



# 2023

*Nordson Corporation*  
**2023 Annual Report**



## Dear Nordson shareholder,

Our team is focused on making a strong Nordson even stronger in the face of new and ongoing challenges presented by the pandemic, the supply chain, inflation, global conflict and more. Now, as we celebrate our third consecutive year of record sales, I am once again humbled and deeply proud of our team's accomplishments. We have faced each new challenge with resilience, determination and a sharp focus on both our Ascend Strategy and our values, keeping our sights set on profitable growth to make our future brighter.

We launched the Ascend Strategy in 2021 to achieve top-tier margins and returns. The strategy encompasses three interconnected pillars – NBS Next growth framework, Owner Mindset and Winning Teams – with the aim of delivering \$3 billion in sales at a sustained 30%+ EBITDA margin by 2025. We're well on our way toward meeting these targets thanks to the progress we've made within each pillar's focus area in 2023.

NBS Next is a data-driven growth framework that enables each division to identify and invest in the best opportunities for profitable growth. Using the data, our employees have embraced an Owner Mindset, nimbly making decisions as close to the customer as possible. We've seen tremendous progress in this area with teams across Nordson collaborating, sharing ideas and learning from each other. Notably, we're now seeing the next level of maturity in the use of our growth framework in innovation. Our latest generation of products were fully designed from the ground up with deep voice of customer research and NBS Next principles in mind to improve customer experience and operational efficiency. You'll see this in products like our Test and Inspection division's Quadra™ 7 Pro, which is the flagship model of our X-ray machine; and the Nordson Electronics Solutions Select Coat® SL-1040 for adding protective coatings to electronics assemblies.

In the area of Winning Teams, we continue to focus on maintaining a diverse and inclusive organization that embraces new ideas, fresh perspectives and varied life experiences to ensure our collaboration makes us stronger. In addition to our existing Women's Internal Nordson Network and Nordson Black Employees Network, employees launched two new resource groups this year: Minds of All Kinds, focusing on neurodiversity; and Organization for Pride and Equality at Nordson, empowering employees to be their authentic selves at work regardless of gender identity or sexual orientation. We also announced several notable internal promotions and organizational updates.

Joe Kelley moved from Chief Financial Officer to become the Executive Vice President of the Industrial Precision Solutions segment; and Katie Colacarro advanced to the role of Vice President of Corporate Development. Our growth allows us to make Nordson an even better place to work through the creation of new opportunities for career development and advancement.

Our team also has grown through acquisitions, which are a key priority of our capital deployment strategy. Since launching our strategy, we've completed four acquisitions, bringing us about 80% of the way toward our 2025 acquisitive growth target. Our most recent acquisition of ARAG Group was the largest in Nordson's history, introducing us to the exciting growth market of precision agriculture. To enable our future growth, Nordson went to the public debt market in September 2023. As a first-time issuer, we achieved investment-grade ratings from both Moody's and S&P Global. This long-term public debt will provide us the flexibility to execute on the acquisition portion of our capital deployment strategy.

In 2023, we saw momentum accelerating the Ascend Strategy as it delivered results for our employees, customers, communities and investors, despite another year of macro-economic challenges. Our employees have embraced an owner mindset and are making choices that drive us toward our greatest opportunities for profitable growth. It's exciting to see the vision for the future taking shape. The Ascend Strategy is creating a scalable, high-quality earnings growth engine. I'm very pleased with the progress we've made, and I look forward to celebrating each milestone along the way as we continue to grow.

Again, thank you to our shareholders, customers and employees, as we make a strong Nordson even stronger.



Sincerely,

A handwritten signature in black ink that reads "S. Nagarajan" with a stylized flourish at the end.

*Sundaram Nagarajan*  
*President and Chief Executive Officer*

2023

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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

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 of incorporation)

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, 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 was approximately \$12,317,362,580.

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

#### Documents incorporated by reference:

Portions of the Proxy Statement for the 2024 Annual Meeting - 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 66 percent of our revenues were generated outside the United States in 2023.

We have 7,900 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



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 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 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 giving programs in 11 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 to communities where we live and work. In addition, our employees volunteered more than 109,000 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, no single customer accounted for ten percent or more of 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.

- **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.
- **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: 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 solutions for medical, high-tech industrial and other diverse end markets.

- **Medical** – Components used for minimally invasive interventional delivery of medical devices, 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 industrial production processes and for applying and controlling the flow of adhesives, sealants and lubricants. Key strategic markets include electronics, industrial and animal health.

### 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 sources of supply in the United States in Ohio, Georgia, California, Colorado, Connecticut, Illinois, Michigan, Minnesota, Pennsylvania, Rhode Island, Tennessee and Wisconsin; as well as in the People's Republic of China, Germany, Ireland, 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

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 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 a stabilization of the global supply chain and improved lead times. 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 to pre-pandemic levels. 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".

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.

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

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 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.

## **Human Capital Resources**

### ***Employee Profile***

As of October 31, 2023, 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.

### ***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

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. 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 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.

### **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 report.

## **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 profitability of any of our operations.**

In 2023, approximately 34 percent of our revenue was generated in the United States, while approximately 66 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.

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 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 may reduce sales of some of our products. It is not possible to 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, 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 results have been and could continue to be 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. 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 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.

#### **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 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

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.**

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 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 trade policies, may materially and adversely affect our ability to sell our products in foreign markets. The current 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

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 and targeted cybercrime could pose a risk to our systems, networks, products, solutions and services.**

We have experienced and expect to continue to experience cyber-attacks to our systems and networks. To date, we have not experienced any material breaches or material losses related to cyber-attacks. 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. 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. 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 or other disruption may also result in financial loss, including potential fines for failure to safeguard data or losses in connection with any litigation that may result from a cyber-attack. Our insurance coverage may not be adequate to cover all the costs arising from such events.

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 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.

**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. 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



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 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, 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 and profitability could be adversely impacted.**

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

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, we completed our acquisition of the ARAG Group. We intend to continue to seek additional acquisition opportunities both to expand into new 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 the ARAG Group 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 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 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.

## **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.

### **We may be exposed to liabilities under the Foreign Corrupt Practices Act ("FCPA"), which could have a material adverse effect on our business.**

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,

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 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 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 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 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 stakeholders may change and evolve over time. Stakeholders also may have very different views on where environmental, social and governance 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 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 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 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 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, our credit facility providers may not provide the agreed credit if they become undercapitalized.

**Changes in interest rates could adversely affect us.**

Any period of interest rate increases may adversely affect our profitability. As of October 31, 2023, we had \$1,749,305 of total debt outstanding, of which \$553,020 was priced at interest rates that float with the market. A one percentage point increase in the interest rate on the floating rate debt in 2023 would have resulted in approximately \$5,530 of additional 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.

**Our business and operating results 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 financial condition and results of operations.

**Item 1B. Unresolved Staff Comments**

None.

**Item 1C. Cybersecurity**

Not applicable.

**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 were as follows:

<b>Location</b>	<b>Description of Property</b>	<b>Approximate Square Feet</b>
<b>United States</b>		
Amherst, Ohio <sup>1</sup>	A manufacturing, laboratory and office complex	521,000
Norwich, Connecticut <sup>2</sup>	A manufacturing, laboratory and office building	212,000
Carlsbad, California <sup>3</sup>	Three manufacturing and office buildings (leased)	181,000
Duluth, Georgia <sup>1</sup>	A manufacturing, laboratory and office building	176,000
Chippewa Falls, Wisconsin <sup>1</sup>	A manufacturing, warehouse and office building (leased)	145,000
Swainsboro, Georgia <sup>1</sup>	A manufacturing building	136,000
East Providence, Rhode Island <sup>2</sup>	A manufacturing, warehouse and office building	116,000
Loveland, Colorado <sup>2</sup>	A manufacturing, warehouse and office building	115,000
Salem, New Hampshire <sup>2</sup>	Two manufacturing, warehouse and office buildings (leased)	83,000
Minneapolis, Minnesota <sup>2</sup>	Two office, laboratory and warehouse buildings (leased)	69,000
Wixom, Michigan <sup>1</sup>	A manufacturing, warehouse and office building (leased)	64,000
Golden Valley, Minnesota <sup>3</sup>	An office building	61,000
Irwindale, California <sup>1</sup>	An office building and lab (leased)	48,000
Easton, Pennsylvania <sup>3</sup>	A manufacturing, warehouse and office building	45,000
Dayton, Ohio <sup>1</sup>	A manufacturing, warehouse and office building	43,000
Vista, California <sup>3</sup>	A manufacturing building (leased)	41,000
Hickory, North Carolina <sup>1</sup>	A manufacturing, warehouse and office building (leased)	41,000
Elk Grove, Illinois <sup>3</sup>	A manufacturing, warehouse and office building (leased)	40,000
San Jose, CA <sup>2</sup>	A manufacturing, warehouse and office building (leased)	37,000
Westlake, Ohio	Corporate headquarters	28,000
Liberty Lake, Washington <sup>3</sup>	A manufacturing, warehouse and office building (leased)	27,000
Chattanooga, Tennessee <sup>2</sup>	A manufacturing, warehouse and office building (leased)	25,000
Huntington Beach, California <sup>2</sup>	An office, laboratory and warehouse building (leased)	21,000
<b>International</b>		
Rubiera, Italy <sup>1</sup>	A manufacturing, five assembly, four warehouse and office buildings	325,000
Münster, Germany <sup>1</sup>	Two manufacturing, warehouse and office buildings (leased)	260,000
Shanghai, China <sup>1</sup>	Seven manufacturing, warehouse, laboratory and office buildings	178,000
Lüneburg, Germany <sup>1</sup>	A manufacturing and laboratory building	129,000
Guaymas, Mexico <sup>2</sup>	Two manufacturing, warehouse and office buildings (leased)	89,000
Tokyo, Japan <sup>1,2</sup>	Four office, laboratory and warehouse buildings (leased)	76,000
Suzhou, China <sup>3</sup>	Two manufacturing, warehouse and office buildings (leased)	75,000
Tecate, Mexico <sup>2</sup>	A manufacturing, warehouse and office building (leased)	59,000
Bangalore, India <sup>1,2</sup>	A manufacturing, assembly, warehouse and office building	56,000
Rosario, Argentina <sup>1</sup>	An assembly, warehouse and office building	55,000
Maastricht, Netherlands <sup>1</sup>	A manufacturing, warehouse and office building	54,000
Erkrath, Germany <sup>1,2</sup>	An office, laboratory and warehouse building (leased)	50,000
Boyle, Ireland <sup>2</sup>	A manufacturing, warehouse and office building	47,000
Deurne, Netherlands <sup>1</sup>	A manufacturing, warehouse and office building (leased)	46,000
Aylesbury, U.K. <sup>3</sup>	A manufacturing, warehouse and office building (leased)	36,000
Galway, Ireland <sup>2</sup>	An office, laboratory and warehouse building (leased)	36,000
Seongnam-City, South Korea <sup>1,2</sup>	An office, laboratory and warehouse building (leased)	35,000
Geleen, Netherlands <sup>1</sup>	A warehouse and office building	30,000
Sao Paulo, Brazil <sup>1</sup>	An office, laboratory and warehouse building (leased)	23,000
El Marques, Mexico <sup>1</sup>	A warehouse and office building	22,000
Singapore <sup>1</sup>	Two warehouse and office buildings (leased)	22,000
Katzrin, Israel <sup>2</sup>	An office, laboratory and warehouse building (leased)	20,000

## Business Segment - Property Identification Legend

<sup>1</sup> - Industrial Precision Solutions

<sup>2</sup> - Medical Fluid Systems

<sup>3</sup> - 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 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.

## Information About Our Executive Officers

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

<u>Name</u>	<u>Age</u>	<u>Officer Since</u>	<u>Position or Office with the Company and Business Experience During the Past Five (5) Year Period</u>
Sundaram Nagarajan	61	2019	President and Chief Executive Officer, 2019
Stephen Shamrock	51	2023	Vice President and Corporate Controller, Interim Chief Financial Officer, 2023
James E. DeVries	64	2012	Executive Vice President, 2012
Stephen P. Lovass	54	2017	Executive Vice President, 2017
Jennifer McDonough	52	2021	Executive Vice President, General Counsel and Secretary, 2021
Joseph P. Kelley	51	2020	Executive Vice President, 2020
Sarah Siddiqui	46	2023	Executive Vice President, 2023
Srinivas Subramanian	53	2022	Executive Vice President, 2022

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 from 2010 to 2015. Mr. Nagarajan joined the Board of Directors of Wesco International (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, Stephen Shamrock was appointed as Vice President and Corporate Controller, Interim Chief Financial Officer. Prior to joining Nordson in March 2022, Mr. Shamrock was Senior Vice President, Treasurer and Chief Financial Officer from October 2021 to March 2022 and Vice President Finance from April 2021 to October 2021 of Wyandot Snacks, Inc., a custom snack manufacturer. Prior to Wyandot, 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 served in roles of increasing responsibility at The Goodyear Tire & Rubber Company (Nasdaq: GT), and the audit practice of KPMG, LLP.

Effective November 1, 2023, Joseph P. Kelley was appointed as Executive Vice President and Industrial Precision Solutions segment leader. 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 (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, 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 in April 2011, and before that as Assistant General Counsel and Assistant Secretary at Kennametal Inc., 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.

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



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.

## PART II

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

#### Market Information and Dividends

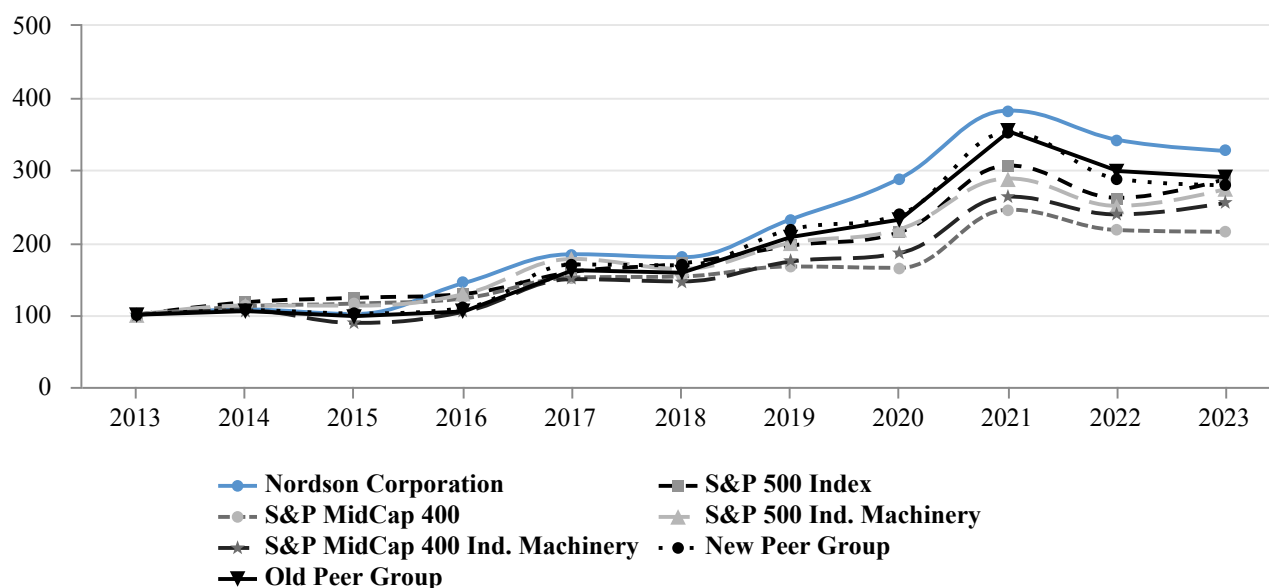
Our common shares are listed on the Nasdaq Global Select Market under the symbol NDSN. As of November 30, 2023, there were 1,132 record shareholders.

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 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, IIT, 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.

Comparison of 10 Year Cumulative Total Return  
Assumes Initial Investment of \$100 on November 1, 2013  
Fiscal Year Ending October 31, 2023



Company/Market/Peer Group	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	\$ 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	\$ 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	\$ 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	\$ 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

Source: Zack's Investment Research

## Common Share Repurchases

<i>(in whole shares)</i>	Total Number of Shares Repurchased <sup>(1)</sup>	Average Price Paid per Share	Total Number of Shares Repurchased as Part of Publicly Announced Plans or Programs <sup>(2)</sup>	Maximum Value of Shares That May Yet Be Purchased Under the Plans or Programs <sup>(2)</sup>
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	<u>45,533</u>		<u>45,285</u>	

<sup>(1)</sup> Includes shares tendered for taxes related to stock option exercises and vesting of restricted stock.

<sup>(2)</sup> 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 of the total \$1,500,000 authorized remained available for share repurchases at October 31, 2023. 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.

## 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. 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") 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, the WACC rates used ranged from 8.3 percent to 11.0 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 2023, 2022 and 2021, 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, our conclusion is that no goodwill was impaired in 2023. Potential events or circumstances, such as a sustained downturn in global economies, could have a negative effect on estimated fair values.

	WACC	Excess of FV over CV	Goodwill
Industrial Precision Solutions Segment - Adhesives	8.3%	697%	\$ 511,799
Industrial Precision Solutions Segment - Industrial Coating Systems	11.0%	678%	\$ 24,084
Advanced Technology Solutions Segment - Electronics Systems	9.0%	387%	\$ 27,534
Advanced Technology Solutions Segment - Test & Inspection	9.5%	168%	\$ 371,425
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 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 6.40 percent 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 3.92 percent 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)

**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

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.

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 Acquisition**

On August 24, 2023, the Company completed the acquisition of the ARAG Group pursuant to the terms of the Sale and Purchase Agreement, dated as of June 25, 2023, by and among the Company 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 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. 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). Based on the fair value of the assets acquired and the liabilities assumed, goodwill of \$694,900 and identifiable intangible assets of \$353,500 were recorded. The identifiable intangible assets consist primarily of \$27,500 of tradenames (amortized over nine years), \$31,000 of technology (amortized over five years), and \$295,000 of customer relationships (amortized over twenty-two years). The financial results of the ARAG Group 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 and October 31, 2022. For a discussion of other changes from the fiscal year ended October 31, 2022 to the fiscal year ended October 31, 2021, 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.

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

#### **2023 compared to 2022**

Worldwide sales for 2023 were \$2,628,632, an increase of 1.5 percent from 2022 sales of \$2,590,278. The increase consisted of a 3.8 percent increase from acquisitions, partially offset by a 1.4 percent decline in organic sales and unfavorable currency translation effects that decreased sales by 0.9 percent.

Sales outside the United States accounted for 66.2 percent of total sales in 2023, as compared to 66.8 percent in 2022. On a geographic basis, sales in the Americas region were \$1,149,760, an increase of 4.8 percent from 2022, with organic sales increasing 2.0 percent, a 2.4 percent increase from acquisitions, and 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 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 percentage point decrease in gross margin was primarily driven by incremental inventory step-up amortization related to acquisitions in 2023 of \$8,862 and unfavorable foreign currency effects.

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 inventory step-up amortization and other costs related to the first-year effect of acquisitions.

Interest expense in 2023 was \$59,505, an increase of \$37,092, or 165.5 percent, from 2022. The increase was due to higher average debt levels and higher average interest rates compared to the prior year primarily driven by 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 was \$597 compared to other income of \$8,527 in 2022. Included in other expense in 2023 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.

Income tax expense in 2023 was \$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. The 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 was \$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. This represented a 5.0 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 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.

### **Liquidity and Capital Resources**

Cash and cash equivalents decreased \$47,778 in 2023 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.

Cash provided by operating activities was \$641,282 in 2023, compared to \$513,131 in 2022. The primary sources 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 and inventory while cash provided 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 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 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.

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 Term Loan Facility in August 2023. 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, we had \$300,000 outstanding on the term loan facility and \$248,000 outstanding on the revolving credit facility compared to no outstanding balance at October 31, 2022 under the old revolving credit facility.

Our operating performance, balance sheet position and financial ratios for 2023 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 provided by operations and borrowings under our loan agreements. 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:

	Payments Due by Period				
	Total	Less than 1 Year	1-3 Years	4-5 Years	After 5 Years
Debt <sup>(1)</sup>	\$ 1,749,305	\$ 115,662	\$ 435,643	\$ 648,000	\$ 550,000
Interest payments on long-term debt <sup>(1)</sup>	416,926	58,526	160,695	81,884	115,821
Finance lease obligations <sup>(2)</sup>	18,349	4,918	6,055	1,633	5,743
Operating leases <sup>(2)</sup>	119,317	16,853	28,441	21,172	52,851
Contributions related to pension and postretirement benefits <sup>(3)</sup>	6,770	6,770	—	—	—
Purchase obligations <sup>(4)</sup>	192,453	187,498	4,943	12	—
<b>Total obligations</b>	<b>\$ 2,503,120</b>	<b>\$ 390,227</b>	<b>\$ 635,777</b>	<b>\$ 752,701</b>	<b>\$ 724,415</b>

(1) 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.



- (3) Pension and postretirement plan funding 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**

There have been no new accounting standards issued which would require either disclosure or adoption during the current period by the Company.

### **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 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 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 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 and CyberOptics; 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 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.

## 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 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.

<b>At October 31, 2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Thereafter</b>	<b>Total Value</b>	<b>Fair Value</b>
Annual repayments of long-term debt	\$110,643	\$85,642	\$50,000	\$10,000	\$390,000	\$550,000	\$1,196,285	\$1,148,356
Average interest rate on total borrowings outstanding during the year	3.6%	3.7%	3.8%	3.2%	5.4%	5.7%	5.1%	
<b>At October 31, 2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>Thereafter</b>	<b>Total Value</b>	<b>Fair Value</b>
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	3.7%	3.8%	3.9%	4.0%	4.0%	4.1%	3.7%	

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

**Item 8. Financial Statements and Supplementary Data**

**Consolidated Statements of Income**

**Years ended October 31, 2023, 2022 and 2021**

*(In thousands except for per-share amounts)*

	<b>2023</b>	<b>2022</b>	<b>2021</b>
<b>Sales</b>	<b>\$ 2,628,632</b>	<b>\$ 2,590,278</b>	<b>\$ 2,362,209</b>
Operating costs and expenses:			
Cost of sales	1,203,227	1,163,742	1,038,129
Selling and administrative expenses	752,644	724,176	708,953
	<b>1,955,871</b>	<b>1,887,918</b>	<b>1,747,082</b>
<b>Operating profit</b>	<b>672,761</b>	<b>702,360</b>	<b>615,127</b>
Other income (expense):			
Interest expense	(59,505)	(22,413)	(25,491)
Interest and investment income	2,680	2,026	2,150
Pension settlement charge for U.S. Plans	—	(41,221)	—
Other - net	(597)	8,527	(17,610)
	<b>(57,422)</b>	<b>(53,081)</b>	<b>(40,951)</b>
<b>Income before income taxes</b>	<b>615,339</b>	<b>649,279</b>	<b>574,176</b>
Income tax expense	127,846	136,176	119,808
<b>Net income</b>	<b>\$ 487,493</b>	<b>\$ 513,103</b>	<b>\$ 454,368</b>
<b>Average common shares</b>	<b>57,090</b>	<b>57,629</b>	<b>58,091</b>
Incremental common shares attributable to equity compensation	541	620	643
<b>Average common shares and common share equivalents</b>	<b>57,631</b>	<b>58,249</b>	<b>58,734</b>
<b>Basic earnings per share</b>	<b>\$ 8.54</b>	<b>\$ 8.90</b>	<b>\$ 7.82</b>
<b>Diluted earnings per share</b>	<b>\$ 8.46</b>	<b>\$ 8.81</b>	<b>\$ 7.74</b>
<b>Dividends declared per common share</b>	<b>\$ 2.63</b>	<b>\$ 2.18</b>	<b>\$ 1.69</b>

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

## Consolidated Statements of Comprehensive Income

Years ended October 31, 2023, 2022 and 2021

(In thousands)

	2023	2022	2021
<b>Net income</b>	<b>\$ 487,493</b>	<b>\$ 513,103</b>	<b>\$ 454,368</b>
Components of other comprehensive income (loss), net of tax:			
Foreign currency translation adjustments	26,766	(126,657)	7,033
Pension and postretirement benefit plans:			
Prior service credit arising during the year	—	—	124
Net actuarial gain (loss) arising during the year	(15,106)	54,065	25,289
Amortization of prior service cost	(34)	(201)	(304)
Amortization of actuarial (gain) loss	(24)	7,575	14,954
Curtailement gain	(2)	1,052	—
Settlement (gain) loss recognized	(259)	32,219	3,187
Total pension and postretirement benefit plans	(15,425)	94,710	43,250
Total other comprehensive income (loss)	11,341	(31,947)	50,283
<b>Total comprehensive income</b>	<b>\$ 498,834</b>	<b>\$ 481,156</b>	<b>\$ 504,651</b>

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

## Consolidated Balance Sheets

**October 31, 2023 and 2022**

*(In thousands)*

### Assets

Current assets:	2023	2022
Cash and cash equivalents	\$ 115,679	\$ 163,457
Receivables - net	590,886	537,313
Inventories - net	454,775	383,398
Prepaid expenses and other current assets	67,970	48,803
<b>Total current assets</b>	<b>1,229,310</b>	<b>1,132,971</b>
Goodwill	2,784,201	1,804,693
Property, plant and equipment - net	392,846	353,442
Intangible assets - net	672,744	329,402
Operating right of use lease assets	106,176	102,279
Deferred income taxes	16,022	10,447
Other assets	50,471	87,141
	<b>\$ 5,251,770</b>	<b>\$ 3,820,375</b>
<b>Liabilities and shareholders' equity</b>		
Current liabilities:		
Current maturities of long - term debt	\$ 115,662	\$ 392,537
Accrued liabilities	199,588	206,828
Accounts payable	106,320	99,276
Customer advance payments	93,389	92,584
Income taxes payable	45,359	22,333
Operating lease liability - current	16,853	15,738
Finance lease liability	4,918	4,907
<b>Total current liabilities</b>	<b>582,089</b>	<b>834,203</b>
Long-term debt	1,621,394	345,320
Operating lease liability - noncurrent	92,412	90,768
Deferred income taxes	210,637	110,781
Postretirement obligations	50,862	56,804
Pension obligations	40,425	40,551
Finance lease liability - noncurrent	11,670	11,184
Other long-term liabilities	44,221	36,389
Shareholders' equity:		
Preferred shares, no par value; 10,000 shares authorized; none issued	—	—
Common shares, no par value; 160,000 shares authorized; 98,023 shares issued at October 31, 2023 and 2022	12,253	12,253
Capital in excess of stated value	668,097	626,697
Retained earnings	3,989,353	3,652,216
Accumulated other comprehensive loss	(196,441)	(207,782)
Common shares in treasury, at cost	(1,875,202)	(1,789,009)
<b>Total shareholders' equity</b>	<b>2,598,060</b>	<b>2,294,375</b>
	<b>\$ 5,251,770</b>	<b>\$ 3,820,375</b>

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

## Consolidated Statements of Shareholders' Equity

Years ended October 31, 2023, 2022  
and 2021

(In thousands, except for per share data)

	Common Shares	Additional Paid-in- Capital	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Common Shares in Treasury, at cost	TOTAL
<b>October 31, 2020</b>	<b>\$ 12,253</b>	<b>\$ 534,684</b>	<b>\$ 2,908,738</b>	<b>\$ (226,118)</b>	<b>\$ (1,470,566)</b>	<b>\$ 1,758,991</b>
Shares issued under company stock and employee benefit plans	—	27,893	—	—	3,887	31,780
Stock-based compensation	—	22,757	—	—	—	22,757
Purchase of treasury shares	—	—	—	—	(60,970)	(60,970)
Dividends declared (\$1.69 per share)	—	—	(97,683)	—	—	(97,683)
Net income	—	—	454,368	—	—	454,368
Impact of adoption of ASU 2016-13	—	—	(396)	—	—	(396)
Other comprehensive income (loss):						
Foreign currency translation adjustments	—	—	—	7,033	—	7,033
Defined benefit pension and post-retirement plans adjustment	—	—	—	43,250	—	43,250
<b>October 31, 2021</b>	<b>\$ 12,253</b>	<b>\$ 585,334</b>	<b>\$ 3,265,027</b>	<b>\$ (175,835)</b>	<b>\$ (1,527,649)</b>	<b>\$ 2,159,130</b>
Shares issued under company stock and employee benefit plans	—	10,615	—	—	1,509	12,124
Stock-based compensation	—	30,748	—	—	—	30,748
Purchase of treasury shares	—	—	—	—	(262,869)	(262,869)
Dividends declared (\$2.18 per share)	—	—	(125,914)	—	—	(125,914)
Net income	—	—	513,103	—	—	513,103
Other comprehensive income (loss):						
Foreign currency translation adjustments	—	—	—	(126,657)	—	(126,657)
Pension plan settlement adjustment	—	—	—	33,271	—	33,271
Defined benefit pension and post-retirement plans adjustment	—	—	—	61,439	—	61,439
<b>October 31, 2022</b>	<b>\$ 12,253</b>	<b>\$ 626,697</b>	<b>\$ 3,652,216</b>	<b>\$ (207,782)</b>	<b>\$ (1,789,009)</b>	<b>\$ 2,294,375</b>
Shares issued under company stock and employee benefit plans	—	17,858	—	—	3,515	21,373
Stock-based compensation	—	23,542	—	—	—	23,542
Purchase of treasury shares	—	—	—	—	(89,708)	(89,708)
Dividends declared (\$2.63 per share)	—	—	(150,356)	—	—	(150,356)
Net income	—	—	487,493	—	—	487,493
Other comprehensive income (loss):						
Foreign currency translation adjustments	—	—	—	26,766	—	26,766
Defined benefit pension and post-retirement plans adjustment	—	—	—	(15,425)	—	(15,425)
<b>October 31, 2023</b>	<b>\$ 12,253</b>	<b>\$ 668,097</b>	<b>\$ 3,989,353</b>	<b>\$ (196,441)</b>	<b>\$ (1,875,202)</b>	<b>\$ 2,598,060</b>

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

## Consolidated Statements of Cash Flows

Years ended October 31, 2023, 2022 and 2021

(In thousands)

Cash flows from operating activities:	2023	2022	2021
Net income	\$ 487,493	\$ 513,103	\$ 454,368
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation	52,179	49,098	53,332
Amortization	59,719	50,825	50,551
Provision for losses on receivables	283	1,259	32
Deferred income taxes	(16,116)	(10,732)	4,071
Non-cash stock compensation	22,710	30,748	22,757
Loss (gain) on sale of property, plant and equipment	1,092	(581)	589
Pension settlement charge for U.S. Plans	—	41,221	—
Other non-cash	8,136	1,259	4,907
Changes in operating assets and liabilities:			
Receivables	18,185	(72,907)	(13,720)
Inventories	22,418	(69,132)	(50,584)
Prepaid expenses	(14,677)	(1,708)	(5,209)
Accounts payable	(15,820)	10,671	20,769
Income taxes payable	17,722	6,155	8,659
Accrued liabilities	(28,620)	925	32,929
Customer advance payments	(2,779)	18,682	36,167
Other	29,357	(55,755)	(73,691)
Net cash provided by operating activities	641,282	513,131	545,927
<b>Cash flows from investing activities:</b>			
Additions to property, plant and equipment	(34,583)	(51,428)	(38,303)
Proceeds from sale of property, plant and equipment	101	280	163
Acquisition of businesses, net of cash acquired	(1,422,780)	(171,613)	—
Other	20,383	—	4,971
Net cash used in investing activities	(1,436,879)	(222,761)	(33,169)
<b>Cash flows from financing activities:</b>			
Proceeds from long-term debt	2,178,596	63,067	9,414
Repayment of long-term debt	(1,202,553)	(96,975)	(298,830)
Repayment of capital lease obligations	(6,840)	(5,439)	(6,624)
Issuance of common shares	21,373	12,124	31,780
Purchase of treasury shares	(89,708)	(262,869)	(60,970)
Dividends paid	(150,356)	(125,914)	(97,683)
Net cash provided (used) in financing activities	750,512	(416,006)	(422,913)
<b>Effect of exchange rate changes on cash</b>	<b>(2,693)</b>	<b>(10,879)</b>	<b>1,834</b>
<b>Increase (decrease) in cash and cash equivalents</b>	<b>(47,778)</b>	<b>(136,515)</b>	<b>91,679</b>
<b>Cash and cash equivalents at beginning of year</b>	<b>163,457</b>	<b>299,972</b>	<b>208,293</b>
<b>Cash and cash equivalents at end of year</b>	<b>\$ 115,679</b>	<b>\$ 163,457</b>	<b>\$ 299,972</b>

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

## 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 undelivered items is deferred and included within Accrued liabilities in our Consolidated Balance Sheets. Revenues deferred as of October 31, 2023 and 2022 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 or 2022. Revenue recognized over time represented approximately less than ten percent of our overall consolidated revenues at October 31, 2023 or 2022.

Revenue is measured as the amount of consideration we expect to receive 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 for details on our operating segments.



## 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 \$7,635, \$7,028 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 \$71,400, \$52,531 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 shares were excluded from the diluted earnings per share calculation in 2023 and 78 and 46 options were excluded from the calculation of diluted earnings per share in 2022 and 2021, 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 \$10,015 and \$8,218 at October 31, 2023 and October 31, 2022, respectively. The provision for losses on receivables was \$283 for the twelve months ended October 31, 2023 compared to \$1,259 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

## 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.

**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 2023, 2022 or 2021.

**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.

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.

## Notes to Consolidated Financial Statements — (Continued)

At October 31, 2023, 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 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), 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).

**Accumulated other comprehensive loss** — Accumulated other comprehensive loss at October 31, 2023 and 2022 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)
Currency translation losses	26,766	—	26,766
<b>Balance at October 31, 2023</b>	<b>\$ (133,280)</b>	<b>\$ (63,161)</b>	<b>\$ (196,441)</b>

**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 and 2022:

	2023	2022
Balance at beginning of year	\$ 11,723	\$ 11,113
Accruals for warranties	20,910	17,188
Warranty payments	(16,171)	(14,609)
Currency adjustments	(2,061)	(1,969)
Balance at end of year	<b>\$ 14,401</b>	<b>\$ 11,723</b>

### Note 2 — Recently issued accounting standards

There have been no new material accounting standards issued which would require either disclosure or adoption during the current period.

### 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.

## Notes to Consolidated Financial Statements — (Continued)

### 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 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 9 for additional details). Based on the fair value of the assets acquired and the liabilities assumed, goodwill of \$694,900 and identifiable intangible assets of \$353,500 were recorded. The identifiable intangible assets consist primarily of \$27,500 of tradenames (amortized over nine years), \$31,000 of technology (amortized over five years), and \$295,000 of customer relationships (amortized over twenty-two years). Goodwill associated with the acquisition was not tax deductible. As of October 31, 2023, the purchase price allocation remains preliminary as we complete our assessment principally of income taxes. 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:

	<b>August 24, 2023</b>
Cash	\$ 32,966
Receivables - net	29,765
Inventories - net	54,389
Goodwill	694,900
Intangibles	353,500
Other assets	50,379
Total Assets	\$ 1,215,899
Accounts payable	\$ 18,915
Deferred income taxes	103,157
Other liabilities	15,924
Total Liabilities	\$ 137,996

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, the purchase price allocation is final. The results of CyberOptics are not material to our Consolidated Financial Statements.

## Notes to Consolidated Financial Statements — (Continued)

The assets and liabilities acquired were as follows:

	<b>November 3, 2022</b>
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 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 results of NDC are not material to our Consolidated Financial Statements.

**Notes to Consolidated Financial Statements — (Continued)**

**Note 4 — Details of Consolidated Balance Sheet**

	<u>2023</u>	<u>2022</u>
Receivables:		
Accounts	\$ 558,393	\$ 510,300
Notes	662	417
Other	41,845	34,814
	<u>600,901</u>	<u>545,531</u>
Allowance for doubtful accounts	(10,015)	(8,218)
	<u>\$ 590,886</u>	<u>\$ 537,313</u>
Inventories:		
Finished goods	\$ 233,552	\$ 218,491
Raw materials and component parts	211,874	157,447
Work-in-process	86,474	53,195
	<u>531,900</u>	<u>429,133</u>
Obsolescence and other reserves	(77,125)	(45,735)
	<u>\$ 454,775</u>	<u>\$ 383,398</u>
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
	<u>970,630</u>	<u>902,541</u>
Accumulated depreciation	(577,784)	(549,099)
	<u>\$ 392,846</u>	<u>\$ 353,442</u>
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
	<u>\$ 199,588</u>	<u>\$ 206,828</u>

## 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") 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 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 2023, 2022 and 2021, the fair value of each reporting unit exceeded its carrying value, and accordingly, we did not record any goodwill impairment charges in 2023, 2022 or 2021.

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 by operating segment:

	<b>Industrial Precision Solutions</b>	<b>Medical Fluid Systems</b>	<b>Advanced Technology Systems</b>	<b>Total</b>
Balance at October 31, 2022	\$ 520,236	\$ 1,172,069	\$ 112,388	\$ 1,804,693
Acquisitions	694,900	—	285,330	980,230
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>

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

## Notes to Consolidated Financial Statements — (Continued)

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

	<b>Industrial Precision Solutions</b>	<b>Medical Fluid Systems</b>	<b>Advanced Technology Systems</b>	<b>Total</b>
Balance at October 31, 2021	\$ 415,020	\$ 1,176,149	\$ 121,979	\$ 1,713,148
Acquisitions	131,129	—	—	131,129
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>

The increase in goodwill for 2022 was due to the acquisition of NDC. See Note 3 for additional details.

Information regarding intangible assets subject to amortization:

	<b>October 31, 2023</b>		
	<b>Carrying Amount</b>	<b>Accumulated Amortization</b>	<b>Net Book Value</b>
Customer relationships	\$ 794,706	\$ 287,585	\$ 507,121
Patent/technology costs	204,905	112,994	91,911
Trade names	125,692	52,488	73,204
Noncompete agreements	10,028	9,521	507
Other	182	181	1
Total	<u>\$ 1,135,513</u>	<u>\$ 462,769</u>	<u>\$ 672,744</u>

	<b>October 31, 2022</b>		
	<b>Carrying Amount</b>	<b>Accumulated Amortization</b>	<b>Net Book Value</b>
Customer relationships	\$ 480,058	\$ 250,798	\$ 229,260
Patent/technology costs	157,549	96,426	61,123
Trade names	82,759	44,707	38,052
Noncompete agreements	10,253	9,290	963
Other	446	442	4
Total	<u>\$ 731,065</u>	<u>\$ 401,663</u>	<u>\$ 329,402</u>

Amortization expense for 2023, 2022 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.

Estimated amortization expense for each of the five succeeding years:

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

### 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 2023, 2022 and 2021 was approximately \$29,511, \$26,635 and \$22,983, respectively.

**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



## 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 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 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
Change in benefit obligation:				
Benefit obligation at beginning of year	\$ 303,520	\$ 627,271	\$ 60,880	\$ 106,049
Service cost	10,973	16,820	1,096	1,693
Interest cost	16,699	14,486	2,513	1,105
Participant contributions	—	—	79	72
Settlements	(1,499)	(171,181)	(607)	(1,446)
Curtailments	—	(2,715)	(2)	(705)
Foreign currency exchange rate change	—	—	3,566	(14,291)
Actuarial (gain) loss	(4,120)	(165,697)	(2,361)	(29,414)
Benefits paid	(6,387)	(15,464)	(2,351)	(2,183)
Benefit obligation at end of year	<u>\$ 319,186</u>	<u>\$ 303,520</u>	<u>\$ 62,813</u>	<u>\$ 60,880</u>
Change in plan assets:				
Beginning fair value of plan assets	\$ 333,851	\$ 639,589	\$ 38,316	\$ 47,274
Actual return on plan assets	(6,307)	(121,912)	117	301
Company contributions	2,018	2,819	2,429	2,381
Participant contributions	—	—	79	72
Settlements	(1,499)	(171,181)	(607)	(1,446)
Foreign currency exchange rate change	—	—	1,880	(8,083)
Benefits paid	(6,387)	(15,464)	(2,351)	(2,183)
Ending fair value of plan assets	<u>\$ 321,676</u>	<u>\$ 333,851</u>	<u>\$ 39,863</u>	<u>\$ 38,316</u>
Funded status at end of year	<u>\$ 2,490</u>	<u>\$ 30,331</u>	<u>\$ (22,950)</u>	<u>\$ (22,564)</u>
Amounts recognized in financial statements:				
Noncurrent asset	\$ 11,473	\$ 41,548	\$ 9,991	\$ 7,588
Accrued benefit liability	(1,494)	(813)	(5)	(5)
Long-term pension obligations	(7,489)	(10,404)	(32,936)	(30,147)
Total amount recognized in financial statements	<u>\$ 2,490</u>	<u>\$ 30,331</u>	<u>\$ (22,950)</u>	<u>\$ (22,564)</u>

The net 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.

## Notes to Consolidated Financial Statements — (Continued)

Amounts recognized in accumulated other comprehensive loss (income):

	United States		International	
	2023	2022	2023	2022
Net actuarial loss (gain)	\$ 102,506	\$ 74,293	\$ (3,122)	\$ (2,280)
Prior service cost (credit)	—	—	(91)	(133)
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	
	2023	2022	2023	2022
Balance at beginning of year	\$ 74,293	\$ 142,118	\$ (2,413)	\$ 28,736
Net loss (gain) arising during the year	28,303	(16,010)	(943)	(28,234)
Net (gain) recognized during the year	—	(7,504)	(79)	(2,278)
Prior service adjustment recognized during the year	—	(48)	50	104
Settlement (gain) loss	(90)	(41,548)	425	29
Curtailement (gain) loss	—	(2,715)	2	1,406
Exchange rate effect during the year	—	—	(255)	(2,176)
Balance at end of year	\$ 102,506	\$ 74,293	\$ (3,213)	\$ (2,413)

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:				
Accumulated benefit obligation	\$ 8,703	\$ 10,555	\$ 36,413	\$ 32,514
Fair value of plan assets	—	—	5,115	4,724
For plans with projected benefit obligation in excess of plan assets:				
Projected benefit obligation	8,983	11,217	38,039	34,931
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
Service cost	\$ 10,973	\$ 16,820	\$ 22,555	\$ 1,096	\$ 1,693	\$ 2,120
Interest cost	16,699	14,486	13,652	2,513	1,105	887
Expected return on plan assets	(26,116)	(27,776)	(28,410)	(1,532)	(1,430)	(1,585)
Amortization of prior service credit	—	48	(64)	(50)	(104)	(303)
Amortization of net actuarial loss	—	7,504	14,885	79	2,278	3,144
Settlement loss (gain)	90	41,548	4,111	(425)	(29)	32
Curtailement gain	—	—	—	(2)	(2,112)	—
Total benefit cost	\$ 1,646	\$ 52,630	\$ 26,729	\$ 1,679	\$ 1,401	\$ 4,295

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 settlement losses 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.

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.

## Notes to Consolidated Financial Statements — (Continued)

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

	<u>United States</u>			<u>International</u>		
	<u>2023</u>	<u>2022</u>	<u>2021</u>	<u>2023</u>	<u>2022</u>	<u>2021</u>
Assumptions used to determine benefit obligations at October 31:						
Discount rate	<b>6.08 %</b>	5.70 %	3.02 %	<b>4.35 %</b>	3.78 %	1.30 %
Rate of compensation increase	<b>3.92</b>	4.30	4.00	<b>2.96</b>	3.44	2.90
Assumptions used to determine net benefit costs for the years ended October 31:						
Discount rate - benefit obligation	<b>5.70</b>	3.02	2.85	<b>3.78</b>	1.30	1.01
Discount rate - service cost	<b>5.89</b>	3.42	3.30	<b>2.88</b>	1.14	0.93
Discount rate - interest cost	<b>5.37</b>	2.35	2.10	<b>3.85</b>	1.37	0.80
Expected return on plan assets	<b>6.40</b>	5.75	5.75	<b>3.75</b>	3.29	3.31
Rate of compensation increase	<b>3.87</b>	4.00	4.00	<b>3.44</b>	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 2023, 2022 and 2021 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%, 0.60% 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 and 2022 is as follows:

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

## 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, 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 by asset category are in the table below:

	United States				International			
	Total	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3
Cash	\$ 355	\$ 355	\$ —	\$ —	\$ 777	\$ 777	\$ —	\$ —
Money market funds	251	251	—	—	—	—	—	—
Equity securities:								
Basic materials	632	632	—	—	—	—	—	—
Consumer goods	1,614	1,614	—	—	—	—	—	—
Financial	1,787	1,787	—	—	—	—	—	—
Healthcare	1,368	1,368	—	—	—	—	—	—
Industrial goods	1,403	1,403	—	—	—	—	—	—
Technology	1,732	1,732	—	—	—	—	—	—
Fixed income securities:								
U.S. Government	42,269	753	41,516	—	—	—	—	—
Corporate	94,650	—	94,650	—	—	—	—	—
Other	2,640	—	2,640	—	—	—	—	—
Other types of investments:								
Insurance contracts	—	—	—	—	12,224	—	—	12,224
Other	2,092	2,092	—	—	—	—	—	—
Total investments in the fair value hierarchy	<u>\$150,793</u>	<u>\$11,987</u>	<u>\$138,806</u>	<u>\$ —</u>	<u>\$ 13,001</u>	<u>\$ 777</u>	<u>\$ —</u>	<u>\$12,224</u>
Investments measured at Net Asset Value:								
Real estate collective funds	42,780				—			
Pooled investment funds	128,103				26,862			
Total Investments at Fair Value	<u>\$321,676</u>				<u>\$ 39,863</u>			

## Notes to Consolidated Financial Statements — (Continued)

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

	United States				International			
	Total	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3
Cash	\$ 381	\$ 381	\$ —	\$ —	\$ 775	\$ 775	\$ —	\$ —
Money market funds	155	155	—	—	—	—	—	—
Equity securities:								
Basic materials	719	719	—	—	—	—	—	—
Consumer goods	1,802	1,802	—	—	—	—	—	—
Financial	1,489	1,489	—	—	—	—	—	—
Healthcare	1,801	1,801	—	—	—	—	—	—
Industrial goods	1,713	1,713	—	—	—	—	—	—
Technology	1,569	1,569	—	—	—	—	—	—
Fixed income securities:								
U.S. Government	29,252	328	28,924	—	—	—	—	—
Corporate	109,433	—	109,433	—	—	—	—	—
Other	2,964	—	2,964	—	—	—	—	—
Other types of investments:								
Insurance contracts	—	—	—	—	18,066	—	—	18,066
Other	1,474	1,474	—	—	—	—	—	—
Total investments in the fair value hierarchy	<u>\$152,752</u>	<u>\$11,431</u>	<u>\$141,321</u>	<u>\$ —</u>	<u>\$ 18,841</u>	<u>\$ 775</u>	<u>\$ —</u>	<u>\$18,066</u>
Investments measured at Net Asset Value:								
Real estate collective funds	51,961				—			
Pooled investment funds	129,138				19,475			
Total Investments at Fair Value	<u>\$333,851</u>				<u>\$ 38,316</u>			

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. 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 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.

**Notes to Consolidated Financial Statements — (Continued)**

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

	<b>Fair Value Measurements Using Significant Unobservable Inputs (Level 3)</b>	
	<b>Insurance contracts</b>	
Beginning balance at October 31, 2022	\$	18,066
Actual return on plan assets:		
Purchases		1,320
Sales		(8,007)
Settlements		(607)
Unrealized losses		266
Foreign currency translation		1,186
Ending balance at October 31, 2023	<u>\$</u>	<u>12,224</u>

	<b>Fair Value Measurements Using Significant Unobservable Inputs (Level 3)</b>	
	<b>Insurance contracts</b>	
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	<u>\$</u>	<u>18,066</u>

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

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

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

**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.

**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 is as follows:

	<b>United States</b>		<b>International</b>	
	<b>2023</b>	<b>2022</b>	<b>2023</b>	<b>2022</b>
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>

	<b>United States</b>		<b>International</b>	
	<b>2023</b>	<b>2022</b>	<b>2023</b>	<b>2022</b>
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>

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

	<b>United States</b>		<b>International</b>	
	<b>2023</b>	<b>2022</b>	<b>2023</b>	<b>2022</b>
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>

## Notes to Consolidated Financial Statements — (Continued)

Net postretirement benefit costs include the following components:

	United States			International		
	2023	2022	2021	2023	2022	2021
Service cost	\$ 399	\$ 687	\$ 778	\$ 5	\$ 12	\$ 15
Interest cost	3,063	1,923	1,805	11	12	12
Amortization of prior service credit	—	—	—	—	—	—
Amortization of net actuarial (gain) loss	—	978	1,359	(62)	(48)	(41)
<b>Total benefit cost (credit)</b>	<b>\$ 3,462</b>	<b>\$ 3,588</b>	<b>\$ 3,942</b>	<b>\$ (46)</b>	<b>\$ (24)</b>	<b>\$ (14)</b>

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

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:						
Discount rate	6.02 %	5.59 %	2.98 %	5.63 %	5.41 %	3.43 %
Health care cost trend rate	3.40	3.50	3.34	4.86	4.65	4.43
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	2032	2032	2031	2040	2040	2040
Assumption used to determine net benefit costs for the years ended October 31:						
Discount rate benefit obligation	5.59 %	2.98 %	2.84 %	5.41 %	3.43 %	2.94 %
Discount rate service cost	6.00	3.55	3.44	5.41	3.48	3.00
Discount rate interest cost	5.22	2.30	2.08	5.38	3.13	2.60

The weighted average health care trend rates reflect expected increases in the Company's portion of the obligation.

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 are estimated to be approximately \$2,808.

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

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



**Notes to Consolidated Financial Statements — (Continued)**

**Note 7 — Income taxes**

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

	<u>2023</u>	<u>2022</u>	<u>2021</u>
Income before income taxes:			
Domestic	\$ 269,934	\$ 302,549	\$ 279,701
Foreign	345,405	346,730	294,475
Total income before income taxes	<u>\$ 615,339</u>	<u>\$ 649,279</u>	<u>\$ 574,176</u>
Current:			
U.S. federal	\$ 54,157	\$ 59,639	\$ 40,879
State and local	285	7,535	4,429
Foreign	89,520	79,734	70,429
Total current	<u>143,962</u>	<u>146,908</u>	<u>115,737</u>
Deferred:			
U.S. federal	(9,119)	(9,408)	6,371
State and local	(1,279)	(596)	1,470
Foreign	(5,718)	(728)	(3,770)
Total deferred	<u>(16,116)</u>	<u>(10,732)</u>	<u>4,071</u>
	<u>\$ 127,846</u>	<u>\$ 136,176</u>	<u>\$ 119,808</u>

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

	<u>2023</u>	<u>2022</u>	<u>2021</u>
Statutory federal income tax rate	21.00 %	21.00 %	21.00 %
Share-based and other compensation	(0.25)	0.26	(0.30)
Foreign tax rate variances	1.83	0.95	0.84
State and local taxes, net of federal income tax benefit	(0.13)	0.84	0.81
Foreign-Derived Intangible Income Deduction	(2.24)	(1.59)	(1.19)
Global Intangible Low-Taxed Income net of foreign tax credits	0.71	0.23	0.44
Other – net	(0.14)	(0.72)	(0.73)
Effective tax rate	<u>20.78 %</u>	<u>20.97 %</u>	<u>20.87 %</u>

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 \$1,533,889 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 and 2022, total unrecognized tax benefits were \$8,002 and \$2,872, respectively. The amounts that, if recognized, would impact the effective tax rate were \$4,497 and \$2,769 at October 31, 2023 and 2022, respectively. During 2023, 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.

## Notes to Consolidated Financial Statements — (Continued)

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

	2023	2022	2021
Gross balance at beginning of year	\$ 2,872	\$ 3,720	\$ 6,717
Additions based on tax positions related to the current year	410	310	370
Additions for tax positions of prior years	10	—	—
Increases related to acquired businesses	6,602	—	—
Reductions for tax positions of prior years	—	(70)	(350)
Lapse of statute of limitations	(1,892)	(1,088)	(3,017)
Gross balance at end of year	<u>\$ 8,002</u>	<u>\$ 2,872</u>	<u>\$ 3,720</u>

At October 31, 2023 and 2022, we had accrued interest and penalty expense related to unrecognized tax benefits of \$401 and \$541, 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 through 2023; years prior to 2020 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. 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
Deferred tax assets:		
Lease Liabilities	\$ 26,678	\$ 28,413
Employee benefits	26,680	22,079
Tax credit and loss carryforwards	28,667	11,336
Other accruals not currently deductible for taxes	8,944	15,616
Inventory adjustments	5,932	6,423
Total deferred tax assets	96,901	83,867
Valuation allowance	(23,732)	(10,130)
Total deferred tax assets	73,169	73,737
Deferred tax liabilities:		
Depreciation and amortization	238,210	145,285
Lease right-of-use assets	25,925	27,548
Other - net	3,649	1,238
Total deferred tax liabilities	267,784	174,071
Net deferred tax liabilities	<u>\$ (194,615)</u>	<u>\$ (100,334)</u>

At October 31, 2023, we had \$19,299 of tax credit carryforwards, \$11,831 of which expires in 2028-2033 and \$7,468 of which has an indefinite carryforward period. We also had \$35,906 of state operating loss carryforwards, \$36,850 of foreign operating loss carryforwards, and a \$3,570 capital loss carryforward, of which \$52,330 will expire in 2024 through 2038, and \$23,997 of which has an indefinite carryforward period. The net change in the valuation allowance was an increase of \$13,602 in 2023 and a decrease of \$4,011 in 2022. The valuation allowance of \$23,732 at October 31, 2023, 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.

**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)	(5,019)	—
Unused bank lines of credit	<u>\$ 109,445</u>	<u>\$ 61,213</u>

**Note 9 — Long-term debt**

A summary of long-term debt is as follows:

	2023	2022
Notes Payable	\$ 5,019	\$ —
Revolving credit agreement, due 2028	248,000	—
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
Euro loan, due 2023	—	261,893
5.600% Notes due 2028	350,000	—
5.800% Notes due 2033	500,000	—
	<u>1,749,305</u>	<u>738,822</u>
Less current maturities	115,662	392,537
Less unamortized debt issuance costs	10,773	965
Less bond discounts	1,476	—
Long-term maturities	<u>\$ 1,621,394</u>	<u>\$ 345,320</u>

**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 with SOFR, EURIBOR, SONIA and TIBOR 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"). The Company borrowed and has outstanding \$300,000 on the Term Loan Facility and \$248,000 on the Revolving Facility as of October 31, 2023. 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, 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 was 6.27%.

**Senior notes, due 2023-2025** — 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. The weighted-average interest rate at October 31, 2023 was 3.10 percent.

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

## Notes to Consolidated Financial Statements — (Continued)

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

We were in compliance with all covenants at October 31, 2023 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, are as follows: \$115,662 in 2024; \$85,643 in 2025; \$350,000 in 2026; \$10,000 in 2027 and \$638,000 in 2028.

### Note 10 — 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, 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
Amortization of right of use assets	\$ 5,926		\$ 6,388	
Interest	357		374	
Lease cost <sup>(1)</sup>	6,283	\$ 19,662	6,762	\$ 20,354
Short-term and variable lease cost <sup>(1)</sup>	2,338	1,989	1,876	1,611
<b>Total lease cost</b>	<b>\$ 8,621</b>	<b>\$ 21,651</b>	<b>\$ 8,638</b>	<b>\$ 21,965</b>

<sup>(1)</sup> 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:

	Finance Leases	Operating Leases
Cash outflows for leases	\$ 6,840	\$ 19,783
Weighted average remaining lease term (years)	7.39	8.76
Weighted average discount rate	2.85%	1.97%

## 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. The reconciliation excludes short-term leases that are not recognized on the Consolidated Balance Sheet.

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

Rental expense for operating leases during the fiscal years ended October 31, 2023, 2022 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, 2023 and October 31, 2022 was \$16,310 and \$15,176, respectively.

### Note 11 — 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, 2023	Total	Level 1	Level 2	Level 3
Assets:				
Foreign currency forward contracts <sup>(a)</sup>	\$ 696	\$ —	\$ 696	\$ —
Net investment contracts <sup>(b)</sup>	13,713	—	13,713	—
Total assets at fair value	<u>\$ 14,409</u>	<u>\$ —</u>	<u>\$ 14,409</u>	<u>\$ —</u>
Liabilities:				
Deferred compensation plans <sup>(c)</sup>	\$ 9,637	\$ —	\$ 9,637	\$ —
Net investment contracts <sup>(b)</sup>	9,985	—	9,985	—
Foreign currency forward contracts <sup>(a)</sup>	10,425	—	10,425	—
Total liabilities at fair value	<u>\$ 30,047</u>	<u>\$ —</u>	<u>\$ 30,047</u>	<u>\$ —</u>
October 31, 2022	Total	Level 1	Level 2	Level 3
Assets:				
Foreign currency forward contracts <sup>(a)</sup>	\$ 5,035	\$ —	\$ 5,035	\$ —
Total assets at fair value	<u>\$ 5,035</u>	<u>\$ —</u>	<u>\$ 5,035</u>	<u>\$ —</u>
Liabilities:				
Deferred compensation plans <sup>(c)</sup>	\$ 9,076	\$ —	\$ 9,076	\$ —
Foreign currency forward contracts <sup>(a)</sup>	11,724	—	11,724	—
Total liabilities at fair value	<u>\$ 20,800</u>	<u>\$ —</u>	<u>\$ 20,800</u>	<u>\$ —</u>

(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.

## 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 notional amount of our net investment hedge contracts as of October 31, 2023 was \$801,857.
- (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	
	Carrying Amount	Fair Value	Carrying Amount	Fair Value
Long-term debt (including current portion)	\$ 1,732,037	\$ 1,699,187	\$ 737,857	\$ 714,286

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.

### Note 12 — 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 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.

## Notes to Consolidated Financial Statements — (Continued)

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

	Notional Amounts	
	Sell	Buy
<b>October 31, 2023 contract amounts:</b>		
Euro	\$ 107,056	\$ 53,919
Pound sterling	17,449	163,116
Japanese yen	18,858	22,088
Mexican peso	45	26,063
Hong Kong dollar	1,509	8,943
Singapore dollar	448	20,126
Australian dollar	—	9,112
Taiwan dollar	—	8,000
Other	14,518	79,814
Total	<u>\$ 159,883</u>	<u>\$ 391,181</u>
<b>October 31, 2022 contract amounts:</b>		
Euro	\$ 85,879	\$ 337,530
Pound sterling	31,361	101,960
Japanese yen	12,849	33,210
Mexican peso	9,802	26,509
Hong Kong dollar	5,174	73,953
Singapore dollar	411	18,817
Australian dollar	327	9,163
Taiwan Dollar	—	24,047
Other	4,327	60,104
Total	<u>\$ 150,130</u>	<u>\$ 685,293</u>

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 and 2022, there were no significant concentrations of credit risk.

### *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, the Company designated €180,000 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 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 and Chinese Yuan which were designated as a 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 gain of \$10,165, net of tax, was recorded in 2023.

## 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:

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

### Note 13 — Capital shares

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

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

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

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

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

### Note 14 — 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, a total of 2,009 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 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 \$6,655, \$7,265 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:

	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	80	\$ 239.44		
Exercised	(193)	\$ 113.10		
Forfeited or expired	(12)	\$ 210.33		
Outstanding at October 31, 2023	<u>1,062</u>	\$ 152.41	\$ 69,778	4.9 years
Expected to vest	244	\$ 214.29	\$ 4,343	7.2 years
Exercisable at October 31, 2023	817	\$ 133.85	\$ 65,358	4.2 years

Summarized information on currently outstanding options follows:

	Range of Exercise Price		
	\$67 - \$125	\$126 - \$190	\$191 - \$268
Number outstanding	393	444	225
Weighted-average remaining contractual life, in years	3.7	5.3	8.0
Weighted-average exercise price	\$ 106.31	\$ 151.62	\$ 234.31
Number exercisable	390	365	62
Weighted-average exercise price	\$ 106.39	\$ 148.33	\$ 221.76

As of October 31, 2023, there was \$5,108 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 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
Expected volatility	30.4%-31.8%	30.6%-30.8%	30.8%- 32.6%
Expected dividend yield	1.12%-1.27%	0.76%-0.89%	0.83%- 0.85%
Risk-free interest rate	3.79%-4.21%	1.36%-2.65%	0.43%- 0.77%
Expected life of the option (in years)	5.0-6.2	5.3-6.2	5.3- 6.2

The weighted-average expected volatility used to value options granted in 2023, 2022 and 2021 was 30.6 percent, 30.6 percent and 31.0 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 2023, 2022 and 2021 was \$77.99, \$78.88 and \$56.02, respectively.

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

Cash received from the exercise of stock options for 2023, 2022 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.

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

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

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

As of October 31, 2023, there was \$9,613 of remaining expense to be recognized related to outstanding restricted share units, which is expected to be recognized over a weighted average period of 2.0 years. The amounts charged to expense related to restricted share units in 2023, 2022 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 \$231.34, \$211.25 and \$214.51 for 2023; \$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 2023, 2022 and 2021 were \$6,543, \$13,626 and \$7,178, respectively. As of October 31, 2023, there was \$5,939 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 \$107, \$72 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.

## Notes to Consolidated Financial Statements — (Continued)

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

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

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

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

### Note 15 — 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 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 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 2023, 2022 or 2021.

## Notes to Consolidated Financial Statements — (Continued)

The following table presents information about our reportable segments:

	<b>Industrial Precision Solutions</b>	<b>Medical and Fluid Solutions</b>	<b>Advanced Technology Solutions</b>	<b>Corporate</b>	<b>Total</b>
<b>Year ended October 31, 2023</b>					
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 <sup>(a)</sup>	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
<b>Year ended October 31, 2022</b>					
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 <sup>(a)</sup>	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
<b>Year ended October 31, 2021</b>					
Net external sales	\$ 1,246,947	\$ 641,654	\$ 473,608	\$ —	\$ 2,362,209
Depreciation and amortization	25,673	56,600	11,826	9,784	103,883
Operating profit (loss)	414,192	198,194	73,466	(70,725)	615,127
Identifiable assets <sup>(a)</sup>	964,840	1,519,144	394,572	967,796	3,846,352
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:

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

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

## 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	<u>\$ 5,251,770</u>	<u>\$ 3,820,375</u>	<u>\$ 3,790,961</u>

### Note 16 — Supplemental information for the statement of cash flows

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

### Note 17 — 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 and October 31, 2022, our accrual for the ongoing operation, maintenance and monitoring obligation at the Site was \$231 and \$266, 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.

## 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.

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

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. Their report is included herein.

/s/ Sundaram Nagarajan

President and Chief Executive Officer

December 20, 2023

/s/ Stephen Shamrock

Vice President and Corporate Controller, Interim  
Chief Financial Officer

December 20, 2023

## 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, 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, 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 and its subsidiaries (ARAG Group or ARAG) and CyberOptics Corporation (CyberOptics), which are included in the 2023 consolidated financial statements of the Company and on a combined basis constituted 30% of total assets as of October 31, 2023 and 4% of total revenues for the year then ended. The combined 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.

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 and 2022, 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, and the related notes and schedule listed in the Index at Item 15(a) and our report dated December 20, 2023 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

## **Report of Independent Registered Public Accounting Firm**

To the Shareholders and the Board of Directors of Nordson Corporation

### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of Nordson Corporation (the Company) as of October 31, 2023 and 2022, 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, 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 and 2022, and the results of its operations and its cash flows for each of the three years in the period ended October 31, 2023, 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, 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 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 communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters 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 below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.



### ***Valuation of Goodwill***

#### *Description of the Matter*

At October 31, 2023, the Company had \$2,784,201 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. As part of the quantitative impairment test, 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. 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.

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  
December 20, 2023

## **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 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. 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 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 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, 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 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.”

We have adopted a code of ethics and business conduct for all employees and directors, including the principal executive officer, other executive officers, principal financial officer and other finance personnel. A copy of the code of ethics is available free of charge on our website at <http://www.nordson.com/en/our-company/corporate-governance>. 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 Annual Meeting of Shareholders, along with the sections captioned “Directors Compensation,” “Summary Compensation for Fiscal Year 2023,” “Grants of Plan-Based Awards,” “Outstanding Equity Awards at October 31, 2023,” “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 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 and Large Beneficial Owners” in our definitive Proxy Statement for the 2024 Annual Meeting of Shareholders.

## Equity Compensation Plan Information

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

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	1,377,280	\$ 152.41	2,009,313
Equity compensation plans not approved by security holders	—	—	—
<b>Total</b>	<b>1,377,280</b>	<b>\$ 152.41</b>	<b>2,009,313</b>

- (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, includes shares available for future issuance under the 2021 Plan, including for awards other than options, warrants and rights.

### 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 of Transactions with Related Persons” in our definitive Proxy Statement for the 2024 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 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 Annual Meeting of Shareholders.

## **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

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

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

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

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

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.

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.

**NORDSON CORPORATION**  
**Index to Exhibits**

<b>Exhibit Number</b>	<b>Description</b>
(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 Form 8-K dated August 10, 2022)**
(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
(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 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 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 Form 8-K dated September 13, 2023).
(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)*
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)*

## NORDSON CORPORATION

### Index to Exhibits

<b>Exhibit Number</b>	<b>Description</b>
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 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 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 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 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)*
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 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 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 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 Form 10-Q dated February 25, 2022)
10-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 Form 10-Q dated February 23, 2023)*
10-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 Form 10-Q dated February 23, 2023)*
10-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 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 Form 8-K dated January 23, 2023)



**NORDSON CORPORATION**

**Index to Exhibits**

<b>Exhibit Number</b>	<b>Description</b>
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 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 Form 8-K dated August 24, 2023).
10-u	Nordson Corporation 2021 Stock Incentive and Award Plan, Form of Notice of Stock Option Award*
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 with cliff vesting*
(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
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
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, formatted in inline Extensible Business Reporting Language (iXBRL): (i) the Consolidated Statements of Income for the years ended October 31, 2023, 2022 and 2021, (ii) the Consolidated Statements of Comprehensive Income for the years ended October 31, 2023, 2022 and 2021, (iii) the Consolidated Balance Sheets at October 31, 2023 and 2022, (iv) the Consolidated Statements of Changes in Shareholders’ Equity for the years ended October 31, 2023, 2022 and 2021, (v) the Consolidated Statements of Cash Flows for the years ended October 31, 2023, 2022 and 2021, 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, 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.

## 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

By: /s/ Stephen Shamrock

Stephen Shamrock

Vice President and Corporate Controller, Interim  
Chief Financial Officer

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Stephen Shamrock 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>
<u>/s/ Sundaram Nagarajan</u> Sundaram Nagarajan	Director, President and Chief Executive Officer (Principal Executive Officer)	December 20, 2023
<u>/s/ Stephen Shamrock</u> Stephen Shamrock	Vice President and Corporate Controller, Interim Chief Financial Officer (Principal Financial Officer) (Principal Accounting Officer)	December 20, 2023
<u>/s/ Michael J. Merriman, Jr.</u> Michael J. Merriman, Jr.	Chair of the Board	December 20, 2023
<u>/s/ Dr. John A. DeFord</u> Dr. John A. DeFord	Director	December 20, 2023
<u>/s/ Frank M. Jaehnert</u> Frank M. Jaehnert	Director	December 20, 2023
<u>/s/ Ginger M. Jones</u> Ginger M. Jones	Director	December 20, 2023
<u>/s/ Milton M. Morris</u> Milton M. Morris	Director	December 20, 2023
<u>/s/ Jennifer A. Parmentier</u> Jennifer A. Parmentier	Director	December 20, 2023
<u>/s/ Victor L. Richey, Jr.</u> Victor L. Richey, Jr.	Director	December 20, 2023

**Schedule II – Valuation and Qualifying Accounts and Reserves**

	<b>Balance at Beginning of Year</b>	<b>Charged to Expense</b>	<b>Additions (Deductions)</b>	<b>Currency Effects</b>	<b>Balance at End of Year</b>
<b>Allowance for Doubtful Accounts</b>					
2021	\$ 9,045	32	(1,572)	47	\$ 7,552
2022	\$ 7,552	1,259	(1,336)	743	\$ 8,218
2023	\$ <b>8,218</b>	<b>283</b>	<b>1,469</b>	<b>45</b>	\$ <b>10,015</b>
<b>Inventory Obsolescence and Other Reserves</b>					
2021	\$ 41,315	11,718	(7,436)	266	\$ 45,863
2022	\$ 45,863	18,694	(18,372)	(450)	\$ 45,735
2023	\$ <b>45,735</b>	<b>24,925</b>	<b>6,617</b>	<b>(152)</b>	\$ <b>77,125</b>

**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:

<b><u>Name</u></b>	<b><u>Jurisdiction of Incorporation</u></b>
<b>UNITED STATES:</b>	
Nordson Test and Inspection Americas, Inc.	California
Value Plastics, Inc. dba Nordson MEDICAL	Colorado
Arag Group NA, Inc.	Delaware
EDI Holdings, Inc.	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
<b>INTERNATIONAL:</b>	
Arag Argentina S.A.U.	Argentina
Arag Australia PTY 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	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

<b><u>Name</u></b>	<b><u>Jurisdiction of Incorporation</u></b>
<b>INTERNATIONAL:</b>	
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.	Israel
Score It Ltd.	Israel
AM Torneria S.à r.l.	Italy
ARAG S.à r.l.	Italy
Arinvex S.à 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

<b><u>Name</u></b>	<b><u>Jurisdiction of Incorporation</u></b>
<b>INTERNATIONAL:</b>	
Polyusus Lux XX 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 Internacional 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, 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.

/s/ Ernst & Young LLP

Ernst & Young LLP

Cleveland, Ohio  
December 20, 2023



**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

/s/ Sundaram Nagarajan

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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, 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

/s/ Stephen Shamrock

Stephen Shamrock

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, 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

/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, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Stephen Shamrock, 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

/s/ Stephen Shamrock

Stephen Shamrock  
Vice President and Corporate Controller, Interim  
Chief Financial Officer

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