost							
Service cost							
Interest cost	Interest cost		3,063	1,923	1,805	11	12
Amortization of prior service credit			—	—	—	—	—
Interest cost							
Interest cost							
Amortization of net actuarial (gain) loss							
Amortization of net actuarial (gain) loss							
Amortization of net actuarial (gain) loss	Amortization of net actuarial (gain) loss		—	978	1,359	(62)	(48)
Total benefit cost (credit)	Total benefit cost (credit)		\$ 3,462	\$ 3,588	\$ 3,942	\$ (46)	\$ (24)
Total benefit cost (credit)							
Total benefit cost (credit)							

The components of net postretirement benefit cost other than service cost are included in Other – net in our Consolidated Statements of Income.

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Notes to Consolidated Financial Statements —(Continued)

The weighted average assumptions used in the valuation of postretirement benefits were as follows:

		United States			International		
		2023	2022	2021	2023	2022	2021
Assumptions used to determine benefit obligations at October 31:	Assumptions used to determine benefit obligations at October 31:						
Assumptions used to determine benefit obligations at October 31:							
Assumptions used to determine benefit obligations at October 31:							
Discount rate							
Discount rate							
Discount rate	Discount rate	6.02 %	5.59 %	2.98 %	5.63 %	5.41 %	3.43 %
Health care cost trend rate	Health care cost trend rate	3.40	3.50	3.34	4.86	4.65	4.43
Health care cost trend rate							
Health care cost trend rate							
Rate to which health care cost trend rate is assumed to incline/decline (ultimate trend rate)							
Rate to which health care cost trend rate is assumed to incline/decline (ultimate trend rate)							
Rate to which health care cost trend rate is assumed to incline/decline (ultimate trend rate)	Rate to which health care cost trend rate is assumed to incline/decline (ultimate trend rate)	3.16	3.19	3.15	4.05	4.05	4.05
Year the rate reaches the ultimate trend rate	Year the rate reaches the ultimate trend rate	2032	2032	2031	2040	2040	2040
Year the rate reaches the ultimate trend rate							
Year the rate reaches the ultimate trend rate							
Assumption used to determine net benefit costs for the years ended October 31:							
Assumption used to determine net benefit costs for the years ended October 31:							
Assumption used to determine net benefit costs for the years ended October 31:	Assumption used to determine net benefit costs for the years ended October 31:						
Discount rate benefit obligation	Discount rate benefit obligation	5.59 %	2.98 %	2.84 %	5.41 %	3.43 %	2.94 %
Discount rate benefit obligation							
Discount rate benefit obligation							
Discount rate service cost							
Discount rate service cost							
Discount rate service cost	Discount rate service cost	6.00	3.55	3.44	5.41	3.48	3.00
Discount rate interest cost	Discount rate interest cost	5.22	2.30	2.08	5.38	3.13	2.60
Discount rate interest cost							

Discount rate interest cost

The weighted average health care trend rates reflect expected increases in the Company's portion of the obligation. The decrease in the health care cost trend rates in 2024 for the U.S. postretirement plan is due to a reduction in the long-term increase assumption for the HRA benefit.

Net actuarial gains or losses are amortized to expense on a plan-by-plan basis when exceeding the accounting corridor, which is set at 10 percent of the greater of the plan assets or benefit obligations. Gains or losses outside of the corridor are subject to amortization over an average employee future service period that differs by plan. If substantially all of the plan's participants are no longer actively accruing benefits, the average life expectancy is used.

Contributions to postretirement plans in 2024 2025 are estimated to be approximately \$2,808 \$2,896.

Retiree postretirement benefit payments are anticipated to be paid as follows:

Year	Year	United States	International
2024		\$ 2,801	\$ 7
Year			
Year			
2025			
2025	2025	2,958	7
2026	2026	3,125	7
2026			
2026			
2027			
2027	2027	3,295	7
2028	2028	3,416	7
2029-2034		18,791	58
2028			
2028			
2029			
2029			
2029			
2030-2034			
2030-2034			
2030-2034			

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Notes to Consolidated Financial Statements — (Continued)

Note 7 — Income taxes

Income before income taxes and income tax expense (benefit) are comprised of the following:

	2023	2022	2021		2024	2023	2022
2024					2024	2023	2022
Income	Income						
before	before						
income taxes:	income taxes:						
Domestic							
Domestic							
Domestic	Domestic	\$269,934	\$302,549	\$279,701			
Foreign	Foreign	345,405	346,730	294,475			

Total income before income taxes	Total income before income taxes	\$615,339	\$649,279	\$574,176
Current: U.S. federal	Current: U.S. federal			
U.S. federal	U.S. federal	\$ 54,157	\$ 59,639	\$ 40,879
State and local	State and local	285	7,535	4,429
Foreign	Foreign	89,520	79,734	70,429
Total current	Total current	143,962	146,908	115,737
Deferred: U.S. federal	Deferred: U.S. federal	(9,119)	(9,408)	6,371
U.S. federal	U.S. federal			
State and local	State and local	(1,279)	(596)	1,470
Foreign	Foreign	(5,718)	(728)	(3,770)
Total deferred	Total deferred	(16,116)	(10,732)	4,071
		\$127,846	\$136,176	\$119,808
		\$		

A reconciliation of the U.S. statutory federal rate to the worldwide consolidated effective tax rate follows:

	2023	2022	2021		2024	2023	2022
Statutory federal income tax rate	Statutory federal income tax rate	21.00 %	21.00 %	21.00 %	21.00 %	21.00 %	21.00 %
Share-based and other compensation	Share-based and other compensation	(0.25)	0.26	(0.30)			
Share-based and other compensation	Share-based and other compensation						
Share-based and other compensation	Share-based and other compensation						
Foreign tax rate variances	Foreign tax rate variances						
Foreign tax rate variances	Foreign tax rate variances	1.83	0.95	0.84			
State and local taxes, net of federal income tax benefit	State and local taxes, net of federal income tax benefit	(0.13)	0.84	0.81			
State and local taxes, net of federal income tax benefit	State and local taxes, net of federal income tax benefit						
Foreign-Derived Intangible Income Deduction	Foreign-Derived Intangible Income Deduction						

Foreign-Derived Intangible Income Deduction						
Foreign-Derived Intangible Income Deduction	Foreign-Derived Intangible Income Deduction					
Global Intangible Low-Taxed Income net of foreign tax credits	Global Intangible Low-Taxed Income net of foreign tax credits					
Other – net	Other – net					
Effective tax rate	Effective tax rate					

Deferred income taxes are not provided on undistributed earnings of international subsidiaries that are intended to be permanently invested in their operations. These undistributed earnings represent the post-income tax earnings under U.S. GAAP not adjusted for previously taxed income which aggregated approximately \$1,433,106 and \$1,533,889 at October 31, 2024 and \$1,485,360 at October 31, 2023 and 2022, respectively. Should these earnings be distributed, applicable foreign tax credits, distributions of previously taxed income and utilization of other attributes would substantially offset taxes due upon the distribution. It is not practical to estimate the amount of additional taxes that might be payable on these basis differences because of the multiple methods by which these differences could reverse and the impact of withholding, U.S. state and local taxes and currency translation considerations.

At October 31, 2023 October 31, 2024 and 2022, 2023, total unrecognized tax benefits were \$8,002 \$7,481 and \$2,872, \$8,002, respectively. The amounts that, if recognized, would impact the effective tax rate were \$6,670 and \$4,497 at October 31, 2024 and \$2,769 at October 31, 2023 and 2022, 2023, respectively. During 2023, 2024, unrecognized tax benefits related primarily to domestic positions and, as recognized, a substantial portion of the gross unrecognized tax benefits were offset against assets recorded in the Consolidated Balance Sheets.

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Notes to Consolidated Financial Statements — (Continued)

A reconciliation of the beginning and ending amount of unrecognized tax benefits for 2024, 2023 2022 and 2021 2022 is as follows:

	2023	2022	2021	2024	2023	2022
Gross balance at beginning of year	Gross balance at beginning of year					
	\$2,872	\$3,720	\$6,717			
Additions based on tax positions related to the current year	Additions based on tax positions related to the current year					
	410	310	370			
Additions for tax positions of prior years	Additions for tax positions of prior years					
	10	—	—			
Increases related to acquired businesses	Increases related to acquired businesses					
	6,602	—	—			

Reductions for tax positions of prior years	Reductions for tax positions of prior years	—	(70)	(350)
Lapse of statute of limitations	Lapse of statute of limitations	(1,892)	(1,088)	(3,017)
Lapse of statute of limitations				
Lapse of statute of limitations				
Gross balance at end of year	Gross balance at end of year	\$8,002	\$2,872	\$3,720

At **October 31, 2023** **October 31, 2024** and **2022**, we had accrued interest and penalty expense related to unrecognized tax benefits of **\$401** **\$800** and **\$541**, **\$401**, respectively. We include interest accrued related to unrecognized tax benefits in interest expense. Penalties, if incurred, would be recognized as other income (expense).

We are subject to United States Federal income tax as well as income taxes in numerous state and foreign jurisdictions. We are subject to examination in the U.S. by the Internal Revenue Service ("IRS") for the years **2020** **2021** through **2023**; **2024**; years prior to **2020** **2021** year are closed to further examination by the IRS. Generally, major state and foreign jurisdiction tax years remain open to examination for years after **2017**, **2018**. Within the next twelve months, it is reasonably possible that certain statute of limitations periods would expire, which could result in a minimal decrease in our unrecognized tax benefits.

Significant components of deferred tax assets and liabilities are as follows:

		2023	2022	2024	2023
Deferred tax assets:	Deferred tax assets:				
Lease Liabilities	Lease Liabilities	\$ 26,678	\$ 28,413		
Employee benefits	Employee benefits	26,680	22,079		
Tax credit and loss carryforwards	Tax credit and loss carryforwards	28,667	11,336		
Other accruals not currently deductible for taxes	Other accruals not currently deductible for taxes	8,944	15,616		
Inventory adjustments	Inventory adjustments	5,932	6,423		
Total deferred tax assets	Total deferred tax assets	96,901	83,867		
Valuation allowance	Valuation allowance	(23,732)	(10,130)		
Total deferred tax assets	Total deferred tax assets	73,169	73,737		
Deferred tax liabilities:	Deferred tax liabilities:				
Depreciation and amortization	Depreciation and amortization	238,210	145,285		
Depreciation and amortization	Depreciation and amortization				

Lease right-of-use assets	Lease right-of-use assets	25,925	27,548
Other - net	Other - net	3,649	1,238
Total	Total		
deferred	deferred		
tax	tax		
liabilities	liabilities	267,784	174,071
Net deferred tax liabilities	Net deferred tax liabilities	(\$194,615)	(\$100,334)

At **October 31, 2023** **October 31, 2024**, we had **\$19,299** **\$20,367** of tax credit carryforwards, **\$11,831** **\$15,116** of which expires in **2028-2033** **2026-2038** and **\$7,468** **\$5,251** of which has an indefinite carryforward period. We also had **\$35,906** **\$30,897** of state operating loss carryforwards, **\$36,850** **\$47,966** of foreign operating loss carryforwards, and a **\$3,570** **\$4,459** capital loss carryforward, of which **\$52,330** **\$58,426** will expire in **2024** **2025** through **2038**, **2043**, and **\$23,997** **\$24,897** of which has an indefinite carryforward period. The net change in the valuation allowance was an increase of **\$9,864** in **2024** and an increase of **\$13,602** in **2023** and a decrease of **\$4,011** in **2022**. The valuation allowance of **\$23,732** **\$33,596** at **October 31, 2023** **October 31, 2024**, related primarily to tax credits and loss carryforwards that may expire before being realized. We continue to assess the need for valuation allowances against deferred tax assets based on determinations of whether it is more likely than not that deferred tax benefits will be realized.

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Notes to Consolidated Financial Statements — (Continued)

Note 8 — Bank lines of credit

Bank lines of credit are summarized as follows:

	2023	2022
Maximum borrowings available under bank lines of credit (all foreign banks)	\$ 114,464	\$ 61,213
Outstanding borrowings / notes payable (all foreign bank debt)	<u>(5,019)</u>	—
Unused bank lines of credit	\$ 109,445	\$ 61,213

Note 9 — Long-term debt

A summary of long-term debt is as follows:

	2023	2022		2024	2024	2023
Notes Payable	Notes Payable	\$ 5,019	\$ —			
Revolving credit agreement, due 2028	Revolving credit agreement, due 2028	248,000	—			
Term loan, due 2026	Term loan, due 2026	300,000	—			
Senior notes, due 2023-2025		32,000	55,500			
Senior notes, due 2023-2027		54,286	71,429			
Senior notes, due 2023-2030		260,000	350,000			
Senior notes, due 2025						
Senior notes, due 2025-2027						
Senior notes, due 2025-2030						
Euro loan, due 2023	—	261,893				

5.600% Notes due 2028			
5.600% Notes due 2028			
5.600%	5.600%		
Notes due	Notes due		
2028	2028	350,000	—
5.800%	5.800%		
Notes due	Notes due		
2033	2033	500,000	—
		1,749,305	738,822
4.500%			
Notes due			
2029			
			2,223,928
Less current	Less current		
maturities	maturities	115,662	392,537
Less	Less		
unamortized	unamortized		
debt	debt		
issuance	issuance		
costs	costs	10,773	965
Less bond	Less bond		
discounts	discounts	1,476	—
Long-term	Long-term		
maturities	maturities	\$1,621,394	\$345,320

Revolving credit agreement — In April 2019, we entered into a \$850,000 unsecured multi-currency credit facility with a group of banks, which amended, restated and extended our then existing syndicated revolving credit agreement. This facility had a five-year term expiring in April 2024 and included a \$75,000 sub-facility for swing-line loans. On April 17, 2023, we entered into an amendment to, among other things, replace LIBOR London Interbank Offered Rate with SOFR, EURIBOR, SONIA the Secured Overnight Financing Rate ("SOFR"), the Euro Interbank Offered Rate, the Sterling Overnight Index Average and TIBOR the Tokyo Interbank Offered Rate for U.S. Dollar, Euro, British Pound Sterling and Japanese Yen borrowings, respectively. On June 6, 2023, this credit agreement was terminated and replaced by the New Credit Agreement (as defined below). At October 31, 2023, there were no borrowings outstanding under this facility.

In June 2023, we entered into a \$1,150,000 unsecured multi-currency credit facility with a group of banks, which provides for a term loan facility in the aggregate principal amount of \$300,000 (the "Term Loan Facility"), maturing in June 2026, and a multicurrency revolving credit facility in the aggregate principal amount of \$850,000 (the "Revolving Facility"), maturing in June 2028 (the "New Credit Agreement"). In June 2024, the Revolving Facility was amended to increase the aggregate principal amount to \$922,500. The Company borrowed and has outstanding \$300,000 \$280,000 on the Term Loan Facility and \$248,000 \$240,000 on the Revolving Facility as of October 31, 2023 October 31, 2024. The Revolving Facility permits borrowing in U.S. Dollars, Euros, Sterling, Swiss Francs, Singapore Dollars, Yen, and each other currency approved by a Revolving Facility lender. The New Credit Agreement provides that the applicable margin for (i) RFR, Risk-Free Rate ("RFR"), as defined in the New Credit Agreement, and Eurodollar Loans will range from 0.85% to 1.20% and (ii) Base Rate Loans will range from 0.00% to 0.20%, in each case, based on the Company's Leverage Ratio (as defined in the Credit Agreement and calculated on a consolidated net debt basis). Borrowings under the New Credit Agreement bear interest at (i) either a base rate or a SOFR rate, with respect to borrowings in U.S. dollars, (ii) a eurocurrency rate, with respect to borrowings in Euros and Yen, or (iii) Daily Simple RFR, with respect to borrowings in Sterling, Swiss Francs or Singapore Dollars, plus, in each case, an applicable margin (and, solely in the case of Singapore Dollars, a spread adjustment). The applicable margin is based on the Company's Leverage Ratio. The weighted-average interest rate at October 31, 2023 October 31, 2024 was 6.27% 5.66%.

Senior notes, due 2023-2025 2025 — These unsecured fixed-rate notes entered into in 2012 with a group of insurance companies have a remaining weighted-average life of 1.00 year 0.73 years. The weighted-average interest rate at October 31, 2023 October 31, 2024 was 3.10 3.07 percent.

Senior notes, due 2023-2027 2025-2027 — These unsecured fixed-rate notes entered into in 2015 with a group of insurance companies have a remaining weighted-average life of 1.98 1.55 years. The weighted-average interest rate at October 31, 2023 October 31, 2024 was 3.11 3.13 percent.

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Notes to Consolidated Financial Statements —(Continued)

Senior notes, due 2023-2030 2025-2030 — These unsecured fixed-rate notes entered in 2018 with a group of insurance companies have a remaining weighted-average life of 2.88 2.70 years. The weighted-average interest rate at October 31, 2023 October 31, 2024 was 3.97 4.03 percent.

Euro loan, due 2023 — The euro term loan facility with Bank of America Merrill Lynch International Limited was due in March 2023 and was repaid.

5.600% Notes due 2028 and 5.800% Notes due 2033 — In September 2023, we completed an underwritten public offering (the "Offering") of \$350,000 aggregate principal amount of 5.600% Notes due 2028 and \$500,000 aggregate principal amount of 5.800% Notes due 2033.

4.500% Notes due 2029 - In September 2024, we completed an underwritten public offering of \$600,000 aggregate principal amount of 4.500% Notes due 2029 (the "2029 Notes").
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Notes to Consolidated Financial Statements —(Continued)

We were in compliance with all covenants at **October 31, 2023** **October 31, 2024** and the amount we could borrow would not have been limited by any debt covenants.

Annual maturities — The annual maturities of long-term debt for the five years subsequent to **October 31, 2023** **October 31, 2024**, are as follows: **\$115,662** in **2024**; **\$85,643** **\$103,928** in **2025**; **\$350,000** **\$330,000** in **2026**; **\$10,000** in **2027** **2027**; **\$630,000** in **2028** and **\$638,000** **\$620,000** in **2028**, **2029**.

Bank lines of credit are summarized as follows:

	2024	2023
Maximum borrowings available under bank lines of credit (all foreign banks)	\$ 123,983	\$ 114,464
Outstanding borrowings / notes payable (all foreign bank debt)	(18,285)	(5,019)
Unused bank lines of credit	<u>\$ 105,698</u>	<u>\$ 109,445</u>

Note 109 — Leases

We review new contracts to determine if the contracts include a lease. To the extent a lease agreement includes an extension option that is reasonably certain to be exercised, we have recognized those amounts as part of the right-of-use assets and lease liabilities. We combine lease and non-lease components, such as common area maintenance, in the calculation of the lease assets and related liabilities. As most lease agreements do not provide an implicit rate, we use an incremental borrowing rate ("IBR") based on information available at the lease commencement date in determining the present value of lease payments and to help classify the lease as operating or financing. We calculate the IBR based on a bond yield curve which considers secured borrowing rates based on our credit rating and current economic environment, as well as other publicly available data.

We lease certain manufacturing facilities, warehouse space, machinery and equipment, and vehicles. We often have options to renew lease terms for buildings and other assets. We evaluate renewal and termination options at the lease commencement date to determine if we are reasonably certain to exercise the option on the basis of economic factors. Leases with an initial term of 12 months or less (short-term leases) are not recorded on the Consolidated Balance Sheets. Lease expense for operating leases is recognized on a straight-line basis over the lease term, with variable lease payments recognized in the period those payments occur. Variable payments for leases primarily relate to future rates or amounts, miles, or other quantifiable usage factors which are not determinable at the time the lease agreement commences. Finance lease assets are recorded in Property, plant and equipment – net on the Consolidated Balance Sheets with related amortization recorded in depreciation expense on the Consolidated Statement of Cash Flows. As of **October 31, 2023** **October 31, 2024**, we had no material leases that had yet to commence.

Additional lease information is summarized below for the twelve months ended October 31:

	October 31, 2023	October 31, 2022			
	Finance Leases	Operating Leases	Finance Leases	Operating Leases	
	October 31, 2024		October 31, 2024		October 31, 2023
	Finance Leases	Operating Leases	Finance Leases	Operating Leases	
Amortization of right of use assets	Amortization \$ 5,926	\$ 6,388			
Interest	Interest 357	374			
Interest					
Lease cost ⁽¹⁾					
Lease cost ⁽¹⁾					
Lease cost ⁽¹⁾	Lease cost 6,283	\$ 19,662	6,762	\$ 20,354	
Short-term and variable lease cost ⁽¹⁾	Short-term 2,338	1,989	1,876	1,611	
Total lease cost	Total lease cost \$ 8,621	\$ 21,651	\$ 8,638	\$ 21,965	

⁽¹⁾ Lease costs are recorded in both Cost of sales and Selling and administrative expenses on the Consolidated Statements of Income.

Supplemental cash flow information is summarized below for the twelve months ended **October 31, 2023** **October 31, 2024**:

	Finance Leases	Operating Leases
	Finance Leases	Operating Leases
Cash outflows for leases	\$ 6,148	\$ 20,754
Weighted average remaining lease term (years)	6.70	8.06
Weighted average discount rate	3.08%	2.09%

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Notes to Consolidated Financial Statements — (Continued)

The following table reconciles the undiscounted cash flows for five years and thereafter to the operating and finance lease liabilities recognized on the Consolidated Balance Sheet as of **October 31, 2023** **October 31, 2024**. The reconciliation excludes short-term leases that are not recognized on the Consolidated Balance Sheet.

Year:	Year:	Finance Leases		Operating Leases
		Leases	Leases	Year:
2024	2024	\$ 4,918	\$ 16,853	
2025	2025	3,740	14,715	
2026	2026	2,315	13,726	
2027	2027	1,138	11,263	
2028	2028	495	9,909	
2029				
Later years	Later years	5,743	52,851	
Total minimum lease payments	Total minimum lease payments	18,349	119,317	
Amounts representing interest	Amounts representing interest	1,761	10,052	
Present value of minimum lease payments	Present value of minimum lease payments	\$16,588	\$109,265	

Rental expense for operating leases during the fiscal years ended **October 31, 2023** **October 31, 2024**, 2023 and 2022 was \$21,184, \$22,095 and 2021 was \$22,095, \$20,479, and \$20,618, respectively.

Capitalized net finance leases included in property, plant and equipment during the fiscal years ended **October 31, 2024** and **October 31, 2023** was \$16,364 and **October 31, 2022** was \$16,310, and \$15,176, respectively.

Note 11 **10** — Fair value measurements

The inputs to the valuation techniques used to measure fair value are classified into the following categories:

Level 1: Quoted market prices in active markets for identical assets or liabilities.

Level 2: Observable market-based inputs or unobservable inputs that are corroborated by market data.

Level 3: Unobservable inputs that are not corroborated by market data.

The following tables present the classification of our assets and liabilities measured at fair value on a recurring basis:

October 31, 2024	Total	Level 1	Level 2	Level 3
Assets:				
Foreign currency forward contracts (a)				
\$ 3,332	\$ —	\$ 3,332	\$ —	\$ —
Net investment contracts (b)	6,049	—	6,049	—
Total assets at fair value	\$ 9,381	\$ —	\$ 9,381	\$ —
Liabilities:				
Deferred compensation plans (c)				
\$ 9,615	\$ —	\$ 9,615	\$ —	\$ —
Net investment contracts (b)	20,261	—	20,261	—
Foreign currency forward contracts (a)	5,508	—	5,508	—
Total liabilities at fair value	\$ 35,384	\$ —	\$ 35,384	\$ —
October 31, 2023	Total	Level 1	Level 2	Level 3
Assets:				
Foreign currency forward contracts (a)				
\$ 696	\$ —	\$ 696	\$ —	\$ —
Net investment contracts (b)	13,713	—	13,713	—
Total assets at fair value	\$ 14,409	\$ —	\$ 14,409	\$ —
Liabilities:				
Deferred compensation plans (c)				
\$ 9,637	\$ —	\$ 9,637	\$ —	\$ —
Net investment contracts (b)	9,985	—	9,985	—
Foreign currency forward contracts (a)	10,425	—	10,425	—
Total liabilities at fair value	\$ 30,047	\$ —	\$ 30,047	\$ —
October 31, 2022	Total	Level 1	Level 2	Level 3
Assets:				
Foreign currency forward contracts (a)				
\$ 5,035	\$ —	\$ 5,035	\$ —	\$ —
Total assets at fair value	\$ 5,035	\$ —	\$ 5,035	\$ —
Liabilities:				
Deferred compensation plans (c)				
(a) We enter into foreign currency forward contracts to reduce the risk of foreign currency exposures resulting from receivables, payables, intercompany receivables, intercompany payables and loans denominated in foreign currencies.	\$ 9,076	\$ —	\$ 9,076	\$ —
Foreign currency forward contracts (a)	11,724	—	11,724	—
Total liabilities at fair value	Nordson Corporation 57,800	\$ —	\$ 20,800	\$ —
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Notes to Consolidated Financial Statements —(Continued)

Foreign exchange contracts are valued using market exchange rates. These foreign exchange contracts are not designated as hedges.

- (b) Net assets of our foreign subsidiaries are exposed to volatility in foreign currency exchange rates. We utilize net investment hedges to offset the translation adjustment arising from re-measuring our investment in foreign subsidiaries. The fair value of these hedges is primarily based on the exchange rate between the currency pair of the hedge upon which settlement is based and includes an adjustment for the counterparty's or Company's credit risk. The notional amount of our net investment hedge contracts as of **October 31, 2023** **October 31, 2024** was **\$801,857**, **\$845,333**.
- (c) Executive officers and other highly compensated employees may defer up to 100 percent of their salary and annual cash incentive compensation and for executive officers, up to 90 percent of their long-term incentive compensation, into various non-qualified deferred compensation plans. Deferrals can be allocated to various market performance measurement funds. Changes in the value of compensation deferred under these plans are recognized each period based on the fair value of the underlying measurement funds.

Fair value disclosures related to goodwill are disclosed in Note 5.

The carrying amounts and fair values of financial instruments, other than cash and cash equivalents, receivables and accounts payable, are shown in the table below. The carrying values of cash and cash equivalents, receivables and accounts payable approximate fair value due to the short-term nature of these instruments.

	2023	2022
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	Carrying Amount	Fair Value	Carrying Amount	Fair Value
Long-term debt (including current portion)	\$ 1,732,037	\$ 1,699,187	\$ 737,857	\$ 714,286

	2024		2023	
	Carrying Amount	Fair Value	Carrying Amount	Fair Value
Long-term debt (including current portion)	\$ 2,186,840	\$ 2,219,414	\$ 1,732,037	\$ 1,699,187

Long-term debt is valued by discounting future cash flows at currently available rates for borrowing arrangements with similar terms and conditions, which are considered to be Level 2 inputs under the fair value hierarchy. The carrying amount of long-term debt is shown net of unamortized debt issuance costs and bond discounts as described in Note 9, the Long-term debt Note.

Note 12.11 — Derivative financial instruments

We operate internationally and enter into intercompany transactions denominated in foreign currencies. Consequently, we are subject to market risk arising from exchange rate movements between the dates foreign currency transactions occur and the dates they are settled. We regularly use foreign currency forward contracts to reduce our risks related to most of these transactions. These contracts usually have maturities of 90 days or less and generally require us to exchange foreign currencies for U.S. dollars at maturity, at rates stated in the contracts. These contracts are not designated as hedging instruments under U.S. GAAP. Accordingly, the changes in the fair value of the foreign currency forward contracts are recognized in each accounting period in "Other – net" on the Consolidated Statement of Income together with the transaction gain or loss from the related balance sheet position. The settlement of these contracts is recorded in operating activities on the Consolidated Statement of Cash Flows.

In 2024, we recognized net gains of \$7,553 on foreign currency forward contracts and net loss of \$13,052 from the change in fair value of balance sheet positions. In 2023, we recognized net losses of \$3,041 on foreign currency forward contracts and net loss of \$4,701 from the change in fair value of balance sheet positions. In 2022, we recognized net losses of \$4,937 on foreign currency forward contracts and net gains of \$11,207 from the change in fair value of balance sheet positions. In 2021, we recognized net gains of \$1,485 on foreign currency forward contracts and net losses of \$7,411 from the change in fair value of balance sheet positions. The fair values of our foreign currency forward contract assets and liabilities are included in Receivables-net and Accrued liabilities, respectively in the Consolidated Balance Sheets.

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Notes to Consolidated Financial Statements — (Continued)

The following table summarizes, by currency, the contracts outstanding at October 31, 2023 October 31, 2024 and 2022: 2023:

	Notional Amounts		Notional Amounts	Notional Amounts
	Sell	Buy		
October 31, 2023				
contract amounts:				
	Notional Amounts		Notional Amounts	
	Sell		Sell	Buy
October 31, 2024				
contract amounts:				
	Notional Amounts		Notional Amounts	
	Sell		Sell	Buy
Euro				
Euro				
Euro	Euro	\$107,056	\$ 53,919	
Pound	Pound			
sterling	sterling	17,449	163,116	
Japanese	Japanese			
yen	yen	18,858	22,088	
Mexican	Mexican			
peso	peso	45	26,063	
Hong	Hong			
Kong	Kong			
dollar	dollar	1,509	8,943	
Singapore	Singapore			
dollar	dollar	448	20,126	

Australian dollar	Australian dollar	—	9,112
Taiwan dollar	Taiwan dollar	—	8,000
Other	Other	14,518	79,814
Total	Total	\$159,883	\$391,181
October 31, 2022			
contract amounts:			
October 31, 2023			
contract amounts:			
Euro			
Euro			
Euro	Euro	\$ 85,879	\$337,530
Pound sterling	Pound sterling	31,361	101,960
Japanese yen	Japanese yen	12,849	33,210
Mexican peso	Mexican peso	9,802	26,509
Hong Kong dollar	Hong Kong dollar	5,174	73,953
Singapore dollar	Singapore dollar	411	18,817
Australian dollar	Australian dollar	327	9,163
Taiwan Dollar	Taiwan Dollar	—	24,047
Other	Other	4,327	60,104
Total	Total	\$150,130	\$685,293

We are exposed to credit-related losses in the event of nonperformance by counterparties to financial instruments. These financial instruments include cash deposits and foreign currency forward contracts. We periodically monitor the credit ratings of these counterparties in order to minimize our exposure. Our customers represent a wide variety of industries and geographic regions. As of **October 31, 2023** **October 31, 2024** and **2022, 2023**, there were no significant concentrations of credit risk.

Treasury Locks

During the fourth quarter of 2024, the Company entered into treasury locks to fix the interest rate related to \$250,000 of the \$600,000 of 2029 Notes issued on September 4, 2024. The derivative positions were closed when the debt was priced on September 4, 2024 with a cash settlement net payment of \$2,306 that offset changes in the benchmark treasury rate between execution of the treasury rate locks and the debt pricing date. These derivatives were designed as cash flow hedges and the deferred amount reported in AOCI is being reclassified to interest expense as payments are made on the notes through the maturity date.

Net Investment Hedges

Net assets of our foreign subsidiaries are exposed to volatility in foreign currency exchange rates. We may utilize net investment hedges to offset the translation adjustment arising from re-measuring our investment in foreign subsidiaries.

During the second quarter of 2023, 2024, the Company designated €180,000 of borrowings as a hedge of our net investment in certain foreign subsidiaries was party to mitigate the foreign exchange risk associated with certain investments in these subsidiaries. In June 2023, the hedge was terminated. Any increases or decreases related to the remeasurement or termination of the €180,000 borrowing into U.S. dollars were recorded in the currency translation component of Accumulated other comprehensive income (loss) within Shareholders' Equity in the Consolidated Balance Sheets. A loss of \$2,467, net of tax, was recorded in 2023 on these net investment hedges.

During the fourth quarter of 2023, the Company designated €760,000 of borrowings as a hedge of our net investment in certain foreign subsidiaries to mitigate the foreign exchange risk associated with certain investments in these subsidiaries. In September 2023, the hedge was terminated. Any increases or decreases related to the remeasurement or termination of the €760,000 borrowing into U.S. dollars were recorded in the currency translation component of Accumulated other comprehensive income (loss) within Shareholders' Equity in the Consolidated Balance Sheets. A gain of \$7,846, net of tax, was recorded in 2023 on these net investment hedges.

During 2023, the Company entered into various cross currency swaps between the U.S. Dollar and Euro, Japanese Yen, Taiwan Dollar, Singapore Dollar and Chinese Yuan, which were designated as hedges of our net investments in certain foreign subsidiaries to mitigate the foreign exchange risk associated with certain investments in these subsidiaries. Any increases or decreases related to the remeasurement of the hedges are recorded in the currency translation component of Accumulated other comprehensive income (loss) within Shareholders' Equity in the Consolidated Balance Sheets until the sale or substantial liquidation of the underlying investments. A net gain of \$10,165, \$16,214, net of tax of \$5,366, was recorded in 2023, 2024 related to all net investment hedges, which is included in foreign currency translation adjustments in the Consolidated Statements of Shareholders' Equity.

Notes to Consolidated Financial Statements — (Continued)

Changes in fair value of derivative instruments that do not qualify for hedge accounting are recognized immediately in current net earnings. The settlement of net investment hedges is recorded in investing activities on the Consolidated Statements of Cash Flows.

A net gain of \$15,544, net of tax of \$4,643, was recorded in 2023 related to all net investment hedges, which is included in foreign currency translation adjustments in the Consolidated Statements of Shareholders' Equity.

The following table summarizes the fair values of our net investment contracts designated as net investment hedges in the Company's Consolidated Balance Sheet as of **October 31, 2023** **October 31, 2024**:

	Prepaid expenses and other current assets	Other assets	Accrued liabilities	Other long-term liabilities
Net investment contracts	\$ 11,379	\$ 2,334	\$ —	\$ 9,985

	Prepaid expenses and other current assets	Other assets	Accrued liabilities	Other long-term liabilities
Net investment contracts	\$ 5,976	\$ 73	\$ 10,675	\$ 9,586

Note 13.12 — Capital shares

Preferred — We have authorized 10,000 Series A convertible preferred shares without par value. No preferred shares were outstanding in 2024, 2023 2022 or 2021, 2022.

Common — We have 160,000 authorized common shares without par value. At **October 31, 2023** **October 31, 2024** and **2022, 2023**, there were 98,023 common shares issued. At **October 31, 2023** **October 31, 2024** and **2022, 2023**, the number of outstanding common shares, net of treasury shares, was **57,007** **57,197** and **57,111**, **57,007**, respectively.

Common shares repurchased as part of publicly announced programs during 2024, 2023 2022 and 2021 2022 were as follows:

Year	Number of Shares	Average Total per Share	Year	Number of Shares	Total Amount	Average per Share
2024						
2023	373	\$79,786	2023	\$213.62		
2022	1,190	260,288	2022	218.69		
2021	262	55,033	2021	209.97		

These amounts exclude share repurchases associated with employee equity award exercises and vesting.

Note 14.13 — Stock-based compensation

During the 2021 Annual Meeting of Shareholders, our shareholders approved the Nordson Corporation 2021 Stock Incentive and Award Plan (the "2021 Plan") as the successor to the Amended and Restated 2012 Stock Incentive and Award Plan (the "2012 Plan"). The 2021 plan provides for the granting of stock options, stock appreciation rights, restricted shares, restricted share units, performance shares, cash awards and other stock or performance-based incentives. A maximum of 900 common shares were authorized for grant under the 2021 Plan plus the number of shares that were available to be granted under the 2012 Plan, as well as issuable under the CyberOptics equity plan. As of **October 31, 2023** **October 31, 2024**, a total of **2,009** **1,875** common shares were available to be granted under the 2021 Plan.

Stock options — Nonqualified or incentive stock options may be granted to our employees and directors. Generally, options granted to employees may be exercised beginning one year from the date of grant at a rate not exceeding 25 percent per year and expire 10 years from the date of grant. Vesting accelerates upon a qualified termination in connection with a change in control. In the event of termination of employment due to early retirement or normal retirement at age 65, options granted within 12 months prior to termination are forfeited, and vesting continues post retirement post-retirement for all other unvested options granted. In the event of disability or death, all unvested stock options granted within 12 months prior to termination fully vest. Termination for any other reason results in forfeiture of unvested options and vested options in certain circumstances. The amortized cost of options is accelerated if the retirement eligibility date occurs before the normal vesting date. Option exercises are satisfied through the issuance of treasury shares on a first-in, first-out basis. We recognized compensation expense related to stock options of \$4,616, \$6,655 and \$7,265 for 2024, 2023 and \$6,946 for 2023, 2022, and 2021, respectively.

Notes to Consolidated Financial Statements — (Continued)

The following table summarizes activity related to stock options during 2023:2024:

	Number of Options	Weighted-Average Exercise Price Per Share	Aggregate Intrinsic Value	Weighted-Average Remaining Term
Outstanding at October 31, 2022	1,187	\$ 141.82		
Granted				
Granted	Granted	80 \$ 239.44		
Exercised	Exercised	(193) \$ 113.10		
Exercised				
Exercised				
Forfeited or expired	Forfeited or expired	(12) \$ 210.33		
Outstanding at October 31, 2023	1,062	\$ 152.41	\$ 69,778	4.9 years
Forfeited or expired				
Forfeited or expired				
Outstanding at October 31, 2024				
Outstanding at October 31, 2024				
Expected to vest	Expected to vest	244 \$ 214.29	\$ 4,343	7.2 years
Exercisable at October 31, 2023	817	\$ 133.85	\$ 65,358	4.2 years
Exercisable at October 31, 2024				
Exercisable at October 31, 2024	690	\$ 149.97	\$ 68,283	4.0 years

Summarized information on currently outstanding options follows:

	Range of Exercise Price				
	\$67 - \$125	\$126 - \$190	\$191 - \$268		
	Range of Exercise Price			Range of Exercise Price	
	\$67 - \$125			\$67 - \$125	\$126 - \$190
Number outstanding	Number outstanding	393	444	225	
Weighted-average remaining contractual life, in years	Weighted-average remaining contractual life, in years			Weighted-average remaining contractual life, in years	
		3.7	5.3	8.0	
				3.0	4.5
					7.4

Weighted-average exercise price	Weighted-average exercise price	\$106.31	\$151.62	\$234.31
Number exercisable	Number exercisable	390	365	62
Weighted-average exercise price	Weighted-average exercise price	\$106.39	\$148.33	\$221.76

As of **October 31, 2023** **October 31, 2024**, there was **\$5,108** **\$4,981** of total unrecognized compensation cost related to unvested stock options. That cost is expected to be amortized over a weighted average period of approximately **1.6** **2.8** years.

The fair value of each option grant was estimated at the date of the grant using the Black-Scholes option-pricing model with the following assumptions:

	2023	2022	2021		2024	2023	2022	
Expected volatility	Expected volatility	30.4%-31.8%	30.6%-30.8%	30.8%- 32.6%	Expected volatility	30.3%-31.7%	30.4%-31.8%	30.6%-30.8%
Expected dividend yield	Expected dividend yield	1.12%-1.27%	0.76%-0.89%	0.83%- 0.85%	Expected dividend yield	1.15%-1.20%	1.12%-1.27%	0.76%-0.89%
Risk-free interest rate	Risk-free interest rate	3.79%-4.21%	1.36%-2.65%	0.43%- 0.77%	Risk-free interest rate	4.22%-4.52%	3.79%-4.21%	1.36%-2.65%
Expected life of the option (in years)	Expected life of the option (in years)	5.0-6.2	5.3-6.2	5.3- 6.2	Expected life of the option (in years)	5.0-6.2	5.0-6.2	5.3-6.2

The weighted-average expected volatility used to value options granted in 2024, 2023 and 2022 and 2021 was 30.6 30.7 percent, 30.6 percent and 31.0 30.6 percent, respectively.

Historical information was the primary basis for the selection of the expected volatility, expected dividend yield and the expected lives of the options. The risk-free interest rate was selected based upon yields of United States Treasury issues with terms equal to the expected life of the option being valued.

The weighted average grant date fair value of stock options granted during 2024, 2023 and 2022 was \$79.84, \$77.99 and 2021 was \$77.99, \$78.88, and \$56.02, respectively.

The total intrinsic value of options exercised during 2024, 2023 and 2022 was \$35,620, \$23,706 and 2021 was \$23,706, \$15,376, and \$32,791, respectively.

Cash received from the exercise of stock options for 2024, 2023 and 2022 was \$31,067, \$21,373 and 2021 was \$21,373, \$12,124, and \$31,780, respectively.

Restricted shares and restricted share units — We may grant restricted shares and/or restricted share units to our employees and directors. These shares or units may not be transferred for a designated period of time (generally one to three years) defined at the date of grant. We may also grant continuation awards in the form of restricted share units with cliff vesting and a performance measure that must be achieved for the restricted share units to vest.

For employee recipients, in the event of termination of employment due to early retirement, with consent of the Company, restricted shares and units granted within 12 months prior to termination are forfeited, and other restricted shares and units vest on a pro-rata basis, subject to the consent of the Compensation Committee. In the event of termination of employment due to normal retirement at age 65, restricted shares and units granted within 12 months prior to termination are forfeited, and, for other restricted shares and units, the restriction period applicable to restricted shares will lapse and the shares will vest and be transferable and all unvested units will become vested in full, subject to the consent of the Compensation Committee. In the event of a recipient's disability or death, all restricted shares and units granted within 12 months prior to termination fully vest.

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Notes to Consolidated Financial Statements — (Continued)

Termination for any other reason prior to the lapse of any restrictions or vesting of units results in forfeiture of the shares or units.

For non-employee directors, all restrictions lapse in the event of disability or death of the non-employee director. Termination of service as a director for any other reason within one year of date of grant results in a pro-rata vesting of shares or units.

As shares or units are issued, stock-based compensation equivalent to the fair market value on the date of grant is expensed over the vesting period.

The following table summarizes activity related to restricted shares during 2023:

	Number of Shares	Weighted-Average Grant Date Fair Value Per Share

Restricted at October 31, 2022		6	\$ 167.99
Vested		(6)	\$ 167.99
Restricted at October 31, 2023		—	\$ —

As of **October 31, 2023** **October 31, 2024**, there was no unrecognized compensation cost related to restricted shares. The amount charged to expense related to restricted shares was \$0, \$336 and \$1,096 in 2024, 2023 and \$2,054 in 2023, 2022, and 2021, respectively. These amounts included common share dividends of \$0, \$5 and \$19 in 2024, 2023 and \$43 in 2023, 2022, and 2021, respectively.

The following table summarizes activity related to restricted share units in **2023** **2024**:

	Number of Units	Weighted-Average Grant Date Fair Value
Restricted share units at October 31, 2022	81	\$ 223.77
Granted	Granted 47	\$ 233.06
Forfeited	Forfeited (7)	\$ 240.94
Vested	Vested (52)	\$ 219.82
Restricted share units at October 31, 2023	69	\$ 236.28
Restricted share units at October 31, 2024		

As of **October 31, 2023** **October 31, 2024**, there was \$9,613 \$8,883 of remaining expense to be recognized related to outstanding restricted share units, which is expected to be recognized over a weighted average period of 2.01.8 years. The amounts charged to expense related to restricted share units in 2024, 2023 and 2022 were \$8,853, \$8,765 and 2021 were \$8,765, \$8,403, and \$6,264, respectively. Restricted share unit expense increased beginning in 2021 compared to prior years as the granting of restricted share units has generally replaced the granting of stock options for key employees.

Performance share incentive awards — Executive officers and selected other key employees are eligible to receive common share-based incentive awards. Payouts, in the form of unrestricted common shares, vary based on the degree to which corporate financial performance exceeds predetermined threshold, target and maximum performance goals over three-year performance periods. No payout will occur unless threshold performance is achieved.

The amount of compensation expense is based upon current performance projections and the percentage of the requisite service that has been rendered. The calculations are based upon the grant date fair value which is principally driven by the stock price on the date of grant or a Monte Carlo valuation for awards with market conditions. The per share values were \$229.58 and \$225.14 for 2024; \$231.34, \$211.25 and \$214.51 for 2023; and \$260.60, \$273.50 and \$221.94 for 2022; and \$202.05 for 2021. The amount charged to expense for executive officers and selected other key employees in 2024, 2023 and 2022 were \$5,070, \$6,543 and 2021 were \$6,543, \$13,626, and \$7,178, respectively. As of **October 31, 2023** **October 31, 2024**, there was \$5,939 \$6,529 of unrecognized compensation cost related to performance share incentive awards.

Deferred compensation — Our executive officers and other highly compensated employees may elect to defer up to 100 percent of their base pay and cash incentive compensation and, for executive officers, up to 90 percent of their share-based performance incentive award payout each year. Additional share units are credited for quarterly dividends paid on our common shares. Expense related to dividends paid under this plan was \$97, \$107 and \$72 for 2024, 2023 and \$96 for 2023, 2022, and 2021, respectively.

Deferred directors' compensation — Non-employee directors may defer all or part of their cash and equity-based compensation until retirement. Cash compensation may be deferred as cash or as share equivalent units. Deferred cash amounts are recorded as liabilities, and share equivalent units are recorded as equity. Additional share equivalent units are earned when common share dividends are declared.

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Notes to Consolidated Financial Statements — (Continued)

The following table summarizes activity related to director deferred compensation share equivalent units during **2023** **2024**:

	Number of Shares	Weighted-Average Value Per Share
		6265

Outstanding at October 31, 2022		90	\$ 77.70	
	Number of Shares		Number of Shares	Weighted-Average Grant Date Fair Value Per Share
Outstanding at October 31, 2023				
Restricted stock units vested	Restricted stock units vested	4	\$ 226.17	
Dividend equivalents	Dividend equivalents	1	\$ 230.61	
Distributions	Distributions	(17)	\$ 52.90	
Outstanding at October 31, 2023		<u>78</u>	\$ <u>93.11</u>	
Outstanding at October 31, 2024				

The amount charged to expense related to director deferred compensation was \$321, \$309 and \$305 in 2024, 2023 and \$262 in 2023, 2022, and 2021, respectively.

Shares reserved for future issuance — At **October 31, 2023** **October 31, 2024**, there were **1,391** **1,139** of common shares reserved for future issuance through the exercise of outstanding options or rights.

Note 15.14 — Operating segments and geographic area data

We conduct business in three primary operating segments: Industrial Precision Solutions, Medical and Fluid Solutions, and Advanced Technology Solutions. The composition of segments and measure of segment profitability is consistent with that used by our chief operating decision maker. The primary measure used by the chief operating decision maker for purposes of making decisions about allocating resources to the segments and assessing performance is operating profit, which equals sales less cost of sales and certain operating expenses. Items below the operating profit line of the Consolidated Statement of Income (interest and investment income, interest expense and other income/expense) are excluded from the measure of segment profitability reviewed by our chief operating decision maker and are not presented by operating segment. The accounting policies of the segments are the same as those described in Note 1.

Industrial Precision Solutions: This segment **is focused** **focuses** on delivering proprietary dispensing and processing technology, both standard and highly customized equipment, to diverse end markets. Product lines commonly reduce material consumption, increase line efficiency through precision dispense and measurement and control, and enhance product brand and appearance. Components are used for dispensing adhesives, coatings, paint, finishes, sealants and other materials. This segment primarily serves the industrial, agricultural, consumer durables and non-durables markets.

Medical and Fluid Solutions: This segment includes the Company's fluid management solutions for medical, high-tech industrial and other diverse end markets. Related plastic tubing, balloons, catheters, syringes, cartridges, tips and fluid connection components are used to dispense or control fluids within customers' medical devices or products, as well as production processes.

Advanced Technology Solutions: This segment **is focused** **focuses** on products serving electronics end markets. Advanced Technology Solutions products integrate our proprietary product technologies found in progressive stages of an electronics customer's production processes, such as surface treatment, precisely controlled dispensing of material and test and inspection to ensure quality and reliability. Applications include, but are not limited to, semiconductors, printed circuit boards, electronic components and automotive electronics.

No single customer accounted for 10 percent or more of sales in **2024**, **2023** **2022** or **2021**. **2022**
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Notes to Consolidated Financial Statements — (Continued)

The following table presents information about our reportable segments:

	Industrial Precision Solutions	Medical and Fluid Solutions	Advanced Technology Solutions	Corporate Total
Industrial Precision Solutions				
Industrial Precision Solutions				

Year ended						
October 31,						
2024						
Net external sales						
Net external sales						
Net external sales						
Depreciation and amortization						
Operating profit (loss)						
Identifiable assets (a)						
Property, plant and equipment expenditures						
Year ended	Year ended					
October 31,	October 31,					
2023	2023					
Net external sales						
Net external sales						
Net external sales	\$ 1,391,046	\$ 660,316	\$ 577,270	\$ —	\$ 2,628,632	
Depreciation and amortization	33,228	54,988	15,185	8,497	111,898	
Operating profit (loss)	460,889	189,367	101,662	(79,157)	672,761	
Identifiable assets (a)	1,932,527	1,544,456	730,192	1,105,471	5,312,646	
Property, plant and equipment expenditures	9,257	15,716	4,209	5,401	34,583	
Year ended	Year ended					
October 31,	October 31,					
2022	2022					
Net external sales	Net external sales	\$ 1,337,242	\$ 690,177	\$ 562,859	\$ —	\$ 2,590,278
Depreciation and amortization		27,891	54,674	8,780	8,578	99,923
Operating profit (loss)		434,476	217,199	133,253	(82,568)	702,360
Identifiable assets (a)		1,112,825	1,558,861	397,250	812,964	3,881,900
Property, plant and equipment expenditures		9,490	31,009	2,383	8,546	51,428
Year ended October 31, 2021						
Net external sales						
Net external sales	Net external sales	\$ 1,246,947	\$ 641,654	\$ 473,608	\$ —	\$ 2,362,209
Depreciation and amortization	Depreciation and amortization	25,673	56,600	11,826	9,784	103,883
Operating profit (loss)	Operating profit (loss)	414,192	198,194	73,466	(70,725)	615,127

Identifiable assets (a)	Identifiable assets (a)	964,840	1,519,144	394,572	967,796	3,846,352
Property, plant and equipment expenditures	Property, plant and equipment expenditures	9,009	21,115	1,949	6,230	38,303

(a) Operating segment identifiable assets include notes and accounts receivable net of allowance for doubtful accounts, inventories net of reserves, property, plant and equipment net of accumulated depreciation and goodwill. Corporate assets are principally cash and cash equivalents, deferred income taxes, leases, headquarter facilities **the major portion of our enterprise management systems** and intangible assets.

We have significant sales and long-lived assets in the following geographic areas:

		2023	2022	2021		2024	2023	2022
Net external sales	Net external sales							
Americas	Americas							
Americas	Americas	\$1,149,760	\$1,096,596	\$ 969,110				
Europe	Europe	682,676	645,603	617,492				
Asia Pacific	Asia Pacific	796,196	848,079	775,607				
Total net external sales	Total net external sales	\$2,628,632	\$2,590,278	\$2,362,209				
Long-lived assets	Long-lived assets							
Americas	Americas	\$ 328,312	\$ 332,709	\$ 322,878				
Americas	Americas							
Europe	Europe	109,428	62,039	67,776				
Asia Pacific	Asia Pacific	61,282	60,973	75,762				
Total long-lived assets	Total long-lived assets	\$ 499,022	\$ 455,721	\$ 466,416				

Long-lived assets include property, plant and equipment - net and operating right of use lease assets.

A reconciliation of total assets for reportable segments to total consolidated assets is as follows:

	2024	2023	2022
Total identifiable assets for reportable segments	\$ 6,075,111	\$ 5,312,646	\$ 3,881,900
Eliminations	(74,145)	(60,876)	(61,525)
Total consolidated assets	\$ 6,000,966	\$ 5,251,770	\$ 3,820,375

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Notes to Consolidated Financial Statements — (Continued)

A reconciliation of total assets for reportable segments to total consolidated assets is as follows:

	2023	2022	2021
Total identifiable assets for reportable segments	\$ 5,312,646	\$ 3,881,900	\$ 3,846,352
Eliminations	(60,876)	(61,525)	(55,391)

Total consolidated assets	\$ 5,251,770	\$ 3,820,375	\$ 3,790,961
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Note 1615 — Supplemental information for the statement of cash flows

	2023	2022	2021		2024		2023	2022
Cash operating activities:								
Interest paid					Interest paid		Interest paid	
					\$54,710	\$22,975	\$27,122	
Interest paid								
Income taxes paid					Income taxes paid		Income taxes paid	
					112,912	141,212	106,942	

Note 1716 — Contingencies

We are involved in pending or potential litigation regarding environmental, product liability, patent, contract, employee and other matters arising from the normal course of business. Including the environmental matter discussed below, after consultation with legal counsel, we do not believe that losses in excess of the amounts we have accrued would have a material adverse effect on our financial condition, quarterly or annual operating results or cash flows.

We have voluntarily agreed with the City of New Richmond, Wisconsin and other Potentially Responsible Parties to share costs associated with the remediation of the City of New Richmond municipal landfill (the "Site") and the construction of a potable water delivery system serving the impacted area down gradient of the Site. At **October 31, 2023** **October 31, 2024** and **October 31, 2022** **October 31, 2023**, our accrual for the ongoing operation, maintenance and monitoring obligation at the Site was **\$231** **\$181** and **\$266**, **\$231**, respectively. The liability for environmental remediation represents management's best estimate of the probable and reasonably estimable undiscounted costs related to known remediation obligations. The accuracy of our estimate of environmental liability is affected by several uncertainties such as additional requirements that may be identified in connection with remedial activities, the complexity and evolution of environmental laws and regulations, and the identification of presently unknown remediation requirements. Consequently, our liability could be greater than our current estimate. However, we do not expect that the costs associated with remediation will have a material adverse effect on our financial condition or results of operations.

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Management's Report on Internal Control Over Financial Reporting

The management of Nordson Corporation is responsible for establishing and maintaining adequate internal control over financial reporting.

Using criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO") in Internal Control-Integrated Framework ("2013 framework"), Nordson's management assessed the effectiveness of our internal control over financial reporting as of **October 31, 2023** **October 31, 2024**.

We completed the **acquisitions** **acquisition** of the **ARAG Group** **Atrion Corporation** and its subsidiaries ("ARAG Group" or "ARAG") and **CyberOptics Corporation** ("CyberOptics" **Atrion**) on August 24, 2023 and November 3, 2022, respectively, August 21, 2024. As permitted by SEC guidance, the scope of our evaluation of internal control over financial reporting as of **October 31, 2023** **October 31, 2024** did not include the internal control over financial reporting of the **ARAG Group** and **CyberOptics** **Atrion**. The results of the **ARAG Group** and **CyberOptics** **Atrion** are included in our consolidated financial statements from the date **each** the business was acquired. The **combined** total assets of the **ARAG Group** and **CyberOptics** **Atrion** represented **30%** **14%** of our total assets at **October 31, 2023** **October 31, 2024**. The **combined** net revenues represented **4%** **1%** of consolidated revenues for the year ended **October 31, 2023** **October 31, 2024** and the **combined** net income for the year ended **October 31, 2023** **2024** did not have a material impact on the Company's operations.

Based on our assessment, management concluded that our internal control over financial reporting was effective as of **October 31, 2023** **October 31, 2024**.

The independent registered public accounting firm, Ernst & Young LLP, has also audited the effectiveness of our internal control over financial reporting as of **October 31, 2023** **October 31, 2024**. Their Ernst & Young LLP's report on Nordson's internal control over financial reporting is included herein.

/s/ Sundaram Nagarajan

/s/ Stephen Shamrock Daniel R. Hopgood

President and Chief Executive Officer

Executive Vice President and Corporate Controller, Interim Chief Financial Officer

December 20, 2023 18, 2024

December 20, 2023 18, 2024

Nordson Corporation **6669**

Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Nordson Corporation

Opinion on Internal Control over Financial Reporting

We have audited Nordson Corporation's internal control over financial reporting as of **October 31, 2023** **October 31, 2024**, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Nordson Corporation (the Company) maintained, in all material respects, effective internal control over financial reporting as of **October 31, 2023** **October 31, 2024**, based on the COSO criteria.

As indicated in the accompanying Management's Report on Internal Control Over Financial Reporting, management's assessment of and conclusion on the effectiveness of internal control over financial reporting did not include the internal controls of **ARAG Group** **Atrion Corporation** and its subsidiaries (**ARAG Group or ARAG** and **CyberOptics Corporation** (**CyberOptics**) (**Atrion**)), which are included in the **2023** **2024** consolidated financial statements of the Company and **on a combined basis** constituted **30%** **14%** of total assets as of **October 31, 2023** **October 31, 2024** and **4%** **1%** of total revenues for the year then ended. **The combined net Net** income for the year then ended did not have a material impact on the Company's operations. Our audit of internal control over financial reporting of the Company also did not include an evaluation of the internal control over financial reporting of **the ARAG Group and CyberOptics**, **Atrion**.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of **October 31, 2023** **October 31, 2024** and **2022**, **2023**, the related consolidated statements of income, comprehensive income, shareholders' equity and cash flows for each of the three years in the period ended **October 31, 2023** **October 31, 2024**, and the related notes and schedule listed in the Index at Item 15(a) and our report dated **December 20, 2023** **December 18, 2024** expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

Cleveland, Ohio

December **20, 2023** **18, 2024**

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Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Nordson Corporation

Opinion on the Financial Statements

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We have audited the accompanying consolidated balance sheets of Nordson Corporation (the Company) as of October 31, 2023 2024 and 2022 2023, the related consolidated statements of income, comprehensive income, shareholders' equity and cash flows for each of the three years in the period ended October 31, 2023 2024, and the related notes and financial statement schedule listed in the Index at Item 15(a) (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at October 31, 2023 2024 and 2022 2023, and the results of its operations and its cash flows for each of the three years in the period ended October 31, 2023 2024, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of October 31, 2023 2024, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated December 20, 2023 18, 2024 expressed an unqualified opinion thereon.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit **matters matter** communicated below **are matters is a matter** arising from the current period audit of the financial statements that **were was** communicated or required to be communicated to the audit committee and that: (1) **relate relates** to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of the critical audit **matters matter** does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit **matters matter** below, providing a separate **opinions opinion** on the critical audit **matters matter** or on the **accounts account** or **disclosures disclosure** to which **they relate. it relates.**

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Valuation of Goodwill

Description of the Matter

At **October 31, 2023** **October 31, 2024**, the Company had **\$2,784,201** **\$3,280,819** thousand of goodwill. As discussed in Note 5 to the consolidated financial statements, the Company evaluates the carrying amount of goodwill for impairment annually as of August 1, and between annual evaluations if an event occurs or circumstances change that would indicate the fair value of a reporting unit is less than the carrying amount of those assets. The Company performed a quantitative impairment test for all reporting units in fiscal **2023** **2024**. As part of the quantitative impairment **test, tests**, the Company estimated the fair value of each reporting unit using a combination of valuation techniques including the discounted cash flow method, a form of the income approach, and the guideline public company method, a form of the market approach.

Auditing management's annual goodwill impairment assessment relating to goodwill was complex due to the use of valuation methodologies in the determination of the estimated fair values of the reporting units. These fair value estimates are impacted by assumptions such as discount rates, revenue growth rates, and operating margins which are affected by expectations about future market or economic conditions.

How We Addressed the Matter in Our Audit

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company's goodwill impairment process whereby the Company develops assumptions that are used as inputs to the annual goodwill impairment **test, tests**. This included controls over management's review of the valuation models and the assumptions, described above.

To test the implied fair value of the Company's reporting units, we performed audit procedures that included, among others, assessing the valuation methodologies, testing the assumptions, and testing the completeness and accuracy of the underlying data. We involved our internal valuation specialists in assessing the fair value methodologies applied and evaluating the reasonableness of certain assumptions selected by management. We assessed the historical accuracy of management's estimates and performed sensitivity analyses of assumptions to evaluate the changes in the fair value of the reporting units that would result from changes in the assumptions. We tested management's reconciliation of the fair value of the reporting units to the market capitalization of the Company. We also assessed the appropriateness of the disclosures in the consolidated financial statements.

Valuation of acquired customer relationship intangible asset in the ARAG Group acquisition

Description of the Matter

During 2023, the Company completed its acquisition of ARAG Group (ARAG) for net consideration of €957,000 thousand, as disclosed in Note 3 to the consolidated financial statements. The transaction was accounted for as a business combination. The acquisition date fair value of the acquired customer relationship intangible asset was estimated to be \$295,000 thousand.

Auditing the acquisition date fair value of the customer relationship intangible asset was complex due to the significant estimation used by management in determining the fair value. In particular, the fair value estimate required the use of valuation methodologies that were sensitive to significant and subjective assumptions, such as forecasted revenue growth rates, EBITDA margins, customer attrition rate, and discount rate, which are affected by expectations about future market or economic conditions.

How We Addressed the Matter in Our Audit

We obtained an understanding, evaluated the design, and tested the operating effectiveness of controls used by management for the determination of the estimated fair value of the customer relationship intangible asset. For example, we tested controls over management's review of the valuation of the intangible asset, including the review of the valuation model and significant assumptions used to develop the fair value estimate of the intangible asset. We also tested management's internal controls to validate that the data used in the valuation models was complete and accurate.

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To test the estimated fair value of the customer relationship intangible asset, our audit procedures included, among others, assessing methodologies and testing the significant assumptions discussed above and the underlying data supporting the significant assumptions and estimates used by the Company in the valuations. We tested significant assumptions through a combination of procedures, as applicable for each assumption, including comparing them to forecasted industry trends, as well as to the historical results of the acquired business. We performed sensitivity analyses of the significant assumptions used in the valuation model to evaluate the change in fair value resulting from changes in the significant assumptions. With the assistance of our valuation specialists, we evaluated the methodology used by the Company and certain significant assumptions included in the fair value estimate. We also assessed the appropriateness of the disclosures in the consolidated financial statements.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 1956.

Cleveland, Ohio

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

- (a) Evaluation of disclosure controls and procedures. Our management, with the participation of the principal executive officer (president and chief executive officer) and the principal financial officer (vice executive vice president and corporate controller, interim chief financial officer), has reviewed and evaluated our disclosure controls and procedures (as defined in the Securities Exchange Act Rule 13a-15e) as of **October 31, 2023** **October 31, 2024**. Based on that evaluation, our management, including the principal executive and financial officers, has concluded that our disclosure controls and procedures were effective as of **October 31, 2023** **October 31, 2024** in ensuring that information required to be disclosed in the reports that we file or submit under the Securities Exchange Act of 1934 is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and is accumulated and communicated to our management, including the principal executive officer and the principal financial officer, as appropriate to allow timely decisions regarding required disclosure.
- (b) Management's report on internal control over financial reporting. The Report of Management on Internal Control over Financial Reporting and the Report of Independent Registered Public Accounting Firm (Ernst & Young LLP, PCAOB ID: 42) thereon are set forth in Part II, Item 8 of this annual report and are incorporated by reference.
- (c) Changes in internal control over reporting. There were no changes in our internal control over financial reporting that occurred during the fourth quarter of **2023** **2024** that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

During the quarter ended **October 31, 2023** **October 31, 2024**, no director or officer (as defined in Rule 16a-1(f) promulgated under the Exchange Act) of the Company adopted or terminated any "Rule 10b5-1 trading arrangement" or any "non-Rule 10b5-1 trading arrangement," as each term is defined in Item 408 of Regulation S-K.

Item 9C. Disclosures Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

PART III**Item 10. Directors, Executive Officers and Corporate Governance**

The information required by this Item is incorporated by reference to the captions "Proposal 1: Election of Directors" and "Security Ownership of Nordson Common Shares by Directors, Director Nominees, Executive Officers, and Large Beneficial Owners—Delinquent Section 16(a) Reports" of our definitive Proxy Statement for the 2024 Annual Meeting of Shareholders. Information regarding the Audit Committee and Audit Committee financial experts is incorporated by reference to the caption "Committees of the Board of Directors" of our definitive Proxy Statement for the **2024** **2025** Annual Meeting of Shareholders.

Our executive officers serve for a term of one year from date of election to the next organizational meeting of the board of directors and until their respective successors are elected and qualified, except in the case of death, resignation or removal. Information concerning executive officers is contained in Part I of this annual report under the caption "Information about Our Executive Officers."

The information required by this item regarding our insider trading policy and procedures is incorporated by reference to the information contained under the caption "Insider Trading, Anti-Hedging and Anti-Pledging Policies" in our definitive proxy statement for the 2024 Annual Meeting of Stockholders.

We have adopted a code of ethics Ethics and business conduct Business Conduct (the "Code") for all employees and directors, including the principal executive officer, principal financial officer, principal accounting officer, other executive officers principal financial officer and other finance personnel. A copy of the code of ethics Code is available free of charge on our website at <https://www.nordson.com/en/our-company/corporate-governance/about-us/corporate-responsibility/code-of-ethics>. We intend to satisfy our disclosure requirement under Item 5.05 of Form 8-K regarding any amendment to or waiver of a provision of our code of ethics and business conduct that applies to our principal executive officer, principal financial officer, principal accounting officer or controller or persons performing similar functions and that relates to any element of the code of ethics definition enumerated in Item 406(b) of Regulation S-K by posting such information on our website.

Item 11. Executive Compensation

The information required by this Item is incorporated by reference to the "Executive Compensation Discussion and Analysis" section of the definitive Proxy Statement for the **2024****2025** Annual Meeting of Shareholders, along with the sections captioned "Directors Compensation," "Summary Compensation for Fiscal Year **2023**, **2024**," "Grants of Plan-Based Awards," "Outstanding Equity Awards at **October 31, 2023** **October 31, 2024**," "Stock Option Exercises and Stock Vested Tables," "Pension Benefits," "Nonqualified Deferred Compensation," "Potential Benefits Upon Termination or Change of Control," "CEO Pay Ratio," "Risks Related to Executive Compensation Policies and Practices" and "Compensation Committee Report" in our definitive Proxy Statement for the **2024****2025** Annual Meeting of Shareholders.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this Item is incorporated by reference to the caption "Security Ownership of Nordson Common Shares by **Directors, Director Nominees, Executive Officers** **Certain Beneficial Owners** and **Large Beneficial Owners** **Management**" in our definitive Proxy Statement for the **2024****2025** Annual Meeting of Shareholders.

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Equity Compensation Plan Information

The following table sets forth (in whole shares) information regarding equity compensation plans in effect as of **October 31, 2023** **October 31, 2024**:

Plan category	Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (1)	Weighted-average exercise price of outstanding options, warrants and rights (2)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in first reporting column) (3)	Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (1)	Weighted-average exercise price of outstanding options, warrants and rights (2)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in first reporting column) (3)
Equity compensation plans approved by security holders	Equity plans approved by security holders	1,377,280	\$ 152.41	2,009,313				
Equity compensation plans not approved by security holders	Equity plans not approved by security holders	—	—	—				
Total	Total	1,377,280	\$ 152.41	2,009,313				

(1) The number of shares reported may overstate dilution due to the inclusion of performance-based awards at their maximum payout level.

(2) Full value equity awards such as performance share incentive awards are not taken into account in the weighted-average price, as such awards have no exercise price.

(3) As of **October 31, 2023** **October 31, 2024**, includes shares available for future issuance under the 2021 Plan, including for awards other than options, warrants and rights.

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Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this Item is incorporated by reference to the captions "Corporate Governance—Director Independence" and "Corporate Governance—Review and Approval of Transactions with Related Persons" in our definitive Proxy Statement for the **2024****2025** Annual Meeting of Shareholders.

Item 14. Principal Accountant Fees and Services

The information required by this Item is incorporated by reference to the caption "Proposal 2: Ratify the Appointment of **Independent Registered Public Accounting Firm—Fees** **Ernst & Young LLP** as our independent registered public accounting firm for the year ending **October 31, 2024**—Fees Paid to Ernst & Young LLP" and the caption "Proposal 2: Ratify the Appointment of **Independent Registered Public Accounting Firm—Pre-Approval of Audit and Non-Audit Services**" in our definitive Proxy Statement for the **2024****2025** Annual Meeting of Shareholders.

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PART IV

Item 15. Exhibits and Financial Statement Schedules

The following are filed as part of this annual report:

(a) 1. Financial Statements

The following financial statements are included in Part II, Item 8:

Consolidated Statements of Income for each of the three years in the period ended **October 31, 2023** **October 31, 2024**

Consolidated Statements of Comprehensive Income for each of the three years in the period ended **October 31, 2023** **October 31, 2024**

Consolidated Balance Sheets as of **October 31, 2023** **October 31, 2024** and **October 31, 2022** **October 31, 2023**

Consolidated Statements of Shareholders' Equity for each of the three years in the period ended **October 31, 2023** **October 31, 2024**

Consolidated Statements of Cash Flows for each of the three years in the period ended **October 31, 2023** **October 31, 2024**

Notes to Consolidated Financial Statements

Reports of Independent Registered Public Accounting Firm (Ernst & Young LLP, PCAOB ID: 42)

(a) 2. Financial Statement Schedule

Schedule II Valuation and Qualifying Accounts and Reserves for each of the three years in the period ended **October 31, 2023** **October 31, 2024**.

No other consolidated financial statement schedules are presented because the schedules are not required, because the required information is not present or not present in amounts sufficient to require submission of the schedule, or because the information required is included in the financial statements, including the notes thereto.

(a) 3. Exhibits

The exhibits listed on the accompanying index to exhibits are filed as part of this annual report.

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NORDSON CORPORATION
Index to Exhibits

<u>Exhibit Number</u>	<u>Description</u>
(2)	Plan of Acquisition, Reorganization or Arrangement
2-a	Agreement and Plan of Merger, dated as of August 7, 2022, by and among Nordson Corporation, Meta Merger Company and CyberOptics Corporation (incorporated herein by reference to Exhibit 2.1 to Registrant's Current Report on Form 8-K dated August 10, 2022)**
2-b	Agreement and Plan of Merger, dated as of May 28, 2024, by and among Nordson Corporation, Alpha Medical Merger Sub, Inc. and Atrion Corporation (incorporated herein by reference to Exhibit 2.1 to Registrant's Current Report on Form 8-K dated May 28, 2024)**
2-c	Voting and Support Agreement, dated as of May 28, 2024, by and among Nordson Corporation, Montclair Harbour LLC, David A. Battat and Emile A. Battat (incorporated herein by reference to Exhibit 2.2 to Registrant's Current Report on Form 8-K dated May 28, 2024)
2-d	Voting and Support Agreement, dated as of May 28, 2024, by and among Nordson Corporation, Stupp Bros., Inc. and John P. Stupp Jr. (incorporated herein by reference to Exhibit 2.3 to Registrant's Current Report on Form 8-K dated May 28, 2024)
(3)	Articles of Incorporation and By-Laws
3-a	1989 Amended Articles of Incorporation (incorporated herein by reference to Exhibit 3-a to Registrant's Annual Report on Form 10-K for the year ended October 31, 2017)
3-a-1	Certificate of Amendment to 1989 Amended Articles of Incorporation (incorporated herein by reference to Exhibit 3-a-1 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2017)
3-b	2023 Amended Regulations (incorporated herein by reference to Exhibit 3-b to Registrant's Annual Report on Form 10-K for the year ended October 31, 2023)
(4)	Instruments Defining the Rights of Security Holders, including indentures
4-a	Description of Nordson Corporation's Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934 (incorporated herein by reference to Exhibit 4-a to Registrant's Annual Report on Form 10-K for the year ended October 31, 2019)
4-e	Master Note Purchase Agreement dated July 26, 2012 between Nordson Corporation and the purchasers listed therein (incorporated herein by reference to Exhibit 4-e to Registrant's Annual Report on Form 10-K for the year ended October 31, 2018)
4-j	Master Note Purchase Agreement dated July 28, 2015 between Nordson Corporation and the purchasers listed therein (incorporated herein by reference to Exhibit 4.1 to Registrant's Quarterly Report on Form 10-Q for the quarter ended July 31, 2015)
4-k	Master Note Purchase Agreement, dated as of June 22, 2018, by and among Nordson Corporation and the purchasers named therein (incorporated herein by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K dated June 28, 2018)
4-l	Indenture, dated September 13, 2023, by and between the Company and U.S. Bank Trust Company, National Association, as trustee (incorporated herein by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K dated September 13, 2023).
4-m	First Supplemental Indenture, dated September 13, 2023, by and between the Company and U.S. Bank Trust Company, National Association, as trustee, to the Indenture dated September 13, 2023 (incorporated herein by reference to Exhibit 4.2 to Registrant's Current Report on Form 8-K dated September 13, 2023).
4-n	Second Supplemental Indenture, dated September 9, 2024, by and between the Company and U.S. Bank Trust Company, National Association, as trustee, to the Indenture dated September 13, 2023 (incorporated herein by reference to Exhibit 4.2 to Registrant's Current Report on Form 8-K dated September 9, 2024).
4-o	364-Day Term Loan Agreement, dated as of June 21, 2024, by and among Nordson Corporation, as Borrower, Morgan Stanley Senior Funding, Inc., as Administrative Agent, Sole Lead Arranger and Sole Bookrunner, and various financial institutions named therein as lenders (incorporated herein by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K dated June 24, 2024)
4-p	Incremental Amendment to Credit Agreement, dated as of June 21, 2024, by and among Nordson Corporation as Borrower, Nordson Engineering GmbH as German Borrower, Wells Fargo Bank, National Association, as Administrative Agent, and various financial institutions named therein as lenders (incorporated herein by reference to Exhibit 4.2 to Registrant's Current Report on Form 8-K dated June 24, 2024)
(10)	Material Contracts
10-b-2	Nordson Corporation 2005 Deferred Compensation Plan (as Amended and Restated Effective January 1, 2009) (incorporated herein by reference to Exhibit 10-b-2 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2014)*
10-b-3	First Amendment to the Nordson Corporation 2005 Deferred Compensation Plan (as Amended and Restated Effective January 1, 2009) (incorporated herein by reference to Exhibit 10.1 to Registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 2016)*

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NORDSON CORPORATION
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Exhibit Number	Description
10-c-1	Form of Indemnity Agreement between the Registrant and Directors, effective November 1, 2016 (incorporated herein by reference to Exhibit 10-c-1 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2016)
10-c-2	Form of Indemnity Agreement between the Registrant and Executive Officers, effective November 1, 2016 (incorporated herein by reference to Exhibit 10-c-2 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2016)
10-d	Restated Nordson Corporation Excess Defined Contribution Retirement Plan (incorporated herein by reference to Exhibit 10-d to Registrant's Annual Report on Form 10-K for the year ended October 31, 2009)*
10-d-1	First Amendment to Restated Nordson Corporation Excess Defined Contribution Retirement Plan (incorporated herein by reference to Exhibit 10-d-1 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2018)*
10-d-3	Nordson Corporation 2005 Excess Defined Contribution Retirement Plan (as Amended and Restated Effective January 1, 2009) (incorporated herein by reference to Exhibit 10-d-3 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2014)*
10-e	Nordson Corporation Excess Defined Benefit Pension Plan (incorporated herein by reference to Exhibit 10-e to Registrant's Annual Report on Form 10-K for the year ended October 31, 2009)*
10-e-1	First Amendment to Nordson Corporation Excess Defined Benefit Pension Plan (incorporated herein by reference to Exhibit 10-f-1 to Registrant's Annual Report on Form 10-K for the year ended October 29, 2000)*
10-e-2	Second Amendment to Nordson Corporation Excess Defined Benefit Pension Plan (incorporated herein by reference to Exhibit 10-e-1 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2018)*
10-e-3	Nordson Corporation 2005 Excess Defined Benefit Pension Plan (as Amended and Restated Effective January 1, 2009) (incorporated herein by reference to Exhibit 10-e-3 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2014)*

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NORDSON CORPORATION
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Exhibit Number	Description
10-e-4	Nordson Corporation 2005 Excess Defined Benefit Pension Plan (First Amendment Effective July 9, 2009) (incorporated by reference to Exhibit 10-e-4 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2021)*
10-e-5	Nordson Corporation 2005 Excess Defined Benefit Pension Plan (Second Amendment Effective July 1, 2021) (incorporated by reference to Exhibit 10-e-5 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2021)*
10-g-1	Amended and Restated Nordson Corporation 2004 Long-Term Performance Plan (incorporated herein by reference to Exhibit 10-g-1 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2013)*
10-g-2	Nordson Corporation Amended and Restated 2012 Stock Incentive and Award Plan (incorporated herein by reference to Exhibit 10.1 to Registrant's Current Report on Form 8-K dated March 2, 2018)*
10-g-3	Nordson Corporation 2012 Stock Incentive and Award Plan, Form of Notice of Award - Key Employees (as amended November 24, 2014) (incorporated herein by reference to Exhibit 10-g-3 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2014)*
10-g-4	Nordson Corporation 2012 Stock Incentive and Award Plan, Form of Notice of Award - Executive Officers (as amended November 24, 2014) (incorporated herein by reference to Exhibit 10-g-4 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2014)*
10-g-5	Nordson Corporation 2012 Stock Incentive and Award Plan, Directors' Deferred Compensation Sub-Plan (incorporated herein by reference to Exhibit 10-g-5 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2013)*
10-g-6	Nordson Corporation 2012 Stock Incentive and Award Plan, Directors' Deferred Compensation Sub-Plan, Form of Notice of Award (incorporated herein by reference to Exhibit 10-g-6 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2013)*
10-g-7	Amended and Restated Nordson Corporation Directors' Deferred Compensation Sub-Plan (incorporated herein by reference to Exhibit 10-g-7 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2017)*
10-g-8	Nordson Corporation 2021 Stock Incentive and Award Plan (incorporated herein by reference to Exhibit 10.1 to Registrant's Current Report on Form 8-K dated March 2, 2021)*
10-g-9	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Award - Key Employees (incorporated herein by reference to Exhibit 10.1 to Registrant's Current Report on Form 8-K dated April 19, 2021)*
10-g-10	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Award - Executive Officers (incorporated herein by reference to Exhibit 10.2 to Registrant's Current Report on Form 8-K dated April 19, 2021)*
10-h	Assurance Trust Agreement between Nordson Corporation and Key Trust Company of Ohio, N.A. amended and restated as of January 22, 2014 (incorporated herein by reference to Exhibit 10.1 to Registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 2014)*

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Exhibit Number	Description
10-i	Form of Change in Control Retention Agreement between the Registrant and Executive Officers (incorporated herein by reference to Exhibit 10-h-1 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2014)*
10-j	Compensation Committee Rules of the Nordson Corporation Amended and Restated Nordson Corporation 2004 Long Term Performance Plan governing directors' deferred compensation (incorporated herein by reference to Exhibit 10-j to Registrant's Annual Report on Form 10-K for the year ended October 31, 2016)*
10-k	Amended and Restated Term Loan Agreement, dated April 30, 2019, among Nordson Corporation, various financial institutions named therein, and PNC Bank, National Association, as administrative agent (incorporated herein by reference to Exhibit 4.2 to Registrant's Current Report on Form 8-K dated May 6, 2019)**
10-l	Employment Agreement, effective as of August 1, 2019, between Nordson Corporation and Sundaram Nagarajan (incorporated herein by reference to Exhibit 10.2 to Registrant's Current Report on Form 8-K dated June 14, 2019)*
10-m	Change-in-Control Retention Agreement between Nordson Corporation and Sundaram Nagarajan (incorporated herein by reference to Exhibit 10.3 to Registrant's Current Report on Form 8-K dated June 14, 2019)*
10-n	Separation agreement between Gregory P. Merk and Nordson Corporation, effective January 27, 2022 (incorporated herein by reference to Exhibit 10.1 to Registrant's Quarterly Report on Form 10-Q dated February 25, 2022)
10-o10-o	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Stock Options Award (incorporated herein by reference to Exhibit 10.1 to Registrant's Quarterly Report on Form 10-Q dated February 23, 2023)*
10-p10-p	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Restricted Share Units Award (incorporated herein by reference to Exhibit 10.2 to Registrant's Quarterly Report on Form 10-Q dated February 23, 2023)*
10-q10-q	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Performance Share Units Award (incorporated herein by reference to Exhibit 10.3 to Registrant's Quarterly Report on Form 10-Q dated February 23, 2023)*
10-r	Term Loan Agreement, dated as of January 18, 2023, by and among Nordson Corporation and Nordson Engineering GmbH, as Borrowers, and the Lenders party thereto and PNC Bank, as Administrative Agent, and PNC Capital Markets LLC, as Sole Lead Arranger and Sole Bookrunner (incorporated herein by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K dated January 23, 2023)

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NORDSON CORPORATION
Index to Exhibits

Exhibit Number	Description
10-s	Credit Agreement, dated as of June 6, 2023, by and among Nordson Corporation and Nordson Engineering GmbH, as Borrowers, Wells Fargo Bank, National Association, as Agent, and Wells Fargo Securities, LLC, BofA Securities, Inc., JPMorgan Chase Bank, N.A., PNC Capital Markets LLC, and U.S. Bank National Association, as Joint Lead Arrangers and Bookrunners, and various financial institutions named therein as lenders. (incorporated herein by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K dated June 6, 2023)
10-t	364-Day Term Loan Credit Agreement, dated as of August 23, 2023, by and among Nordson Corporation, as Borrower, JPMorgan Chase Bank, N.A., as Administrative Agent, Sole Lead Arranger and Sole Bookrunner, and various financial institutions named therein as lenders (incorporated herein by reference to Exhibit 4.1 to Registrant's Current Report on Form 8-K dated August 24, 2023).
10-u	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Stock Option Award* Award (incorporated by reference to Exhibit 10-u to Registrant's Annual Report on Form 10-K for the year ended October 31, 2023)*
10-v	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Restricted Share Unit Award*
10-w	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Performance Share Unit Award*
10-x	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Restricted Share Unit Award (incorporated by reference to Exhibit 10-v to Registrant's Annual Report on Form 10-K for the year ended October 31, 2023)*
10-w	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Performance Share Unit Award (incorporated by reference to Exhibit 10-w to Registrant's Annual Report on Form 10-K for the year ended October 31, 2023)*
10-x	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Restricted Share Unit Award with cliff cliff vesting (incorporated by reference to Exhibit 10-x to Registrant's Annual Report on Form 10-K for the year ended October 31, 2023)*
(19)	Nordson Corporation Insider Trading Policy
(21)	Subsidiaries of the Registrant
(23)	Consent of Independent Registered Public Accounting Firm
(24)	Power of Attorney (included on the signature page to this Annual Report on Form 10-K)
31.1	Certification pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934 by the Chief Executive Officer, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31.2	Certification pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934 by the Chief Financial Officer, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

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Exhibit Number	Description
32.1	Certification of CEO pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)
32.2	Certification of CFO pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)
97	Nordson Corporation Compensation Clawback Policy (incorporated by reference to Exhibit 97 to Registrant's Annual Report on Form 10-K for the year ended October 31, 2023)
99-a	Form S-8 Undertakings (incorporated herein by reference to Exhibit 99-a to Registrant's Annual Report on Form 10-K for the year ended October 31, 2016)
101	The following financial information from Nordson Corporation's Annual Report on Form 10-K for the year ended October 31, 2023 October 31, 2024, formatted in inline Extensible Business Reporting Language (iXBRL): (i) the Consolidated Statements of Income for the years ended October 31, 2023 October 31, 2024, 2022 2023 and 2021, 2022, (ii) the Consolidated Statements of Comprehensive Income for the years ended October 31, 2023 October 31, 2024, 2022 2023 and 2021, 2022, (iii) the Consolidated Balance Sheets at October 31, 2023 October 31, 2024 and 2022, 2023, (iv) the Consolidated Statements of Changes in Shareholders' Equity for the years ended October 31, 2023 October 31, 2024, 2022 2023 and 2021, 2022, (v) the Consolidated Statements of Cash Flows for the years ended October 31, 2023 October 31, 2024, 2022 2023 and 2021, 2022, and (vi) the Notes to Consolidated Financial Statements.
104	The cover page from Nordson Corporation's Annual Report on Form 10-K for the year ended October 31, 2023 October 31, 2024, formatted in inline Extensible Business Reporting Language (iXBRL) (included in Exhibit 101).

- * Indicates management contract or compensatory plan, contract or arrangement in which one or more directors and/or executive officers of Nordson Corporation may be participants.
- ** Schedules and attachments to this exhibit have been omitted pursuant to Regulation S-K, Item 601(a)(5). The Registrant will provide a copy of any omitted schedule to the SEC or its staff upon request.

Item 16. Form 10-K Summary

None.

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Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

NORDSON CORPORATION

Date: December 20, 2023 December 18, 2024

By: /s/ Stephen Shamrock

Stephen Shamrock

Vice President and Corporate Controller, Interim Chief
Financial Accounting Officer

Nordson Corporation 7881

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints ~~Stephen Shamrock~~ Daniel R. Hopgood as his or her true and lawful attorney-in-fact and agent with full power to act alone, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and all other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

<u>Signatures</u>	<u>Title</u>	<u>Date</u>
/s/ Sundaram Nagarajan Sundaram Nagarajan	Director, President and Chief Executive Officer (Principal Executive Officer)	December 20, 2023 18, 2024
/s/ Daniel R. Hopgood Daniel R. Hopgood	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	December 18, 2024
/s/ Stephen Shamrock Stephen Shamrock	Vice President and Corporate Controller, Interim Chief Financial Accounting Officer (Principal Financial Officer) (Principal Accounting Officer)	December 20, 2023 18, 2024
/s/ Michael J. Merriman, Victor L. Richey, Jr. Michael J. Merriman, Victor L. Richey, Jr.	Chair of the Board	December 20, 2023 18, 2024
/s/ Annette Clayton Annette Clayton	Director	December 18, 2024
/s/ Dr. John A. DeFord Dr. John A. DeFord	Director	December 20, 2023 18, 2024
/s/ Frank M. Jaehnert Frank M. Jaehnert	Director	December 20, 2023 18, 2024
/s/ Ginger M. Jones Ginger M. Jones	Director	December 20, 2023 18, 2024
/s/ Christopher L. Mapes Christopher L. Mapes	Director	December 18, 2024
/s/ Michael J. Merriman, Jr. Michael J. Merriman, Jr.	Director	December 18, 2024
/s/ Milton M. Morris Milton M. Morris	Director	December 20, 2023 18, 2024
/s/ Jennifer A. Parmentier Jennifer A. Parmentier	Director	December 20, 2023 18, 2024
/s/ Victor L. Richey, Jr. Victor L. Richey, Jr.	Director	December 20, 2023

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Schedule II – Valuation and Qualifying Accounts and Reserves

		Balance				Balance							
		at	Charged	Beginning	to	Additions	Currency	at End					
		of Year	Expense	(Deductions)	Effects			of Year					
Balance at	Beginning												
Beginning	of Year												
Allowance for Doubtful Accounts	Allowance for Doubtful Accounts												

2021		\$ 9,045	32	(1,572)	47	\$ 7,552
2022						
2022	2022	\$ 7,552	1,259	(1,336)	743	\$ 8,218
2023	2023	\$ 8,218	283	1,469	45	\$10,015
2024						
Inventory	Inventory					
Obsolescence	Obsolescence					
and Other	and Other					
Reserves	Reserves					
2021		\$ 41,315	11,718	(7,436)	266	\$45,863
2022						
2022	2022	\$ 45,863	18,694	(18,372)	(450)	\$45,735
2023	2023	\$ 45,735	24,925	6,617	(152)	\$77,125
2024						

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NORDSON CORPORATION
2023
AMENDED REGULATIONS INSIDER TRADING POLICY

This Insider Trading policy (this "Policy") is intended to help you understand your responsibilities as a Nordson Corporation ("Nordson" or the "Company") employee, officer, or director and when you purchase or sell Company securities or securities of certain other publicly traded companies.

This Policy is designed to prevent Insider Trading or allegations of Insider Trading, and to protect the Company's reputation for integrity and ethical conduct. **It is your obligation to understand and comply with this Policy.** Defined terms are noted throughout the Policy, as well as summarized in the Definitions table located at the end of this Policy.

POLICY SUMMARY

ARTICLE

What is Insider Trading?	Insider trading occurs when a person uses material nonpublic information obtained through his or her relationship or involvement with the Company to make decisions to purchase, sell or otherwise trade the Company's securities or to provide that information to others outside the Company.
Who does the policy apply to?	All Nordson employees, officers and directors and certain family members.
What does it apply to?	Purchases, sales, or other trades of Nordson stock or other securities, and tips and recommendations regarding Nordson securities when in possession of material nonpublic information. Trades, tips and recommendations involving another company's securities where you have obtained material, nonpublic information about it or its customers, suppliers, or other companies through your employment at Nordson.
What happens if I violate the Insider Trading Policy?	Federal law prohibits Insider Trading. Violations of the Insider Trading laws may result in criminal and civil penalties, including substantial civil fines. Violations of the Insider Trading Policy are subject to employee discipline, including termination.

Applicability

SHAREHOLDERS

SECTION 1. ANNUAL MEETING. The annual meeting of shareholders This Policy applies to all employees of the Company, for the election of directors, the consideration of reports, and the transaction of such other business as may properly be brought before the meeting shall be held at the principal office of the Company in Westlake, Ohio, or at such other place either within or without the State of Ohio as may be designated by the Board of Directors, by the Chairman of the Board, or by the President and specified in the notice of the meeting, at 5:15 o'clock p.m. on the fourth Tuesday in February in each year, or at such other time and on such other date (not, however, earlier than February 15 or later than March 15 in any year) as the Board of Directors may determine.

SECTION 2. SPECIAL MEETING. Special meetings of the shareholders of the Company may be held on any business day when called by the President, or by a Vice President; by the Board of Directors acting at a meeting or by a majority of the directors acting without a meeting; or by persons who hold fifty percent of all the shares outstanding and entitled to vote thereat. Upon request in writing delivered either in person or by registered mail to the President or the Secretary by any person entitled to call a special meeting of the shareholders, that officer shall forthwith cause to be given to the shareholders entitled thereto notice of a meeting to be held on a date not less than seven or more than sixty days after the receipt of the request, as that officer may fix. If the notice is not given within thirty days after the delivery or mailing of the request, the persons calling the meeting may fix the time of the meeting and give notice thereof in the manner provided by law or as provided in these Regulations, or cause the notice to be given by any designated representative. Each special meeting shall be called to convene between nine o'clock a.m. and four o'clock p.m. and shall be held at the principal Office of the Company at Westlake, Ohio, unless the meeting is called by the directors, acting with or without a meeting, in which case the meeting may be held at any place either within or without the State of Ohio determined by the Board of Directors and specified in the notice of the meeting.

SECTION 3. NOTICE OF MEETINGS. Not less than seven or more than sixty days before the date fixed for a meeting of the shareholders, written notice stating the time, place, and purposes of the meeting shall be given by or at the direction of the President, a Vice President, the Secretary, or an Assistant Secretary (or, if notice is not timely given, by a designated representative of the person calling the meeting under Section 2 of this Article I). The notice shall be given by personal delivery or by mail to each shareholder entitled to notice of the meeting who is not of record as of the date next preceding the day on which notice is given or, if a record date therefor is duly fixed, of record as of that date; if mailed, the notice shall be addressed to the shareholders at their respective addresses as they appear on the records of the Company. Notice of the time, place, and purposes of any meeting of shareholders may be waived in writing, either before or after the holding of the meeting, by any shareholders, which writing shall be filed with or entered upon the records of the meeting. The attendance of any shareholder at any meeting without protesting, prior to or at the commencement of the meeting, the lack of proper notice shall be deemed to be a waiver by him of notice of the meeting.

SECTION 4. QUORUM; ADJOURNMENT. Except as may be otherwise provided by law or by the Articles of Incorporation, at any meeting of the shareholders, holders of one-third of the outstanding voting shares of the Company present in person or by proxy shall constitute a quorum of such meeting; provided, however, that no action required by law, the Articles, or these Regulations to be authorized or taken by a designated proportion of the shares of any particular class or of each class of the Company may be authorized or taken by a lesser proportion and except that the holders of a majority of the voting shares represented at the meeting may adjourn the meeting from time to time; if any meeting is adjourned, notice of the adjournment need not be given if the time and place to which such meeting is adjourned are fixed and announced at the meeting.

SECTION 5. PROXIES. Persons entitled to vote shares or act with respect to shares may vote or act in person or by proxy. The person appointed as proxy need not be a shareholder. Unless the writing appointing a proxy otherwise provides, the presence at a meeting of a person who has appointed a proxy shall not operate to revoke the appointment. Notice to the Company, in writing or in open meeting, of the revocation of the appointment of a proxy shall not affect any vote or act previously taken or authorized.

SECTION 6. APPROVAL AND RATIFICATION OF ACTS OF OFFICERS AND BOARD OF DIRECTORS. Except as otherwise provided by the Articles of Incorporation or by law, any contract, act, or transaction, prospective or past, of the Company, of the Board of Directors, or of the officers may be approved or ratified by the affirmative vote at a meeting of the shareholders, or by written consent, with or without a meeting, of the holders of record of shares entitling them to exercise a majority of the voting power of the Company, and that approval or ratification shall be as valid and binding as though affirmatively voted for or consented to by every shareholder all members of the Company, Company's board of directors, and their respective immediate family members, household members, and family members whose transactions involving Nordson securities are directed by the employee, officer, or director or are subject to the employee, officer, or director's influence or control ("Family Members").

SECTION 7. ORDER

NO TRADING OR TIPPING WHILE IN POSSESSION OF BUSINESS MATERIAL NONPUBLIC INFORMATION

(a) The Chairman of the Board, No director, officer, or such other officer employee of the Company as (each, a "Potential Insider") or any of their Family Members may be designated

- purchase or sell, or offer to purchase or sell, any Company security, whether or not issued by the Board Company, while in possession of Directors, will call meetings of material nonpublic information about the shareholders to order and will preside at the meetings. The presiding officer will determine the order of business at the meeting and have the authority to regulate the conduct of the meeting, including (i) limiting the persons (other than shareholders and their duly appointed proxies) who may attend the meeting, (ii) determining whether any shareholder or his or her proxy should be excluded from the meeting because the shareholder or proxy has disrupted or is likely to disrupt the meeting, (iii) determining the circumstances in which any person may make a statement or ask questions at the meeting, and (iv) establishing such other procedures as the presiding officer may deem appropriate for the orderly conduct of the meeting.

(b) At an annual meeting of the shareholders, only such business as is properly brought before the meeting will be considered. To be properly brought before an annual meeting, business must be (i) specified in the notice of the meeting (or any supplement to that notice) given by or at the direction of the President, a Vice President, the Secretary, or an Assistant Secretary in accordance with Section 3 of this Article I, (ii) brought before the meeting by the presiding officer or by or at the direction of the Board of Directors, or (iii) properly requested by a shareholder to be brought before the meeting in accordance with subsection (c) of this Section 7.

(c) For business to be properly requested by a shareholder to be brought before an annual meeting of the shareholders, the shareholder must (i) be a shareholder of the Company of record at the time of the giving of the notice for the annual meeting and at the time of the annual meeting, (ii) be entitled to vote at the annual meeting, and (iii) have given timely written notice of the business to the Secretary. To be timely, a shareholder's notice must be delivered to or mailed and received at the principal executive offices of the Company not less than 60 nor more than 90 days prior to the annual meeting; except that, if the first public announcement of the date of the annual meeting is not made at least 70 days prior to the date of the meeting, notice by the shareholder will be timely if it is so received not later than the close of business on the tenth day following the day on which the first public announcement of the date of the meeting is made. A shareholder's notice must set forth, as to each matter the shareholder proposes to bring before the annual meeting, (A) a description in reasonable detail of the business proposed to be brought before the meeting, (B) the name and address, as they appear on the Company's books, of the shareholder proposing such business and of the beneficial owner, if any, on whose behalf the proposal is made, (C) the class and number of shares that are owned of record and beneficially by the shareholder proposing the Company;

Exhibit 19

business* communicate any material nonpublic information about the Company ("tip") to any other person, including family members and friends, or otherwise disclose such information without the Company's prior authorization; or

- purchase or sell any security of any other company while in possession of material nonpublic information about that company that was obtained in the course of his or her involvement with the Company. No Potential Insider or any of their Family Members who knows of any such material nonpublic information may communicate that information to, or tip, any other person, including family members and friends, or otherwise disclose such information without the Company's authorization.

You should never trade, tip, or recommend securities (or otherwise cause the purchase or sale of securities) while in possession of material nonpublic information unless you first consult with, and obtain the advance approval of, first, the General Counsel or, second, the Chief Financial Officer (collectively, the General Counsel and the Chief Financial Officer are the "Compliance Officers").

Directors and executive officers must "pre-clear" all trading in securities of the Company in accordance with the procedures set forth below.

Any exceptions to the Policy, if permitted, may only be granted by a Compliance Officer and must be provided before any activity contrary to the above requirements takes place.

VIOLATIONS OF INSIDER TRADING LAWS

Penalties for trading on or communicating material nonpublic information can be severe; both for individuals involved in such unlawful conduct and their employers and supervisors, and may include jail terms, criminal fines, civil penalties, and civil enforcement injunctions. **COMPLIANCE WITH THIS POLICY IS MANDATORY.**

- Legal Penalties.** The following penalties apply under SEC Rule 10b-5, which prohibits insider trading on material nonpublic information: (1) imprisonment for up to 20 years; (2) criminal fines of up to \$5 million; (3) civil penalties of up to 3 times the profits gained or losses avoided; (4) prejudgment interest; and (5) private party damages.
- Tipping Penalties:** A person who tips others may also be liable for transactions by the beneficial owner, if tippees to whom he or she has disclosed material nonpublic information. Tippers can be subject to the same legal penalties and sanctions as the tippees.
- Company and Manager Penalties:** The SEC can also seek substantial civil penalties from any person who, at the time of an insider trading violation, "directly or indirectly controlled the person who committed such violation," which would apply to the Company and/or management and supervisory personnel.
- Company-imposed Penalties.** Employees who violate this Policy may be subject to disciplinary action by the Company, including ineligibility for future participation in Nordson's equity incentive plans, termination of employment, and removal from the Board of Directors for non-employee directors.

Exhibit 19

Every officer, director, and other employee has the individual responsibility to comply with this Policy, and the applicable laws of their jurisdiction. In all cases, the ultimate responsibility for adhering to this Policy and avoiding improper trading rests with you, and any action on whose behalf the proposed part of the Company, the Compliance Officers or any other employee or director pursuant to this Policy (or otherwise) does not in any way constitute legal advice or insulate you from liability under applicable securities laws.

EXCEPTIONS

The trading restrictions of this Policy do not apply to the following:

- Nordson Corporation Employees' Savings Trust ("NEST"). Investing 401(k) plan contributions in the Nordson Stock Fund in accordance with the terms of the Company's NEST plan is made, exempted from the trading restrictions of this Policy. However, any changes in your investment election regarding the Company's stock are subject to trading restrictions under this Policy.
- Options. Exercising stock options granted under the Nordson Corporation 2021 Stock Incentive Plan, as amended and (D) restated, or any similar equity plan, for cash or the delivery of previously-owned Company shares is exempted from the trading restrictions of this Policy. However, the sale of any shares issued on the exercise of Company-granted stock options and any cashless exercise of Company-granted stock options are subject to trading restrictions under this Policy. In other words, an exercise of stock options and holding them is exempted from the Policy, but a cashless exercise or exercise and sale is subject to the Policy.
- Nordson Dividend Reinstatement Plan ("DRP"). The acquisition of Nordson shares through the DRP is exempted from the trading restrictions of this Policy.

POST-RETIREMENT OR TERMINATION TRANSACTIONS

This Policy continues to apply to Covered Persons and employees even after the Covered Person or employee has retired or terminated employment or other services to the Company or a subsidiary, subject to additional terms, conditions or restrictions that may be set forth in an agreement between the Covered Person and the Company.

- Covered Persons. This Policy applies until the later of (1) the first trading day of the permissible trading period ("PTP") following the public release of earnings for the fiscal quarter immediately following the fiscal quarter in which the Covered Person leaves the Company, or (2) the third trading day after any material, interest non-public information known to the Covered Person has become public or is no longer material;
- Former Employees. This Policy shall apply until the third trading day after any material, non-public information known to the employee has become public or is no longer material.

Exhibit 19

TRADING GUIDELINES SUMMARY FOR COVERED PERSONS ONLY

What are the trading guidelines?	Additional trading restrictions and obligations that apply to Covered Persons.
Who do the trading guidelines apply to?	All Covered Persons.
What does it apply to?	Certain times that trading is prohibited and certain transactions that are prohibited.
What exceptions are there to the trading guidelines?	The trading restrictions do not apply when made under an Approved 10b5-1 Plan.

All Covered Persons are subject to the following trading guidelines regarding trading in the Company's securities.

- Permitted Trading Periods. Covered Persons are generally permitted to buy, sell, or transfer Nordson shares only during a permitted trading period ("PTP"), which is commonly referred to as a "trading window". Nordson has established four routine PTPs. Each PTP begins at the open of the market on the third trading day following the date of public disclosure of the financial results for a fiscal quarter or year and continue until the close of market approximately five weeks before the next earnings release. The PTPs are published each fiscal year by a Compliance Officer. The PTPs apply, whether or not a reminder notice of the blackout is sent. You are responsible for compliance with this Policy.
- Special Blackout Periods. From time to time, employees may be prohibited from trading Nordson shares during a PTP because of material developments in our business that are not yet disclosed to the public. Employees will be notified of any special blackout period. In such

shareholder event, the employee may not engage in any transaction involving Nordson securities. The Company will re-open the PTP at the beginning of the third trading day following the date of public disclosure of the information, or beneficial owner at such time as the information is no longer material.

- **Prohibited Transactions.** Covered Persons and Family Members, and entities over which such person exercises control, are prohibited from engaging in such business. This Section 7(c) will the following transactions in the Company's securities:

- (i) **Short-term trading.** Covered Persons who purchase Company securities may not affect sell any rights that Company securities of the shareholder same class for at least six months after the purchase;
- (ii) **Short sales.** Covered Persons may have pursuant not sell the Company's securities short;
- (iii) **Options trading.** Covered Persons may not buy or sell puts or calls or other derivative securities on the Company's securities;
- (iv) **Trading on margin or pledging.** Covered Persons may not hold Company securities in a margin account or pledge Company securities as collateral for a loan; and

Exhibit 19

- (v) **Hedging.** Covered Persons may not enter into hedging or monetization transactions or similar arrangements with respect to Company securities.

- **Exception.** These trading restrictions do not apply to transactions made under a pre-existing written plan, contract, instruction, or arrangement under Rule 14a-8 10b5-1 under the Securities Exchange Act of 1934 (an "Approved 10b5-1 Plan") that:

- (i) has been reviewed and approved by the Compliance Officer during a permitted trading window and
 - a. for directors and officers, no trades will be executed thereunder until the later of, (A) ninety (90) days (or if revised or amended, such revisions or amendments have been reviewed and approved by the Compliance Officer at least ninety (90) days in advance of any subsequent trades), or (B) 2 business days after the filing of the Company's Form 10-Q or 10-K, as applicable; or
 - b. for all other Covered Persons, no trades will be executed thereunder for thirty (30) days in (or, if revised or amended, such revisions or amendments have been reviewed and approved by the Compliance Officer at least thirty (30) days in advance of any subsequent trades);
- (ii) contains representations certifying that the Approved 10b5-1 Plan was entered into in good faith without an intention to request evade insider trading laws by the inclusion Covered Person at a time when the Covered Person was not in possession of proposals material nonpublic information about the Company;
- (iii) gives a third party the discretionary authority to execute such purchases and sales, outside the control of the Covered Person, so long as such third party does not possess any material nonpublic information about the Company; or explicitly specifies the security or securities to be purchased or sold, the number of shares, the prices and/or dates of transactions, or other formula(s) describing such transactions; and
- (iv) the Compliance Officer has ensured that the Covered Person does not have more than one 10b5-1 Plan for the Company's securities in effect at one time, subject to certain limited exceptions.

Pre-clearance of Securities Transactions

The Company requires all Directors and executive officers, prior to trading, to clear all transactions in the Company's proxy statement Company's securities, even during a PTP or trading window.

- (d) At a special meeting of Directors and executive officers may not, directly or indirectly, purchase or sell (or otherwise make any transfer or gift) any Company security at any time without first obtaining prior approval from first, the shareholders, only such business as is properly brought before the meeting will be conducted. To be properly brought before a special meeting, business must be (i) specified in the notice of the meeting (or any supplement to that notice) given by General Counsel or, at the direction of the President, a Vice President, the Secretary, or an Assistant Secretary in accordance with Section 3 of this Article I (or, if notice is not timely given, by a designated representative of the person calling the meeting under Section 2 of this Article I), or (ii) brought before the meeting by the presiding officer or by or at the direction of the Board of Directors.

The determination of whether any business sought to be brought before any annual or special meeting of the shareholders is properly brought in accordance with this Section 7 will be made by the presiding officer of the meeting. If the presiding officer determines that any business is not properly brought before the meeting, he or she will so declare is unavailable, the Chief Financial Officer. These procedures also apply to transactions by such person's spouse, immediate family members, household members and family members whose transactions involving Nordson securities are directed by a Director or executive officer or are subject to their influence or control.

The General Counsel or Chief Financial Officer shall record the meeting date each request is received and the business date and time each request is approved or disapproved. Unless revoked or otherwise stated, a grant of permission will not be considered or acted upon.

ARTICLE II

BOARD OF DIRECTORS

SECTION 1. NUMBER AND CLASSIFICATION. The Board of Directors will be divided into three classes consisting of not less than three directors each. The number of directors may be fixed or changed (a) by the shareholders at any meeting of shareholders called to elect directors at which a quorum is present, by the vote of the holders of shares representing 80% of the voting power in elections of directors, or (b) by the Board of Directors by the vote of a majority of the directors then in office. The terms in office of the directors in each of the classes will expire in consecutive years. At each annual election of directors, directors will be elected to the class whose term in office expires in that year and will hold office for a term of three years and normally remain valid until their respective successors are elected. In case of any increase in the number of directors of any class, the additional director or directors elected to that class will hold office for the remainder of the term in office of that class.

SECTION 2. RESIGNATION; REMOVAL; VACANCIES. Any director may resign at any time by oral statement made at a meeting of the Board of Directors or in a writing delivered to the Secretary; the resignation will take effect immediately or at such other time as the director may specify. No director may be removed prior to the expiration of his term except for gross negligence or willful misconduct in the performance of his duties as a director. No reduction in the number of directors of any class, and no modification or elimination of the classification of the Board of Directors, will of itself have the effect of shortening the term of any incumbent director. In the event of any vacancy or vacancies in the Board of Directors, however caused, the directors then in office, though less than a majority of their number, fill each vacancy for the remainder of the term in office of the director whose resignation, removal, or death resulted in the vacancy.

SECTION 3. NOMINATION OF CANDIDATES FOR ELECTION AS DIRECTORS.

(a) At a meeting of the shareholders at which directors are to be elected, only persons properly nominated as candidates will be eligible for election as directors. Candidates may be properly nominated either (i) by the Board of Directors or (ii) by any shareholder in accordance with subsection (b) of this Section 3.

(b) For a shareholder properly to nominate a candidate for election as a director at a meeting of the shareholders, the shareholder must (i) be a shareholder of the Company of record at the time of the giving of the

notice for the meeting, (ii) be entitled to vote at the meeting in the election of directors, and (iii) have given timely written notice of the nomination to the Secretary. To be timely, a shareholder's notice must be delivered to or mailed and received at the principal executive offices of the Company not less than 60 nor more than 90 days prior to the meeting; except that, if the first public announcement of the date of the meeting is not made at least 70 days prior to the date of the meeting, notice by the shareholder will be timely if it is so received not later than the close of trading two business on the tenth day following the day on which the first public announcement of the date of the meeting is made. A shareholder's notice must set forth, as to each candidate, all of the information about the candidate required to be disclosed in a proxy statement complying with the rules of the Securities and Exchange Commission that is used in connection with the solicitation of proxies for the election of the candidate as a director. It was granted. If the officer presiding at the meeting determines that one or more of the candidates has not been nominated in accordance with these procedures, he or she will so declare at the meeting, and the candidates will not be considered or voted upon at the meeting.

SECTION 4. ORGANIZATION MEETING. Immediately after each annual meeting of the shareholders, the newly elected directors shall hold an organizational meeting for the purpose of electing officers and transacting any other business. Notice of the organizational meeting need not be given.

SECTION 5. REGULAR MEETINGS. Regulation meetings of the Board of Directors may be held at such times and places within or without the State of Ohio as may be provided for in bylaws or resolutions adopted by the Board of Directors and upon such notice, if any, as may be so provided. Unless otherwise indicated in the notice of a regular meeting, any business may be transacted at that regular meeting.

SECTION 6. SPECIAL MEETINGS. Special Meetings of the Board of Directors may be held at any time within or without the State of Ohio (or through use of telephone or other communications equipment if all the directors participating in the meeting can hear each other) upon call by the Chairman of the Board, by the President, by a Vice President, or by any two directors. Written notice of the time and place of each special meeting shall be given to each director either by personal delivery or by mail, telegram, or cablegram at least two days before the meeting, which notice need not specify the purposes of the meeting. Attendance of any director at a special meeting (or participation in the meeting through use of telephone or other communications equipment) without protesting, prior to or at the commencement of the meeting, the lack of proper notice shall be deemed to be a waiver by him of notice of the meeting, and notice of a special meeting may be waived in writing, either before or after the holding of the meeting, by any director, which writing shall be filed with or entered upon the records of the meeting. Unless otherwise indicated in the notice of a special meeting, any business may be transacted at that meeting.

SECTION 7. QUORUM; ADJOURNMENT. A quorum of the Board of Directors shall consist of a majority of the directors then in office; provided, that a majority of the directors present at a meeting duly held, whether or not a quorum is present, may adjourn the meeting from time to time. If any meeting is adjourned, notice of the adjournment need not be given if the time and place to which the meeting is adjourned are fixed and announced at the meeting. At each meeting of the Board of Directors at which a quorum is present, all questions and business shall be determined by a majority vote of those present, except as otherwise expressly provided in these Regulations.

SECTION 8. ACTION WITHOUT A MEETING. Any action which may be authorized or taken at a meeting of the Board of Directors may be authorized or taken without a meeting with the affirmative vote or approval of, and in a writing or writings signed by, all of the directors, which writing or writings shall be filed with or entered upon the records of the Company.

SECTION 9. COMMITTEES. The Board of Directors may at any time appoint from its members an Executive, Finance, or other committee or committees, consisting of such number of members, not less than three, as the Board of Directors may deem advisable together with such alternates as the Board of Directors may deem advisable to take the place of any absent member or members at any meeting of the committee. Each member and each alternative shall hold office during the pleasure of the Board of Directors. Any committee shall act only in the intervals between meetings of the Board of Directors and shall have such authority of the Board of Directors as

may, from time to time, be delegated to it by the Board of Directors, except the authority to fill vacancies in the Board of Directors or in any committee of the Board of Directors. Subject to these exceptions, any person dealing with the Company shall be entitled to rely upon any act or authorization of an act by any committee to the same extent as an act or authorization of the Board of Directors. Each committee shall keep full and complete records of all meetings and actions, which shall be open to inspection by the directors. Unless otherwise ordered by the Board of Directors, any committee may prescribe its own rules for calling and holding meetings and for its own method of procedure and may act at a meeting by a majority of its members or without a meeting by a writing or writings signed by all of its members.

ARTICLE III

OFFICERS

SECTION 1. ELECTION AND DESIGNATION OF OFFICERS. The Board of Directors shall elect a President, a Secretary, a Treasurer, and, in its discretion, elect may a Chairman of the Board, one or more Vice Presidents, one or more Assistant Secretaries, one or more Assistant Treasurers, and such other officers as it deems necessary. The Chairman of the Board and the President shall be directors, but none of the other officers need be a director. Any two or more offices may be held by the same person, but no officer shall execute, acknowledge, or verify any instrument in a more than one capacity if the instrument is required to be executed, acknowledged, or verified by two or more officers.

SECTION 2. TERM OF OFFICE; VACANCIES. Each officer of the Company shall hold office until the next organizational meeting of the Board of Directors and until his successor is elected or until his earlier resignation, removal from office, or death. The Board of Directors may remove any officer at any time with or without cause by a majority vote of the directors then in office. Any vacancy in any office may be filled by the Board of Directors.

SECTION 3. CHAIRMAN OF THE BOARD. The Chairman of the Board, if any, shall preside at all meetings of the Board of Directors, shall, unless that duty has been delegated by the Board of Directors to the President or another officer, preside at all meetings of the shareholders, and shall have such authority and shall perform such other duties as may be determined by the Board of Directors.

SECTION 4. PRESIDENT. The President shall preside at all meetings of the shareholders and at all meetings of the Board of Directors, except for meetings at which the Chairman of the Board, if any, presides in accordance with the preceding Section. Subject to directions of the Board of Directors and to the delegation by the Board of Directors to the Chairman of the Board of specific or general executive supervision, the President shall have general executive supervision over the property, business, and affairs of the Company. He may execute all authorized deeds, mortgages, bonds, contracts, and other obligations in the name of the Company and shall have such other authority and shall perform such other duties as may be determined by the Board of Directors.

SECTION 5. VICE PRESIDENT. Each Vice President shall have such authority and perform such duties as may be determined by the Board of Directors.

SECTION 6. SECRETARY. The Secretary shall keep the minutes of meetings of the shareholders and of the Board of Directors. He shall keep such books as may be required by the Board of Directors, shall give notices of meetings of the shareholders and of the Board of Directors required by law, by these Regulations, or otherwise, and shall have such authority and shall perform such other duties as may be determined by the Board of Directors.

SECTION 7. TREASURER. The Treasurer shall receive and have in charge all money, bills, notes, bonds, stocks in other corporations, and similar property belonging to the Company, and shall deal with this property as may be ordered by the Board of Directors. He shall keep accurate financial accounts and hold them open for inspection and examination by the directors and shall have such authority and shall perform such other duties as may be determined by the Board of Directors.

SECTION 8. OTHER OFFICERS. The Assistant Secretaries, Assistant Treasurers, and other officers, if any, whom the Board of Directors may elect shall each have such authority and perform such duties as may be determined by the Board of Directors.

SECTION 9. DELEGATION OF AUTHORITY AND DUTIES. The Board of Directors is authorized to delegate the authority and duties of any officer to any other officer and generally to control the action of the officers and to require the performance of duties in addition to those mentioned in these Regulations.

ARTICLE IV

COMPENSATION

SECTION 1. DIRECTORS AND MEMBERS OF COMMITTEES. Members of the Board of Directors and members of any committee of the Board of Directors shall, as such, receive such compensation, which may be either a fixed sum for attendance at each meeting of the Board of Directors or of the committee or may be stated compensation payable at intervals, or may otherwise be compensated as determined by or pursuant to authority conferred by the Board of Directors or any committee of the Board of Directors, which compensation may be in different amounts for various members of the Board of Directors or of any committee. No member of the Board of Directors shall be disqualified from being counted in the determination of a quorum or from acting at any meeting of the Board of Directors or of a committee by reason of the fact that matters affecting his own compensation as a director, member of a committee, officer, or employee are to be determined.

SECTION 2. OFFICERS AND EMPLOYEES. The compensation of officers and employees of the Company, or the method of fixing their compensation, shall be determined by or pursuant to authority conferred by the Board of Directors or any committee of the Board of Directors. Compensation may include pension, disability, and death benefits and may be by way of fixed salary, on the basis of earnings, any combination thereof, or otherwise, as may be determined or authorized from time to time by the Board of Directors or any committee of the Board of Directors.

ARTICLE V

INDEMNIFICATION OF DIRECTORS,

OFFICERS, AND EMPLOYEES

The Company shall indemnify, to the full extent permitted or authorized by the Ohio General Corporation Law as it may from time to time be amended, any person made or threatened to be made a party to

any threatened, pending, or completed action, suit, or proceeding, whether civil, criminal, administrative, or investigative, by reason of the fact that he is or was a director, officer, or employee of the Company, or is or was serving at the request of the Company as a director, trustee, officer, employee, or agent of another corporation, domestic or foreign, nonprofit or for profit, partnership, joint venture, trust or other enterprise. The Company shall pay, to the full extent permitted or authorized by the Ohio General Corporation Law, expenses, including attorneys' fees, as they are incurred by any director or officer in defending any such action, suit, or proceeding. The indemnification and advancement of expenses provided by this Article V shall not be deemed exclusive of any other rights to which any person seeking indemnification may be entitled under the articles of incorporation or the regulations, or any agreement, vote of shareholders or disinterested directors, or otherwise, both as to action in his official capacity and as to action in another

capacity while holding such office, and shall continue as to a person who has ceased to be a director, officer, or employee and shall inure to the benefit of the heirs, executors, and administrators of that person.

ARTICLE VI

RECORD DATES

For any lawful purpose, including, without limitation, the determination of the shareholders who are entitled to receive notice of or to vote at a meeting of shareholders, the Board of Directors may fix a record date in accordance with the provisions of the Ohio General Corporation Law. The record date for the purpose of the determination of the shareholders who are entitled to receive notice of or to vote at a meeting of shareholders shall continue to be the record date for all adjournments of the meeting, unless the Board of Directors or the persons who have fixed the original record date shall, subject to the limitations set forth in the Ohio General Corporation Law, fix another date and cause notice thereof and of the date to which the meeting has been adjourned to be given to shareholders of record as of the newly fixed date in accordance with the same requirements as those applying to a meeting newly called. The Board of Directors may close the share transfer books against transfers of shares during the whole or any part of the period provided for in this Article, including the date of the meeting of shareholders and the period ending with the date, if any, to which it is adjourned. If no record date is fixed therefor, the record date for determining the shareholders who are entitled to receive notice of or to vote at a meeting of shareholders shall be the date next preceding the day on which notice is given, or the date next preceding the day on which the meeting is held, as the case may be.

ARTICLE VII

CERTIFICATES FOR SHARES

SECTION 1. FORM OF CERTIFICATES AND SIGNATURES. Each holder of shares shall be entitled to one or more certificates signed by the Chairman of the Board, the President, or a Vice President and by the Secretary, an Assistant Secretary, the Treasurer, or an Assistant Treasurer of the Company and certifying the number and class of shares held by him, but no certificate for shares shall be executed or delivered until the shares are fully paid. When a certificate is countersigned by an incorporated transfer agent or registrar, the signature of any officer of the Company may be facsimile, engraved, stamped, or printed. Although any officer of the Company whose manual or facsimile signature is affixed to a certificate cease to be that officer before the certificate is delivered, the certificate nevertheless shall be effective in all respects when delivered.

SECTION 2. TRANSFER OF SHARES. Shares of the Company shall be transferrable upon the books of the Company by the holders thereof, in person or by a duly authorized attorney, upon surrender and cancellation of certificates for a like number of shares of the same class or series, with duly executed assignment and power of transfer endorsed thereon or attached thereto, and with such proof of the authenticity of the signatures to the assignment and power of transfer as the Company or its agents may reasonably require.

SECTION 3. LOST, STOLEN, OR DESTROYED CERTIFICATES. The Company may issue a new certificate for shares in place of any certificate theretofore issued by it and alleged to have been lost, stolen, or destroyed, and the Board of Directors may, in its discretion, require the owner, or his legal representatives, to give the Company a bond containing such terms as the Board of Directors may require to protect the Company or any person injured by the execution and delivery of the new certificate.

SECTION 4. TRANSFER AGENT AND REGISTRAR. The Board of Directors may appoint, or revoke the appointment of, transfer agents and registrars and may require all certificates for shares to bear the signatures of the transfer agents and registrars, or any of them.

ARTICLE VIII

CORPORATE SEAL

The Ohio General Corporation Law provides that the absence of a corporate seal from any instrument executed on behalf of the Company does not affect the validity of the instrument. If, in spite of that provision, a seal is imprinted on or attached, applied, or affixed to an instrument by embossment, engraving, stamping, printing, typing, adhesion,

or other means, the impression of the seal on the instrument shall be circular in form and shall contain the name of the Company and the words "corporate seal".

ARTICLE IX

AMENDMENTS

Except as otherwise provided by law or by the Articles of Incorporation or these Regulations, these Regulations may be amended, or new Regulations may be adopted, either (i) by the shareholders at a meeting held for that purpose by the affirmative vote of the holders of shares entitling them to exercise a majority of the voting power on that proposal or without a meeting by the written consent of the holders of shares entitling them to exercise a majority of the voting power on that proposal or (ii) by the Board of Directors to the extent permitted by Chapter 1701 of the Ohio Revised Code in effect from time to time; except that, unless the amendment is approved and recommended by the Board of Directors, the provisions of Section 1 of Article II and this Article IX may not be amended without the affirmative vote or written consent of the holders of shares entitling them to exercise 80% of the voting power of the Company. If the Regulations are amended or new Regulations are adopted without a meeting of the shareholders, the Secretary of the Company shall mail a copy of the amendment or the new Regulations to each shareholder who would have been entitled to vote thereon and did not participate in the adoption thereof.

Exhibit 10-u

NOTICE OF STOCK OPTION AWARD NORDSON CORPORATION 2021 STOCK INCENTIVE AND AWARD PLAN

Grantee: _____

Date of Grant: _____

Number of Shares: _____ Shares

Exercise Price: \$ _____ per Share

Vesting Date(s): First, second, third and fourth anniversaries of the Date of Grant

Expiration Date: The tenth anniversary of the Date of Grant

Form of Grant: Nonqualified stock option

TERMS OF GRANT

1. Grant of Stock Option. On the Date of Grant set forth above, Nordson Corporation, an Ohio Corporation (the "Company"), grants to you, the individual named as Grantee above, in accordance with the terms and conditions of the Nordson Corporation 2021 Stock Incentive and Award Plan (the "Plan") and this Notice of Stock Option Award (the "Notice"), the option to purchase the number Shares set forth above (the "Option"). Please note that you must accept the Award set forth in this Notice online in accordance with the procedures established by the Company and the Plan's third-party administrator or this Notice may be cancelled by the Company, in its sole discretion. The terms and conditions of the Plan and this Notice constitute a legal contract that will bind both Grantee and the Company as soon as Grantee accepts the Award.

2. Vesting and Forfeiture of Option.

(a) The Option shall become vested and exercisable as to one-fourth of the Shares (subject to such rounding conventions as maintained by the Company from time to time) on each of the Vesting Dates set forth above (each, a "Vesting Date"), provided that Grantee shall have remained in the continuous employment of the Company or a Subsidiary ("Continuous Service") through the applicable Vesting Date.

(b) Notwithstanding Section 2(a):

(i) Upon the occurrence of a Change in Control prior to a Vesting Date and during Grantee's Continuous Service, the vesting and exercisability of the Option will be governed by the applicable provisions of Section 21 of the Plan.

(ii) In the event of the termination of Grantee's Continuous Service prior to a Vesting Date as a result of Grantee's death or "Disability" (defined as a physical or mental impairment, due to accident or illness that renders Grantee incapable of performing the duties of Grantee's normal occupation, as determined by the Committee (or its delegate); provided that the Committee (or its delegate) may, in its discretion, require that the existence of Disability be verified by a physician approved by the Committee (or its delegate)), any outstanding unvested portion of the Option shall automatically become vested and exercisable in full and shall remain exercisable until midnight on the Expiration Date.

(iii) In the event of the termination of Grantee's Continuous Service at least 12 months after the Date of Grant as a result of Grantee's "Retirement" (defined as Grantee's voluntary termination of employment at or after age 65 and with no less than 5 years of service as determined by the Company), any outstanding unvested portion of the Option shall continue to vest and become exercisable

on the remaining originally scheduled Vesting Dates and shall remain exercisable until midnight on the Expiration Date.

(iv) In the event of the termination of Grantee's Continuous Service at least 12 months after the Date of Grant as a result of Grantee's "Early Retirement" (defined as Grantee's voluntary termination of employment no earlier than age 60 but before age 65 and with no less than 10 years of service as determined by the Company, provided that Grantee has notified the Company in writing not less than 120 days in advance of the effective date of such termination of Grantee's employment), any outstanding unvested portion of the Option shall continue to vest and become exercisable on the remaining originally scheduled Vesting Dates and shall remain exercisable until the earlier of (A) the fifth anniversary of the date of Early Retirement or (B) midnight on the Expiration Date.

(v) In the event of the termination of Grantee's Continuous Service by the Company or a Subsidiary as a result of Grantee's violation of the Company's Code of Ethics and Business Conduct, the Option, whether vested or not, will be forfeited automatically without further action or notice on Grantee's termination date.

(vi) In the event of the termination of Grantee's Continuous Service for any other reason prior to a Vesting Date, any unvested portion of the Option will be forfeited automatically without further action or notice on Grantee's termination date, and any vested portion of the Option remain exercisable until the earlier of (A) 90 days after Grantee's termination date, or (B) midnight on the Expiration Date.

(c) To the extent not previously vested pursuant to Section 2(a), the Option shall be forfeited automatically without further action or notice if Grantee's Continuous Service with the Company or a Subsidiary terminates prior to a Vesting Date for any reason other than as provided pursuant to Section 2(b).

(d) The Option and any Shares acquired pursuant to this Notice are subject to forfeiture or repayment pursuant the Company's Clawback Policy (or any successor compensation recovery policy), as in effect from time to time (the "Clawback Policy"), to the extent applicable.

(e) Further, the Option and any Shares acquired pursuant to this Notice are subject to forfeiture or repayment due to Harmful Activity in accordance with the provisions of this Section 3(e).

(i) If Grantee engages in any Harmful Activity (as defined below) prior to or within one year after termination of employment with the Company, then (A) any portion of the Option held by Grantee that has vested, (B) any Profits (as defined below) realized by Grantee or any transferee of Grantee upon the exercise of the Option (as defined below), and (C) any Profits realized upon the sale of any vested Shares acquired pursuant to the Option, which Profits are realized on or after one year prior to the date of termination of employment with the Company shall inure to the Company. This restriction shall not apply in the event that Grantee's employment with the Company is terminated under the provisions of any employment agreement between the Company and Grantee that becomes operative upon a Change in Control of the Company. If any vested Option, Shares or any Profits inure to the benefit of the Company in accordance with the first sentence of this paragraph, Grantee shall immediately forfeit such vested Option and shall provide all such forfeited Shares and pay all such Profits to the Company within 30 days after first engaging in any Harmful Activity, and any portion of the Option that has not yet vested shall immediately be forfeited and canceled. The Determination as to whether Grantee engaged in Harmful Activity prior to or within one year after termination of employment with the Company shall be at the Committee's discretion and such determination shall be final and conclusive.

(ii) For purposes of Section 3(e), "Harmful Activity" shall be deemed to have occurred if Grantee:

(A) Uses, publishes, sells, trades, or otherwise discloses Non-Public Information (defined below) of the Company unless such prohibited activity was inadvertent, done in good faith and did not cause significant harm to the Company;

(B) After written notice from the Company, fails to return to the Company any document, data, or thing in Grantee's possession or to which Grantee has access that may involve Non-Public Information of the Company;

(C) After notice from the Company, fails to assign to the Company all right, title, and interest in and to any confidential or non-confidential Intellectual Property (defined below) which Grantee created, in whole or in part, during employment with the Company, including, without limitation, copyrights, trademarks, service marks, and patents in or to (or associated with) such Intellectual Property;

(D) After notice from the Company, fails to agree to do any acts and sign any document reasonably requested by the Company to assign and convey all right, title, and interest in and to any confidential or non-confidential Intellectual Property which Grantee created, in whole or in part, during employment with the Company, including, without limitation, the signing of patent applications and assignments thereof;

(E) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, solicits or entices for employment or hire any employee of the Company;

(F) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, calls upon, solicits, or does business with (other than business which does not compete with any business conducted by the Company) any customer of the Company that Grantee called upon, solicited, interacted with, or became acquainted with, or learned of through access to information (whether or not such information is or was non-public) while employed at the Company unless such prohibited activity was inadvertent, done in good faith, and did not involve a customer whom Grantee should have reasonably known was a customer of the Company;

(G) Upon Grantee's own behalf or upon the behalf of any other person or entity that competes or plans to compete with the Company, engages in any business activity in competition with the Company in the same or a closely related activity that Grantee was engaged in for the Company during the one-year period prior to the termination of employment;

(H) Engages in behavior that violates any non-competition provision of an agreement between Grantee and the Company; or

(I) Engages in behavior that violates the Company's Code of Ethics and Business Conduct.

(iii) For purposes of Section 3(e), "Intellectual Property" means any invention, idea, product, method of doing business, market or business plan, process, program, software, formula, method, work of authorship, or other information, or thing.

(iv) For purposes of Section 3(e), "Non-Public Information" means, but is not limited to, trade secrets, confidential processes, programs, software, formulas, methods, business information or plans, financial information, and listings of names (e.g., key employees, customers, and suppliers) that are developed, owned, utilized, or maintained by an employer such as the Company, and that of its customers or suppliers, and that are not generally known by the public.

(v) For purposes of Section 3(e), "Profits" means the Fair Market Value on the date of Grantee's sale of any Shares that were delivered to Grantee pursuant to this Notice.

(vi) For purposes of Section 3(e), "Company" includes the Company and its Subsidiaries.

3. Exercise of Option and Delivery of Shares.

(a) To the extent that the Option becomes vested and exercisable, it may be exercised in whole or in part from time to time by written notice to the Company or its designee stating the number of Shares for which the Option is being exercised, the intended manner of payment to cover the Exercise Price per Share, taxes or any brokerage fees or commissions, and such other provisions as may be required by the Company or its designee. The vested Option may be exercised prior to its Expiration Date (or such earlier date as the Option may expire in accordance with Section 2 or Section 4 hereof), during the lifetime of Grantee, only by Grantee, or in the event of his legal incapacity, by his guardian or legal representative acting on behalf of Grantee in a fiduciary capacity under state law and court supervision. If Grantee dies before the expiration of the Option, all or part of the Option may be exercised (prior to expiration) by the personal representative of Grantee or by any person who has acquired the Option directly from Grantee by will, bequest, or inheritance but only to the extent that the Option was vested and exercisable upon Grantee's death.

(b) If, on the Expiration Date, (or if the Expiration Date is not a business day, the next preceding day in which the applicable securities exchange is open), any portion of the Option is vested and exercisable and the Fair Market Value per Share on such date is greater than the Exercise Price per Share, then such vested and exercisable portion of the Option shall be automatically exercised on such date without any further action by the Grantee (or the person or persons to whom the Option is transferred pursuant to a permitted transfer under Section 5), with the Exercise Price being paid by such method as determined by the Company.

(c) The exercise price and taxes due as a consequence of the exercise of the Option are payable (i) in cash or by certified or cashier's check or other cash equivalent acceptable to the Company payable to the order of the Company, (ii) by surrender of vested Shares (including by attestation) owned by Grantee having an aggregate Fair Market Value at the time of exercise equal to the total exercise price, (iii) by a reduction in the number of Shares to be received upon exercise of the Option, or (iv) by a combination of the foregoing methods.

(d) Subject to the terms and conditions contained herein, Shares shall be delivered to Grantee as soon as administratively practicable following the date that Grantee (i) exercises the Option in accordance with the procedures outlined above, (ii) makes full payment to the Company or its designee of the Exercise Price and (iii) makes arrangements satisfactory to the Company (or any Subsidiary, if applicable) for the payment of any required withholding taxes or brokerage fees/commissions related to the exercise of the Option. Grantee shall not possess any incidents of ownership (including, without limitation, dividend and voting rights) in the Shares until such Shares have been delivered to Grantee.

4. Term of Option. Grantee may exercise the Option, to the extent vested, only during the term of the Option, which commences on the Date of Grant and, except as otherwise provided pursuant to Section 21 of the Plan in connection with a Change in Control, expires at midnight on the Expiration Date, or if earlier:

(a) On the date provided pursuant to Section 2(b)(i) through (vi) hereof, as applicable;

(b) In the event of the involuntary termination of Grantee's Continuous Service by the Company or a Subsidiary (other than on account of Grantee's death, disability or violation of the Company's Code of Ethics and Business Conduct), on the earlier of (i) 90 days after the date of termination, and (ii) midnight on the Expiration Date;

(c) In the event of the voluntary termination of Grantee's Continuous Service by Grantee for any reason other than Retirement or Early Retirement, on the earlier of (i) 90 days after the date of termination, and (ii) midnight on the Expiration Date; or

(d) In the event of the involuntary termination of Grantee's Continuous Service by the Company or a Subsidiary due to a violation of the Company's Code of Ethics and Business Conduct, immediately upon the termination date.

5. Transferability.

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(a) The Option shall be transferable in accordance with this Section 5 and to the extent so transferred, may be exercised by the transferee; provided, however, that (i) the Option shall only be transferable to Family Members, trusts with third party trustees and for the sole benefit of Family Member beneficiaries, partnerships whose only partners are Family Members, and organizations exempt from income tax under §501(c)(3) of the Code (provided, in this latter case, that all transferred Options must be vested); (ii) any such transfer must be without consideration (except when required by court order); (iii) once transferred, the Option may not be further transferred by the transferee, except (a) by will or the laws of descent and distribution or (b) for a transfer by a trust or a partnership to a trust beneficiary or a partner, respectively; and (iv) the Company receives a copy of the document deemed necessary by the Committee establishing the validity of the transfer and requiring the transferee to accept and comply with the terms and conditions of the Option, the Plan and any related Committee rules.

(b) For purposes of this Section 5, "Family Members" shall include children, stepchildren, grandchildren, parents, stepparents, grandparents, spouses, siblings, mothers-in-law, fathers-in-law, sons-in-law, daughters-in-law, brothers-in-law, sisters-in-law, nieces, or nephews, including adoptive relationships.

(c) In the event the Option has been transferred, Grantee will be obligated to pay, on the date of exercise, all taxes associated with the exercise of the Option. If Grantee fails to so pay all taxes associated with the exercise, such taxes will be paid by reducing the number of Shares to be received upon exercise.

6. **Tax Withholding.** To the extent the Company or any Subsidiary is required to withhold any federal, state, local, foreign or other taxes in connection with the exercise of the Option, then the Company or Subsidiary (as applicable) shall retain a number of Shares otherwise deliverable hereunder with a value equal to the required withholding (based on the fair market value of the Shares on the applicable date); provided that in no event shall the value of the Shares retained exceed the amount of taxes required to be withheld based on the maximum statutory tax rates in the applicable taxing jurisdictions. Notwithstanding the foregoing, Grantee may elect, in accordance with procedures adopted by the Company from time to time, to either (a) pay or provide for payment of the required tax withholding, or (b) have the required tax withholding deducted from any amount of salary, bonus, incentive compensation or other amounts otherwise payable in cash to Grantee; provided that the Company may require the use of one or both of these methods in the event that the Company or any Subsidiary is required to withhold taxes at any time other than upon delivery of the Shares.

7. **Relation to Other Benefits.** Any economic or other benefit to Grantee under this Notice or the Plan shall not be taken into account in determining any benefits to which Grantee may be entitled under any profit-sharing, retirement or other benefit or compensation plan maintained by the Company or a Subsidiary.

8. **Severability.** In the event that one or more of the provisions of this Notice shall be invalidated for any reason by a court of competent jurisdiction, any provision so invalidated shall be deemed to be separable from the other provisions hereof, and the remaining provisions hereof shall continue to be valid and fully enforceable.

9. **Entire Agreement; Relation to Plan.** This Notice is subject to the terms and conditions of the Plan. This Notice and the Plan contain the entire agreement and understanding of the parties with respect to the subject matter contained in this Notice, and supersede all prior written or oral communications, representations, and negotiations in respect thereto. In the event of any inconsistency between the provisions of this Notice and the Plan, the Plan shall govern. Capitalized terms used in this Notice without definition shall have the meanings assigned to them in the Plan.

10. **Adjustments.** The number and kind of Shares subject to the Option are subject to adjustment as provided in Section 16 of the Plan.

11. **Compliance with Law.** The Company shall make reasonable efforts to comply with all applicable federal and state securities laws and listing requirements with respect to delivery of Shares pursuant to the Option; provided, however, notwithstanding any other provision of this Notice, the

Company shall not be obligated to deliver any Shares pursuant to this Notice if the delivery or vesting thereof would result in a violation of any such law or listing requirement.

12. **Successors and Assigns.** Without limiting Section 5, the provisions of this Notice shall inure to the benefit of, and be binding upon, the permitted successors, administrators, heirs, legal representatives and assigns of Grantee, and the successors and assigns of the Company.

13. **Data Privacy.** In order to administer the Plan, the Company may process personal data about Grantee. Such data includes, but is not limited to, the information provided in this Notice and any changes thereto, other appropriate personal and financial data about Grantee such as home address and business addresses and other contact information, and any other information that might be deemed appropriate by the Company to facilitate the administration of the Plan. Grantee hereby gives explicit consent to the Company to process any such personal data. Grantee also gives explicit consent to the Company to transfer any such personal data outside the country in which Grantee works or is employed, including, if Grantee is not a U.S. resident, to the United States, to transferees that shall include the Company and other persons who are designated by the Company to administer the Plan.

14. **Electronic Delivery.** Grantee hereby consents and agrees to electronic delivery of any documents that the Company may elect to deliver (including, but not limited to, the Plan document, Plan Summary and Prospectus, grant or award notifications, account statements, annual and quarterly reports, and all other forms of communications) in connection with this and any other award made or offered under the Plan. Grantee has the right at any time to request that the Company deliver written copies of any and all materials referred to above at no charge. Grantee also hereby consents to any and all procedures the Company has established or may establish for an electronic signature system for delivery and acceptance of any such documents that the Company may elect to deliver and agrees that Grantee's electronic response or signature is the same as, and shall have the same force and effect as, Grantee's manual signature.

15. **Amendment.** Subject to the terms of the Plan, the Committee may modify this Notice upon written notice to Grantee. Any amendment to the Plan shall be deemed to be an amendment to this Notice to the extent that the amendment is applicable hereto. Notwithstanding the foregoing, no amendment of the Plan or this

Notice shall adversely affect Grantee's rights under this Notice without Grantee's consent unless the Committee determines, in good faith, that such amendment is required for the Notice to either be exempt from the application of, or comply with, the requirements of Section 409A of the Code, or as otherwise may be provided in the Plan.

16. No Employment Contract. Nothing contained in this Notice shall confer upon Grantee any right with respect to continuance of employment by the Company and its subsidiaries, nor limit or affect in any manner the right of the Company and its subsidiaries to terminate Grantee's employment or adjust Grantee's compensation.

17. Governing Law. The interpretation, performance, and enforcement of this Notice shall be governed by the laws of the State of Ohio, without giving effect to the principles of conflict of laws thereof.

18. Terms for Awards to Grantees Outside the United States. If Grantee is a foreign national, or is subject to Applicable Laws of one or more non-United States jurisdictions, then Grantee's Award may be subject to such terms and conditions different from those specified in this Notice, and set out in an appendix to this Notice, as may in the judgment of the Committee be necessary or desirable to foster and promote achievement of the purposes of the Plan.

**NOTICE OF RESTRICTED SHARE UNIT AWARD
NORDSON CORPORATION
2021 STOCK INCENTIVE AND AWARD PLAN**

Grantee: _____

Date of Grant: _____

Number of Restricted Share Units: _____ Units

Vesting Dates: First, second and third anniversaries of the Date of Grant

TERMS OF GRANT

1. Grant of Restricted Share Units. Nordson Corporation, an Ohio corporation (the "Company"), grants to you, the individual named as Grantee above, in accordance with the terms and conditions of the Nordson Corporation 2021 Stock Incentive and Award Plan (the "Plan") and this Notice of Restricted Share Unit Award (the "Notice"), the number of restricted share units set forth above (the "Restricted Share Units"), on the Date of Grant set forth above. Each Restricted Share Unit represents the contingent right to receive one Share, subject to the terms and conditions of this Notice and the Plan. Please note that you must accept the Award set forth in this Notice online in accordance with the procedures established by the Company and the Plan's third-party administrator or this Notice may be cancelled by the Company, in its sole discretion. The terms and conditions of the Plan and this Notice constitute a legal contract that will bind both Grantee and the Company as soon as Grantee accepts the Award.

2. Vesting of Restricted Share Units.

(a) One-third of the Restricted Share Units (subject to such rounding conventions as maintained by the Company from time to time) shall vest on each of the Vesting Dates set forth above (each, a "Vesting Date"), provided that Grantee shall have remained in the continuous employment of the Company or a Subsidiary ("Continuous Service") through the applicable Vesting Date.

(b) Notwithstanding Section 2(a):

(i) Upon the occurrence of a Change in Control prior to a Vesting Date and during Grantee's Continuous Service, the vesting of the Restricted Share Units will be governed by the applicable provisions of Section 21 of the Plan.

(ii) In the event of the termination of Grantee's Continuous Service as a result of Grantee's death or "Disability" (defined as a physical or mental impairment, due to accident or illness that renders Grantee incapable of performing the duties of Grantee's normal occupation, as determined by the Committee (or its delegate); provided that the Committee (or its delegate) may, in its discretion, require that the existence of Disability be verified by a physician approved by the Committee (or its delegate)), any unvested Restricted Share Units shall become vested in full on Grantee's termination date.

(iii) In the event of the termination of Grantee's Continuous Service at least 12 months after the Date of Grant as a result of Grantee's "Retirement" (defined as Grantee's voluntary termination of employment at or after age 65 and with no less than 5 years of service as determined by the Company), any unvested Restricted Share Units shall become vested in full on Grantee's termination date, subject to the consent of the Committee (or its delegate).

(iv) In the event of the termination of Grantee's Continuous Service at least 12 months after the Date of Grant as a result of Grantee's "Early Retirement" (defined as Grantee's voluntary termination of employment no earlier than age 60 but before age 65 and with no less than 10 years of service as determined by the Company, provided that Grantee has notified the Company in writing not less than 120 days in advance of the effective date of such termination of Grantee's employment), Grantee shall vest in a pro-rated number of Restricted Share Units (rounded to the nearest whole number) equal to (A) the total number of Restricted Share Units, multiplied by (B) a fraction, the

numerator of which is the number of full months that have elapsed since the Date of Grant and the denominator of which is the number of full months of the full restricted period; provided that the Committee may, in its discretion, waive the forfeiture of any or all remaining unvested Restricted Share Units.

(v) In the event of the termination of Grantee's Continuous Service by the Company or a Subsidiary as a result of Grantee's violation of the Company's Code of Ethics and Business Conduct, all outstanding unvested Restricted Share Units will be forfeited automatically without further action or notice on Grantee's termination date.

(vi) The Committee may, in its sole discretion, provide for the vesting of all or a portion of the Restricted Share Units in connection with the termination of Grantee's Continuous Service for any other reason prior to a Vesting Date.

(c) The Restricted Share Units and any Shares delivered pursuant to this Notice are subject to forfeiture or repayment pursuant the Company's Clawback Policy (or any successor compensation recovery policy), as in effect from time to time (the "Clawback Policy"), to the extent applicable.

(d) Further, the Restricted Share Units and any Shares delivered pursuant to this Notice are subject to forfeiture or repayment due to Harmful Activity in accordance with the provisions of this Section 2(d).

(i) If Grantee engages in any Harmful Activity (as defined below) prior to or within one year after termination of employment with the Company, then (a) any vested Restricted Share Units, and (b) any Profits (as defined below) from the sale of any Shares that were delivered pursuant to this Notice, which Profits are realized on or after one year prior to the date of termination of Grantee's employment with the Company, shall inure to the Company. This restriction shall not apply in the event that Grantee's employment with the Company is terminated under the provisions of any employment agreement between the Company and Grantee that becomes operative upon a Change in Control of the Company. If any vested Restricted Share Units or any Profits inure to the benefit of the Company in accordance with the first sentence of this paragraph, Grantee shall immediately forfeit such vested Restricted Share Units and shall provide all such forfeited Shares and pay all such Profits to the Company within 30 days after first engaging in any Harmful Activity, and all Restricted Share Units that have not yet vested shall immediately be forfeited and canceled. The Determination as to whether Grantee engaged in Harmful Activity prior to or within one year after termination of employment with the Company shall be at the Committee's discretion and such determination shall be final and conclusive.

(ii) For purposes of Section 2(d), "Harmful Activity" shall be deemed to have occurred if Grantee:

(A) Uses, publishes, sells, trades or otherwise discloses Non-Public Information (defined below) of the Company unless such prohibited activity was inadvertent, done in good faith and did not cause significant harm to the Company;

(B) After written notice from the Company, fails to return to the Company any document, data, or thing in Grantee's possession or to which Grantee has access that may involve Non-Public Information of the Company;

(C) After notice from the Company, fails to assign to the Company all right, title, and interest in and to any confidential or non-confidential Intellectual Property (defined below) which Grantee created, in whole or in part, during employment with the Company, including, without limitation, copyrights, trademarks, service marks, and patents in or to (or associated with) such Intellectual Property;

(D) After notice from the Company, fails to agree to do any acts and sign any document reasonably requested by the Company to assign and convey all right, title, and interest in and to any confidential or non-confidential Intellectual Property which Grantee created, in whole or in

part, during employment with the Company, including, without limitation, the signing of patent applications and assignments thereof;

(E) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, solicits or entices for employment or hire any employee of the Company;

(F) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, calls upon, solicits, or does business with (other than business which does not compete with any business conducted by the Company) any customer of the Company that Grantee called upon, solicited, interacted with, or became acquainted with, or learned of through access to information (whether or not such information is or was non-public) while employed at the Company unless such prohibited activity was inadvertent, done in good faith, and did not involve a customer whom Grantee should have reasonably known was a customer of the Company;

(G) Upon Grantee's own behalf or upon the behalf of any other person or entity that competes or plans to compete with the Company, engages in any business activity in competition with the Company in the same or a closely related activity that Grantee was engaged in for the Company during the one-year period prior to the termination of employment;

(H) Engages in behavior that violates any non-competition provision of an agreement between Grantee and the Company; or

(I) Engages in behavior that violates the Company's Code of Ethics and Business Conduct.

(iii) For purposes of Section 2(d), "Intellectual Property" means any invention, idea, product, method of doing business, market or business plan, process, program, software, formula, method, work of authorship, or other information, or thing.

(iv) For purposes of Section 2(d), "Non-Public Information" means, but is not limited to, trade secrets, confidential processes, programs, software, formulas, methods, business information or plans, financial information, and listings of names (e.g., key employees, customers, and suppliers) that are developed, owned, utilized, or maintained by an employer such as the Company, and that of its customers or suppliers, and that are not generally known by the public.

(v) For purposes of Section 2(d), "Profits" means the fair market value on the date of Grantee's sale of any Shares that were delivered to Grantee pursuant to this Notice.

(vi) For purposes of Section 2(d), "Company" includes the Company and its Subsidiaries.

3. **Payment of Vested Restricted Share Units.** The Company will deliver to Grantee the Shares underlying any vested Restricted Share Units (and pay to Grantee in cash any vested dividend equivalent amounts pursuant to Section 4 below) within 30 days after the date that such Restricted Share Units become vested. Notwithstanding the foregoing, to the extent that Grantee's Restricted Share Units constitute a "deferral of compensation" payable upon Grantee's "separation from service" and Grantee is a "specified employee" (within the meaning of Section 409A of the Code) at the time of such separation from service, payment of any vested Restricted Share Units shall be made, to the extent required by Section 409A of the Code, at least six months after Grantee's separation from service. Further, to the extent that Grantee's Restricted Share Units constitute a "deferral of compensation" within the meaning of Section 409A of the Code, payment of any vested Restricted Share Units pursuant to Section 21 of the Plan (relating to a Change in Control) shall be made within 60 days following the earlier of (i) the occurrence of a "change in the ownership," a "change in the effective control," or a "change in the ownership of a substantial portion of the assets" of the Company within the meaning of Section 409A of the Code; or (ii) Grantee's "separation from service" within the meaning of Section 409A of the Code; provided that payment to a "specified employee" within the meaning of Section 409A of the Code shall be made, to the extent required by Section 409A of the Code, at least six months after Grantee's separation from service.

4. No Dividend or Voting Rights; Dividend Equivalents. Grantee shall have no rights of ownership in the Restricted Share Units or in the Shares related thereto and shall have no right to dividends and no right to vote the Restricted Share Units or the Shares related thereto until the date on which the Shares underlying the Restricted Share Units are delivered to Grantee. However, at each time from the Date of Grant through the applicable Vesting Date that the Company pays a cash dividend to shareholders, the Company shall credit Grantee's account hereunder with a dividend equivalent amount equal to the amount of such cash dividend per Share multiplied by the number of outstanding unvested Restricted Share Units on the dividend payment date. Any such dividend equivalent amount shall be accumulated and paid in cash (without interest) only at the time(s) and to the extent that the underlying Restricted Share Units become vested, subject to and conditioned upon Grantee's Continuous Service until such time.

5. Non-Transferability. The Restricted Share Units may not be sold, exchanged, assigned, transferred, pledged, encumbered or otherwise disposed of by Grantee, except by will or the laws of descent and distribution. Any purported transfer or encumbrance in violation of this provision shall be void, and the other party to any such purported transaction shall not obtain any rights to or interest in the Restricted Share Units.

6. Tax Withholding. To the extent the Company or any Subsidiary is required to withhold any federal, state, local, foreign or other taxes in connection with the settlement of the Restricted Share Units, then the Company or Subsidiary (as applicable) shall retain a number of Shares otherwise deliverable hereunder with a value equal to the required withholding (based on the Fair Market Value of the Shares on the applicable date); provided that in no event shall the value of the Shares retained exceed the minimum amount of taxes required to be withheld or such other amount that will not result in a negative accounting impact. Notwithstanding the foregoing, Grantee may elect, in accordance with procedures adopted by the Company from time to time, to either (i) pay or provide for payment of the required tax withholding, or (ii) have the required tax withholding deducted from any amount of salary, bonus, incentive compensation or other amounts otherwise payable in cash to Grantee; provided that the Company may require the use of one or both of these methods in the event that the Company or any Subsidiary is required to withhold taxes at any time other than upon delivery of the Shares.

7. Relation to Other Benefits. Any economic or other benefit to Grantee under this Notice or the Plan shall not be taken into account in determining any benefits to which Grantee may be entitled under any profit-sharing, retirement or other benefit or compensation plan maintained by the Company or a Subsidiary.

8. Severability. If one or more of the provisions of this Notice shall be invalidated for any reason by a court of competent jurisdiction, any provision so invalidated shall be deemed to be separable from the other provisions hereof, and the remaining provisions hereof shall continue to be valid and fully enforceable.

9. Entire Agreement; Relation to Plan. This Notice is subject to the terms and conditions of the Plan. This Notice and the Plan contain the entire agreement and understanding of the parties with respect to the subject matter contained in this Notice, and supersede all prior written or oral communications, representations and negotiations in respect thereto. In the event of any inconsistency between the provisions of this Notice and the Plan, the Plan shall govern. Capitalized terms used in this Notice without definition shall have the meanings assigned to them in the Plan.

10. Adjustments. The number and kind of the Restricted Share Units and the corresponding Shares are subject to adjustment as provided in Section 16 of the Plan.

11. Compliance with Law. The Company shall make reasonable efforts to comply with all applicable federal and state securities laws and listing requirements with respect to the Shares underlying the Restricted Share Units; provided, however, notwithstanding any other provision of this Notice, the Company shall not be obligated to deliver any Shares pursuant to this Notice if the delivery thereof would result in a violation of any such law or listing requirement.

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12. Successors and Assigns. Without limiting Section 5, the provisions of this Notice shall inure to the benefit of, and be binding upon, the permitted successors, administrators, heirs, legal representatives and assigns of Grantee, and the successors and assigns of the Company.

13. Data Privacy. In order to administer the Plan, the Company may process personal data about Grantee. Such data includes, but is not limited to, the information provided in this Notice and any changes thereto, other appropriate personal and financial data about Grantee such as home address and business addresses and other contact information, and any other information that might be deemed appropriate by the Company to facilitate the administration of the Plan. Grantee hereby gives explicit consent to the Company to process any such personal data. Grantee also gives explicit consent to the Company to transfer any such personal data outside the country in which Grantee works or is employed, including, if Grantee is not a U.S. resident, to the United States, to transferees that shall include the Company and other persons who are designated by the Company to administer the Plan.

14. Electronic Delivery. Grantee hereby consents and agrees to electronic delivery of any documents that the Company may elect to deliver (including, but not limited to, the Plan document, Plan Summary and Prospectus, grant or award notifications, account statements, annual and quarterly reports, and all other forms

of communications) in connection with this and any other award made or offered under the Plan. Grantee has the right at any time to request that the Company deliver written copies of any and all materials referred to above at no charge. Grantee also hereby consents to any and all procedures the Company has established or may establish for an electronic signature system for delivery and acceptance of any such documents that the Company may elect to deliver and agrees that Grantee's electronic response or signature is the same as, and shall have the same force and effect as, Grantee's manual signature.

15. Amendment. Subject to the terms of the Plan, the Committee may modify this Notice upon written notice to Grantee. Any amendment to the Plan shall be deemed to be an amendment to this Notice to the extent that the amendment is applicable hereto. Notwithstanding the foregoing, no amendment of the Plan or this Notice shall adversely affect Grantee's rights under this Notice without Grantee's consent unless the Committee determines, in good faith, that such amendment is required for the Notice to either be exempt from the application of, or comply with, the requirements of Section 409A of the Code, or as otherwise may be provided in the Plan.

16. No Employment Contract. Nothing contained in this Notice shall confer upon Grantee any right with respect to continuance of employment by the Company and its subsidiaries, nor limit or affect in any manner the right of the Company and its subsidiaries to terminate Grantee's employment or adjust Grantee's compensation.

17. Governing Law. The interpretation, performance, and enforcement of this Notice shall be governed by the laws of the State of Ohio, without giving effect to the principles of conflict of laws thereof.

18. Terms for Awards to Grantees Outside the United States. If Grantee is a foreign national, or is subject to Applicable Laws of one or more non-United States jurisdictions, then Grantee's Award may be subject to such terms and conditions different from those specified in this Notice, and set out in an appendix to this Notice, as may in the judgment of the Committee be necessary or desirable to foster and promote achievement of the purposes of the Plan.

**NOTICE OF PERFORMANCE SHARE UNIT AWARD
NORDSON CORPORATION
2021 STOCK INCENTIVE AND AWARD PLAN**

Grantee: Participant Name

Date of Grant: Grant Date

Target Number of Performance Share Units: Number of Awards Granted Units

Performance Period: Fiscal Year 2024 through Fiscal Year 2026

TERMS OF GRANT

1. Grant of Performance Share Units. Nordson Corporation, an Ohio corporation (the "Company"), grants to you, the individual named as Grantee above, in accordance with the terms and conditions of the Nordson Corporation 2021 Stock Incentive and Award Plan (the "Plan") and this Notice of Performance Share Unit Award (the "Notice"), the target number of performance share units set forth above (the "Performance Share Units"), on the Date of Grant set forth above. Each Performance Share Unit represents the contingent right to receive one Share, subject to the terms and conditions of this Notice and the Plan. Please note that you must accept the Award set forth in this Notice online in accordance with the procedures established by the Company and the Plan's third-party administrator or this Notice may be cancelled by the Company, in its sole discretion. The terms and conditions of the Plan and this Notice constitute a legal contract that will bind both Grantee and the Company as soon as Grantee accepts the Award.

2. Performance Objectives; Determinations and Adjustments.

(a) Grantee's right to receive a credit of all, a portion or a multiple of the target number of Performance Share Units shall be contingent upon the extent to which the Company achieves the Performance Objectives for the Performance Period, as determined in accordance with the performance schedule attached as Exhibit A to this Notice (the "Performance Schedule").

(b) After the end of the Performance Period, the Committee shall determine in writing the extent, if any, to which the Performance Objectives have been attained and shall determine, in accordance with the Performance Schedule, the number, if any, of Performance Share Units that have been earned, which shall be credited to a book entry account established for Grantee until payment in accordance with Section 4 hereof. Notwithstanding the foregoing, the Committee, in its sole discretion and without the consent of Grantee, may modify the Performance Objectives or the related threshold, target and maximum performance levels,

or the actual payout, in whole or in part, as the Committee deems appropriate and equitable to reflect a change in the business, operations, corporate structure or capital structure of the Company or its affiliates, the manner in which it conducts its business or other events or circumstances.

3. Vesting and Forfeiture of Performance Share Units.

(a) The Performance Share Units, if any, credited to Grantee's account pursuant to Section 2(b) hereof shall be fully vested, provided that Grantee shall have remained in the continuous employment of the Company or a Subsidiary ("Continuous Service") from the Date of Grant through the end of the Performance Period. Except as otherwise provided in Section 3(b) hereof, the Performance Share Units shall be forfeited automatically without further action or notice (i) in the event that the Performance Share Units are not earned based on the achievement of the Performance Objectives as determined by the Committee, or (ii) in the event of the termination of Grantee's Continuous Service for any reason prior to the end of the Performance Period.

(b) Notwithstanding Section 3(a):

(i) Upon the occurrence of a Change in Control prior to the end of the Performance Period and during Grantee's Continuous Service, the vesting of the Performance Share Units will be governed by the applicable provisions of Section 21 of the Plan.

(ii) In the event of the termination of Grantee's Continuous Service as a result of Grantee's (A) "Disability" (defined as a physical or mental impairment, due to accident or illness that renders Grantee incapable of performing the duties of Grantee's normal occupation, as determined by the Committee (or its delegate); provided that the Committee (or its delegate) may, in its discretion, require that the existence of Disability be verified by a physician approved by the Committee (or its delegate)), (B) death, (C) "Retirement" (defined as Grantee's voluntary termination of employment at or after age 65 and with no less than 5 years of service as determined by the Company), or (D) "Early Retirement" (defined as Grantee's voluntary termination of employment no earlier than age 60 but before age 65 and with no less than 10 years of service as determined by the Company, provided that Grantee has notified the Company in writing not less than 120 days in advance of the effective date of such termination of Grantee's employment), Grantee shall vest in a pro-rated number of Performance Share Units (rounded to the nearest whole number) equal to (I) the number of Performance Share Units to which Grantee would have been entitled based on the actual performance of the Company during the full Performance Period, multiplied by (II) a fraction, the numerator of which is the number of days that Grantee was employed during the Performance Period and the denominator of which is the number of days in the Performance Period.

(iii) In the event of the termination of Grantee's Continuous Service by the Company or a Subsidiary as a result of Grantee's violation of the Company's Code of Ethics and Business Conduct, all outstanding vested and unvested Performance Share Units will be forfeited automatically without further action or notice on Grantee's termination date.

(iv) The Committee may, in its sole discretion, provide for the vesting of a pro-rated number of Performance Share Units (rounded to the nearest whole number and determined in accordance with the methodology set out in Section 3(b)(ii)) in connection with the termination of Grantee's Continuous Service for any other reason prior to the end of the Performance Period.

(c) The Performance Share Units and any Shares delivered pursuant to this Notice are subject to forfeiture or repayment pursuant the Company's Clawback Policy (or any successor compensation recovery policy), as in effect from time to time (the "Clawback Policy"), to the extent applicable.

(d) Further, the Performance Share Units and any Shares delivered pursuant to this Notice are subject to forfeiture or repayment due to Harmful Activity in accordance with the provisions of this Section 3(d).

(i) If Grantee engages in any Harmful Activity (as defined below) prior to or within one year after termination of employment with the Company, then (a) any vested Performance Share Units, and (b) any Profits (as defined below) from the sale of any Shares that were delivered pursuant to this Notice, which Profits are realized on or after one year prior to the date of termination of Grantee's employment with the Company, shall inure to the Company. This restriction shall not apply in the event that Grantee's employment with the Company is terminated under the provisions of any employment agreement between the Company and Grantee that becomes operative upon a Change in Control of the Company. If any vested Performance Share Units or any Profits inure to the benefit of the Company in accordance with the first sentence of this paragraph, Grantee shall immediately forfeit such vested Performance Share Units and shall provide all such forfeited Shares and pay all such Profits to the Company within 30 days after first engaging in any Harmful Activity, and all Performance Share Units that have not yet vested shall immediately be forfeited and canceled. The Determination as to whether Grantee engaged in Harmful Activity prior to or within one year after termination of employment with the Company shall be at the Committee's discretion and such determination shall be final and conclusive.

(ii) For purposes of Section 3(d), "Harmful Activity" shall be deemed to have occurred if Grantee:

(A) Uses, publishes, sells, trades or otherwise discloses Non-Public Information (defined below) of the Company unless such prohibited activity was inadvertent, done in good faith and did not cause significant harm to the Company;

(B) After written notice from the Company, fails to return to the Company any document, data, or thing in Grantee's possession or to which Grantee has access that may involve Non-Public Information of the Company;

(C) After notice from the Company, fails to assign to the Company all right, title, and interest in and to any confidential or non-confidential Intellectual Property (defined below) which Grantee created, in whole or in part, during employment with the Company, including, without limitation, copyrights, trademarks, service marks, and patents in or to (or associated with) such Intellectual Property;

(D) After notice from the Company, fails to agree to do any acts and sign any document reasonably requested by the Company to assign and convey all right, title, and interest in and to any confidential or non-confidential Intellectual Property which Grantee created, in whole or in part, during employment with the Company, including, without limitation, the signing of patent applications and assignments thereof;

(E) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, solicits or entices for employment or hire any employee of the Company;

(F) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, calls upon, solicits, or does business with (other than business which does not compete with any business conducted by the Company) any customer of the Company that Grantee called upon, solicited, interacted with, or became acquainted with, or learned of through access to information (whether or not such information is or was non-public) while employed at the Company unless such prohibited activity was inadvertent, done in good faith, and did not involve a customer whom Grantee should have reasonably known was a customer of the Company;

(G) Upon Grantee's own behalf or upon the behalf of any other person or entity that competes or plans to compete with the Company, engages in any business activity in competition with the Company in the same or a closely related activity that Grantee was engaged in for the Company during the one-year period prior to the termination of employment;

(H) Engages in behavior that violates any non-competition provision of an agreement between Grantee and the Company; or

(I) Engages in behavior that violates the Company's Code of Ethics and Business Conduct.

(iii) For purposes of Section 3(d), "Intellectual Property" means any invention, idea, product, method of doing business, market or business plan, process, program, software, formula, method, work of authorship, or other information, or thing.

(iv) For purposes of Section 3(d), "Non-Public Information" means, but is not limited to, trade secrets, confidential processes, programs, software, formulas, methods, business information or plans, financial information, and listings of names (e.g., key employees, customers, and suppliers) that are developed, owned, utilized, or maintained by an employer such as the Company, and that of its customers or suppliers, and that are not generally known by the public.

(v) For purposes of Section 3(d), "Profits" means the Fair Market Value on the date of Grantee's sale of any Shares that were delivered to Grantee pursuant to this Notice.

(vi) For purposes of Section 3(d), "Company" includes the Company and its Subsidiaries.

4. Payment of Vested Performance Share Units. Payment of any Performance Share Units that become earned and vested in accordance with this Notice and the Plan will be made in the form of Shares no later than 90 days after the end of the Performance Period. Notwithstanding the foregoing, payment of any Performance Share Units that become vested pursuant to Section 21 of the Plan (relating to a Change in Control) generally shall be paid within 60 days after they

become vested; provided that if the Performance Share Units are considered a "deferral of compensation" within the meaning of Section 409A of the Code, then, to the extent necessary to comply with Section 409A of the Code, any such vested Performance Share Units shall be paid within 60 days following the earlier of (i) the occurrence of a "change in the ownership," a "change in the effective control" or a "change in the ownership of a substantial portion of the assets" of the Company within the meaning of Section 409A of the Code; (ii) the end of the Performance Period; or (iii) Grantee's "separation from service" within the meaning of Section 409A of the Code (or the six-month anniversary of Grantee's separation from service, if Grantee is a "specified employee" within the meaning of Section 409A of the Code).

5. No Dividend or Voting Rights. Grantee shall have no rights of ownership in the Performance Share Units or in the Shares related thereto and shall have no right to dividends or dividend equivalents and no right to vote the Performance Share Units or the Shares related thereto until the date on which the Shares underlying the Performance Share Units are delivered to Grantee.

6. Non-Transferability. The Performance Share Units may not be sold, exchanged, assigned, transferred, pledged, encumbered or otherwise disposed of by Grantee, except by will or the laws of descent and distribution. Any purported transfer or encumbrance in violation of this provision shall be void, and the other party to any such purported transaction shall not obtain any rights to or interest in the Performance Share Units.

7. Tax Withholding. To the extent the Company or any Subsidiary is required to withhold any federal, state, local, foreign or other taxes in connection with the settlement of the Performance Share Units, then the Company or Subsidiary (as applicable) shall retain a number of Shares otherwise deliverable hereunder with a value equal to the required withholding (based on the fair market value of the Shares on the applicable date); provided that in no event shall the value of the Shares retained exceed the minimum amount of taxes required to be withheld or such other amount that will not result in a negative accounting impact. Notwithstanding the foregoing, Grantee may elect, in accordance with procedures adopted by the Company from time to time, to either (i) pay or provide for payment of the required tax withholding, or (ii) have the required tax withholding deducted from any amount of salary, bonus, incentive compensation or other amounts otherwise payable in cash to Grantee; provided that the Company may require the use of one or both of these methods in the event that the Company or any Subsidiary is required to withhold taxes at any time other than upon delivery of the Shares.

8. Relation to Other Benefits. Any economic or other benefit to Grantee under this Notice or the Plan shall not be taken into account in determining any benefits to which Grantee may be entitled under any profit-sharing, retirement or other benefit or compensation plan maintained by the Company or a Subsidiary.

9. Severability. In the event that one or more of the provisions of this Notice shall be invalidated for any reason by a court of competent jurisdiction, any provision so invalidated shall be deemed to be separable from the other provisions hereof, and the remaining provisions hereof shall continue to be valid and fully enforceable.

10. Entire Agreement; Relation to Plan. This Notice is subject to the terms and conditions of the Plan. This Notice and the Plan contain the entire agreement and understanding of the parties with respect to the subject matter contained in this Notice, and supersede all prior written or oral communications, representations, and negotiations in respect thereto. In the event of any inconsistency between the provisions of this Notice and the Plan, the Plan shall govern. Capitalized terms used in this Notice without definition shall have the meanings assigned to them in the Plan.

11. Adjustments. The number and kind of the Performance Share Units and the corresponding Shares are subject to adjustment as provided in Section 16 of the Plan and in accordance with Company policies, including, but not limited to, those relating to foreign currency rates.

Exhibit 19

12. Compliance with Law. The Company shall make reasonable efforts the transaction does not occur during the two-day period, pre-clearance of the transaction must be re- requested.

Pre-clearance is not required for purchases and sales of securities under a previously Approved 10b5-1 Plan. However, directors and executive officers must instruct his or her third party who is effecting transactions, pursuant to comply with any purchase or sale under an Approved 10b5-1 Plan, to send duplicate confirmations of all applicable federal and state securities laws and listing requirements with respect such transactions to the Shares underlying Compliance Officer.

Inquiries

If you have any questions regarding this Policy, please contact either of the Performance Share Units; provided, however, notwithstanding any other provision of this Notice, the Company shall not be obligated to deliver any Shares pursuant to this Notice if the delivery thereof would result in a violation of any such law or listing requirement. Compliance Officers.

13. **Successors and Assigns.** Without limiting Section 6, the provisions of this Notice shall inure to the benefit of, and be binding upon, the permitted successors, administrators, heirs, legal representatives and assigns of Grantee, and the successors and assigns of the Company.

14. **Data Privacy.** In order to administer the Plan, the Company may process personal data about Grantee. Such data includes, but is not limited to, the information provided in this Notice and any changes thereto, other appropriate personal and financial data about Grantee such as home address and business addresses and other contact information, and any other information that might be deemed appropriate by the Company to facilitate the administration of the Plan. Grantee hereby gives explicit consent to the Company to process any such personal data. Grantee also gives explicit consent to the Company to transfer any such personal data outside the country in which Grantee works or is employed, including, if Grantee is not a U.S. resident, to the United States, to transferees that shall include the Company and other persons who are designated by the Company to administer the Plan.

15. **Electronic Delivery.** Grantee hereby consents and agrees to electronic delivery of any documents that the Company may elect to deliver (including, but not limited to, the Plan document, Plan Summary and Prospectus, grant or award notifications, account statements, annual and quarterly reports, and all other forms of communications) in connection with this and any other award made or offered under the Plan. Grantee has the right at any time to request that the Company deliver written copies of any and all materials referred to above at no charge. Grantee also hereby consents to any and all procedures the Company has established or may establish for an electronic signature system for delivery and acceptance of any such documents that the Company may elect to deliver and agrees that Grantee's electronic response or signature is the same as, and shall have the same force and effect as, Grantee's manual signature.

16. **Amendment.** Subject to the terms of the Plan, the Committee may modify this Notice upon written notice to Grantee. Any amendment to the Plan shall be deemed to be an amendment to this Notice to the extent that the amendment is applicable hereto. Notwithstanding the foregoing, no amendment of the Plan or this Notice shall adversely affect Grantee's rights under this Notice without Grantee's consent unless the Committee determines, in good faith, that such amendment is required for the Notice to either be exempt from the application of, or comply with, the requirements of Section 409A of the Code, or as otherwise may be provided in the Plan.

17. **No Employment Contract.** Nothing contained in this Notice shall confer upon Grantee any right with respect to continuance of employment by the Company and its subsidiaries, nor limit or affect in any manner the right of the Company and its subsidiaries to terminate Grantee's employment or adjust Grantee's compensation.

18. **Governing Law.** The interpretation, performance, and enforcement of this Notice shall be governed by the laws of the State of Ohio, without giving effect to the principles of conflict of laws thereof.

19. **Terms for Awards to Grantees Outside the United States.** If Grantee is a foreign national, or is subject to Applicable Laws of one or more non-United States jurisdictions, then Grantee's Award may be subject to such terms and conditions different from those specified in this Notice, and set out in an appendix to this Notice, as may in the judgment of the Committee be necessary or desirable to foster and promote achievement of the purposes of the Plan.

EXHIBIT A
PERFORMANCE SCHEDULE

Grantee's right to receive unrestricted Nordson Common Shares under this Performance Share Unit Award is contingent upon achievement of the certain performance goals established by the Committee. The performance factors for the FY2024-FY2026 Performance Period are adjusted earnings per share ("Adjusted EPS") growth, return on invested capital ("ROIC"), and earnings before interest, taxes, depreciation, and amortization ("EBITDA") margin. Adjusted EPS growth, ROIC and EBITDA margin will be calculated using the following definitions:

Adjusted EPS Growth = EPS Growth excluding acquisition amortization and unusual or non-recurring amounts as further described below in note (i)

ROIC = (Net Income + After-Tax Interest Expense) / Average Total Capital

where Total Capital = Total Equity + Total Debt - cash & cash equivalents

EBITDA Margin = EBITDA / Total Revenues
where EBITDA = Operating Profit + Depreciation & Amortization

Performance measures as described in the chart below will be used for each year of the three-year period. Attainment for each year will be determined at the end of each year, and overall attainment for the three-year performance period will be determined based on the average of performance achieved for each of the three years.

Adjusted EPS growth shall be weighted 40%, and ROIC and EBITDA margin shall be weighted 30%.

Fiscal year 2024 adjusted EPS growth and ROIC performance goals are established using the prior year-end financials as the baseline for growth. Fiscal year 2025 performance measures will be calculated based on a baseline of fiscal year 2024 actual results and fiscal year 2026 performance measures will be calculated based on a baseline of fiscal 2025 actual results.

Performance measures are fixed at the beginning of fiscal year 2024 for the FY2024 – FY2026 performance period as follows:

[]

- (i) The Committee shall adjust the performance goals for any year during the Performance Period, to recognize: 1.) the effect of material accounting changes in accordance with generally accepted accounting principles, 2.) the impact of material changes to international, federal and state tax laws, and 3.) material unusual or non-recurring transactions or events during the Performance Period, including but not limited to, those arising from the acquisition or disposition of assets, impairments or costs associated with exit or disposal activities or material impairments that are reported on a Form 8-K or other periodic report filed with the Securities and Exchange Commission. Such adjustments shall be calculated to reflect the performance goals as if the event triggering the adjustment had not happened.
- (ii) Subject to adjustment as provided in Section 16 of the Plan, the Awards shall not exceed the limits as set forth in the Plan.

Exhibit 10-x

**NOTICE OF RESTRICTED SHARE UNIT AWARD
NORDSON CORPORATION
2021 STOCK INCENTIVE AND AWARD PLAN**

Grantee: Participant Name

Date of Grant: Grant Date

Number of Restricted Share Units: Number of Awards Granted Units

Vesting Date: Cliff Vesting Date (Single date no quantity)

TERMS OF GRANT

1. Grant of Restricted Share Units. Nordson Corporation, an Ohio corporation (the "Company"), grants to you, the individual named as Grantee above, in accordance with the terms and conditions of the Nordson Corporation 2021 Stock Incentive and Award Plan (the "Plan") and this Notice of Restricted Share Unit Award (the "Notice"), the number of restricted share units set forth above (the "Restricted Share Units"), on the Date of Grant set forth above. Each Restricted Share Unit represents the contingent right to receive one Share, subject to the terms and conditions of this Notice and the Plan. Please note that you must accept the Award set forth in this Notice online in accordance with the procedures established by the Company and the Plan's third-party administrator or this Notice may be cancelled by the Company, in its sole discretion. The terms and conditions of the Plan and this Notice constitute a legal contract that will bind both Grantee and the Company as soon as Grantee accepts the Award.

2. Vesting of Restricted Share Units.

(a) The Restricted Share Units (subject to such rounding conventions as maintained by the Company from time to time) shall vest on the Vesting Date set forth above (each, a "Vesting Date"), provided that Grantee shall have remained in the continuous employment of the Company or a Subsidiary ("Continuous Service") through the applicable Vesting Date.

(b) Notwithstanding Section 2(a):

(i) Upon the occurrence of a Change in Control prior to a Vesting Date and during Grantee's Continuous Service, the vesting of the Restricted Share Units will be governed by the applicable provisions of Section 21 of the Plan.

(ii) In the event of the termination of Grantee's Continuous Service as a result of Grantee's death or "Disability" (defined as a physical or mental impairment, due to accident or illness that renders Grantee incapable of performing the duties of Grantee's normal occupation, as determined by the Committee (or its delegate); provided that the Committee (or its delegate) may, in its discretion, require that the existence of Disability be verified by a physician approved by the Committee (or its delegate)), any unvested Restricted Share Units shall become vested in full on Grantee's termination date.

(iii) In the event of the termination of Grantee's Continuous Service at least 12 months after the Date of Grant as a result of Grantee's "Retirement" (defined as Grantee's voluntary termination of employment at or after age 65 and with no less than 5 years of service as determined by the Company), any unvested Restricted Share Units shall be forfeited automatically without further action or notice on Grantee's termination date.

(iv) In the event of the termination of Grantee's Continuous Service at least 12 months after the Date of Grant as a result of Grantee's "Early Retirement" (defined as Grantee's voluntary termination of employment no earlier than age 55 but before age 65 and with no less than 5 years of service as determined by the Company), any unvested Restricted Share Units shall be forfeited automatically without further action or notice on Grantee's termination date.

(v) In the event of the termination of Grantee's Continuous Service by the Company or a Subsidiary as a result of Grantee's violation of the Company's Code of Ethics and Business Conduct, all outstanding unvested Restricted Share Units will be forfeited automatically without further action or notice on Grantee's termination date.

(vi) The Committee may, in its sole discretion, provide for the vesting of all or a portion of the Restricted Share Units in connection with the termination of Grantee's Continuous Service for any other reason prior to a Vesting Date.

(c) The Restricted Share Units and any Shares delivered pursuant to this Notice are subject to forfeiture or repayment pursuant the Company's Clawback Policy (or any successor compensation recovery policy), as in effect from time to time (the "Clawback Policy"), to the extent applicable.

(d) Further, the Restricted Share Units and any Shares delivered pursuant to this Notice are subject to forfeiture or repayment due to Harmful Activity in accordance with the provisions of this Section 2(d).

(i) If Grantee engages in any Harmful Activity (as defined below) prior to or within one year after termination of employment with the Company, then (a) any vested Restricted Share Units, and (b) any Profits (as defined below) from the sale of any Shares that were delivered pursuant to this Notice, which Profits are realized on or after one year prior to the date of termination of Grantee's employment with the Company, shall inure to the Company. This restriction shall not apply in the event that Grantee's employment with the Company is terminated under the provisions of any employment agreement between the Company and Grantee that becomes operative upon a Change in Control of the Company. If any vested Restricted Share Units or any Profits inure to the benefit of the Company in accordance with the first sentence of this paragraph, Grantee shall immediately forfeit such vested Restricted Share Units and shall provide all such forfeited Shares and pay all such Profits to the Company within 30 days after first engaging in any Harmful Activity, and all Restricted Share Units that have not yet vested shall immediately be forfeited and canceled. The Determination as to whether Grantee engaged in Harmful Activity prior to or within one year after termination of employment with the Company shall be at the Committee's discretion and such determination shall be final and conclusive.

(ii) For purposes of Section 2(d), "Harmful Activity" shall be deemed to have occurred if Grantee:

(A) Uses, publishes, sells, trades or otherwise discloses Non-Public Information (defined below) of the Company unless such prohibited activity was inadvertent, done in good faith and did not cause significant harm to the Company;

(B) After written notice from the Company, fails to return to the Company any document, data, or thing in Grantee's possession or to which Grantee has access that may involve Non-Public Information of the Company;

(C) After notice from the Company, fails to assign to the Company all right, title, and interest in and to any confidential or non-confidential Intellectual Property (defined below) which Grantee created, in whole or in part, during employment with the Company, including, without limitation, copyrights, trademarks, service marks, and patents in or to (or associated with) such Intellectual Property;

(D) After notice from the Company, fails to agree to do any acts and sign any document reasonably requested by the Company to assign and convey all right, title, and interest in and to any confidential or non-confidential Intellectual Property which Grantee created, in whole or in part, during employment with the Company, including, without limitation, the signing of patent applications and assignments thereof;

(E) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, solicits or entices for employment or hire any employee of the Company;

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(F) Upon Grantee's own behalf or upon behalf of any other person or entity that competes or plans to compete with the Company, calls upon, solicits, or does business with (other than business which does not compete with any business conducted by the Company) any customer of the Company that Grantee called upon, solicited, interacted with, or became acquainted with, or learned of through access to information (whether or not such information is or was non-public) while employed at the Company unless such prohibited activity was inadvertent, done in good faith, and did not involve a customer whom Grantee should have reasonably known was a customer of the Company;

(G) Upon Grantee's own behalf or upon the behalf of any other person or entity that competes or plans to compete with the Company, engages in any business activity in competition with the Company in the same or a closely related activity that Grantee was engaged in for the Company during the one-year period prior to the termination of employment;

(H) Engages in behavior that violates any non-competition provision of an agreement between Grantee and the Company; or

(I) Engages in behavior that violates the Company's Code of Ethics and Business Conduct.

(iii) For purposes of Section 2(d), "Intellectual Property" means any invention, idea, product, method of doing business, market or business plan, process, program, software, formula, method, work of authorship, or other information, or thing.

(iv) For purposes of Section 2(d), "Non-Public Information" means, but is not limited to, trade secrets, confidential processes, programs, software, formulas, methods, business information or plans, financial information, and listings of names (e.g., key employees, customers, and suppliers) that are developed, owned, utilized, or maintained by an employer such as the Company, and that of its customers or suppliers, and that are not generally known by the public.

(v) For purposes of Section 2(d), "Profits" means the fair market value on the date of Grantee's sale of any Shares that were delivered to Grantee pursuant to this Notice.

(vi) For purposes of Section 2(d), "Company" includes the Company and its Subsidiaries.

3. Payment of Vested Restricted Share Units. The Company will deliver to Grantee the Shares underlying any vested Restricted Share Units (and pay to Grantee in cash any vested dividend equivalent amounts pursuant to Section 4 below) within 30 days after the date that such Restricted Share Units become vested. Notwithstanding the foregoing, to the extent that Grantee's Restricted Share Units constitute a "deferral of compensation" payable upon Grantee's "separation from service" and Grantee is a "specified employee" (within the meaning of Section 409A of the Code) at the time of such separation from service, payment of any vested Restricted Share Units shall be made, to the extent required by Section 409A of the Code, at least six months after Grantee's separation from service. Further, to the extent that Grantee's Restricted Share Units constitute a "deferral of compensation" within the meaning of Section 409A of the Code, payment of any vested Restricted Share Units pursuant to Section 21 of the Plan (relating to a Change in Control) shall be made within 60 days following the earlier of (i) the occurrence of a "change in the ownership," a "change in the effective control," or a "change in the ownership of a substantial portion of the assets" of the Company within the meaning of Section 409A of the Code; or (ii) Grantee's "separation from service" within the meaning of Section 409A of the Code; provided that payment to a "specified employee" within the meaning of Section 409A of the Code shall be made, to the extent required by Section 409A of the Code, at least six months after Grantee's separation from service.

4. No Dividend or Voting Rights; Dividend Equivalents. Grantee shall have no rights of ownership in the Restricted Share Units or in the Shares related thereto and shall have no right to dividends and no right to vote the Restricted Share Units or the Shares related thereto until the date on which the Shares underlying the Restricted Share Units are delivered to Grantee. However, at each time from the Date of Grant through the applicable Vesting Date that the Company pays a cash dividend to

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shareholders, the Company shall credit Grantee's account hereunder with a dividend equivalent amount equal to the amount of such cash dividend per Share multiplied by the number of outstanding unvested Restricted Share Units on the dividend payment date. Any such dividend equivalent amount shall be accumulated and paid in cash (without interest) only at the time(s) and to the extent that the underlying Restricted Share Units become vested, subject to and conditioned upon Grantee's Continuous Service until such time.

5. **Non-Transferability.** The Restricted Share Units may not be sold, exchanged, assigned, transferred, pledged, encumbered or otherwise disposed of by Grantee, except by will or the laws of descent and distribution. Any purported transfer or encumbrance in violation of this provision shall be void, and the other party to any such purported transaction shall not obtain any rights to or interest in the Restricted Share Units.

6. **Tax Withholding.** To the extent the Company or any Subsidiary is required to withhold any federal, state, local, foreign or other taxes in connection with the settlement of the Restricted Share Units, then the Company or Subsidiary (as applicable) shall retain a number of Shares otherwise deliverable hereunder with a value equal to the required withholding (based on the Fair Market Value of the Shares on the applicable date); provided that in no event shall the value of the Shares retained exceed the minimum amount of taxes required to be withheld or such other amount that will not result in a negative accounting impact. Notwithstanding the foregoing, Grantee may elect, in accordance with procedures adopted by the Company from time to time, to either (i) pay or provide for payment of the required tax withholding, or (ii) have the required tax withholding deducted from any amount of salary, bonus, incentive compensation or other amounts otherwise payable in cash to Grantee; provided that the Company may require the use of one or both of these methods in the event that the Company or any Subsidiary is required to withhold taxes at any time other than upon delivery of the Shares.

7. **Relation to Other Benefits.** Any economic or other benefit to Grantee under this Notice or the Plan shall not be taken into account in determining any benefits to which Grantee may be entitled under any profit-sharing, retirement or other benefit or compensation plan maintained by the Company or a Subsidiary.

8. **Severability.** If one or more of the provisions of this Notice shall be invalidated for any reason by a court of competent jurisdiction, any provision so invalidated shall be deemed to be separable from the other provisions hereof, and the remaining provisions hereof shall continue to be valid and fully enforceable.

9. **Entire Agreement; Relation to Plan.** This Notice is subject to the terms and conditions of the Plan. This Notice and the Plan contain the entire agreement and understanding of the parties with respect to the subject matter contained in this Notice, and supersede all prior written or oral communications, representations and negotiations in respect thereto. In the event of any inconsistency between the provisions of this Notice and the Plan, the Plan shall govern. Capitalized terms used in this Notice without definition shall have the meanings assigned to them in the Plan.

10. **Adjustments.** The number and kind of the Restricted Share Units and the corresponding Shares are subject to adjustment as provided in Section 16 of the Plan.

11. **Compliance with Law.** The Company shall make reasonable efforts to comply with all applicable federal and state securities laws and listing requirements with respect to the Shares underlying the Restricted Share Units; provided, however, notwithstanding any other provision of this Notice, the Company shall not be obligated to deliver any Shares pursuant to this Notice if the delivery thereof would result in a violation of any such law or listing requirement.

12. **Successors and Assigns.** Without limiting Section 5, the provisions of this Notice shall inure to the benefit of, and be binding upon, the permitted successors, administrators, heirs, legal representatives and assigns of Grantee, and the successors and assigns of the Company.

13. **Data Privacy.** In order to administer the Plan, the Company may process personal data about Grantee. Such data includes, but is not limited to, the information provided in this Notice and any changes thereto, other appropriate personal and financial data about Grantee such as home address and

business addresses and other contact information, and any other information that might be deemed appropriate by the Company to facilitate the administration of the Plan. Grantee hereby gives explicit consent to the Company to process any such personal data. Grantee also gives explicit consent to the Company to transfer

any such personal data outside the country in which Grantee works or is employed, including, if Grantee is not a U.S. resident, to the United States, to transferees that shall include the Company and other persons who are designated by the Company to administer the Plan.

14. **Electronic Delivery.** Grantee hereby consents and agrees to electronic delivery of any documents that the Company may elect to deliver (including, but not limited to, the Plan document, Plan Summary and Prospectus, grant or award notifications, account statements, annual and quarterly reports, and all other forms of communications) in connection with this and any other award made or offered under the Plan. Grantee has the right at any time to request that the Company deliver written copies of any and all materials referred to above at no charge. Grantee also hereby consents to any and all procedures the Company has established or may establish for an electronic signature system for delivery and acceptance of any such documents that the Company may elect to deliver and agrees that Grantee's electronic response or signature is the same as, and shall have the same force and effect as, Grantee's manual signature.

15. **Amendment.** Subject to the terms of the Plan, the Committee may modify this Notice upon written notice to Grantee. Any amendment to the Plan shall be deemed to be an amendment to this Notice to the extent that the amendment is applicable hereto. Notwithstanding the foregoing, no amendment of the Plan or this Notice shall adversely affect Grantee's rights under this Notice without Grantee's consent unless the Committee determines, in good faith, that such amendment is required for the Notice to either be exempt from the application of, or comply with, the requirements of Section 409A of the Code, or as otherwise may be provided in the Plan.

16. **No Employment Contract.** Nothing contained in this Notice shall confer upon Grantee any right with respect to continuance of employment by the Company and its subsidiaries, nor limit or affect in any manner the right of the Company and its subsidiaries to terminate Grantee's employment or adjust Grantee's compensation.

17. **Governing Law.** The interpretation, performance, and enforcement of this Notice shall be governed by the laws of the State of Ohio, without giving effect to the principles of conflict of laws thereof.

18. **Terms for Awards to Grantees Outside the United States.** If Grantee is a foreign national, or is subject to Applicable Laws of one or more non-United States jurisdictions, then Grantee's Award may be subject to such terms and conditions different from those specified in this Notice, and set out in an appendix to this Notice, as may in the judgment of the Committee be necessary or desirable to foster and promote achievement of the purposes of the Plan.

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Exhibit 21

NORDSON CORPORATION
Subsidiaries of the Registrant

The following table sets forth the subsidiaries of the Registrant (each of which is included in the Registrant's consolidated financial statements), and the jurisdiction under the laws of which each subsidiary was organized: **DEFINITIONS**

Approved 10b5-1 Plan	A pre-existing written plan, contract, instruction, or arrangement for the purposes of trading Company securities, executed pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934 that has been approved by the Company.
Compliance Officers	The Company has appointed each of the General Counsel and Chief Financial Officer as the Compliance Officers for this Policy. The duties of the Compliance Officers include, but are not limited to, the following: <ul style="list-style-type: none"> • Assist with implementation and enforcement of this Policy; • Circulate this Policy to all employees and ensuring that this Policy is up-to-date with insider trading laws; • Pre-clear all trading in securities of the Company by Covered Persons in accordance with the procedures set forth in this Policy; • Provide approval of any Rule 10b5-1 plans and any prohibited transactions under this Policy ; and • Provide a reporting system with an effective whistleblower protection mechanism.
Covered Persons	All directors of the Company, all executive officers of the Company, and employees of the Company who are likely to be exposed to material non-public information in the course of performing their job responsibilities, including but not limited to, the following: <ul style="list-style-type: none"> • All members of the Executive Leadership Team; • All division leaders; • Finance and accounting personnel who either report directly to the Chief Financial Officer or are sufficiently involved in the financial reporting process; • Legal department personnel who are involved in financial reporting and board interactions; • Investor relations personnel; and • Internal audit personnel.
Family Members	Immediate family members, household members and family members whose transactions involving Nordson securities are directed by the Potential Insider or are subject to the Potential Insider's influence or control.
Material	Information is material if there is a substantial likelihood that a reasonable investor would consider it important in deciding whether to buy, hold or sell a security. Both positive and negative information can be considered material. Examples include, but are not limited to: <ul style="list-style-type: none"> • A pending or proposed merger, acquisition or tender offer; • A pending or proposed sale of a business unit or a significant amount of assets;

Exhibit 19

	<ul style="list-style-type: none"> Changes in the executive management team; Revenues and earnings that are inconsistent with the consensus estimates of the investment community, or projections, estimates or guidance of revenues or earnings; Launching significant new products or services; Significant disputes or settlements with, or the gain or loss of, a significant supplier or customer; The obtaining or loss of a significant contract or order; Actual or prospective significant changes in Nordson's cash position, positive or negative, including as a result of changes in financing arrangements, securities issuances or securities repurchases; A proposed offering or issuance of new securities; Strategic plans; Changes in dividend policies; and/or Declarations of stock splits or stock dividends.
Permissible Trading Period	Also known as a "trading window" and the period in which Covered Persons are permitted to trade Nordson securities. PTPs commence at the open of the market on the second trading day following the date of public disclosure of the financial results for a fiscal quarter or year and continue until the close of market approximately five weeks before the end of such fiscal quarter.
Potential Insider	All employees of the Company, all officers of the Company, and all members of the Company's board of directors.
Public	Information that has been disseminated in a manner designed to reach investors generally, and the investors must be given the opportunity to absorb the information. Even after public disclosure of information about the Company, you must wait until the close of business on the second trading day after the information was publicly disclosed before you can treat the information as public. Examples of nonpublic information include, but are not limited to: <ul style="list-style-type: none"> Information available to a select group of analysts or brokers or institutional investors; Undisclosed facts that are the subject of rumors, even if the rumors are widely circulated; and Information that has been entrusted to the Company on a confidential basis until a public announcement of the information has been made and enough time has elapsed for the market to respond to a public announcement of the information (normally two trading days).
SEC	The Securities and Exchange Commission.
Tip	Communicating any material nonpublic information about the Company or involving another company's material, nonpublic information you learned through your employment at Nordson.

If you are unsure whether information is "material" or "public," you should either assume the information is material and/or nonpublic OR consult with one of the Compliance Officers.

Acknowledgment and Certification

All Covered Persons are required to sign the attached acknowledgment and certification.

Exhibit 19

ACKNOWLEDGMENT AND CERTIFICATION

The undersigned does hereby acknowledge receipt of the Company's Insider Trading Policy. The undersigned has read and understands (or has had explained) such Policy and agrees to be governed by such Policy at all times in connection with the purchase and sale of securities and the confidentiality of nonpublic information.

(Signature)

(Please print name)

Date:

Sign and return to a Compliance Officer.

Exhibit 21
NORDSON CORPORATION
Subsidiaries of the Registrant

The following table sets forth the subsidiaries of the Registrant (each of which is included in the Registrant's consolidated financial statements), and the jurisdiction under the laws of which each subsidiary was organized:

Name	Jurisdiction of Incorporation
UNITED STATES:	
Atrion Leasing Company, LLC	Alabama
Alatenn Pipeline Company	Alabama
Nordson Test and Inspection Americas, Inc.	California
Value Plastics, Inc. dba Nordson MEDICAL	Colorado
Arag Group NA Inc.	Delaware
Atrion Corporation	Delaware
Atrion Medical Products, Inc.	Delaware
EDI Holdings, Inc.	Delaware
Halkey-Roberts Corporation	Delaware
Nordson BKG, Inc.	Delaware
Nordson Extrusion Dies Industries, LLC	Delaware
Nordson MEDICAL (CA), LLC	Delaware
Nordson MEDICAL Design and Development, Inc.	Delaware
Nordson MEDICAL, Inc.	Delaware
NDC Technologies, Inc.	Delaware
Sonoscan, Inc.	Delaware
Vention Medical Acquisition Co.	Delaware
Arag Precision Technology, Inc.	Georgia
CyberOptics Corporation	Minnesota
Micromedics, Inc. dba Nordson MEDICAL	Minnesota
Nordson Medical (NH), Inc.	New Hampshire
Fluortek, LLC	New Jersey
Nordson Advanced Technology LLC	Ohio
Nordson Atlantic LLC	Ohio
Nordson England L.L.C.	Ohio
Nordson Medical Corporation	Ohio
Nordson Pacific, Inc.	Ohio
Nordson U.S. Trading Company	Ohio
Realty Land Conservancy III LLC	Ohio
Nordson EFD LLC	Rhode Island
Quest Medical, Inc.	Texas

<u>Name</u>	<u>Jurisdiction of Incorporation</u>
INTERNATIONAL:	
Arag Argentina S.A.U. S.A.	Argentina
Arag Australia PTY Ltd. Ltd	Australia
Nordson Australia Pty. Limited	Australia
Nordson Osterreich GmbH	Austria
Nordson Benelux S.A./N.V.	Belgium
NDC Technologies S.A.	Belgium
Arag do Brasil S.A.	Brazil
Nordson do Brasil Industria e Comercio Ltda.	Brazil
Arag Bulgaria EOOD Ltd.	Bulgaria
Nordson Canada Limited	Canada
CyberOptics (China) Co., Ltd.	China
Dage Test Systems (Suzhou) Co. Ltd.	China
Hanshitong (Shanghai) Enterprise Management Consulting Co. Ltd.	China
Nordson (China) Co., Ltd.	China

<u>Name</u>	<u>Jurisdiction of Incorporation</u>
INTERNATIONAL:	
Nordson (Shanghai) Business Consulting Co., Ltd.	China
Nordson China Business Trust	China
Nordson PPS (Shanghai) Co. Ltd.	China
PDMC Branch Company of Nordson (China) Ltd.	China
Suzhou Nordson Electronics Equipment., Co., Ltd.	China
Nordson Andina Limitada	Colombia
Nordson CS, spol.s.r.o.	Czech Republic
Nordson Danmark A/S	Denmark
Nordson Finland Oy	Finland
Dosage 2000 S.A.R.L	France
NDC Technologies S.A.R.L.	France
Nordson France S.A.S.	France
Dage Deutschland GmbH	Germany
Matrix Technologies GmbH	Germany
Nordson BKG GmbH	Germany
Nordson Deutschland GmbH	Germany
Nordson Engineering GmbH	Germany
Nordson Germania Ltd. & Co. KG	Germany
Nordson Holdings S.à r.l. & Co. KG	Germany
Ligonia Limited	Hong Kong
Macaria Limited	Hong Kong
Nordson Advanced Technology (Hong Kong) Ltd.	Hong Kong
Nordson Asia Pacific, Limited	Hong Kong
Nordson Hungary Kft	Hungary
Nordson India Private Limited	India
Nordson S.E. Asia (Pte.) Limited, Indonesia Representative Office	Indonesia
Chartview Investments Limited	Ireland
Nordson MEDICAL Ireland Limited	Ireland
CardioNiti Ltd.	Israel
Great Aspirations Ltd.	Israel
MedKardia Ltd.	Israel
Nordson MEDICAL Israel AC Ltd.	Israel
Nordson MEDICAL Israel Ltd.	Israel
SafePass Vascular Ltd. Agritech Holdings S.à r.l.	Israel
Score It Ltd.	Israel Italy
AM Torneria S.à r.l. S.r.l.	Italy
ARAG S.à r.l.	Italy
Arinvex S.à r.l. S.r.l.	Italy
ASJ S.à r.l.	Italy
NDC Technologies SRL	Italy
Nordson Italia Agriculture S.r.l.	Italy
Nordson Italia S.p.A.	Italy
Nordson Advanced Technology (Japan) K.K.	Japan
Nordson K.K.	Japan
Agritech Holdings S.à r.l.	Luxembourg
Nordson Luxembourg S.à r.l.	Luxembourg
Nordson S.à r.l.	Luxembourg

<u>Name</u>	<u>Jurisdiction of Incorporation</u>
INTERNATIONAL:	
Nordson Italia Agriculture S.r.l.	Italy
Nordson Italia S.p.A.	Italy
Polyusus Lux XX S.à. r.l.	Italy
Nordson Advanced Technology (Japan) K.K.	Japan
Nordson K.K.	Japan
Nordson Luxembourg S.à r.l.	Luxembourg
Nordson S.à r.l.	Luxembourg
Cybe Malaysia Sdn. Bhd.	Malaysia
Nordson (Malaysia) Sdn. Bhd.	Malaysia
Nordson de Mexico, S.A. de C.V.	Mexico
Nordson de Mexico Trading, S.A. de C.V.	Mexico
Nordson MEDICAL S.A. de C.V. (Mexico)	Mexico
Nordson Benelux B.V.	The Netherlands
Nordson B.V.	The Netherlands
Nordson New Zealand	New Zealand
Nordson Norge A/S	Norway
Nordson Polska Sp.z.o.o.	Poland
Nordson Portugal Equipamento Industrial, Lda.	Portugal
Nordson RUS LLC (fka Nordson Russia Limited Liability Company)	Russia
CyberOptics (Singapore) Pte. Ltd.	Singapore
Nordson Advanced Technology (Singapore) Pte. Ltd.	Singapore
Nordson Advanced Technology International Pte. Ltd.	Singapore
Nordson S.E. Asia (Pte.) Ltd.	Singapore
Nordson SG Pte. Ltd.	Singapore
Primount Singapore Pte. Ltd.	Singapore
Nordson SA (Pty) Limited	South Africa
Nordson Korea Ltd.	South Korea
Nordson Iberica, S.A.	Spain
Nordson AB	Sweden
Nordson (Schweiz) A.G.	Switzerland
CyberOptics Corporation (Taiwan Branch)	Taiwan
Nordson Advanced Technology LLC (Taiwan Branch)	Taiwan
Nordson (Thailand) Ltd.	Thailand
CyberOptics Holdings Limited	United Kingdom
CyberOptics Limited	United Kingdom
Dage Holdings Limited	United Kingdom
Dage Pension Trustees Limited	United Kingdom
Dage Precision Industries Limited	United Kingdom
Majority Kingdom Investment Limited	United Kingdom
Minority Kingdom Investment Limited	United Kingdom
NDC Technologies Limited	United Kingdom
Nordson (U.K.) Limited	United Kingdom
Nordson London Limited	United Kingdom
Primount LLP	United Kingdom
Nordson International de Venezuela, CA	Venezuela
Representative Office of Nordson S.E. Asia (Pte.) Limited in Hanoi City	Vietnam
Representative Office of Nordson S.E. Asia (Pte.) Limited in Ho Chi Minh City	Vietnam

Exhibit 23

NORDSON CORPORATION
Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the following Registration Statements:

1. Registration Statement (Form S-8 No. 333-167406) pertaining to the Nordson Employees' Savings Trust Plan and Nordson Hourly-Rated Employees' Savings Trust Plan,
2. Registration Statement (Form S-8 No. 33-18309) pertaining to the Nordson Employees' Savings Trust Plan,
3. Registration Statement (Form S-8 No. 33-33481) pertaining to the Nordson Hourly-Rated Employees' Savings Trust Plan,
4. Registration Statement (Form S-8 No. 333-119399) pertaining to the Nordson Corporation 2004 Long-Term Performance Plan,
5. Registration Statement (Form S-8 No. 333-188980) pertaining to the Nordson Corporation 2012 Stock Incentive and Award Plan,
6. Registration Statement (Form S-8 No. 333-225378) pertaining to the Amended and Restated Nordson Corporation 2012 Stock Incentive and Award Plan,
7. Registration Statement (Form S-8 No. 333-254753) pertaining to the Nordson Corporation 2021 Stock Incentive and Award Plan,
8. Registration Statement (Form S-8 No. 333-268305) pertaining to the CyberOptics Corporation 1998 Stock Incentive Plan, as amended, and
9. Registration Statement (Form S-3 No. 333-274340) pertaining to debt securities;

of our reports dated **December 20, 2023** **December 18, 2024**, with respect to the consolidated financial statements and schedule of Nordson Corporation and the effectiveness of internal control over financial reporting of Nordson Corporation included in this Annual Report (Form 10-K) of Nordson Corporation for the year ended **October 31, 2023** **October 31, 2024**.

/s/ Ernst & Young LLP

Ernst & Young LLP

Cleveland, Ohio

December **20, 2023** **18, 2024**

Exhibit 31.1

CERTIFICATION PURSUANT TO RULE 13a-14(a)/15d-14(a) OF THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Sundaram Nagarajan, certify that:

1. I have reviewed this Annual Report on Form 10-K of Nordson Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

- a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
- b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 20, 2023 December 18, 2024

/s/ Sundaram Nagarajan

Sundaram Nagarajan

President and Chief Executive Officer

Exhibit 31.2

CERTIFICATION PURSUANT TO RULE 13a-14(a)/15d-14(a) OF THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, **Stephen Shamrock**, **Daniel R. Hopgood**, certify that:

1. I have reviewed this Annual Report on Form 10-K of Nordson Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: December 20, 2023 December 18, 2024

/s/ Stephen Shamrock Daniel R. Hopgood

Stephen Shamrock Daniel R. Hopgood

Executive Vice President and Corporate Controller, Interim
Chief Financial Officer

Exhibit 32.1

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Nordson Corporation (the "Company") on Form 10-K for the year ended October 31, 2023 October 31, 2024, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Sundaram Nagarajan, president and chief executive officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: December 20, 2023 December 18, 2024

/s/ Sundaram Nagarajan

Sundaram Nagarajan

President and Chief Executive Officer

Exhibit 32.2

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Nordson Corporation (the "Company") on Form 10-K for the year ended October 31, 2023 October 31, 2024, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Stephen Shamrock, Daniel R. Hopgood, executive vice president and corporate controller, interim chief financial officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: December 20, 2023 December 18, 2024

/s/ Stephen Shamrock Daniel R. Hopgood

Stephen Shamrock Daniel R. Hopgood

Executive Vice President and Corporate Controller, Interim
Chief Financial Officer

Exhibit 97

NORDSON CORPORATION
COMPENSATION CLAWBACK POLICY
Effective August 29, 2023

This Compensation Clawback Policy (the "Policy") is applicable to any current or former "Section 16 officer" of Nordson Corporation (the "Company") within the meaning of Rule 16a-1(f) under the Securities Exchange Act of 1934 ("Executive Officers"). The Company will take action in accordance with the following:

A. Accounting Restatement Clawback:

Unless a Clawback Exception (as described below) applies, in the event that the Company is required to prepare an accounting restatement due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (an "Accounting Restatement"), the Company will recover from each Executive Officer Incentive-Based Compensation (whether in cash or property) received by an Executive Officer that would not have been so received had the consolidated financial statements that are the subject of such Accounting Restatement been correctly stated.

Recovery hereunder will be computed without regard to any taxes paid, and is limited to excess amounts received by an Executive Officer during the three-year period preceding the date that the Company is required to prepare the Accounting Restatement. If a Clawback Exception applies with respect to an Executive Officer, the Company may forgo such recovery under this Policy from such Executive Officer.

"Incentive-Based Compensation" is defined as any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a financial reporting measure that is determined and presented in accordance with the accounting principles used in preparing the Company's financial statements (and any measures that are derived wholly or in part from such measures, including stock price and total shareholder return). For purposes of clarity, Incentive-Based Compensation includes compensation that is in any plan, other than tax-qualified retirement plans, including long term disability, life insurance, and supplemental executive retirement plans, and any other compensation that is based on such Incentive-Based Compensation, such as earnings accrued on notional amounts of Incentive-Based Compensation contributed to such plans. For Incentive-Based Compensation based on stock price or total shareholder return, where the amount of erroneously awarded Incentive-Based Compensation is not subject to mathematical recalculation directly from the information in an Accounting Restatement, the amount of such excess Incentive-Based Compensation will be based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total shareholder return upon which the Incentive-Based Compensation was received, and the Company will maintain and provide to the Nasdaq Stock Market ("Stock Exchange") documentation of the determination of such reasonable estimate.

Incentive-Based Compensation received by an Executive Officer is recoverable if: (i) it is received after such Executive Officer begins service as an Executive Officer; (ii) such Executive Officer served as an Executive Officer at any time during the performance period for such Incentive-Based Compensation; and (iii) it is received while the Company has a class of securities listed on a national securities exchange or a national securities association.

B. Accounting Restatement Clawback Exceptions; Accounting Restatement Clawback Prohibitions:

The Company is required to recover excess Incentive-Based Compensation received by an Executive Officer as described above in the event of an Accounting Restatement unless (i) at least one of the following conditions is met and (ii) the Company's Compensation Committee has made a determination that recovery would be impracticable in accordance with Rule 10D-1 under the Securities Exchange Act of 1934 (under such circumstances, a "Clawback Exception" applies):

- the direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered (and the Company has already made a reasonable attempt to recover such excess Incentive-Based Compensation from such Executive Officer, has documented such reasonable attempt(s) to recover, and has provided such documentation to the Stock Exchange);
- recovery would violate home country law that was adopted prior to November 28, 2022 (and the Company has already obtained an opinion of home country counsel, acceptable to the Stock Exchange, that recovery would result in such a violation, and provided such opinion to the Stock Exchange); or
- recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the requirements of Section 401(a)(13) or Section 411(a) of the Internal Revenue Code and regulations thereunder. For purposes of clarity, this Clawback Exception only applies to tax-qualified retirement plans and does not apply to other plans, including long term disability, life insurance, and supplemental executive retirement plans, or any other compensation that is based on Incentive-Based Compensation in such plans, such as earnings accrued on notional amounts of Incentive-Based Compensation contributed to such plans.

The Company is prohibited from paying or reimbursing the cost of insurance for, or indemnifying, any Executive Officer against the loss of excess Incentive-Based Compensation.

C. Clawback for Other Conduct:

In addition, in the event the Company's Compensation Committee determines that an Executive Officer has engaged in (i) conduct that violates the Company's Code of Ethics and Business Conduct, or (ii) willful misconduct or fraud that causes harm to the Company, the Company's Board of Directors, upon the Compensation Committee's recommendation, may, to the extent permitted by law and to the extent it determines that it is in the Company's best interests to do so, require reimbursement or payment by the Executive Officer to the Company of an amount determined by the Board of Directors to be attributable to such conduct described in (i) and (ii) above.

Conduct described in this Section C of the Policy shall be considered "Detrimental Conduct." Compensation subject to this Section C of the Policy includes equity-based compensation and performance-based compensation.

In determining whether to recover compensation paid or realized only under this Section C of the Policy, the Board in its discretion may take into account such considerations as it deems appropriate, including whether the assertion of a claim may violate applicable law or prejudice the interest of the Company in any related proceeding or investigation and whether penalties or punishments have been imposed by third parties, such as law enforcement agencies, regulators or other authorities.

The Board may take action under this Section C of the Policy only after recommendation to do so by the Compensation Committee. However, regarding only this Section C of the Policy, the Board has sole and absolute discretion not to take action and its determination not to take action in any particular instance shall not in any way limit the Company's ability to terminate participation of an Executive Officer in a compensation plan or program, or terminate an Executive Officer's employment.

D. Policy Administration and Interpretation; Disclosure:

If any provision of this Policy is determined to be unenforceable or invalid under any applicable law, such provision will be applied to the maximum extent permitted by applicable law, and shall automatically be deemed amended in a manner consistent with its objectives to the extent necessary to conform to any limitations required under applicable law.

Any action taken by the Company under this Policy is without prejudice to any other action the Company may choose to take upon determination that an Executive Officer has engaged in Detrimental Conduct or to all other remedies available to the Company.

Notwithstanding anything in this Policy to the contrary, at all times, this Policy remains subject to interpretation and operation in accordance with the final rules and regulations promulgated by the U.S. Securities and Exchange Commission (the "SEC"), the final listing standards adopted by the Stock Exchange, and any applicable SEC or Stock Exchange guidance or interpretations issued from time to time regarding such Covered Compensation recovery requirements (collectively, the "Final Guidance"). Questions regarding this Policy should be directed to the Company's General Counsel.

This Policy will be administered in accordance with the Final Guidance, and the Compensation Committee will have full and exclusive authority and discretion to supplement, amend, repeal, interpret, terminate, construe, modify, replace and/or enforce (in whole or in part) this Policy, including the authority to correct any defect, supply any omission or reconcile any ambiguity, inconsistency or conflict in the Policy, subject to the Final Guidance. The Compensation Committee will review the Policy from time to time and will have full and exclusive authority to take any action it deems appropriate.

This Policy, and any recovery of excess Incentive-Based Compensation by the Company pursuant to this Policy that is required to be disclosed in the Company's filings with the SEC, will be disclosed as required by the Securities Act of 1933, the Securities Exchange Act of 1934, and related rules and regulations, including the Final Guidance.

E. Acknowledgment and Consent:

Each Executive Officer, upon being so designated or assuming such position, may be required to execute and deliver to the Company's General Counsel an acknowledgment of and consent to this Policy, in a form reasonably acceptable to and provided by the Company from time to time, (i) acknowledging and consenting to be bound by the terms of this Policy, (ii) agreeing to fully cooperate with the Company in connection with any of such Executive Officer's obligations to the Company pursuant to this Policy, and (iii) agreeing that the Company may enforce its rights under this Policy through any and all reasonable means permitted under applicable law as it deems necessary or desirable under this Policy.

DISCLAIMER

THE INFORMATION CONTAINED IN THE REFINITIV CORPORATE DISCLOSURES DELTA REPORT™ IS A COMPARISON OF TWO FINANCIALS PERIODIC REPORTS. THERE MAY BE MATERIAL ERRORS, OMISSIONS, OR INACCURACIES IN THE REPORT INCLUDING THE TEXT AND THE COMPARISON DATA AND TABLES. IN NO WAY DOES REFINITIV OR THE APPLICABLE COMPANY ASSUME ANY RESPONSIBILITY FOR ANY INVESTMENT OR OTHER DECISIONS MADE BASED UPON THE INFORMATION PROVIDED IN THIS REPORT. USERS ARE ADVISED TO REVIEW THE APPLICABLE COMPANY'S ACTUAL SEC FILINGS BEFORE MAKING ANY INVESTMENT OR OTHER DECISIONS.

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