

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 F O R M 6-K REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934 For the month of December 2024 TAT TECHNOLOGIES LTD. (Name of Registrant) Hamelacha 5, Netanya 4250407 Israel (Address of Principal Executive Office) Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F. Form 20-F Form 40-F Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934. Yes No If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82- TAT Technologies Ltd. Explanatory Note TAT Technologies Ltd. (the "Company") hereby furnishes its investors presentation, which is attached to this Form 6-K as Exhibit 99.1 Disclaimer The information contained herein is only a summary, does not exhaust all the information about the Company and its Operations, and does not replace a review of the Company's Periodical and Annual Reports on Form 20-F and in other information which is filed and furnished with the Israel Securities Authority and the U.S. Securities and Exchange Commission. Material information regarding the Company which is included in this slide deck has been published to the public in the past as part of the Company's reporting. That said, the information or data presented may be presented in a different manner and/or segmentation from those previously furnished in the Company's Reports. The presentation does not constitute or form part of any invitation or offer to invest or purchase the Company's securities and in particular does not constitute an "offer to the public" or "sale to the public" of any kind, the presentation is intended solely for the provision of information included in it and does not constitute a recommendation or opinion or a substitute for the judgment of an investor for any kind of decision and does not pretend to include all the information that may be relevant for the purpose of making any decision regarding the investment in the Company's securities and in general. This presentation may include forward-looking information as defined in the Securities Law, 1968 and in the U.S. Private Securities Litigation Reform Act of 1995, including forecasts, goals, business strategy, evaluations and estimates regarding both the Company's activities and the markets in which it operates, as well as any other information, in any form in which it is presented, that relates for future events or matters, the realization of which is uncertain and not under the Company's control. Any forward-looking information is based on current estimates and assumptions, among others, by the Company's management, which, although the Company believes are reasonable, are inherently uncertain and are partially based on subjective estimates. The realization or non-realization of the forward-looking information will be affected and depended on a variety of factors including, including the risk factors which are inherent to the Company's activity, third party decisions, including regulatory authorities and engagements with third parties, as well as by developments in the economic environment and the external factors which impact the Company's activity, which cannot be assessed in advance and are out of the Company's control. Actual results and achievements of the Company in the future may be materially different from those presented in the forward-looking information presented in this presentation. The Company does not undertake to update or change such a forecast or estimate in order to reflect events and/or reasons that will apply after the date of this presentation and does not undertake to update this presentation. 2 Exhibit Index This Report on Form 6-K of TAT Technologies Ltd. consists of the following document, which is attached hereto and incorporated by reference herein: Exhibit

99.1 Investor Presentation 3 SIGNATURE Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereto duly authorized. TAT TECHNOLOGIES LTD. (Registrant) By: /s/ Ehud Ben-Yair Ehud Ben-Yair Chief Financial Officer Date: December 16, 2024 4 Exhibit 99.1

5 INVESTORÂ PRESENTATIONÂ DECÂ 2024Â FORWARD-LOOKING STATEMENTSÂ This presentation may contain certain forward-looking statements withing the meaning of the âœsafe harborâ provisions of the Private Securities Litigation Reform Act of 1995. Generally, the words âœexpectsâ, âœanticipatesâ, âœtargetsâ, âœgoalsâ, âœprojectsâ, âœintendsâ, âœplansâ, âœbelievesâ, âœseeksâ, âœestimatesâ, variations of such works and similar expressions identify forward-looking statements and any statements regarding TATâ's future financial condition, results of operations and business are also forward-looking statements. These forward-looking statements involve certain risks and uncertainties. Factors that could cause actual results to differ materially from those contemplated by the forward-looking statements include, among others, the following factors: continued compliance with government regulations; general economic conditions; and political, economic and military conditions in Israel. Any forward-looking statements in this presentation are not guarantees of future performance, and actual results, developments and business decisions may differ from those contemplated by those forward-looking statements, possibly materially. Except as otherwise required by applicable law, TAT disclaims any duty to update any forward-looking statements. Additional discussions of risks and uncertainties that may affect the accuracy of forward-looking statements included in this presentation or which may otherwise affect TATâ's business is included under the heading âœRISK FACTORSâ in TATâ's filings on Forms 20-F and 6-K, which are filed from time to time.

6 ACRONYM GUIDEÂ OEM : Original Equipment ManufacturerÂ MRO : Maintenance, Repair & OverhaulÂ APU : Auxiliary Power UnitÂ LTA: Long-Term AgreementÂ LG : Landing GearÂ HX : Heat ExchangerÂ TAT is a trusted partner, proactively solving complex aerospace challenges to enable our partners to operate with confidence and achieve operational success across their thermal, APU and landing gear systems.Â Experienced senior management team with significant depth, longevity and industry experience.Â EXPERIENCED AND PROVEN LEADERSHIPÂ TAT Technologies is dually listed on NASDAQ (TATT) and on the Tel Aviv Stock Exchange (Hebrew)Â Main Shareholder: FIMI 26.5%Â AMOS MALKAÂ IGAL ZAMIRÂ EHUD BEN YAIRÂ JASON LEWANDOWSKIÂ CHAIRMAN OF THE BOARDÂ Since 2016Â PRESIDENT & CHIEF EXECUTIVE OFFICERÂ Since 2016Â CHIEF FINANCIAL OFFICERÂ Since 2018Â CHIEF OPERATING OFFICERÂ Since 2022Â Major General (ret.) Former Head of the Israeli Defense Intelligence and Commander of the IDF Ground Forces Command.Â Retired 2002.Â Previous Positions:Â Chairman of the Board, Logic Industries, Ltd.Â Chairman of the Boards, Plasan Sasa, Ltd.Â CEO, Elul Technologies, Ltd.Â Previous Positions:Â President, Mapco ExpressÂ (subsidiary of Delek US Holdings, Inc)Â CEO, Metrolight, Ltd.Â CEO, Rostam, LtdÂ Previous Positions:Â CFO, SHL Telemedicine (SHLTN)Â CFO & Vice CEO, Opgal OptronicsÂ (Subsidiary of Elbit Systems and Rafael)Â CFO, Orad Hi Tech Systems (OHT)Â Previous Positions:Â GM, VP Manufacturing, ProterraÂ Sr. Director Operations, Honeywell AerospaceÂ Surface Warfare

Officer, US NAVY. KEY STRATEGIC PRODUCT SEGMENTS: Thermal Systems & Components. APU OEM & MRO Authorized MRO. Honeywell Landing Gear. Authorized MRO. Gulfstream. Embraer. ATR. Thermal Solutions. Market Leader. MRO & OEM. 60+ years of experience. APU Honeywell Licensee. MRO Partnership with Gulfstream. Landing Gear. MRO Leasing & Trading. Strong presence in APU leasing and parts trading. 10-year exclusive contract with Honeywell. VALUE PROPOSITION: High Growth Rates. Strategic Capabilities. Supporting Future Growth. Strong Demand for Products & Services. Proven Leadership Team. ON AN UPWARD TREND. (\$M) Since Q4 2022. Including Tier 1 aircraft manufacturers, system integrators and airlines. Trusted Partner with 300+ Customers. \$423M Backlog & Long-term Agreements. TAT SUBSTANTIAL OFFERINGS: Thermal components for Environmental Control Systems. THERMAL SOLUTIONS: Thermal components for Galley. THERMAL SOLUTIONS: Thermal components for power electronics. THERMAL SOLUTIONS: Thermal components for fuel inerting system. THERMAL SOLUTIONS: LANDING GEAR: Thermal components for hydraulic systems. THERMAL SOLUTIONS: MRO. APU. MRO. GLOBAL PRESENCE. PRODUCT SEGMENTS: THERMAL SOLUTIONS: OEM Solutions & MRO Services. TAT Technologies delivers end-to-end thermal solutions from design and manufacturing of high-performance OEM certified systems and products for tier 1 aircraft and system manufacturers, to specialized repair and overhaul (MRO) services. For over 70 years, TAT has widely served both U.S. and international airlines and a majority of government Aerospace & Defense contractors. REVENUE (\$M): THERMAL SOLUTIONS POTENTIAL: Short Term. After COVID effect increased demand for flights, together with a slower-than-needed aircraft being built creating a high demand for Aviation MRO services. TAT's close and long-lasting relationship with its client and our multi-product company as an OEM and MRO service provider enables us to gain market share by increasing our value proposition to customers. R&D capabilities as an OEM enable us to participate in bids for new types of engines and aircraft platforms in the future. Long Term. TAT has decades of experience in providing thermal components and solutions for integrators, our knowledge enables us to create a holistic solution as a Thermal System OEM and provider. R&D capabilities and market leading in thermal solutions puts us on the front line for future aviation designs like as electrification of aircraft and eVTOL. APU MRO SERVICES: Maintenance, Repair & Overhaul. REVENUE (\$M): TAT Technologies is an OEM licensed MRO service provider for multiple APU (Auxiliary Power Units) platforms representing over 25,000 aircraft that are still in current production. As an authorized repair facility for Honeywell, the certifications and strategic agreements position us as one of the few licensed providers and creates significant commercial advantages for us to competitively position ourselves in the market. APU POTENTIAL: 331-20X. 331-500. 131. STRATEGIC AGREEMENTS: LANDING GEAR: MRO Services. TAT Technologies delivers MRO services for landing gear systems across multiple aircraft platforms utilized across the commercial airline, business jet and military markets. We maintain strategic agreements and certifications from OEMs that ensure access to a significant portion of the market with ongoing opportunities with these fleet of aircraft. AUTHORIZED: MRO Embraer - eJet 175 aircraft. MRO ATR. 42/72 aircraft. REVENUE (\$M): LANDING GEAR: MRO POTENTIAL: Growing demand for MRO. Full in-house capabilities in MRO. Machining services. Plating services. Resulting in lower cost. TRADING & LEASING: Leasing: TAT holds an inventory of more than 20 APU engines, mainly 331-500 utilized on the Boeing 777 aircraft. This fleet, along with other series of APUs enables us to meet the growing demand of our customers and overcome market shortage for APUs and parts. TRADING: As an MRO service provider, TAT is involved in trading parts such as APU's parts, Heat Exchangers, Landing Gear and other parts across all TAT product lines. This allows us to maintain efficient inventory as well as on going supply of parts needed. REVENUE (\$M): STRATEGIC AGREEMENTS: TRADING & LEASING POTENTIAL: Leasing - In-house capabilities of MRO for APU enable us to refurbish a variety of APUs until as good as new condition and to increase our fleet of leasing APUs. TRADING: as the industry suffers from Supply Chain challenges, our variety of solutions and in-house engineering capabilities, from small components such as Valves and Pumps, through Heat Exchangers (OEM/MRO) to APU and Landing Gear MRO services, gives us a wide market reach to parts to meet industry needs. BACKLOG: LTA & Backlog. LTA ORDERS (\$M): Q3-2024 LTA & BACKLOG: NEW TECHNOLOGIES: Future Drivers: ADDITIVE MANUFACTURING & 3D PRINTING: THERMAL SYSTEMS FOR ELECTRIC: AIRCRAFT & AUTONOMOUS AIRCRAFT: FULL THERMAL SOLUTIONS TO ENGINE HEADS: Q3 2024 RESULTS: Key Indicators: FAST GROWTH TREND: Revenue by Product: PERFORMANCE: Upward Trend Across All Financial Parameters: REVENUE (\$M): GROSS PROFITS & MARGINS: (\$M): OPERATING PROFITS & MARGINS: (\$M): NET INCOME: (\$M): OTHER CAPABILITIES: TAT Technologies has nearly 50 years of experience in the development of fluid controls and accessories for defense and commercial platforms. TAT Technologies provides highly qualified, maintainable and affordable Environmental Control Systems (ECS) for defense applications. TAT Technologies utilizes advanced technologies to repair and recondition engine components for both commercial and military engines as well as ground turbines. TAT Technologies is a one-stop-shop offering a multitude of specialized services for repair, refurbishment or remanufacturing of components. REVENUE (\$M): THANK YOU!