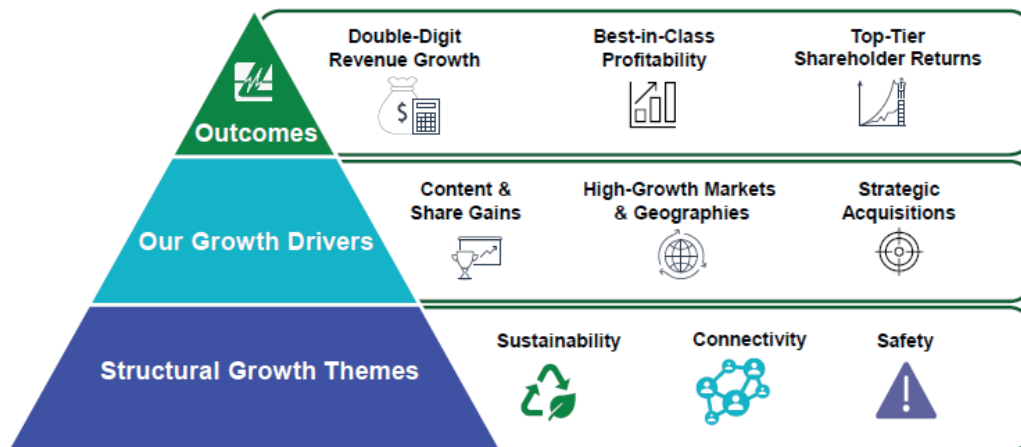


Dear Fellow Shareholders,

2022 was a remarkable year for Littelfuse. We continued to expand our leadership in high-growth end markets with significant new business wins and strategic acquisitions, and achieved record sales, earnings and cash generation. Compared to 2021, we achieved:

- Annual revenue of \$2.5 billion, up 21 percent, and up 11 percent organically<sup>1</sup>
  - Double-digit sales growth in each business segment
- GAAP diluted EPS of \$14.94, up 31 percent; adjusted diluted EPS<sup>2</sup> of \$16.87, up 28 percent
- Cash flow from operating activities of \$420 million, up 12 percent

In early 2021, we launched our five-year growth strategy built on the foundational structural themes of sustainability, connectivity, and safety. We delivered strong performance through the first two years of our strategy, achieving a CAGR<sup>3</sup> of 32 percent for revenue and 60 percent for adjusted diluted EPS<sup>2</sup>. We are proud of these results, recognizing we continue to face a number of macroeconomic and geopolitical challenges.



Since early 2021, we have deployed over \$1 billion in capital for acquisitions adding over \$500 million in annualized sales to further strengthen our technologies and capabilities and diversify the end markets and geographies we serve. Through this diversification, we have expanded our addressable global market opportunities to over \$20 billion.

- During 2022, we acquired C&K Switches and Embed Ltd. to expand our global presence across industrial, transportation, datacom, and aerospace end markets. These integrations are on track, and we see a broad range of growth opportunities ahead of us.
- In early 2023, our acquisition of Western Automation Research and Development Limited accelerated our growth opportunities in electric vehicle off-board charging infrastructure, particularly in Europe, and into broader industrial end markets.
- We have made substantial progress integrating Hartland Controls and Carling Technologies, Inc., acquired in 2021, which are driving significant growth in industrial and commercial vehicle end markets.

Organically, we are investing to support continued growth, both in customer-facing aspects of our business, as well as in manufacturing capacity and productivity.

Within industrial end markets, our technical expertise and high-performing technologies are critical in enabling customers' high-voltage applications focused on sustainability and safety. We won significant business in renewables, for solar, wind and energy storage systems. In the area of safety, we substantially grew our market position with major restaurant chains and manufacturing companies. Our broad portfolio secured sizeable business across commercial and residential HVAC systems, electrical infrastructure, motor drives, power supplies, factory automation, and manufacturing equipment.

Turning to transportation end markets, in passenger vehicles, we continue to grow with major OEMs based on our global technical support and strength of our product portfolio. This has driven our long-term double-digit content outgrowth above market. We secured electric vehicle design wins for battery management systems, high-voltage power distribution and on-board chargers. In automotive electronics, we captured substantial business in ADAS, infotainment, telematics, and comfort and convenience applications.

In electrified commercial vehicles, we grew our business in trucks, buses, and two- and three-wheelers, within battery management systems, on-board chargers and powertrain control modules. In traditional markets with major OEMs, we increased our product content in heavy-duty trucks, material handling, construction and agricultural equipment, and rail traction for trains.

Our engineering capabilities and differentiated range of products secured significant business for off-board charging infrastructure to support passenger and commercial vehicles.

Across electronics end markets, we leveraged our global reach and broad portfolio, to secure multi-technology business wins. With the ongoing push towards sustainability, energy efficiency and battery power, we won business in appliances and hand tools. Greater connectivity requirements drove business in data centers, telecom infrastructure, and building technologies and automation. Our products are vital to safety and protection of human life, as we secured business for security systems and a variety of medical devices.

We advanced our ESG program initiatives, reinforcing our commitment to our long-term strategy. Consistent with our goal to achieve a greenhouse gas reduction of 38 percent by 2035, we have been conducting energy audits at our manufacturing locations and implementing action plans. We also expanded our programs and investments to support our energy and water conservation and waste reduction initiatives. We have goals to increase our percentage of global female leaders to 25 percent and more than double the percentage of our Black and African American employees in the United States by 2026. Consistent with these goals, we launched additional initiatives around diversity, increased our focus on talent development, and expanded our efforts around inclusion and belonging. We believe our recognition by Forbes as one of America's Best Mid-Sized Companies and by Newsweek as one of its Most Responsible Companies further substantiates our performance in the environmental, social, and corporate governance areas.

In closing, we have made tremendous progress two years into our five-year growth strategy. Our track record of double-digit sales and earnings growth over the past five-, ten-, and fifteen-year periods speaks to the resiliency of the Littelfuse business model and the strength of our growth strategy. Over this time, we have expanded our leadership and presence in high-growth end markets, technologies and geographies, which has diversified our business, and improved the resiliency of our profitability. Our experienced teams, investments and diversification, position us for continued growth and will deliver ongoing, substantial value to all of our stakeholders.

We are excited about the future. Thank you for your ongoing support of our company as we continue to execute our growth strategy.



Dave Heinzmann  
President and Chief Executive Officer

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS UNDER THE PRIVATE SECURITIES LITIGATION REFORM ACT OF 1995 (“PSLRA”) - The statements contained in the letter to shareholders and the other sections of this report and in the Company’s Annual Report on Form 10-K that are not historical facts are intended to constitute “forward-looking statements” entitled to the safe-harbor provisions of the PSLRA. These statements may involve risks and uncertainties, including, but not limited to, risks relating to the severity and duration of the COVID-19 pandemic and the measures taken in response thereto and the effects of those items on the Company’s business; product demand and market acceptance; economic conditions; the impact of competitive products and pricing; product quality problems or product recalls; capacity and supply difficulties or constraints; coal mining exposures reserves; cybersecurity matters; failure of an indemnification for environmental liability; exchange rate fluctuations; commodity price fluctuations; the effect of the Company’s accounting policies, labor disputes, restructuring costs in excess of expectations, pension plan asset returns less than assumed, and integration of acquisitions; and uncertainties related to political and regulatory changes and other risks that may be detailed in “Item 1A, Risk Factors” in the Form 10-K and in the Company’s other Securities and Exchange Commission filings.

A reconciliation of these non-GAAP financial measures to the most directly comparable financial measure calculated and presented in accordance with GAAP is set forth on the following pages:

<sup>1</sup>Organic net sales excludes acquisitions, 53<sup>rd</sup> week of extra sales in fiscal year 2021 and foreign exchange impact.

<sup>2</sup>Adjusted diluted EPS reflects impact of certain non-GAAP adjustments.

<sup>3</sup>Compound annual growth rate (CAGR) based on fiscal years 2020 through 2022.

**LITTELFUSE, INC.**  
**GAAP TO NON-GAAP RECONCILIATION**  
(In millions of USD except per share amounts unaudited)

**Non-GAAP EPS reconciliation**

	<b>2022</b>	<b>2021</b>	<b>2020</b>
GAAP diluted EPS	\$ 14.94	\$ 11.38	\$ 5.29
EPS impact of Non-GAAP adjustments (below)	1.93	1.81	1.11
Adjusted diluted EPS	<u>\$ 16.87</u>	<u>\$ 13.19</u>	<u>\$ 6.40</u>

**Non-GAAP adjustments - (income) / expense**

	<b>2022</b>	<b>2021</b>	<b>2020</b>
Acquisition-related and integration costs	\$ 17.6	\$ 7.0	\$ 2.3
Purchase accounting inventory adjustments	15.6	8.4	—
Restructuring, impairment and other charges	10.0	2.2	41.7
Gain on sale of fixed assets	—	(5.0)	—
Non-GAAP adjustments to operating income	43.2	12.6	44.0
Other (income) expense, net	(0.5)	21.4	2.1
Non-operating foreign exchange loss (gain)	24.4	17.2	(14.9)
Non-GAAP adjustments to income before income taxes	67.1	51.2	31.2
Income taxes	19.0	6.0	3.9
Non-GAAP adjustments to net income	<u>\$ 48.1</u>	<u>\$ 45.2</u>	<u>\$ 27.3</u>
Total EPS impact	<u>\$ 1.93</u>	<u>\$ 1.81</u>	<u>\$ 1.11</u>

**Net sales reconciliation**

**2022 vs. 2021**

	<b>Total</b>
Net sales growth	21 %
Less:	
Acquisitions	14 %
53 <sup>rd</sup> week of extra sales in fiscal year 2021	(1)%
FX impact	(3)%
Organic net sales growth	<u>11 %</u>

**NON-GAAP FINANCIAL MEASURES**

The information included in the letter to shareholders includes the non-GAAP financial measures of organic net sales growth and adjusted diluted earnings per share. These non-GAAP financial measures exclude the effect of certain expenses and income not related directly to the underlying performance of our fundamental business operations. The company believes that organic net sales growth and adjusted diluted earnings per share provide useful information to investors regarding its operational performance because they enhance an investor's overall understanding of our core financial performance and facilitate comparisons to historical results of operations, by excluding items that are not related directly to the underlying performance of our fundamental business operations or were not part of our business operations during a comparable period. A reconciliation of these non-GAAP financial measures to the most directly comparable GAAP financial measures is included herein. The company believes that these non-GAAP financial measures are commonly used by financial analysts and others in the industries in which we operate, and thus further provide useful information to investors. Management additionally uses these measures when assessing the performance of the business and for business planning purposes. Note that our definitions of these non-GAAP financial measures may differ from those terms as defined or used by other companies.

**United States**  
**Securities and Exchange Commission**  
Washington, D.C. 20549  
**FORM 10-K**

Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

(Mark one) for the fiscal year ended December 31, 2022

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 0-20388

**LITTELFUSE, INC.**

(Exact name of registrant as specified in its charter)

Delaware 36-3795742  
(State or other jurisdiction of (I.R.S. Employer Identification No.)  
incorporation or organization)

8755 West Higgins Road Suite 500  
Chicago, Illinois 60631  
(Address of principal executive offices)

773-628-1000  
(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</u>	<u>Name of Each Exchange On Which Registered</u>
Common Stock, \$0.01 par value	LFUS	NASDAQ Global Select Market <sup>SM</sup>

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

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

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (Section 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post 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 emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "small reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company  Emerging growth company

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.

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 24,754,870 shares of voting stock held by non-affiliates of the registrant was approximately \$6,146,881,720 based on the last reported sale price of the registrant's Common Stock as reported on the NASDAQ Global Select Market<sup>SM</sup> on July 2, 2022.

As of February 10, 2023, the registrant had outstanding 24,773,837 shares of Common Stock, net of Treasury Shares.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the Littelfuse, Inc. Proxy Statement for the 2022 Annual Meeting of Stockholders (the "Proxy Statement") are incorporated by reference into Part III of this Form 10-K.

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## FORWARD-LOOKING STATEMENTS

Certain statements contained in this Annual Report on Form 10-K that are not historical facts are intended to constitute “forward-looking statements” entitled to the safe-harbor provisions of the Private Securities Litigation Reform Act of 1995 (“PSRLA”). The Company cautions that forward-looking statements, which speak only as of the date they are made, are subject to risks, uncertainties and other factors, and actual results and outcomes may differ materially from those indicated or implied by the forward-looking statements. These risks, uncertainties and other factors include, but are not limited to, risks and uncertainties relating to general economic conditions; the severity and duration of the coronavirus disease 2019 (“COVID-19”) pandemic and the measures taken in response thereto and the effects of those items on the Company’s business; product demand and market acceptance; economic conditions; the impact of competitive products and pricing; product quality problems or product recalls; capacity and supply difficulties or constraints; coal mining exposures reserves; cybersecurity matters; failure of an indemnification for environmental liability; exchange rate fluctuations; commodity price fluctuations; the effect of the Company’s accounting policies; labor disputes; restructuring costs in excess of expectations; pension plan asset returns less than assumed; uncertainties related to political or regulatory changes; integration of acquisitions may not be achieved in a timely manner, or at all; and other risks that may be detailed in Item 1A. “Risk Factors” below and in the Company’s other Securities and Exchange Commission filings.

## AVAILABLE INFORMATION

The Company is subject to the reporting and information requirements of the Securities Exchange Act of 1934, as amended and as a result, are obligated to file annual, quarterly, and current reports, proxy statements, and other information with the United States Securities and Exchange Commission (“SEC”). The Company makes these filings available free of charge on its website (<http://investor.littelfuse.com>) as soon as reasonably practicable after it electronically files them with, or furnish them to, the SEC. Information on the Company’s website does not constitute part of this Annual Report on Form 10-K. In addition, the SEC maintains a website (<http://www.sec.gov>) that contains the Company’s annual, quarterly, and current reports, proxy and information statements, and other information the Company electronically files with, or furnishes to, the SEC. The Company’s website and the information contained therein or connected thereto are not incorporated into this Annual Report on Form 10-K.

## PART I

### ITEM 1. BUSINESS.

#### GENERAL

Littelfuse, Inc., was incorporated under the laws of the State of Delaware in 1991. References herein to the “Company,” “we,” “our” or “Littelfuse” refer to Littelfuse, Inc. and its subsidiaries. References herein to “2022,” “fiscal 2022” or “fiscal year 2022” refer to the fiscal year ended December 31, 2022. References herein to “2021,” “fiscal 2021” or “fiscal year 2021” refer to the fiscal year ended January 1, 2022. References herein to “2020,” “fiscal 2020” or “fiscal year 2020” refer to the fiscal year ended December 26, 2020. The Company operates on a 52-53 week fiscal year (4-4-5 basis) ending on the Saturday closest to December 31. Therefore, the financial results of certain fiscal years and the associated 14 week quarters will not be exactly comparable to the prior 52 week fiscal years and the associated quarters having only 13 weeks. As a result of using this convention, the fiscal year 2021 contained 53 weeks while each of fiscal 2022 and fiscal 2020 contained 52 weeks.

#### OVERVIEW

Founded in 1927, Littelfuse is a diversified, industrial technology manufacturing company empowering a sustainable, connected, and safer world. Across more than 20 countries, and with approximately 18,000 global associates, the Company partners with customers to design and deliver innovative, reliable solutions. Serving over 100,000 end customers, the Company’s products are found in a variety of industrial, transportation and electronics end markets – everywhere, every day.

## Segments

The Company conducts its business through three reportable segments: Electronics, Transportation, and Industrial. Within these segments, the Company designs, manufactures and sells electronic components, modules and subassemblies to empower the long-term mega growth themes of sustainability, connectivity and safety. Over the last decade the Company has positioned itself within the center of these global structural growth themes by helping to enable its customers' applications focused on a more sustainable, connected, and safer world. The ever-increasing complexity of applications surrounding these themes continues to drive greater demand for the Company's innovative, reliable products and a higher level of product content within a broad range of applications. With its expanding, diversified, product portfolio, the Company has evolved its presence across the industrial, transportation and electronics end markets it serves. The Company's exposure with each of these end markets is relatively balanced. With a deep list of target applications within each primary end market, the Company believes its balanced approach is healthy for the long-term sustainability of its business, increases diversification and creates additional growth opportunities. Across electronics end markets, product demand is largely driven by electrification, energy and power efficiency, automation, connectivity, and safety. In transportation end markets, including passenger and commercial vehicles, the ongoing electronification and electrification of applications is driving increased product demand. Across industrial end markets, product demand is driven by a more sustainable ecosystem. For example, renewables, including solar and wind energy, and energy storage systems that enable lower carbon emissions, the ongoing proliferation of electric vehicles and charging stations, more efficient climate control units, increasing requirements for electrical safety, the rising demand for factory and process automation, and motor drives and power supplies. For segment and geographical information and consolidated net sales and operating income see Item 7, *Management's Discussion and Analysis of Financial Condition and Results of Operations* and Note 16, *Segment Information*, of the Notes to Consolidated Financial Statements included in this Annual Report.

- *Electronics Segment:* Consists of one of the broadest product offerings in the industry, including fuses and fuse accessories, positive temperature coefficient ("PTC") resettable fuses, electromechanical switches and interconnect solutions, polymer electrostatic discharge ("ESD") suppressors, varistors, reed switch based magnetic sensing, gas discharge tubes; semiconductor products such as discrete transient voltage suppressor ("TVS") diodes, TVS diode arrays, protection and switching thyristors, silicon and silicon carbide metal-oxide-semiconductor field effect transistors ("MOSFETs") and diodes; and insulated gate bipolar transistors ("IGBT") technologies. The segment covers a broad range of end markets, including industrial motor drives and power conversion, automotive electronics, electric vehicle and related charging infrastructure, aerospace, power supplies, data centers and telecommunications, medical devices, alternative energy and energy storage, building and home automation, appliances, and mobile electronics.
- *Transportation Segment:* Formerly known as Automotive segment. The term "Transportation" represents a more comprehensive description of the Company's broad range of products, and the applications and end markets it serves. Consists of a wide range of circuit protection, power control and sensing technologies for global original equipment manufacturers ("OEMs"), Tier-one suppliers and parts and aftermarket distributors in passenger vehicle, heavy-duty truck, off-road vehicle, material handling, agricultural, construction and other commercial vehicle end markets. Passenger vehicle products are used in internal combustion engine, hybrid and electric vehicles including blade fuses, battery cable protectors, resettable fuses, high-current fuses, high-voltage fuses, and sensor products designed to monitor the occupant's safety and environment as well as the vehicle's powertrain. Commercial vehicle products include fuses, switches, circuit breakers, relays, and power distribution modules and units used in applications serving a number of end markets, including heavy-duty truck, construction, agriculture, material handling and marine.
- *Industrial Segment:* Consists of industrial circuit protection (industrial fuses), industrial controls (protection relays, contactors, and transformers) and temperature sensors for use in various applications such as renewable energy and energy storage systems, electric vehicle infrastructure, HVAC systems, industrial safety, non-residential construction, MRO, mining and industrial automation.

## Strategy

In February 2021, the Company announced its five-year strategic plan which builds upon its strengths from its previous strategy. The Company is well-positioned within the center of the global structural growth themes of sustainability, connectivity, and safety, which will continue to drive increased demand for the Company's products across the transportation, industrial and electronics end markets that it serves. The Company is targeting average annual organic sales growth of 5-7 percent and average annual sales growth from strategic acquisitions of 5-7 percent. The Company expects to achieve this through content and share gains, expanded presence in high-growth markets and geographies, and targeting high-growth and niche applications. The Company continues to drive commercial excellence through investments in its people, customer-driven innovation, strategic acquisitions and integration of these businesses, eMobility, and its digital infrastructure to improve the



customer experience, and its operating systems. These investments enable the Company to capitalize on growth opportunities where technologies and applications are converging across its product segments. The Company's resilient growth strategy and business model has delivered sustained double-digit sales and earnings growth over the last five, ten and fifteen years.

### **Recent Acquisitions**

- *C&K Switches*: On July 19, 2022, the Company acquired C&K Switches (“C&K”) for \$540 million in cash. Founded in 1928, C&K is a leading designer and manufacturer of high-performance electromechanical switches and interconnect solutions with a strong global presence across a broad range of end markets, including industrial, transportation, datacom, and aerospace. At the time the Company and C&K entered into a definitive agreement, C&K had annualized sales of over \$200 million. The business is reported as part of the electronics-passive products and sensors business within the Company's Electronics segment. The Company financed the transaction through a combination of cash on hand and debt.
- *Embed*: On April 12, 2022, the Company acquired Embed Ltd. (“Embed”). Founded in 2005, Embed is a proven provider of embedded software and firmware developed for a broad range of applications serving transportation end markets, primarily including commercial vehicle electronification and eMobility. The business is included in the commercial vehicle business within the Company's Transportation segment. The acquisition was funded with the Company’s cash on hand. The total purchase consideration was \$9.2 million, net of cash.
- *Carling Technologies*: On November 30, 2021, the Company acquired Carling Technologies (“Carling”), a leader in switching, circuit protection and power distribution technologies with a strong global presence in commercial vehicle electronification, communications infrastructure and marine markets. At the time of acquisition, Carling had annualized sales of approximately \$170 million. The purchase price for Carling was \$315 million subject to change for working capital adjustments and the operations of Carling are included in the commercial vehicle business within the Company’s Transportation segment. The acquisition was funded with the Company's cash on hand.
- *Hartland Controls*: On January 28, 2021, the Company acquired Hartland Controls ("Hartland"), a manufacturer and leading supplier of electrical components used primarily in heating, ventilation, air conditioning ("HVAC") and other industrial and control systems applications, and eMobility. At the time of acquisition, Hartland had annualized sales of approximately \$70 million. The purchase price for Hartland was \$111.0 million and the operations of Hartland are included in the Industrial segment. The net cash payment of \$108.5 million was funded by the Company’s cash on hand.
- *IXYS Corporation*: On January 17, 2018, the Company acquired IXYS Corporation ("IXYS"), a global pioneer in the power semiconductor and integrated circuit markets with a focus on medium to high voltage power semiconductors across the industrial, eMobility, communications, consumer and medical end markets. IXYS had a broad customer base, serving more than 3,500 customers through its direct sales force and global distribution partners. The purchase price for IXYS was \$856.5 million, which included consideration of cash, Littelfuse common stock, and the value of converted, or cash settled IXYS equity awards. The operations of IXYS are included in the Electronics segment.

### **Sales and Operations**

The Company conducts its business through three reportable segments: Electronics, Transportation, and Industrial.

Net sales by segment for the periods indicated are as follows:

<b>(in millions)</b>	<b>Fiscal Year</b>		
	<b>2022</b>	<b>2021</b>	<b>2020</b>
Electronics	\$ 1,492.8	\$ 1,300.7	\$ 937.7
Transportation	716.2	528.1	395.8
Industrial	304.9	251.1	112.2
Total	<u>\$ 2,513.9</u>	<u>\$ 2,079.9</u>	<u>\$ 1,445.7</u>

The Company operates in three geographic regions: Asia-Pacific, the Americas, and Europe. The Company designs, manufactures products and sells to customers in all three regions.

Net sales in the Company's three geographic regions, based upon the shipped-to destination, are as follows:

(in millions)	Fiscal Year		
	2022	2021	2020
Asia-Pacific	\$ 1,019.9	\$ 955.7	\$ 670.5
Americas	992.3	694.3	457.8
Europe	501.7	429.9	317.4
Total	<u>\$ 2,513.9</u>	<u>\$ 2,079.9</u>	<u>\$ 1,445.7</u>

The Company's products are sold worldwide through distributors, direct sales force and manufacturers' representatives in certain regions. For the fiscal year 2022, approximately 64% of the Company's net sales were to customers outside the United States ("U.S."), including approximately 25% to China.

The Company manufactures many of its products on fully integrated manufacturing and assembly equipment. The Company maintains product quality through a Global Quality Management System with most manufacturing sites certified under ISO 9001:2000. In addition, several of the Littelfuse manufacturing sites are also certified under IATF 16949 and ISO 14001.

Additional information regarding the Company's sales by geographic area and long-lived assets in different geographic areas is in Note 16, *Segment Information*, of the Notes to Consolidated Financial Statements included in this Annual Report.

## BUSINESS ENVIRONMENT

### *Electronics Segment*

The Company designs, manufactures and sells electronic components and modules empowering its customers' applications focused on a more sustainable, connected, and safer world. The ever-increasing complexity of applications surrounding these themes continues to drive greater demand for the Company's innovative, reliable products and a higher level of product content within a broad range of applications.

Technologies within the Electronics segment provide protection, power control and sensing capabilities. Circuit protection technologies in the Electronics Segment are designed to protect against harmful occurrences like voltage spikes, short circuits, power surges and electrostatic discharge. Products include fuses and fuse accessories, PTC resettable fuses, ESD suppressors, varistors, gas discharge tubes, and semiconductor products such as discrete TVS diodes, TVS diode arrays, and protection thyristors.

The need for complex sensor technologies continues to grow, as products become increasingly sophisticated, smarter and more connected. Sensor products in the Segment are used in a wide variety of applications including appliances, building and home automation, industrial controls, and commercial vehicles.

The Company also offers a wide range of power control products used to convert and regulate energy and safely and efficiently control power across a broad spectrum of industrial applications like renewable energy and energy storage systems, motor drives and power conversion. Products include a comprehensive portfolio of semiconductor components and modules including thyristors, MOSFETs, rectifiers and fast recovery diodes, IGBTs and wide band gap devices. The 2018 acquisition of IXYS expanded the Company's power semiconductor portfolio in medium and high-power industrial applications and technology expertise and OEM customer base.

The acquisition of C&K Switches in 2022 significantly expanded the Company's electromechanical switches and interconnect solutions portfolios, which primarily serves industrial, transportation and datacom applications. Through the growth of its product portfolio within the segment, the Company has expanded its presence across the industrial, transportation and electronics end markets it serves. The Company expects to continue to expanding its market presence by leveraging its broad, global access and reach with its strong go-to-market strategy via its strategic distribution partnerships and deep OEM relationships, and by continuing to expand its product portfolio through organic and inorganic investments.

## ***Transportation Segment***

The Company is a primary supplier of circuit protection technologies, as well as certain sensing technologies to global automotive OEMs, mainly through sales made to Tier One automotive suppliers, main-fuse box, and wire harness manufacturers that incorporate these technologies into their products, as well as automotive component parts manufacturers, and automotive parts distributors. The Company also sells some of its circuit protection products in the replacement parts market, with its products being sold through merchandisers, discount stores, and service stations, as well as under private label by national firms.

Passenger vehicle products include both protection and sensing technologies used in internal combustion engine, hybrid and electric vehicles. Protection technologies include blade fuses, battery cable protectors, resettable fuses, high-current and high voltage fuses. Sensing technologies are used in a variety of applications including occupant safety, speed, solar, fluid, position, harness, and battery management systems.

The Company's commercial vehicle business includes a variety of products including power distribution modules and units, low and high current switches, circuit breakers, relays, battery management products, ignition key switches, and trailer connectors. These products are used in applications largely serving commercial vehicle end markets including heavy-duty truck, construction, agriculture, material handling and marine. Products are sold directly to a mix of OEMs, Tier One suppliers, aftermarket channels, as well as through general distribution.

The acquisition of Carling Technologies in 2021 significantly expanded the Company's presence in commercial vehicle end markets. The product portfolio, including switching, circuit protection and power distribution products portfolios, are primarily used in commercial vehicle applications, as well as certain telecom and datacom applications. The Company expects to continue to expand its presence across its end markets, leveraging its strong OEM, Tier One and distributor customer base and go-to-market strength, and by continuing to expand its product portfolio through organic and inorganic investments.

## ***Industrial Segment***

The Company designs and sells a broad range of power fuses and holders, protection relays and controls, temperature sensors and other circuit protection products, contactors and transformers, for use in various industrial applications such as renewable energy and energy storage systems, electric vehicle infrastructure, HVAC systems, industrial safety, non-residential construction, MRO, mining and industrial automation. These products are used to protect personnel and equipment from excessive currents, over voltages, and electrical shock hazards.

Products are sold direct to OEMs, and through both electrical and electronics distribution channels. The 2021 acquisition of Hartland expanded the Company's contactors and transformers product portfolios, which primarily services HVAC and e-Mobility off-board charging applications. The Company expects to continue to expand its presence across its end markets, leveraging its growing customer base, and go-to-market strength, and by continuing to expand its product portfolio through organic and inorganic investments.

## **PRODUCT DESIGN AND DEVELOPMENT**

The Company employs scientific, engineering, and other personnel to continually improve its existing product lines and to develop new products at its research, product design, and development ("R&D") and engineering facilities with primary locations in China, France, Germany, Italy, Japan, Lithuania, Mexico, Philippines, Taiwan (China), United Kingdom ("U.K."), and the U.S. The Company maintains a staff of engineers, chemists, material scientists and technicians whose primary responsibility is to design and develop new products.

Proposals for the development of new products are initiated primarily by sales, marketing, and product management personnel with input from customers. The entire product development process usually ranges from a few months to a few years based on the complexity of development, with continuous efforts to reduce the development cycle. During fiscal years 2022, 2021, and 2020, the Company expended \$95.6 million, \$65.9 million, and \$52.5 million, respectively, on R&D.

Over the years, the Company has expanded its industry-leading technical expertise to support its customers, and ultimately diversify its solutions offering. With the intensifying complexity of applications, its superior engineering and design-in capabilities, and product portfolio, continue to deliver increasing value to customers. The Company's strong global presence allows it to utilize its deep and broad application knowledge to help enable its customers' applications across the industrial, transportation and electronics markets.

## **PATENTS, TRADEMARKS, AND OTHER INTELLECTUAL PROPERTY**

The Company generally relies on patents, trademarks, licenses, and nondisclosure agreements to protect its intellectual property and proprietary products. In cases where it is deemed necessary by management, key employees are required to sign an agreement that they will maintain the confidentiality of the Company's proprietary information and trade secrets.

The Company owns a large portfolio of patents worldwide and new products are continually being developed to replace older products. The Company regularly applies for patent protection on such new products. While, in the aggregate, the Company's patents are important in the operation of its businesses, the Company believes that the loss by expiration or otherwise of any one patent or group of patents would not materially affect its business.

## **MANUFACTURING**

The Company's manufacturing facilities are in China, France, Germany, India, Italy, Japan, Lithuania, Mexico, Philippines, the U.K., the U.S., and Vietnam. The Company performs the majority of its own fabrication and maintains in-house capabilities for metal stamping, surface mount assembly, plating (silver, nickel, zinc, and oxides) thermoplastic molding, and high-precision manufacturing, miniaturization and haptics. In addition, the Company fabricates semiconductor wafers for certain applications and maintains in-house capability for epitaxy fabrication, die attach, and wafer probe testing. After sub-components are readied for assembly, final assembly is accomplished on fully automatic and semi-automatic assembly machines. Quality assurance and operations personnel, using techniques such as statistical process control, perform tests, checks and measurements during the production process to maintain the highest levels of product quality, including safety and reliability, and customer satisfaction. Additionally, the Company utilizes external wafer foundries and subcontracted test and assembly facilities for a portion of its semiconductor business.

The principal raw materials for the Company's products include copper and copper alloys, resin and heat-resistant plastics, zinc, melamine, glass, silver, gold, raw silicon, solder, rubber, and various gases. The Company's strategy is to prequalify suppliers for quality assurance and supply continuity, as much as possible, to localize supply sources close to its manufacturing sites. This helps to minimize the transportation of materials, and ultimately reduces the Company's environmental footprint by decreasing emissions, consistent with its sustainability strategy. For critical materials, the Company looks to diversify its supplier base by prequalifying second sources.

## **SALES AND MARKETING**

The Company goes to market through selling organizations consisting of worldwide direct sales personnel, distribution partners and manufacturers' representatives. The direct sales force closely works with global OEM, Tier One automotive, consulting engineers, and major end customers to design-in and sell all of the Company's products. The Company has sales offices and direct sales channels in number of countries around the world. The Company's channel partners provide fulfillment services for its end customers, including those partnered with electronic manufacturing services ("EMS"), as well as some demand creation activities.

### ***Electronics Segment***

Our Electronics segment products are used across a variety of applications. While certain of our products require less design support for our customers, many of our products are incorporated into applications with complex design technical support requirements. Most Electronics segment products are sold through our direct salesforce or through our channel distribution partners. The fulfillment of these products is primarily through our broad line distribution partners, including global distributors such as Arrow Electronics, Inc., Future Electronics and TTI, Inc., regional and high service distributors, including Digi-Key and Mouser, as well as directly to OEM's.

### ***Transportation Segment***

The Company primarily uses a direct sales force to service all of the major automotive and commercial vehicle OEMs, system suppliers, and Tier One automotive and aftermarket customers globally. In selected areas, the Company also uses distributors to service smaller customers and to provide supply chain fulfillment for certain customers.

The Company also leverages its transportation customer relationships to sell products from the Electronics and Industrial segments into transportation end markets, primarily to Tier One and OEM automotive customers. Respective revenues are reported in the Electronics and Industrial segments.

### ***Industrial Segment***

The Company markets and sells its Industrial segment products direct to OEMs, and through both electrical and electronics distribution channels to various end customers including electrical contractors, factories, municipalities, and utilities.

## **CUSTOMERS**

The Company directly sells to over 5,000 customers and distributors worldwide. Sales to Arrow Electronics, Inc., which were reported in our Electronics, Transportation and Industrial segments, were 11.5%, 10.7% and 10.4% of consolidated net sales in 2022, 2021, and 2020, respectively. No other single customer accounted for more than 10% of net sales during any of the last three years. During fiscal 2022, 2021, and 2020, net sales to customers outside the U.S. accounted for approximately 64%, 69%, and 73%, respectively, of the Company's total net sales.

## **CYBERSECURITY**

The Company relies on its information technology systems and networks in connection with many of its business activities. Some of these networks and systems are managed directly by the Company, while others are managed by third-party service providers and are not under the Company's day-to-day control. We oversee the services provided by the third-party service providers. We continually evaluate ourselves for appropriate business continuity and disaster recovery planning, with test scenarios that include simulations and penetration tests. Our networks are monitored by intrusion detection services, and our systems and applications are routinely tested for vulnerabilities and are operated with an appropriate patch management program. We employ a skilled IT workforce to implement our cybersecurity programs and to handle specific security responsibilities. Our IT workforce is trained to address security and compliance-related issues as they arise.

## **COMPETITION**

The Company's products compete with similar products of other manufacturers, some of which may have substantially greater financial resources than the Company. In the Electronics segment, the Company's competitors include Eaton Corporation, Bourns Inc., TDK, ON Semiconductor Corporation, Infineon Technologies, STMicroelectronics NV, Semtech Corporation, and Vishay Intertechnology Inc. In the Transportation segment, the Company's competitors include Eaton Corporation, Pacific Engineering, MTA (Meccanotecnica Codognese), Amphenol Corporation, Sensata Technologies Holding NV, and TE Connectivity Ltd. In the Industrial segment, the Company's major competitors include Eaton Corporation, GE Multilin, and Mersen. The Company believes that it globally competes on the basis of innovative products, the breadth of its product line, the quality, design and performance of its products based on their reliability, consistency and safety, its technical capabilities and application expertise, and the responsiveness of its customer service.

## **BACKLOG**

The backlog of unfilled orders at December 31, 2022 was approximately \$1,646.1 million, compared to \$1,657.1 million at January 1, 2022 with the decrease primarily driven by a reduction across the Electronics and Transportation segments. Substantially all the orders currently in backlog are scheduled for delivery in 2023.

## **HUMAN CAPITAL MANAGEMENT**

A passion for engineering excellence and an innovative spirit have been a part of what it means to work at Littelfuse since its founding in 1927. The Company hires bright minds who want to make a big impact and are committed to improve the safety, reliability and performance of our customers' products that use electrical energy. As the Company's human capital is critical to its success, the Company strives to make Littelfuse a safe, diverse, and inclusive workplace, provide competitive compensation, benefits, and health and wellness programs, offer appropriate training and promote community involvement.

### ***Employee Data***

On December 31, 2022, the Company had approximately 18,000 full-time, part-time and temporary employees; of which 52% are female and 48% are male; and of which 49%, 39% and 12% are located in the Americas, Asia-Pacific region, and Europe, respectively.

### ***Governance & Oversight***

The Chief Human Resources Officer ("CHRO") is responsible for developing and executing the Company's human capital strategy. This includes establishing and implementing global policies and programs for leadership and employee development,

compensation, benefits, workforce planning, human resources systems, and ensuring effective and efficient internal company operations. The CHRO is responsible for developing and integrating the Company's diversity, inclusion, and belonging strategy in its business operations. The Chief Executive Officer ("CEO") and CHRO regularly update the Company's board of directors on human capital matters.

### ***Our Values & Culture***

Littelfuse core values have been instrumental in driving success for our business. Values of Customer Focus, Teamwork, Results-Driven, Integrity and Innovation have guided conversations and decision-making that provided direction for our company. As we continue to grow and scale, we recognize that it is critical to evolve our culture. In 2022, we engaged in a project to evaluate and mature our values. Throughout 2023 we will roll-out new values and provide regular engagement points for our associates as we drive culture advancement.

### ***Diversity, Inclusion & Belonging***

As part of driving sustainable success, The Company values and celebrates diversity in every aspect of work with customers, stakeholders, suppliers and each other. The Company's commitment to diversity, inclusion and belonging creates a collaborative environment that draws out associates' unique capabilities that contribute to innovation, deliver bold solutions and drive growth.

Long-standing programs, policies and initiatives supporting a diverse and inclusive workplace remain in place and continue to expand. The Company's employee resource groups (ERGs) continue to expand to support broader demographics and identities. Existing ERGs have grown to have a presence in more countries and provide impactful development and mentoring opportunities.

Leadership is accountable for creating a diverse and inclusive work environment. To support leadership team in diversity, inclusion and belonging effort, we provided Inclusion training to senior leaders across the businesses. Our senior leaders have also established goals around diversity, inclusion & belonging which are part of the annual goal setting and performance process.

As an industrial technology manufacturing company, we are committed to challenging the status quo by strengthening existing and building new female talent pipelines to improve gender equity. To demonstrate such commitment, the Company established an aspirational goal of achieving at least 25% female leadership representation globally by 2026. In 2022, female leadership increased by 1% to 21%, while overall, 52% of the Company's associates identify as female.

We also believe that our workforce should be fully representative of the communities where it operates. The Company also established an aspirational goal to increase the representation of Black African American employees in the U.S. to at least 5% by 2026. As a result of the continued effort on recruiting, developing and retaining talent, Black African American representation has increased from 3% in 2021 to 3.5% in 2022.

### ***Talent Management, Development & Succession Planning***

Building and maintaining a strong talent pipeline is essential to sustained performance and achievement of the Company's growth strategy. The leadership team incorporates talent strategy into the annual business strategy review process to ensure the Company has the capabilities and capacity to meet current and future requirements. The Company conducts enterprise-wide, global talent review processes with the CEO, business unit and function leaders focusing on the Company's high-performing and high-potential talent, diverse talent, and succession plans for the Company's most critical roles. Also, the Company's board of directors reviews and assesses management development plans for senior executives and the succession plans relating to those positions.

The Company is also actively investing in identifying and developing the pipeline of future global leaders and technical experts. One area of focus has been early career talent pipelines and programs, resulting in an expanded focus on internships and other college/university recruitment pipelines. More specifically, accelerated development programs (e.g. such as the Company's global RISE engineering program) have been implemented to strengthen the pipeline of talent required to sustain business growth.

As the Company continues to focus on developing the talent pipeline, we are also investing in strengthening our leadership capability through leadership mentoring and training. The leadership training includes a mix of internal and external programs and partnerships addressing fundamental leadership skills to engage, motivate and develop our talent.

### ***Compensation, Benefits and Employee Wellness***

The Company provides compensation and benefits programs designed to be competitive and equitable to attract, retain and motivate highly qualified associates. The components of the Company's compensation program vary by region and job-type, and include items such as base salary, performance-based bonus plans, equity awards, paid time off, and tuition reimbursement. Global programs include a combination of statutory and additional supplemental benefits in the areas of health, welfare and retirement.

We support our employees' mental and physical well-being through various programs that promote a healthy lifestyle. Our health & wellness programs vary across countries and are tailored to the needs of our employees from location to location. Globally, we offer comprehensive medical benefits and an employee assistance program that provides confidential counseling at no charge for all our employees and their families to receive support with personal, health, life, financial, or work issues.

### ***Health and Safety***

Littelfuse considers the continuous improvement of our health and safety (H&S) programs as essential to the success of our growing company. We are committed to meeting or exceeding H&S compliance requirements. Our EHS (environmental health and safety) personnel are involved in evaluating compliance through audits (internal, external regulatory, and independent third-party) and providing training to employees to increase their H&S knowledge.

We strive for zero workplace injuries, incidents, and occupational illnesses. Our total case incident rate remains below the industry average, and there were no work-related fatalities in 2022. In 2022 and 2021, we added additional EHS professionals to focus on targeted safety programs.

### ***Community Involvement***

The Company works to affect positive change in the communities in which we work and live. Our giving and volunteerism philosophy is aligned to three pillars: Green – environment and conservation, STEM – technology innovation, and Equity – humanitarian, community and family. These overarching pillars guide our actions while providing us with the flexibility to serve the diverse needs of our local communities. We donate directly as a Company, match employee donations, and sponsor and encourage volunteerism that enables meaningful change around the globe.

## **SUSTAINABILITY**

The Company is committed to the long-term value of a robust sustainability strategy, and has positioned our business within the global sustainability megatrend to enhance our product offering to help empower a sustainable, connected, and safer world. Many of the Company's key end markets are linked to sustainable applications such as electric vehicles and charging infrastructure, renewable energy, and power management. The Company publishes its Sustainability Report annually to communicate its commitment and progress towards key internal sustainability initiatives. The focus areas of the Company's sustainability program include:

- business ethics
- training, education, and career development
- health and safety in the workplace
- economic performance
- innovation
- water and wastewater management
- diversity and equal opportunity
- energy management
- climate change and greenhouse gas emissions
- sustainable supply chain
- community involvement
- waste and hazardous material management

Additional information on how the Company manages each of these key areas and its sustainability program is available in the Company's Sustainability Reports, located on the Company's website at <https://www.littelfuse.com/about-us/sustainability.aspx>. The contents of the Company's Sustainability Reports and website are not incorporated by reference in this Annual Report on Form 10-K.

## ENVIRONMENTAL REGULATION

The Company is subject to numerous foreign, federal, state, and local regulations relating to air and water quality, the disposal of hazardous waste materials, safety and health. Compliance with applicable environmental regulations has not significantly changed the Company's competitive position, capital spending or earnings in the past and the Company does not presently anticipate that compliance with such regulations will change its competitive position, capital spending or earnings for the foreseeable future.

The Company believes that it is currently in compliance in all material respects with applicable environmental laws and regulations.

Littelfuse GmbH, which was acquired by the Company in May 2004, is responsible for maintaining closed coal mines in Germany from legacy operations. The Company is compliant with German regulations pertaining to the maintenance of the mines and has an accrual related to certain of these coal mine shafts based on an engineering study estimating the cost of remediating the dangers (such as a shaft collapse) of certain of these closed coal mine shafts in Germany. The accrual is reviewed annually and calculated based upon the estimated costs of remediating the shafts. Further information regarding the coal mine liability accrual is provided in Note 1, *Summary of Significant Accounting Policies and Other Information*, of the Notes to Consolidated Financial Statements included in this Annual Report.

### ITEM 1A. RISK FACTORS.

The Company's business, financial condition, and results of operations are subject to various risks and uncertainties, including the risk factors it has identified below. Any of the following risk factors could materially and adversely affect the Company's business, financial condition, or results of operations. These factors are not necessarily listed in order of importance.

#### **1) Operational Risks:**

***The Company's industry is subject to intense competitive pressures.***

The Company operates in markets that are highly competitive. The Company competes on the basis of price, product performance and quality, service, and / or brand name across the industries and markets it serves. Competitive pressures could affect the prices the Company is able to charge its customers or demand for its products.

The Company may not always be able to compete on price, particularly when compared to manufacturers with lower cost structures. Some of the Company's competitors have substantially greater sales, financial and manufacturing resources and may have greater access to capital than the Company. As other companies enter its markets or develop new products, competition may further intensify. The Company's failure to compete effectively could materially adversely affect its business, financial condition, and results of operations.

***The Company engages in strategic acquisitions and may not realize the anticipated benefits of the acquisitions and / or may encounter difficulties in integrating these businesses.***

The Company seeks to grow through strategic acquisitions. In the past, the Company has acquired a number of businesses or companies and additional product lines and assets. The Company intends to continue to expand and diversify its operations with additional future acquisitions.

An acquired business, technology, service or product could under-perform relative to the Company's expectations and the price paid for it, or not perform in accordance with the Company's anticipated timetable. This could cause the Company's financial results to differ from expectations in any given fiscal period, or over the long term. The success of these transactions also depends on the Company's ability to integrate the assets, operations, and personnel associated with these acquisitions. The Company may encounter difficulties in integrating acquisitions with the Company's operations and may not realize the degree or timing of the benefits that are anticipated from an acquisition.

The Company may also discover liabilities or deficiencies associated with the companies or assets it acquires that were not identified in advance, which may result in significant unanticipated costs. The effectiveness of the Company's due diligence review and its ability to evaluate the results of such due diligence are dependent upon the accuracy and completeness of statements and disclosures made or actions taken by the companies acquired or their representatives, as well as the limited



amount of time in which acquisitions are executed. In addition, the Company may fail to accurately forecast the financial impact of an acquisition transaction, including tax and accounting charges. Acquisitions may also result in recording of significant additional expenses to the results of operations and recording of substantial intangible assets on the balance sheet upon closing. Any of these factors may adversely affect the Company's financial condition and results of operations.

***Disruptions in the Company's manufacturing, supply or distribution chain could result in an adverse impact on results of operations.***

The Company sources materials and sells product through various global network channels. A disruption could occur within the Company's manufacturing, distribution or supply chain network. This could include damage or destruction due to various causes including natural disasters or political instability which would cause one or more of these network channels to become non-operational. This could adversely affect the Company's ability to manufacture or deliver its products in a timely manner, impair its ability to meet customer demand for products and result in lost sales or damage to its reputation. Such a disruption could have a material adverse effect on the Company's business, financial condition and results of operations.

***The Company may be unable to manufacture and deliver products in a manner that is responsive to its customers' needs.***

The end markets for the Company's products are characterized by technological change, frequent new product introductions and enhancements, changes in customer requirements and emerging industry standards. The introduction of products embodying new technologies and the emergence of new industry standards could render its existing products obsolete and unmarketable before it can recover any or all of its research, development, and commercialization expenses on capital investments. Furthermore, the life cycles of its products may change and are difficult to estimate.

The Company's future success will depend upon its ability to manufacture and deliver products in a manner that is responsive to its customers' needs. The Company will need to develop and introduce new products and product enhancements on a timely basis that keep pace with technological developments and emerging industry standards and address increasingly sophisticated requirements of its customers. The Company invests heavily in research and development without knowing if it will recover these costs. The Company's competitors may develop products or technologies that will render its products non-competitive or obsolete. If it cannot develop and market new products or product enhancements in a timely and cost-effective manner, its business, financial condition and results of operations could be materially adversely affected.

***The Company's business may be interrupted by labor disputes or other interruptions of supplies.***

A work stoppage could occur at certain Company facilities, most likely as a result of disputes under collective bargaining agreements or in connection with negotiations of new collective bargaining agreements. In addition, the Company may experience a shortage of supplies for various reasons, such as financial distress, work stoppages, natural disasters, or production difficulties that may affect one of its suppliers. A significant work stoppage, or an interruption or shortage of supplies for any reason, if protracted, could substantially adversely affect the Company's business, financial condition and results of operations.

***Failure to attract and retain qualified personnel could affect the Company's business results.***

The Company's success in its existing and acquired businesses, depends on the Company's ability to attract, retain, and motivate a highly-skilled and diverse management team and workforce. Failure to ensure that the Company has the depth and breadth of personnel with the necessary skill set and experience could impede its ability to deliver growth objectives and execute the Company's strategy. Competition for qualified employees among companies that rely heavily upon engineering and technology is at times intense, and the loss of qualified employees could hinder the Company's ability to conduct research activities successfully and develop marketable products.

***The Company may not be successful protecting its intellectual property.***

The Company considers its intellectual property, including patents, trade names, and trademarks, to be of significant value to its business as a whole. The Company's products are manufactured, marketed, and sold under a portfolio of patents, trademarks, licenses, and other forms of intellectual property, some of which expire or are allowed to lapse at various dates in the future. The Company develops and acquires new intellectual property on an ongoing basis and considers all of its intellectual property to be valuable. The Company's policy is to file applications and obtain patents for the great majority of its novel and innovative new products including product modifications and improvements. Based on the broad scope of its product lines, the Company believes that the loss or expiration of any single intellectual property right would not have a material adverse effect upon its consolidated results of operations, financial position and cash flows; however, multiple losses or expirations could have a material adverse effect upon the Company's consolidated results of operations, financial position and cash flows.

## **2) Regulatory Risks:**

***Climate change, and the regulatory and legislative developments related to climate change, may have a material adverse impact on our business and results of operations.***

The potential physical impacts of climate change on our business operations are highly uncertain and differ in each geographic region where we operate. These impacts may include changes in weather patterns and increased weather intensity, water shortages, changing sea levels and changing temperatures. The impacts of climate change may materially and adversely impact the cost of production, insurance availability, and financial performance of our operations. Further, any impacts to our business and financial condition as a result of climate change are likely to occur over a sustained period of time and are therefore difficult to quantify with any degree of specificity. For example, extreme weather events may result in adverse physical effects on portions of our or others infrastructure, which could disrupt our supply chain and our customers and ultimately our business operations. In addition, disruption of transportation and distribution systems could result in reduced operational efficiency and customer service interruption. Climate-related events have the potential to disrupt our business, including the business of our suppliers and customers, and may cause us to experience higher attrition, and additional costs to resume operations.

Increased government or governmental bodies contemplating legislative and regulatory changes in response to the potential impact of climate change could impose significant costs on us and our suppliers and customers, including increased cost of materials and natural resources, sources and supply of energy, capital equipment, environmental monitoring and reporting, or other costs to comply with such regulations. Potential regulations or standards could mandate more restrictive manufacturing requirements, such as stricter limits on greenhouse gas emissions and material used in production. Any future climate change regulations could also adversely impact our ability to compete with companies not subject to such regulations.

***Changes in U.S. and other countries trade policy, including the imposition of tariffs and the resulting consequences, may have a material adverse impact on our business and results of operations.***

In the past several years, the U.S. government adopted a new approach to trade policy and in some cases to renegotiate, or potentially terminate, certain existing bilateral or multi-lateral trade agreements. It also imposed tariffs on certain foreign goods and products. These measures may materially increase costs for goods imported into the U.S. This in turn could require us to materially increase prices to our customers which may reduce demand, or, if we do not or are unable to increase prices, could result in lower margins on products sold. Changes in U.S. trade policy have resulted in, and could result in more, U.S. trading partners adopting responsive trade policies making it more difficult or costly for us to export our products to those countries. Additionally, continued geo-political issues may result in customers in China seeking to source products from local suppliers, which could result in lower sales or lost customers.

***The Company is exposed to political, economic, and other risks that arise from operating a multinational business.***

The Company's customers, suppliers, employees and operations are located in numerous countries around the world, and contribute significantly to its revenues and earnings. Sales to customers outside the U.S. constituted approximately 64% of the Company's net sales in fiscal 2022. Many of the Company's key customers are located outside of U.S. and maintain global operations. Serving a global customer base and remaining competitive in the global marketplace requires the Company to diversify its operations outside the U.S. to capitalize on customer and market opportunities, build a global workforce and maintain a cost efficient structure. In addition, the Company sources a significant amount of raw materials, components and finished goods from third-party suppliers and contract manufacturers. The Company's operating activities are subject to a number of risks generally associated with multi-national operations, including risks relating to the following:

- general economic conditions;
- currency fluctuations and exchange restrictions;
- import and export duties and restrictions;
- the imposition of tariffs and other import or export barriers;
- compliance with regulations governing import and export activities;
- current and changing regulatory requirements;
- political and economic instability;
- potentially adverse income tax consequences;
- transportation delays and interruptions;
- labor unrest;
- natural disasters;

- terrorist activities;
- war and acts of war
- public health concerns, including the outbreak of the coronavirus or other pandemics;
- difficulties in staffing and managing multi-national operations; and
- limitations on the Company's ability to enforce legal rights and remedies.

Any of these factors could have a material adverse effect on the Company's consolidated results of operations, financial position and cash flows.

***The effects of the COVID-19 pandemic could adversely affect our business, results of operations and financial condition.***

The coronavirus (COVID-19) pandemic and related measures to reduce its spread have impacted, and may continue to impact, our operations across markets in which the Company operates and those of our suppliers, customers and distributors. Although COVID-19 had less of an effect on fiscal year 2022 as compared to fiscal year 2021, the extent to which the COVID-19 pandemic will continue to affect our business, results of operations and financial condition is difficult to predict and depends on numerous evolving factors including the duration and scope of the pandemic; government, social, business and other actions that have been and will be taken in response to the pandemic including lockdowns and travel restrictions; appearance of new variants of COVID-19; the availability, adoption and efficacy of vaccines and treatments. In addition, any economic downturn or recession brought on by the COVID-19 pandemic or other public health crises could adversely affect demand for our products and impact our results of operations and financial condition. These effects, alone or taken together, could have a material adverse effect on our business, results of operations, or financial condition.

***Environmental liabilities could adversely impact the Company's financial position.***

Foreign, federal, state and local laws and regulations impose various restrictions and controls on the discharge of materials, chemicals and gases used in the Company's manufacturing processes or in its finished goods. These environmental regulations have required the Company to expend a portion of its resources and capital on relevant compliance programs. Under these laws and regulations, the Company could be held financially responsible for remedial measures if its current or former properties are contaminated or if it sends waste to a landfill or recycling facility that becomes contaminated, even if the Company did not cause the contamination. The Company may be subject to additional common law claims if it releases substances that damage or harm third parties. In addition, future changes in environmental laws or regulations may require additional investments in capital equipment or the implementation of additional compliance programs. Any failure to comply with new or existing environmental laws or regulations could subject the Company to significant liabilities and could have a material adverse effect on its consolidated results of operations, financial position and cash flows.

In the conduct of manufacturing operations, the Company has handled and does handle materials that are considered hazardous, toxic or volatile under federal, state, and local laws. The risk of accidental release of such materials cannot be completely eliminated. In addition, the Company operates or owns facilities located on or near real property that was formerly owned and operated by others. Certain of these properties were used in ways that involved hazardous materials. Contaminants may migrate from, within or through these properties. These releases or migrations may give rise to claims. Where third parties are responsible for contamination, the third parties may not have funds, or not make funds available when needed, to pay remediation costs imposed upon the Company under environmental laws and regulations.

The Company is responsible for the maintenance of discontinued coal mining operations in Germany. The risk of environmental remediation exists, and the Company is in the process of remediating the mines considered to be the most at risk.

**3) Financial Risks:**

***Reorganization activities may lead to additional costs and material adverse effects.***

In the past, the Company has taken actions to restructure and optimize its production and manufacturing capabilities and efficiencies through relocations, consolidations, plant closings or asset sales. In the future, the Company may take additional restructuring actions including the consolidating, closing or selling of additional facilities. These actions could result in impairment charges and various charges for such items as idle capacity, disposition costs and severance costs, in addition to normal or attendant risks and uncertainties. The Company may be unsuccessful in any of its current or future efforts to restructure or consolidate its business. Plans to minimize or eliminate any loss of revenues during restructuring or consolidation may not be achieved. These activities may have a material adverse effect upon the Company's business, financial condition and results of operations.

***The Company's ability to manage currency or commodity price fluctuations or supply shortages is limited.***

As a resource-intensive manufacturing operation, the Company is exposed to a variety of market and asset risks, including the effects of changes in commodity prices, foreign currency exchange rates, and interest rates. The Company has multiple sources of supply for the majority of its commodity requirements. The Company saw a reduction in supply chain constraints and costs during the second half of 2022, including material availability and transportation costs and expects to see further supply chain improvements during 2023. The Company increased its prices during both 2022 and 2021 to help mitigate the impact of rising input costs. However, if future significant shortages disrupt the supply of raw materials or result in price increases, this could affect prices the Company charges its customers, its product costs, and the competitive position of its products and services. The Company monitors and manages exposures in changes in commodity prices, foreign currency exchange rates, and interest rates as an integral part of its overall risk management program, which recognizes the unpredictability of markets and seeks to reduce the potentially adverse effects on its results. Nevertheless, changes in currency exchange rates, commodity prices and interest rates cannot always be predicted. In addition, because of intense price competition and the Company's high level of fixed costs, it may not be able to address such changes even if they are foreseeable. Substantial changes in these rates and prices could have a material adverse effect on the Company's results of operations and financial condition. In addition, significant portions of its revenues and earnings are exposed to changes in foreign currency rates. As it operates in multiple foreign currencies, changes in those currencies relative to the U.S. dollar will impact its revenues and expenses. The impact of possible currency devaluation in countries experiencing high inflation rates or significant exchange fluctuations can impact the Company's results and financial guidance. For additional discussion of interest rate, currency or commodity price risk, see Item 7A, *Quantitative and Qualitative Disclosures about Market Risk*.

***The Company's effective tax rate could materially increase as a consequence of various factors, including U.S. and/or international tax legislation, mix of the Company's earnings by jurisdiction, and U.S. and non-U.S. jurisdictional tax audits.***

The Company is subject to taxes in the U.S. and numerous non-U.S. jurisdictions. Therefore, it is subject to changes in tax laws in each of these jurisdictions, including changes discussed in the paragraphs below. The outcome of these and other legislative developments, including changes to interpretations of recently enacted legislation, could have a material adverse effect on the Company's future effective tax rate and cash flows.

The Organization for Economic Cooperation and Development ("OECD") has been working with a group of more than 100 countries to significantly change the tax treatment of multinational businesses, subjecting them to tax in additional jurisdictions, modifying the methods by which they allocate profits among jurisdictions, and subjecting them to a minimum level of tax of 15%, on a country-by-country-basis. As part of this effort, in December of 2021, the OECD published model rules to assist with implementation of the minimum tax regime.

In December of 2022, the European Union reached an agreement pursuant to which all European Union countries agreed to enact laws based upon the OECD-led minimum tax proposals. Such law changes, if enacted, would be effective beginning in 2024. Other countries outside the European Union are also expected to enact rules that will incorporate the OECD-led minimum tax proposals and go into effect beginning in 2024. The Company's income tax rate in certain non-U.S. jurisdictions is lower than 15%. Enactment of these minimum tax proposals, and the other proposals discussed above, could have a material adverse effect on the Company's future effective tax rate and cash flows.

The Company has two subsidiaries in China which benefit from lower income tax rates due to "tax holidays" which apply for three-year periods. The tax holiday for one of the subsidiaries expired at the end of 2022, and for the other subsidiary the tax holiday will expire at the end of 2023. The Company intends to apply for renewals of these tax holidays, but future year tax benefits will depend upon the Company's ability to obtain extensions, after the three-year periods expire. There can be no assurance that future extensions will be granted.

The tax rates applicable in the jurisdictions within which the Company operates vary widely. Therefore, the Company's effective tax rate may be adversely affected by changes in the mix of its earnings by jurisdiction.

The Company's tax returns are subject to examination by various U.S. and non-U.S. tax authorities, including the U.S. Internal Revenue Service. The Company regularly assesses the likelihood of an adverse outcome resulting from these examinations to determine the adequacy of its provision for income taxes. However, there can be no assurance as to the outcome of these examinations.

***A decline in expected profitability of the Company or individual reporting units of the Company could result in the impairment of assets, including goodwill and other long-lived assets.***

The Company continues to hold material amounts of goodwill and other long-lived assets on its balance sheet. A decline in expected profitability, particularly if there is a decline in the global economy, could call into question the recoverability of the Company's related goodwill and other long-lived tangible and intangible assets and require the write-down or write-off of these

assets. Such an occurrence could have a material adverse effect on the Company's consolidated results of operations, financial position and cash flows.

***A significant fluctuation between the U.S. dollar and other currencies could adversely impact the Company's revenue and earnings.***

Although the Company's financial results are reported in U.S. dollars, the majority of the Company's operations consist of manufacturing and sales activities in foreign countries. The Company's most significant net long exposure is to the euro. The Company's most significant net short exposures are to the Chinese renminbi, Mexican peso, and Philippine peso. Changes in foreign exchange rates could have an adverse effect on the Company's results of operations, financial position and cash flows.

***The Company's revenues may vary significantly from period to period.***

The Company's revenues may vary significantly from one period to another due to a variety of factors including:

- changes in customers' buying decisions;
- changes in demand for its products;
- changes in its distributor inventory stocking;
- the Company's product mix;
- the Company's effectiveness in managing manufacturing processes;
- costs and timing of its component purchases;
- the effectiveness of its inventory control;
- the degree to which it is able to utilize its available manufacturing capacity;
- the Company's ability to meet delivery schedules;
- general economic and industry conditions;
- local conditions and events that may affect its production volumes, such as labor conditions and political instability; and
- seasonality of certain product lines.

***The bankruptcy or insolvency of a major customer could adversely affect the Company.***

The bankruptcy or insolvency of a major customer could result in lower sales revenue and cause a material adverse effect on the Company's consolidated results of operations, financial position and cash flows. In addition, the bankruptcy or insolvency of a major auto manufacturer or significant supplier likely could lead to substantial disruptions in the automotive supply base, resulting in lower demand for the Company's products, which would likely cause a decrease in sales revenue and have a substantial adverse impact on the Company's consolidated results of operations, financial position and cash flows.

***The inability to maintain access to capital markets may adversely affect the Company's business and financial results.***

The Company's ability to invest in its businesses, make strategic acquisitions, and refinance maturing debt obligations may require access to the capital markets and sufficient bank credit lines to support short-term borrowings. If the Company is unable to access the capital markets or bank credit facilities, it could experience a material adverse effect on its consolidated results of operations, financial position and cash flows.

***Fixed costs may reduce operating results if sales fall below expectations.***

The Company's expense levels are based, in part, on its expectations for future sales. Many of the Company's expenses, particularly those relating to capital equipment and manufacturing overhead, are relatively fixed. The Company might not be able to reduce spending quickly enough to compensate for reductions in sales. Accordingly, shortfalls in sales could materially and adversely affect the Company's consolidated results of operations, financial position and cash flows.

***The volatility of the Company's stock price could affect the value of an investment in the Company's stock and future financial position.***

The market price of the Company's stock can fluctuate widely. Between January 1, 2022 and December 31, 2022, the closing sale price of the Company's common stock ranged between a low of \$197.16 and a high of \$326.82. The volatility of the stock price may be related to any number of factors, such as volatility in the financial markets, general macroeconomic conditions, industry conditions, market expectations concerning the Company's results of operations, or the volatility of its revenues as discussed above under "The Company's revenues may vary significantly from period to period." The historic market price of

the Company's common stock may not be indicative of future market prices. The Company may not be able to sustain or increase the value of its common stock. Declines in the market price of the Company's stock could adversely affect the Company's ability to retain personnel with stock incentives, to acquire businesses or assets in exchange for stock and/or to conduct future financing activities with or involving the Company's common stock.

***The Company is exposed to, and may be adversely affected by, potential security breaches or other disruptions to its information technology systems and data security.***

The Company relies on its information technology systems and networks in connection with many of its business activities. Some of these networks and systems are managed directly by the Company, while others are managed by third-party service providers and are not under the Company's direct control. The Company's operations routinely involve receiving, storing, processing and transmitting sensitive information pertaining to its business, customers, dealers, suppliers, employees, and other sensitive matters. As with most companies, the Company has experienced cyber-attacks, attempts to breach its systems, and other similar incidents, none of which have been material. Any future cyber incidents could, however, materially disrupt operational systems; result in loss of trade secrets or other proprietary or competitively sensitive information; compromise personally identifiable information regarding employees or customers or other third parties; and jeopardize the security of the Company's facilities. A cyber incident could be caused by malicious outsiders using sophisticated methods to circumvent firewalls, encryption, and other security defenses. Because techniques used to obtain unauthorized access or to sabotage systems change frequently and generally are not recognized until they are launched against a target, the Company may be unable to anticipate these techniques or to implement adequate preventative measures. Information technology security threats, including security breaches, computer malware, and other cyber-attacks are increasing in both frequency and sophistication and could create financial liability, subject the Company to legal or regulatory sanctions or damage the Company's reputation with customers, dealers, suppliers, and other stakeholders. The Company continuously seeks to maintain a robust program of information security and controls, but the impact of a material information technology event could have a material adverse effect on the Company's competitive position, reputation, results of operations, financial position and cash flows.

***Customer demands and regulations related to conflict-free minerals may force the Company to incur additional expenses.***

The Dodd-Frank Wall Street Reform and Consumer Protection Act requires disclosure of use of "conflict" minerals mined from the Democratic Republic of Congo and adjoining countries and efforts to prevent the use of such minerals. In the semiconductor industry, these minerals are most commonly found in metals. As there may be only a limited number of suppliers offering "conflict free" metals, the Company cannot be certain that it will be able to obtain necessary metals in sufficient quantities or at competitive prices. Also, the Company may face challenges with its customers and suppliers if it is unable to sufficiently verify that the metals used in its products are "conflict free."

**ITEM 1B. UNRESOLVED STAFF COMMENTS.**

None.

**ITEM 2. PROPERTIES.**

The Company's engineering and research and development, manufacturing, sales, warehouses, and distribution centers are located in approximately 93 owned or leased facilities worldwide with primary operations in China, France, Germany, India, Italy, Japan, Lithuania, Mexico, Netherlands, Philippines, South Korea, U.K, the U.S., and Vietnam totaling approximately 4.8 million square feet. The Company's owned facilities include approximately 2.6 million square feet and the Company's leased facilities include approximately 2.2 million square feet. The Company's corporate headquarters is located in the U.S. in Chicago, Illinois.

The Company believes its facilities are adequate to meet its requirements for the foreseeable future.

**ITEM 3. LEGAL PROCEEDINGS.**

The Company is not a party to any material legal proceedings, other than routine litigation incidental to its business.

**ITEM 4. MINE SAFETY DISCLOSURES.**

Not applicable.

**Information about our Executive Officers.**

The executive officers of the Company are as follows:

Name	Age	Position
David W. Heinzmann	59	President and Chief Executive Officer
Meenal A. Sethna	53	Executive Vice President and Chief Financial Officer
Ryan K. Stafford	55	Executive Vice President, Mergers and Acquisitions, Chief Legal Officer and Corporate Secretary
Maggie Chu	54	Senior Vice President and Chief Human Resources Officer
Matthew J. Cole	51	Senior Vice President, eMobility and Corporate Strategy
Alexander Conrad	57	Senior Vice President and General Manager, Passenger Vehicle Business
Deepak Nayar	63	Senior Vice President and General Manager, Electronics Business

**David W. Heinzmann**, President and Chief Executive Officer and a member of the Board of Directors. Mr. Heinzmann began his career at Littelfuse in 1985 as a manufacturing engineer and has held positions of increasing responsibility since that time, including Vice President, Global Operations, from 2007 to 2014, and Chief Operating Officer from 2014 until assuming his current position in 2017.

**Meenal A. Sethna**, Executive Vice President and Chief Financial Officer. Ms. Sethna joined Littelfuse in 2015 as Senior Vice President of Finance until assuming her current position in 2016. Prior to joining Littelfuse, Ms. Sethna served from 2011 to 2015 as Vice President and Corporate Controller of Illinois Tool Works Inc., a diversified manufacturer of specialized industrial equipment, consumables, and related service businesses. Ms. Sethna is a Certified Public Accountant in Illinois.

**Ryan K. Stafford**, Executive Vice President, Mergers and Acquisitions, Chief Legal Officer and Corporate Secretary. Mr. Stafford joined Littelfuse as its first General Counsel and Chief Human Resources Officer in 2007, became Corporate Secretary in 2017, and assumed his current position in 2021. Prior to joining Littelfuse, Mr. Stafford served in a number of roles at Tyco International Ltd., including Vice President of China Operations and Vice President & General Counsel for its Engineered Products & Services Business Segment.

**Maggie Chu**, Senior Vice President and Chief Human Resources Officer. Ms. Chu joined Littelfuse in 2021 as Senior Vice President and Chief Human Resources Officer. Prior to joining Littelfuse, Ms. Chu served from 2018 to 2021 at Caterpillar, Inc., a leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives, as Segment Human Resources Director for the Energy & Transportation segment and Corporate Services group. Prior to Caterpillar, Ms. Chu spent 15 years with General Electric Company, a high-tech industrial company, in a number of global human resources leadership roles across several of General Electric's industrial businesses.

**Matthew J. Cole**, Senior Vice President, eMobility and Corporate Strategy. Mr. Cole joined Littelfuse in 2015 as Senior Vice President and General Manager, Industrial Business Unit, and in 2019 became Senior Vice President, Business Development and Corporate Strategy until assuming his current position in 2021. Prior to joining Littelfuse, Mr. Cole served from 2009 to 2015 as Vice President and General Manager of the Advanced Measurement Technology division of AMETEK, a global leader in electronic instruments and electromechanical devices.

**Alexander Conrad**, Senior Vice President and General Manager, Passenger Vehicle Business. Mr. Conrad joined Littelfuse in 2005 as Sales Manager, Germany & Eastern Europe. He then held various positions of increasing responsibility at Littelfuse including Sales Director EMEA; Global Director of Sales; Managing Director, Passenger Car Products from 2013 to 2014; and Vice President, Passenger Car Products, from 2015 until assuming his current position in 2018.

**Deepak Nayar**, Senior Vice President and General Manager, Electronics Business. Mr. Nayar joined Littelfuse in 2005 as Business Line Director of the Electronics Business Unit. He then held various positions of increasing responsibility at Littelfuse including Vice President, Global Sales, Electronics Business Unit; Senior Vice President, Electronics Business Unit from 2011 until 2019; and Senior Vice President and General Manager, Electronics and Industrial Business from 2019 until assuming his current position in 2022.

## PART II

### ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES.

Shares of the Company's common stock are traded under the symbol "LFUS" on the NASDAQ Global Select Market<sup>SM</sup>.

#### Number of Holders

As of February 10, 2023, there were 55 holders of record of the Company's common stock.

#### Dividend Policy

The future dividend policy will be determined by the Board of Directors based upon its evaluation of earnings, cash availability, and general business prospects. Currently, there are restrictions on the payment of dividends contained in the Company's credit agreements that relate to the maintenance of certain financial ratios. However, the Company expects to continue paying cash dividends on a quarterly basis for the foreseeable future.

#### Recent Sales of Unregistered Securities

There were no sales of unregistered securities by us or affiliates during the fiscal year ended December 31, 2022.

#### Purchases of Equity Securities

On April 29, 2020, the Company announced that the Board of Directors authorized a new program to repurchase up to 1,000,000 shares of the Company's common stock for the period May 1, 2020 to April 30, 2021 (the "2020 program"). On April 28, 2021, the Company announced that the Board of Directors authorized a new three-year program to repurchase up to \$300 million in the aggregate of shares of the Company's common stock for the period May 1, 2021 to April 30, 2024 to replace its previous 2020 program.

The Company did not repurchase shares of its common stock during the fiscal year ended December 31, 2022. There are \$300 million in the aggregate of shares available for purchase under the new program as of December 31, 2022.

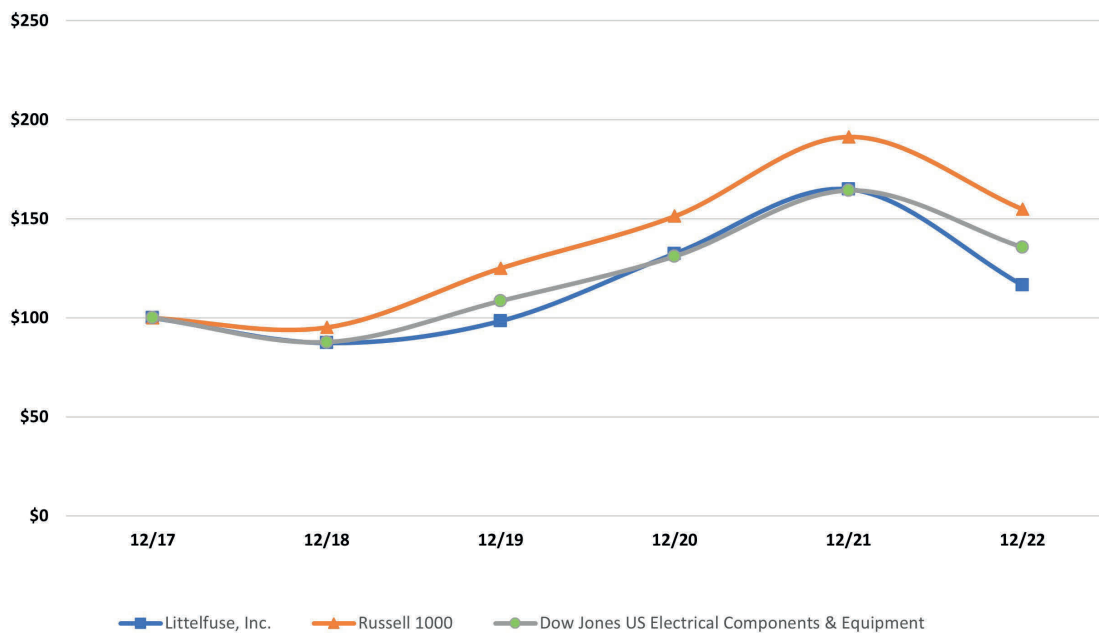
#### Stock Performance Graph

*The following stock performance graph and related information shall not be deemed "soliciting material" or "filed" with the Securities and Exchange Commission, nor shall such information be incorporated by reference into any future filings under the Securities Act of 1933 or Securities Exchange Act of 1934, each as amended, except to the extent that the Company specifically incorporates it by reference into such filing.*

The following stock performance graph compares the five-year cumulative total return on Littelfuse common stock to the five-year cumulative total returns on the Russell 1000 Index and the Dow Jones Electrical Components and Equipment Industry Group Index. The Company believes that the Russell 1000 Index and the Dow Jones Electrical Components and Equipment Industry Group Index represent a broad market index and peer industry group for total return performance comparison. The stock performance shown on the graph below represents historical stock performance and is not necessarily indicative of future stock price performance.



**COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN\***  
**Among Littelfuse, Inc., the Russell 1000 Index,**  
**the Dow Jones US Electrical Components & Equipment Index**



\*\$100 invested on 12/31/17 in stock or index, including reinvestment of dividends.  
 Fiscal year ending December 31.

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 Copyright© 2023 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.  
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	<u>12/2017</u>	<u>12/2018</u>	<u>12/2019</u>	<u>12/2020</u>	<u>12/2021</u>	<u>12/2022</u>
Littelfuse, Inc.	\$ 100	\$ 87	\$ 99	\$ 132	\$ 165	\$ 116
Russell 1000	100	95	125	151	191	155
Dow Jones US Electrical Components & Equipment	100	88	109	131	164	136

The Dow Jones Electrical Components and Equipment Industry Group Index includes the common stock of A. O. Smith Corp.; AAON, Inc.; American Superconductor Corp.; AMETEK, Inc.; Amphenol Corp.; Arrow Electronics, Inc.; Avnet, Inc.; AVX Corp.; Capstone Turbine Corp.; CTS Corp.; General Cable Corp.; Hubbell Inc. Class B; Jabil Circuit, Inc.; Littelfuse, Inc.; Methode Electronics, Inc.; Plexus Corp.; Powerwave Technologies, Inc.; Regal-Beloit Corp.; Vicor Corp.; and Vishay Intertechnology, Inc.

For Littelfuse, Inc. and all indexes noted above, a \$100 investment made on December 30, 2017 and reinvestment of all dividends is assumed. Returns for the Company's fiscal years presented above are as of the last day of the respective fiscal year which was December 29, 2018, December 28, 2019, December 26, 2020, January 1, 2022, and December 31, 2022 for the fiscal years 2018, 2019, 2020, 2021 and 2022, respectively.

## ITEM 6. [RESERVED.]

## ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

The following discussion of the Company's financial condition and results of operations should be read together with the Consolidated Financial Statements and notes to those statements included in Item 8 of Part II of this Annual Report on Form 10-K.

### BUSINESS

For a description of the Company's business, segments and product offerings, see Item 1, *Business*.

### 2022 EXECUTIVE OVERVIEW

Net sales were \$2,513.9 million, which increased by \$434.0 million or 20.9% in 2022 compared to 2021. The increase was primarily driven by higher volume and price realization in the Electronics and Industrial segments, \$202.8 million or 9.8% of incremental net sales from the Carling acquisition within the Transportation segment and \$81.7 million or 3.9% of net sales from the C&K acquisition within the Electronics segment, partially offset by \$65.3 million or 3.1% of unfavorable changes in foreign exchange rates. The Company recognized net income of \$373.3 million, or \$14.94 per diluted share, in 2022 compared to net income of \$283.8 million, or \$11.38 per diluted share in 2021. The increase in net income is primarily due to an increase in operating income of \$122.0 million and \$26.2 million in the Electronics and Industrial segments, respectively, partially offset by higher interest expense of \$7.7 million and foreign exchange losses of \$7.2 million.

Supply chain constraints, including material shortages and transportation capacity and costs impacted the Company, its suppliers and customers during the first half of 2022 and to a lesser extent during the second half of 2022. The Company expects to see continued improvement in supply chain availability during 2023.

Net cash provided by operating activities was \$419.7 million for the fiscal year ended December 31, 2022 representing an increase of \$46.4 million as compared to the fiscal year ended January 1, 2022. The increase in net cash provided by operating activities was primarily due to higher cash earnings partially offset by increases in working capital resulting from higher sales growth and larger annual incentive bonus payments made in 2022 as compared to 2021.

On June 30, 2022, the Company amended and restated its Credit Agreement, dated as of April 3, 2020 (as so amended and restated, the "Credit Agreement") to effect certain changes, including, among other changes: (i) adding a \$300 million unsecured term loan credit facility; (ii) making certain financial and non-financial covenants less restrictive on the Company and its subsidiaries; (iii) replacing LIBOR-based interest rate benchmarks and modifying performance-based interest rate margins; and (iv) extending the maturity date to June 30, 2027 (the "Maturity Date"). Pursuant to the Credit Agreement, the Company may, from time to time, increase the size of the revolving credit facility or enter into one or more tranches of term loans in minimum increments of \$25 million if there is no event of default and the Company is in compliance with certain financial covenants.

On February 3, 2023, the Company acquired Western Automation Research and Development Limited ("Western Automation") for approximately \$162 million in cash. Headquartered in Galway, Ireland, Western Automation is a designer and manufacturer of electrical shock protection devices used across a broad range of high-growth end markets, including e-Mobility off-board charging infrastructure, industrial safety and renewables. Western Automation has annualized sales of approximately \$25 million and will be reported within the company's Industrial segment. The company does not expect the acquisition to have a material impact to its 2023 financial results. The Company financed the transaction with cash on hand.

On July 19, 2022, the Company acquired C&K for \$540 million in cash. Founded in 1928, C&K is a leading designer and manufacturer of high-performance electromechanical switches and interconnect solutions with a strong global presence across a broad range of end markets, including industrial, transportation, datacom, and aerospace. At the time the Company and C&K entered into a definitive agreement, C&K had annualized sales of over \$200 million. The business is reported as part of the electronics-passive products and sensors business within the Company's Electronics segment. The Company financed the transaction through a combination of cash on hand and debt.

### Impact of COVID-19 on Business

The effects from COVID-19 continue to drive higher ongoing costs including spending on personal protective equipment ("PPE"), additional personnel and employee transportation costs, and manufacturing inefficiencies as well as an increase in material costs and transportation costs due to global supply chain and logistics constraints around the world.

Although COVID-19 had less of an effect on fiscal year 2022 as compared to fiscal year 2021, it is difficult to estimate the ongoing magnitude of future COVID-19 disruptions, and its potential impact on the Company's employees, customers, suppliers and vendors. The Company will continue to actively monitor the situation and may take further actions altering its business operations that the Company determines are in the best interests of its employees, customers, partners, suppliers, and other stakeholders, or as required by federal, state, or local authorities. It is not clear what the potential effects any such alterations or modifications may have on the Company's business and operations, including the effects on its customers, employees, and prospects, or on the Company's financial results for the fiscal year 2023.

### **Risks Related to Market Conditions**

The Company continues to operate in a more volatile macro environment, including events related to the war in Ukraine. Although the Company does not have any direct operations in Ukraine or Russia, it had a modest impact on the Company, including higher transportation costs due to the Company modifying its shipping logistics as well as suspending sales into and purchases from Russia. Additionally, the war impacted some of the Company's customers who had lower production levels during 2022 due to shut-downs and ongoing material shortages.

## **OUTLOOK**

### *Vision and Strategy*

The Company closely collaborates with strategic customers to design and manufacture innovative and reliable solutions to help empower a sustainable, connected, and safer world in virtually every market that uses electrical energy.

Within transportation end markets, the Company's products are found in passenger vehicles and commercial vehicles, like material handling equipment, heavy-duty truck and bus, off-road and recreational vehicles, construction equipment, agricultural machinery, rail, marine and aerospace. The Company is also a key enabler of electrification, or eMobility, across these transportation applications, and EV charging infrastructure. The Company continues to advance its existing customer relationships with OEM, Tier One and channel partners while driving product content growth for advanced, high-growth applications.

Within industrial end markets, the Company's products are found in renewable energy and energy storage applications, HVAC, factory automation and industrial safety, industrial motor drives and power conversion, and heavy and general industrial type applications. The Company utilizes its deep technical engineering capabilities and design support to drive product content growth across high-growth applications like renewables, energy storage, HVAC, and industrial automation and safety.

Within electronics end markets, the Company's products are found in data center, cloud storage and telecom infrastructure applications, building technologies and automation, appliances, medical devices, gaming and entertainment applications and mobile electronics. The Company leverages its strategic distribution partnerships and deep OEM relationships, coupled with its comprehensive product offerings, to drive product content growth across a broad range of applications.

The Company expects the ever-increasing complexity of application architectures, driven by ongoing electronification and electrification across these end markets, to drive increasing product content opportunities. Built upon that framework, the Company has positioned itself around the structural growth themes of sustainability, connectivity, and safety, which will continue to drive increased demand for the Company's innovative, reliable solutions across the transportation, industrial and electronics end markets that it serves.

The Company's five-year strategic plan, built around these structural growth themes, is focused on delivering top-tier shareholder returns by driving double-digit sales growth, best-in-class profitability, earnings per share growth, strong cash flow generation, and deploying capital to drive value creation. The Company pursues the following major strategic objectives, which are summarized below, along with more specific areas of focus. The Company uses the financial measures below to gauge progress toward achieving these strategic objectives. These measures include organic sales growth, operating margins, cash flow from operations, and returns on invested capital.

<b>Strategic Objectives</b>	<b>Priorities</b>
<p><b>Double-digit sales growth</b> 5-7% average annual organic sales growth</p> <p>5-7% average annual growth from strategic acquisitions</p>	<ul style="list-style-type: none"> <li>● Increase product content with existing and new customers, and expand market share</li> <li>● Expand presence (i.e. with portfolio and infrastructure) into new and underpenetrated, high-growth geographies and end markets</li> <li>● Increase innovation capabilities and investments</li> <li>● Leverage breadth of go-to-market strategies</li> <li>● Target mergers and acquisitions that enhance and sustain organic growth</li> </ul>
<p><b>EPS growth</b> Earnings per share growth greater than revenue growth</p>	<ul style="list-style-type: none"> <li>● Focus on higher profitability growth opportunities</li> <li>● Improve operating margins through operational and commercial excellence</li> <li>● Disciplined approach to balancing costs with long-term strategic investments</li> </ul>
<p><b>Capital allocation and returns</b> Cash flow from operations less capital expenditures (free cash flow) is targeted to approximate or exceed net income</p> <p>Target 40% of free cash flow returned to shareholders</p> <p>Remainder focused on strategic acquisitions</p> <p>Return on invested capital percentage in the high-teens</p>	<ul style="list-style-type: none"> <li>● Disciplined management of working capital</li> <li>● Deployment of capital consistent with capital allocation priorities</li> <li>● Mergers and acquisitions that align with strategy and financial metrics</li> <li>● Grow dividend in line with earnings</li> <li>● Opportunistic share repurchases</li> </ul>

The Company's strategy is focused on accelerating organic growth by increasing its product content in applications and share gains, enhancing technology efforts to drive innovation, expanding its digital presence, capitalizing on cross segment opportunities, and gaining traction in underpenetrated, high-growth geographies and end markets. The Company also leverages strategic acquisitions to enhance and sustain its organic growth. The Company will continue to make targeted strategic acquisitions that align to its strategy and financial metrics to drive growth across its businesses, products, markets, and technologies while leveraging existing customers and targeting new customers.

Management believes that profitable growth through a combination of organic growth and strategic acquisitions is critical to the Company's competitiveness, while enhancing the value the Company delivers to all of its stakeholders. In addition, the Company continues to implement initiatives across all businesses to enhance productivity, and its commercial and operational capabilities, while managing its cost structure to align with business conditions, and the markets it serves. Primary areas of focus include optimizing its global operations, successfully integrating strategic acquisitions, and streamlining administrative and support activities to drive improved operating margins.

The Company seeks to deploy its capital consistent with its capital allocation priorities. These priorities include investments to drive increased organic growth, targeted acquisitions that align to the Company's strategic and financial metrics, and enhance and sustain its organic growth, and returning capital to shareholders through dividends and opportunistic share repurchases.

### **Critical Estimates and Significant Accounting Policies**

The preparation of financial statements in conformity with generally accepted accounting principle ("GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The Company's most critical accounting policies are those that are most important to the portrayal of its financial condition and results of operations, and which require the Company to make its most difficult and subjective judgments, often as a result of the need to make estimates of matters that are inherently uncertain. The Company has identified the following as its most critical accounting policies and judgments. Although management believes that its estimates and assumptions are reasonable, they are based upon information available when they are made, and therefore, actual results may

differ from these estimates under different assumptions or conditions. The Company has reviewed these critical accounting policies and related disclosures with the Audit Committee of its Board of Directors. Significant accounting policies are more fully described in the Notes to Consolidated Financial Statements included elsewhere in this Annual Report.

## **Critical Accounting Estimates**

### ***Goodwill***

The Company's methodology for allocating the purchase price of acquisitions is based on established valuation techniques that reflect the consideration of a number of factors, including valuations performed by third-party appraisers when appropriate. Goodwill is measured as the excess of the cost of an acquired entity over the fair value assigned to identifiable assets acquired and liabilities assumed. Based on its current organization structure, the Company has seven reporting units for which cash flows are determinable and to which goodwill has been allocated.

The Company annually tests goodwill for impairment on the first day of its fiscal fourth quarter, or more frequently if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying value. The Company also performs an interim review for indicators of impairment each quarter to assess whether an interim impairment review is required for any reporting unit. As part of its interim reviews, management analyzes potential changes in the value of individual reporting units based on each reporting unit's operating results for the period compared to expected results as of the prior year's annual impairment test. In addition, management considers how other key assumptions, including discount rates and expected long-term growth rates, used in the last annual impairment test, could be impacted by changes in market conditions and economic events.

There were no impairment charges recorded during the fiscal years of 2022 and 2021. During the second quarter of 2020, the Company recorded a non-cash charge of \$33.8 million to recognize the impairment of goodwill in the automotive sensors reporting unit within the Transportation segment.

### ***Quantitative Assessment for Impairment***

For the seven reporting units with goodwill, the Company compares the estimated fair value of each reporting unit to its carrying value. If the carrying value of a reporting unit exceeds the estimated fair value, the difference between the estimated fair value and carrying value is recorded as the amount of the goodwill impairment charge. The results of the goodwill impairment test as of October 2, 2022 indicated that the estimated fair values for each of the seven reporting units exceeded their respective carrying values. Accordingly, there were no goodwill impairment charges recorded as part of the Company's 2022 annual goodwill impairment test.

As part of its impairment test for these reporting units, the Company engaged a third-party appraisal firm to assist in the Company's determination of the estimated fair values. This determination included estimating the fair value of each reporting unit using both the income and market approaches. The income approach requires management to estimate a number of factors for each reporting unit, including projected operating results, economic projections, anticipated future cash flows, discount rates and the allocation of shared or corporate items. The market approach estimates fair values using comparable marketplace fair value data from within a comparable industry grouping. The Company weighted both the income and market approach equally to estimate the concluded fair value of each reporting unit. The determination of fair value requires the Company to make significant estimates and assumptions, which primarily include, but are not limited to: the selection of appropriate peer group companies; control premiums appropriate for acquisitions in which the Company competes; the discount rate; terminal growth rates; and forecasts of revenue, operating income, depreciation and amortization and capital expenditures.

### ***Goodwill Impairment Assumptions***

Although the Company believes its estimates of fair value are reasonable, actual financial results could differ from those estimates due to the inherent uncertainty involved in making such estimates. Changes in assumptions concerning future financial results or other underlying assumptions could have a significant impact on the fair value of the reporting units. Future declines in the overall market value of the Company's equity may also result in a conclusion that the fair value of one or more reporting units has declined below its carrying value.

One measure of the sensitivity of the amount of goodwill impairment charges to key assumptions is the amount by which each reporting unit "passed" (fair value exceeds the carrying value) the goodwill impairment test. All seven of the reporting units passed the goodwill impairment test, with fair values that exceeded the carrying values between 42% and 191% of their respective estimated fair values. As of the most recent annual test conducted on October 2, 2022, the Company noted that the

excess of fair value over the carrying value was 151%, 66%, 98%, 42%, 44%, 57%, and 191% for its reporting units: Electronics-Passive Products and Sensors, Electronics-Semiconductor, Passenger Car Products, Commercial Vehicle Products, Automotive Sensors, Relays, and Power Fuse, respectively. Relatively small changes in the Company's key assumptions would not have resulted in any reporting units failing the goodwill impairment test.

Generally, changes in estimates of expected future cash flows would have a similar effect on the estimated fair value of the reporting unit. That is, a 1.0% decrease in estimated annual future cash flows would decrease the estimated fair value of the reporting unit by approximately 1.0%. The estimated long-term net sales growth rate can have a significant impact on the estimated future cash flows, and therefore, the fair value of each reporting unit. A 1.0% decrease in the long-term net sales growth rate would have resulted in no reporting units failing the goodwill impairment test. Of the other key assumptions that impact the estimated fair values, most reporting units have the greatest sensitivity to changes in the estimated discount rate. The estimated discount rate was 13.4% for the Electronics-Passive Products and Sensors, the Passenger Car Products, and Commercial Vehicle Products reporting units, 14.3% for the Electronics-Semiconductor reporting unit, and 15.2% for each of the Automotive Sensors, Power Fuse and Relays reporting units. A 1.0% increase in the estimated discount rates would have resulted in no reporting units failing the annual goodwill impairment test. The Company believes that its estimates of future cash flows and discount rates are reasonable, but future changes in the underlying assumptions could differ due to the inherent uncertainty in making such estimates. Additionally, price deterioration or lower volume could have a significant impact on the fair values of the reporting units.

### ***Income Taxes***

The Company accounts for income taxes using the asset and liability method. Deferred taxes are recognized for the future effects of temporary differences between financial and income tax reporting using tax rates in effect for the years in which the differences are expected to reverse. The Company recognizes deferred taxes for temporary differences, operating loss carryforwards and tax credit and other tax attribute carryforwards (excluding carryforwards where usage has been determined to be remote). Deferred tax assets are reduced by a valuation allowance if it is more likely than not that some portion, or all, of the deferred tax assets will not be realized. U.S. state and non-U.S. income taxes are provided on the portion of non-U.S. income that is expected to be remitted to the U.S. and be taxable (and non-U.S. income taxes are provided on the portion of non-U.S. income that is expected to be remitted to an upper-tier non-U.S. entity). Deferred tax assets and liabilities are adjusted for the effects of changes in tax laws and rates on the date of enactment.

Deferred income taxes are not provided on the excess of the investment value for financial reporting over the tax basis of investments in those non-U.S. subsidiaries for which such excess is considered to be permanently reinvested in those operations. Management regularly evaluates whether non-U.S. earnings are expected to be permanently reinvested. This evaluation requires judgment about the future operating and liquidity needs of the Company and its non-U.S. subsidiaries. Changes in economic and business conditions, non-U.S. or U.S. tax laws, or the Company's financial situation could result in changes to these judgments and the need to record additional tax liabilities.

The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained on examination by the taxing authorities, based on the technical merits of the position. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than 50% likelihood of being realized upon ultimate settlement.

The 2017 Tax Cuts and Jobs Act (the "Tax Act"), among other things, imposed a one-time tax (the "Toll Charge") on accumulated earnings of certain non-U.S. subsidiaries and included base broadening provisions commonly referred to as the global intangible low-taxed income provisions ("GILTI").

In accordance with guidance issued by the Financial Accounting Standards Board ("FASB") staff, the Company has adopted an accounting policy to treat any GILTI inclusions as a period cost if and when incurred. Thus, for the fiscal years ended December 31, 2022, January 1, 2022, and December 26, 2020, deferred taxes were computed without consideration of the possible future impact of the GILTI provisions, and any current year impact was recorded as a part of the current portion of income tax expense.

Further information regarding income taxes, including a detailed reconciliation of current year activity, is provided in Note 14, *Income Taxes*, of the Notes to Consolidated Financial Statements included in this Annual Report.

### **Critical Accounting Policies**

#### ***Revenue Recognition***

#### ***Revenue Disaggregation***

The following table disaggregates the Company's revenue by primary business units for the fiscal years ended December 31, 2022 and January 1, 2022:

(in thousands)	Fiscal Year Ended December 31, 2022			
	Electronics Segment	Transportation Segment	Industrial Segment	Total
Electronics – Semiconductor	\$ 802,281	\$ —	\$ —	\$ 802,281
Electronics – Passive Products and Sensors	690,538	—	—	690,538
Commercial Vehicle Products	—	374,707	—	374,707
Passenger Car Products	—	249,470	—	249,470
Automotive Sensors	—	91,963	—	91,963
Industrial Products	—	—	304,938	304,938
Total	\$ 1,492,819	\$ 716,140	\$ 304,938	\$ 2,513,897

(in thousands)	Fiscal Year Ended January 1, 2022			
	Electronics Segment	Transportation Segment	Industrial Segment	Total
Electronics – Semiconductor	\$ 678,861	\$ —	\$ —	\$ 678,861
Electronics – Passive Products and Sensors	621,883	—	—	621,883
Passenger Car Products	—	266,020	—	266,020
Commercial Vehicle Products	—	160,300	—	160,300
Automotive Sensors	—	101,738	—	101,738
Industrial Products	—	—	251,126	251,126
Total	\$ 1,300,744	\$ 528,058	\$ 251,126	\$ 2,079,928

See Note 16, *Segment Information*, for net sales by segment and countries.

#### *Revenue Recognition*

The Company recognizes revenue on product sales in the period in which the Company satisfies its performance obligation and control of the product is transferred to the customer. The Company's sales arrangements with customers are predominately short term in nature and generally provide for transfer of control at the time of shipment as this is the point at which title and risk of loss of the product transfers to the customer. At the end of each period, for those shipments where title to the products and the risk of loss and rewards of ownership do not transfer until the product has been received by the customer, the Company adjusts revenues and cost of sales for the delay between the time that the products are shipped and when they are received by the customer. The amount of revenue recorded reflects the consideration to which the Company expects to be entitled in exchange for goods and may include adjustments for customer allowance, rebates and price adjustments. The Company's sales channels are primarily through direct sales and independent third-party distributors.

The Company has elected the practical expedient under Accounting Standards Codification ("ASC") 340-40-25-4 to expense commissions when incurred as the amortization period of the commission asset the Company would have otherwise recognized is less than one year.

#### *Revenue and Billing*

The Company generally accepts orders from customers through receipt of purchase orders or electronic data interchange based on written sales agreements and purchasing contracts. Contract pricing and selling agreement terms are based on market factors, costs, and competition. Pricing is often negotiated as an adjustment (premium or discount) from the Company's published price lists. The customer is invoiced when the Company's products are shipped to them in accordance with the terms of the sales agreement. As the Company's standard payment terms are less than one year, the Company has elected the practical expedient under ASC 606-10-32-18 to not assess whether a contract has a significant financing component. The Company also elected the practical expedient provided in ASC 606-10-25-18B to treat all product shipping and handling activities as fulfillment

activities, and therefore recognize the gross revenue associated with the contract, inclusive of any shipping and handling revenue.

#### *Ship and Debit Program*

Some of the terms of the Company's sales agreements and normal business conditions provide customers (distributors) the ability to receive price adjustments on products previously shipped and invoiced. This practice is common in the industry and is referred to as a "ship and debit" program. This program allows the distributor to debit the Company for the difference between the distributors' contracted price and a lower price for specific transactions. Under certain circumstances (usually in a competitive situation or large volume opportunity), a distributor will request authorization for pricing allowances to reduce its price. When the Company approves such a reduction, the distributor is authorized to "debit" its account for the difference between the contracted price and the lower approved price. The Company establishes reserves for this program based on historic activity, distributor inventory levels and actual authorizations for the debit and recognizes these debits as a reduction of revenue.

#### *Return to Stock*

The Company has a return to stock policy whereby certain customers, with prior authorization from the Company's management, can return previously purchased goods for full or partial credit. The Company establishes an estimated allowance for these returns based on historic activity. Sales revenue and cost of sales are reduced to anticipate estimated returns.

#### *Volume Rebates*

The Company offers volume-based sales incentives to certain customers to encourage greater product sales. If customers achieve their specific quarterly or annual sales targets, they are entitled to rebates. The Company estimates the projected amount of rebates that will be achieved by the customer and recognizes this estimated cost as a reduction to revenue as products are sold.

#### *Allowance for Credit Losses*

The Company currently measures the expected credit losses based on our historical credit loss experience. The Company has not experienced significant recent or historical credit losses and is not forecasting any significant credit losses which would require adjustments to our methodology. If current conditions and supportable forecasts indicate that our historical loss experience is not reasonable and no longer supportable, the Company may adjust its historical credit loss experience and to reflect these conditions and forecasts. The Company regularly analyzes its significant customer accounts and, when the Company becomes aware of a customer's inability to meet its financial obligations, the Company records a specific reserve for bad debt to reduce the related receivable to the amount the Company reasonably believes is collectible. The Company also analyzes all other customers based on a variety of factors including the length of time the receivables are past due, the financial health of the customer, macroeconomic considerations and historical collection and loss experience. Historically, the allowance for credit losses has been adequate to cover bad debts. If circumstances related to specific customers change, the estimates of the recoverability of receivables could be further adjusted.

#### *Inventory*

The Company performs regular detailed assessments of inventory, which include a review of, among other factors, demand requirements, product life cycle and development plans, component cost trends, product pricing, shelf life, and quality issues. Based on the analysis, the Company records adjustments to inventory for excess quantities, obsolescence or impairment when appropriate to reflect inventory at net realizable value. Historically, inventory reserves have been adequate to reflect inventory at net realizable value.

#### *Long-Lived Assets*

The Company evaluates the recoverability of other long-lived assets, including property, plant and equipment and certain identifiable intangible assets, whenever events or changes in circumstances indicate that the carrying value of an asset or asset group may not be recoverable. Factors which could trigger an impairment review include significant underperformance relative to historical or projected operating results, significant changes in the manner of use of the assets or the strategy for the overall business, a significant decrease in the market value of the assets or significant negative industry or economic trends. When the Company determines that the carrying value of long-lived assets may not be recoverable based upon the existence of one or more of the indicators, the assets are assessed for impairment based on the estimated future undiscounted cash flows expected to result from the use of the asset and its eventual disposition. If the carrying value of an asset exceeds its estimated future



undiscounted cash flows, an impairment loss is recorded for the excess of the asset's carrying value over its fair value. For the fiscal year ended December 31, 2022, the Company recorded a \$2.9 million non-cash impairment charge for certain acquired technology and patent intangible assets due to a change in use and projected cash flows within the Electronics segment. Additionally, the Company recorded a non-cash impairment charge of \$1.7 million for certain machinery and equipment within the Electronics segment due to a decision to cease further production of a product line during the fourth quarter of 2022. For the fiscal year ended December 26, 2020, the Company recognized a \$2.2 million impairment charge related to the land and building associated with the Company's announced consolidation of a manufacturing facility within the Industrial segment.

### ***Environmental Liabilities***

Environmental liabilities are accrued based on estimates of the probability of potential future environmental exposure. Costs related to on-going maintenance of environmental sites are expensed as incurred. If actual or estimated probable future losses exceed the Company's recorded liability for such claims, it would record additional charges as other expense during the period in which the actual loss or change in estimate occurred. The Company evaluates its reserve for coal mine remediation annually utilizing a third-party expert.

### ***Pension Plans***

The Company records annual income and expense amounts relating to its pension and postretirement benefits plans based on calculations which include various actuarial assumptions including discount rates, expected long-term rates of return and compensation increases. The Company reviews its actuarial assumptions on an annual basis as of the fiscal year-end balance sheet date (or more frequently if a significant event requiring remeasurement occurs) and modifies the assumption based on current rates and trends when it is appropriate to do so. The effects of modifications are recognized immediately on the Consolidated Balance Sheets but are generally amortized into operating earnings over future periods, with the deferred amount recorded in accumulated other comprehensive (loss) income. The Company believes that the assumptions utilized in recording its obligations under its plans are reasonable based on its experience, market conditions and input from its actuaries and investment advisors. The Company maintains several pension plans in international locations. The expected returns on plan assets and discount rates are determined based on each plan's investment approach, local interest rates and plan participant profiles. The weighted-average discount rates for the Company's defined benefit plans primarily in Europe and the Asia-Pacific regions at December 31, 2022 and January 1, 2022 were 5.8% and 3.1%, respectively.

A 50 basis point change in the discount rates at December 31, 2022 would have the following effect on the projected benefit obligation:

<b>(in millions)</b>	<b>0.5% Increase</b>	<b>0.5% Decrease</b>
Projected benefit obligation	\$ (3.4)	\$ 3.6

On April 7, 2020, the Company entered into a definitive agreement to purchase a group annuity contract, under which an insurance company is required to directly pay and administer pension payments to certain of the Company's U.K. pension plan participants, or their designated beneficiaries. The Company completed the buy-out of this U.K. pension plan during the fourth quarter of 2021 and as a result recorded a non-cash pension settlement charge of \$19.9 million (£14.9 million), inclusive of the accelerated recognition of prior service cost of \$0.5 million (£0.4 million).

### ***Equity-based Compensation***

Equity-based compensation expense is recorded for stock-option awards and restricted share units based upon the fair values of the awards. The fair value of stock-option awards is estimated at the grant date using the Black-Scholes option pricing model, which includes assumptions for volatility, expected term, risk-free interest rate and dividend yield. Expected volatility is based on implied volatilities from traded options on Littelfuse stock, historical volatility of Littelfuse stock and other factors. Historical data is used to estimate employee termination experience and the expected term of the options. The risk-free interest rate is based on the U.S. Treasury yield curve in effect at the time of grant. The Company initiated a quarterly cash dividend in 2010 and expects to continue making cash dividend payments for the foreseeable future. The fair value of restricted share units is determined based on the Company's stock price on the grant date reduced by the present value of expected dividends through the vesting period.

Total equity-based compensation expense for all equity compensation plans was \$24.6 million, \$21.4 million, and \$19.1 million in 2022, 2021, and 2020, respectively. Further information regarding this expense is provided in Note 12, *Stock-Based Compensation*, of the Notes to Consolidated Financial Statements included in this Annual Report.

### ***Off-Balance Sheet Arrangements***

The Company does not have off-balance sheet arrangements as defined under SEC rules. The Company does not participate in transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities.

In the financial review that follows, the Company discusses its consolidated results of operations, financial position, cash flows and certain other information. This discussion should be read in conjunction with the Company's Consolidated Financial Statements and related notes.

### **RESULTS OF OPERATIONS FOR THE YEAR ENDED DECEMBER 31, 2022 AS COMPARED TO THE YEAR ENDED JANUARY 01, 2022**

Fiscal year 2022 included \$43.2 million of non-segment charges, of which \$17.6 million related to legal and professional fees and other integration expenses primarily associated with the C&K and Carling acquisitions and other contemplated acquisitions, \$15.6 million of purchase accounting inventory step-up charges, and \$10.0 million of restructuring, impairment and other charges, primarily related to employee termination costs and a \$2.9 million intangible asset impairment charge within the Electronics segment in the fourth quarter of 2022. See Note 8, *Restructuring, Impairment and Other Charges*, for further discussion.

Fiscal year 2021 included \$12.6 million of non-segment charges, of which \$8.4 million relates to purchase accounting inventory step-up charges, \$7.0 million of acquisition-related and integration charges related to the Carling and Hartland acquisitions and other contemplated acquisitions, and \$2.2 million of restructuring, impairment and other charges, primarily related to employee termination costs. See Note 8, *Restructuring, Impairment and Other Charges*, for further discussion. Additionally, partially offsetting the above amounts was a gain of \$5.0 million recorded for the sale of buildings within the Electronics segment.

Fiscal year 2022 also included approximately \$24.4 million in foreign currency exchange losses primarily attributable to changes in the value of the Euro, Philippine peso, Sterling, and Chinese renminbi against the U.S. dollar, while fiscal year 2021 included approximately \$17.2 million in foreign currency exchange losses primarily attributable to changes in the value of the Euro, Chinese renminbi, Mexican peso, and Philippine peso against the U.S. dollar.

<b>(in thousands, except % change)</b>	<b>Fiscal Year</b>			
	<b>2022</b>	<b>2021</b>	<b>Change</b>	<b>% Change</b>
Net sales	\$ 2,513,897	\$ 2,079,928	\$ 433,969	20.9 %
Cost of sales	1,506,984	1,308,002	198,982	15.2 %
Gross profit	1,006,913	771,926	234,987	30.4 %
Operating expenses	506,087	386,284	119,803	31.0 %
Operating income	500,826	385,642	115,184	29.9 %
Other expense, net	7,207	8,932	(1,725)	(19.3)%
Income before income taxes	443,044	341,025	102,019	29.9 %
Income taxes	69,738	57,219	12,519	21.9 %
Net income	373,306	283,806	89,500	31.5 %

### ***Net Sales***

Net sales were \$2,513.9 million, which increased \$434.0 million, or 20.9% compared to 2021, including \$202.8 million or 9.8% of incremental net sales within the Transportation segment from the Carling acquisition and \$81.7 million or 3.9% of net sales within the Electronics segment from the C&K acquisition, partially offset by \$65.3 million or 3.1% of unfavorable changes in foreign exchange rates for 2022 compared to 2021. The remaining increase of \$110.3 million in the Electronics segment was due to higher volume and price realization across numerous end markets while the Industrial segment increased \$53.8 million as a result of higher volume and price realization.

### ***Cost of Sales***

Cost of sales was \$1,507.0 million, or 59.9% of net sales, in 2022, compared to \$1,308.0 million, or 62.9% of net sales, in 2021. The increase in cost of sales was primarily due to greater volume across the Electronics and Industrial segments driven by the factors discussed above along with the acquisitions of Carling and C&K. As a percent of net sales, cost of sales decreased 3.0% driven by volume leverage, partially offset by higher purchase accounting inventory charges of \$7.2 million or 0.2% compared to 2021.

### ***Gross Profit***

Gross profit was \$1,006.9 million, or 40.1% of net sales, in 2022, compared to \$771.9 million, or 37.1% of net sales, in 2021. The \$235.0 million increase in gross profit was primarily due to higher volume and price realization in the Electronics and Industrial segments along with the acquisitions of Carling and C&K. The increase in gross margin of 3.0% was primarily driven by volume leverage and price realization, partially offset by higher purchase accounting inventory charges of \$7.2 million or 0.2% compared to 2021.

### ***Operating Expenses***

Total operating expenses were \$506.1 million, or 20.1% of net sales, for 2022 compared to \$386.3 million, or 18.6% of net sales, for 2021. The increase in operating expenses of \$119.8 million was primarily due to higher selling, general, and administrative expenses, which increased by \$69.4 million, research and development expenses, which increased by \$29.7 million and increased amortization expense of \$13.0 million and acquisition-related expenses of \$10.6 million largely due to the Carling and C&K acquisitions.

### ***Operating Income***

Operating income for 2022 was \$500.8 million, an increase of \$115.2 million or 29.9% compared to \$385.6 million for 2021. The increase in operating income was primarily due to higher gross profit across from Electronics and Industrial segments, partially offset by higher operating expenses as discussed above. Operating margins increased from 18.5% in 2021 to 19.9% in 2022 primarily driven by higher operating income in the Electronics segment of \$122.0 million.

### ***Income Before Income Taxes***

Income before income taxes for 2022 was \$443.0 million, or 17.6% of net sales compared to \$341.0 million, or 16.4% of net sales, for 2021. In addition to the factors impacting comparative results for operating income discussed above, income before income taxes was impacted by \$14.0 million of unrealized losses during 2022 compared to unrealized gains of \$8.8 million during 2021 related to the Company's equity investment, higher interest expense of \$7.7 million due to an increase in borrowings outstanding, and higher foreign exchange losses of \$7.2 million compared to 2021, partially offset by a \$19.9 million non-cash pension settlement charge recognized in 2021.

### ***Income Taxes***

Income tax expense for 2022 was \$69.7 million, or an effective tax rate of 15.7%, compared to income tax expense of \$57.2 million, or an effective tax rate of 16.8% for 2021. The Company's tax rates are lower than the applicable U.S. statutory tax rate primarily due to income earned in lower tax jurisdictions, partially offset by the impact of taxes on unremitted earnings, the GILTI tax provisions, and non-U.S. losses and expenses with no tax benefit. The effective tax rate for 2022 is lower than the effective tax rate for 2021, primarily due to one-time tax benefits resulting from losses on investments in the stock of two of the Company's affiliates. Further information regarding these items is provided in Note 14, *Income Taxes*, of the Notes to Consolidated Financial Statements included in this Annual Report.

### ***Segment Information***

The Company reports its operations by the following segments: Electronics, Transportation and Industrial. Segment information is described more fully in Note 16, *Segment Information*, of the Notes to Consolidated Financial Statements included in this Annual Report.

The following table is a summary of the Company's net sales by segment:

(in millions)	Fiscal Year		Change	% Change
	2022	2021		
Electronics	\$ 1,492.8	\$ 1,300.7	\$ 192.1	14.8 %
Transportation	716.2	528.1	188.1	35.6 %
Industrial	304.9	251.1	53.8	21.4 %
Total	<u>\$ 2,513.9</u>	<u>\$ 2,079.9</u>	<u>\$ 434.0</u>	20.9 %

### ***Electronics Segment***

Net sales for the Electronics segment increased \$192.1 million, or 14.8%, in 2022 compared to 2021 and included unfavorable changes in foreign exchange rates of \$37.1 million or 2.9%. The sales increase was \$123.4 million for the semiconductor products business and \$68.7 million in the electronics products business, primarily driven by increased volume and price realization. The sales increase in electronics products business also included the incremental \$81.7 million of sales from the acquisition of C&K. These volume increases were driven by continued broad-based demand across numerous end markets.

### ***Transportation Segment***

Net sales in the Transportation segment increased \$188.1 million, or 35.6%, in 2022 compared to 2021 and included unfavorable changes in foreign exchange rates of \$26.0 million or 4.9%. The sales increase was primarily due to the incremental sales of \$202.8 million from the Carling acquisition. Net sales in the commercial vehicle business increased by \$214.4 million, largely due to the Carling acquisition noted previously and continued demand across a number of commercial vehicle end markets. The passenger car products and automotive sensors businesses had sales decreases of \$16.6 million and \$9.8 million, respectively. The decreases were primarily driven by unfavorable changes in foreign exchange rates, certain automotive customers rebalancing their inventory levels of the Company's products, and supply chain constraints, partially offset by greater content growth from vehicle mix and electric vehicles.

### ***Industrial Segment***

The Industrial segment net sales increased by \$53.8 million, or 21.4%, in 2022 compared to 2021 and included unfavorable changes in foreign exchange rates of \$2.2 million or 0.9%. The increase in net sales was primarily due to higher volume and demand across a number of end markets, price realization, and incremental one month net sales of \$9.1 million or 3.6% from the Hartland acquisition.

### **Geographic Net Sales Information**

Net sales by geography represent net sales to customer or distributor locations. The following table is a summary of the Company's net sales by geography:

(in millions)	Fiscal Year		Change	% Change
	2022	2021		
Asia-Pacific	\$ 1,019.9	\$ 955.7	\$ 64.2	6.7 %
Americas	992.3	694.3	298.0	42.9 %
Europe	501.7	429.9	71.8	16.7 %
Total	<u>\$ 2,513.9</u>	<u>\$ 2,079.9</u>	<u>\$ 434.0</u>	20.9 %

### ***Asia-Pacific***

Asia-Pacific net sales increased \$64.2 million, or 6.7%, in 2022 compared to 2021 and included unfavorable changes in foreign exchange rates of \$18.4 million. The increase in net sales was primarily due to incremental sales from the C&K acquisition and higher volume and price realization from the semiconductor products business within the Electronics segment and incremental sales from the Carling acquisition included in the commercial vehicle products business, partially offset by lower net sales from the electronics products and passenger car products businesses.

## Americas

Net sales in the Americas increased \$298.0 million, or 42.9%, in 2022 compared to 2021 and included unfavorable changes in foreign exchange rates of \$1.4 million. The increase in net sales was primarily due to incremental sales from the Carling acquisition included in the commercial vehicle products business within the Transportation segment, higher volume and price realization from all businesses within the Electronics segment including incremental sales from the C&K acquisition and higher volume and price realization from the Industrial segment compared to 2021.

## Europe

European net sales increased \$71.8 million, or 16.7%, in 2022 compared to 2021 and included unfavorable changes in foreign exchange rates of \$45.5 million. The increase in net sales was primarily due to increased volume across all businesses within the Electronics segment including incremental sales from C&K acquisition, and incremental sales from the Carling acquisition included in the commercial vehicle products business within the Transportation segment compared to 2021.

## RESULTS OF OPERATIONS FOR THE YEAR ENDED JANUARY 01, 2022 AS COMPARED TO THE YEAR ENDED DECEMBER 26, 2020

Fiscal year 2021 included approximately \$12.6 million of non-segment charges, of which \$8.4 million relates to purchase accounting inventory step-up charges, \$7.0 million of acquisition-related and integration charges related to the Carling and Hartland acquisitions and other contemplated acquisitions, and \$2.2 million of restructuring, impairment and other charges, primarily related to employee termination costs. See Note 8, *Restructuring, Impairment and Other Charges*, for further discussion. Additionally, partially offsetting the above amounts was a gain of \$5.0 million recorded for the sale of buildings within the Electronics segment.

Fiscal year 2020 included approximately \$44.0 million of non-segment charges, of which \$2.3 million of charges are acquisition-related and integration charges related to the IXYS acquisition and other contemplated acquisitions. In addition, there were \$41.7 million of restructuring, impairment and other charges, primarily related to the goodwill impairment charge of \$33.8 million recorded in the second quarter associated with the automotive sensors reporting unit within the Transportation segment, employee termination costs of \$5.5 million, \$2.2 million of impairment charges recorded in the first quarter associated with the announced consolidation of a manufacturing facility within the Industrial segment and other restructuring charges of \$0.2 million.

Fiscal year 2021 also included approximately \$17.2 million in foreign currency exchange losses primarily attributable to changes in the value of the Euro, Chinese renminbi, Mexican peso, and Philippine peso against the U.S. dollar, while fiscal year 2020 included approximately \$14.9 million in foreign currency exchange gains primarily attributable to changes in the value of the Euro, Philippine peso, and Chinese renminbi against the U.S. dollar.

(in thousands, except % change)	Fiscal Year		Change	% Change
	2021	2020		
Net sales	\$ 2,079,928	\$ 1,445,695	\$ 634,233	43.9 %
Cost of sales	1,308,002	944,523	363,479	38.5 %
Gross profit	771,926	501,172	270,754	54.0 %
Operating expenses	386,284	338,800	47,484	14.0 %
Operating income	385,642	162,372	223,270	137.5 %
Other expense (income), net	8,932	(5,083)	14,015	(275.7)%
Income before income taxes	341,025	161,253	179,772	111.5 %
Income taxes	57,219	31,267	25,952	83.0 %
Net income	283,806	129,986	153,820	118.3 %

### ***Net Sales***

Net sales increased \$634.2 million or 43.9% including \$27.4 million or 1.9% of favorable changes in foreign exchange rates for 2021 compared to 2020. The increase was due to volume growth across all segments and businesses while 2020 had temporary closures of manufacturing facilities resulting from government directives due to the impact of COVID-19. The increase was due to higher sales of \$363.0 million, \$138.9 million, and \$132.3 million in the Electronics, Industrial, and Transportation segments, respectively, primarily driven by higher volumes across all businesses within these segments. The volume increase within the Electronics segment was led by broad-based demand across electronics, transportation and industrial end markets. The increase within the Industrial segment was primarily due to \$100.5 million of net sales resulting from the Hartland acquisition and volume growth within the Industrial segment. The increase within the Transportation segment was due to volume growth driven by higher demand in the global auto and commercial vehicle markets, greater content growth across passenger vehicles due to vehicle mix, including growth in electric vehicles and some customers maintaining additional inventory of our products, and \$15.3 million of net sales resulting from the Carling acquisition.

### ***Cost of Sales***

Cost of sales was \$1,308.0 million, or 62.9% of net sales, in 2021, compared to \$944.5 million, or 65.3% of net sales, in 2020. The increase in cost of sales was primarily due to greater volume across all segments driven by the factors discussed above along with the Hartland and Carling acquisitions. As a percent of net sales, cost of sales decreased 2.4% driven by volume leverage, partially offset by higher transportation, duty and tariff charges of 2.2%, the purchase accounting inventory charges of \$8.4 million or 0.4% resulting from the Hartland and Carling acquisitions, and higher material costs.

### ***Gross Profit***

Gross profit was \$771.9 million, or 37.1% of net sales, in 2021, compared to \$501.2 million, or 34.7% of net sales, in 2020. The \$270.8 million increase in gross profit was primarily due to higher volume across all segments while 2020 had additional costs associated with government-directed plant shutdowns and supply chain constraints. The increase in gross margin of 2.4% was primarily driven by volume leverage and favorable product mix within the Electronics segment, partially offset by higher transportation, duty and tariff charges as a percent of net sales of 2.2%, the purchase accounting inventory charges of \$8.4 million or 0.4%, and higher material costs.

### ***Operating Expenses***

Total operating expenses were \$386.3 million, or 18.6% of net sales, for 2021 compared to \$338.8 million, or 23.4% of net sales, for 2020. The increase in operating expenses of \$47.5 million is primarily due to higher selling, general, and administrative expenses of \$71.0 million largely due to higher accrued incentive compensation, the Hartland and Carling acquisitions and higher acquisition-related and integration charges of \$4.7 million, and higher research and development expenses of \$13.4 million, partially offset by the 2020 goodwill impairment charge of \$33.8 million, or 2.3% of net sales, in the automotive sensors reporting unit within the Transportation segment and impairment charges of \$2.2 million related to the Company's 2020 first quarter announcement to consolidate a manufacturing facility within the Industrial segment.

### ***Operating Income***

Operating income for 2021 was \$385.6 million, an increase of \$223.3 million or 137.5% compared to \$162.4 million for 2020. The increase in operating income was primarily due to higher gross margin across all segments, led by the Electronics segment partially offset by higher operating expenses noted above. Operating margins increased from 11.2% in 2020 to 18.5% in 2021 primarily driven by the factors mentioned above. The 2020 goodwill impairment charge of \$33.8 million negatively impacted the 2020 operating margin by 2.3%.

### ***Income Before Income Taxes***

Income before income taxes for 2021 was \$341.0 million, or 16.4% of net sales compared to \$161.3 million, or 11.2% of net sales, for 2020. In addition to the factors impacting comparative results for operating income discussed above, income before income taxes was impacted by foreign exchange losses of \$17.2 million during the fiscal year ended January 1, 2022 compared to foreign exchange gains of \$14.9 million during the fiscal year ended December 26, 2020, and a \$19.9 million non-cash pension settlement charge, partially offset by a \$4.0 million increase in unrealized investment gains associated with our equity investment, and lower interest expense of \$2.6 million due to lower outstanding borrowings under the credit facility along with a lower effective interest rate and a reduction in coal mining charges of \$1.6 million compared to 2020.

## Income Taxes

Income tax expense for 2021 was \$57.2 million, or an effective tax rate of 16.8%, compared to income tax expense of \$31.3 million, or an effective tax rate of 19.4% for 2020. The Company's tax rates are lower than the applicable U.S. statutory tax rate primarily due to income earned in lower tax jurisdictions, partially offset by the impact of taxes on unremitted earnings, the GILTI tax provisions, and non-U.S. losses and expenses with no tax benefit. The effective tax rate for 2021 is lower than the effective tax rate for 2020, primarily due to an increase in the income earned in lower tax jurisdictions in 2021 as compared to 2020, as well as the impact of the goodwill impairment charge of \$33.8 million recorded in 2020, the substantial majority of which did not result in a tax benefit. Further information regarding these items is provided in Note 14, *Income Taxes*, of the Notes to Consolidated Financial Statements included in this Annual Report.

## Segment Information

The Company reports its operations by the following segments: Electronics, Transportation and Industrial. Segment information is described more fully in Note 16, *Segment Information*, of the Notes to Consolidated Financial Statements included in this Annual Report.

The following table is a summary of the Company's net sales by segment:

(in millions)	Fiscal Year		Change	% Change
	2021	2020		
Electronics	\$ 1,300.7	\$ 937.7	\$ 363.0	38.7 %
Transportation	528.1	395.8	132.3	33.4 %
Industrial	251.1	112.2	138.9	123.8 %
Total	<u>\$ 2,079.9</u>	<u>\$ 1,445.7</u>	<u>\$ 634.2</u>	43.9 %

### *Electronics Segment*

Net sales for the Electronics segment increased \$363.0 million, or 38.7%, in 2021 compared to 2020 and included favorable changes in foreign exchange rates of \$14.5 million or 1.5%. The sales increase was primarily due to increased volume for the electronics and semiconductor products businesses of \$206.5 million and \$156.5 million, respectively. The volume increases were driven by broad-based demand across electronics, transportation and industrial end markets while 2020 were negatively impacted by production disruptions and temporary plant shutdowns due to the impact of COVID-19.

### *Transportation Segment*

Net sales in the Transportation segment increased \$132.3 million, or 33.4%, in 2021 compared to 2020 and included favorable changes in foreign exchange rates of \$12.0 million or 3.0%. The sales increase was due to higher volume in passenger car products, commercial vehicle products, and the automotive sensors businesses of \$65.6 million, \$59.0 million, and \$7.8 million, respectively, including the incremental net sales of \$15.3 million from the Carling acquisition within the commercial vehicle products business. These increases were due to volume growth driven by higher demand in the global auto and commercial vehicle markets, greater content growth across passenger vehicles due to vehicle mix, including growth in electric vehicles and some customers maintaining additional inventory of our products as compared to 2020, which had production disruptions and temporary plant shutdowns due to the impact of COVID-19.

### *Industrial Segment*

The Industrial segment net sales increased by \$138.9 million, or 123.8%, in 2021 compared to 2020 and included favorable changes in foreign exchange rates of \$0.9 million or 0.8%. The increase in net sales was primarily due to the incremental net sales of \$100.5 million or 90% from the Hartland acquisition, growth across all product lines, and the transfer of the temperature sensor product line totaling \$4.7 million which was previously reported in the Electronics segment and moved to Industrial segment in the third quarter of 2020. Additionally, 2020 was negatively impacted by production disruptions and temporary plant shutdowns due to the impact of COVID-19.

## Geographic Net Sales Information

Net sales by geography represent net sales to customer or distributor locations. The following table is a summary of the Company's net sales by geography:

(in millions)	Fiscal Year			
	2021	2020	Change	% Change
Asia-Pacific	\$ 955.7	\$ 670.5	\$ 285.2	42.5 %
Americas	694.3	457.8	236.5	51.7 %
Europe	429.9	317.4	112.5	35.4 %
Total	\$ 2,079.9	\$ 1,445.7	\$ 634.2	43.9 %

### *Asia-Pacific*

Asia-Pacific net sales increased \$285.2 million, or 42.5%, in 2021 compared to 2020 and included favorable changes in foreign exchange rates of \$12.5 million. The increase in net sales was primarily due to higher volume across all segments and businesses compared to 2020 that had production disruptions due to the impact of COVID-19.

### *Americas*

Net sales in the Americas increased \$236.5 million, or 51.7%, in 2021 compared to 2020 and included favorable changes in foreign exchange rates of \$0.7 million. The increase in net sales was primarily due to incremental sales from the Hartland and Carling acquisitions, higher volume across all segments and businesses compared to 2020 that had production disruptions due to the impact of COVID-19.

### *Europe*

European net sales increased \$112.5 million, or 35.4%, in 2021 compared to 2020 and included favorable changes in foreign exchange rates of \$14.2 million. The increase in net sales was primarily due to higher volume across all businesses within the Electronics and Transportation segments compared to the 2020 that had production disruptions due to the impact of COVID-19.

## **Liquidity and Capital Resources**

Cash and cash equivalents were \$562.6 million as of December 31, 2022, an increase of \$84.1 million as compared to January 1, 2022.

As of December 31, 2022, \$452.0 million of the Company's \$562.6 million cash and cash equivalents was held by non-U.S. subsidiaries. Of the \$452.0 million, at least \$339.6 million can be repatriated with minimal tax consequences, although in certain cases a non-U.S. withholding tax would be payable but subsequently refunded. With respect to the remaining \$112.4 million, the Company has recognized deferred tax liabilities on approximately \$53.6 million as of December 31, 2022 because the amounts are not considered to be permanently reinvested, and the Company may access additional amounts through loans and other means. Repatriation of some non-U.S. cash balances is restricted by local laws. Management regularly evaluates whether foreign earnings are expected to be permanently reinvested. This evaluation requires judgment about the future operating and liquidity needs of the Company and its foreign subsidiaries. Changes in economic and business conditions, non-U.S. or U.S. tax laws could result in changes to these judgments and the need to record additional tax liabilities.

The Company has historically supported its liquidity needs through cash flows from operations. Management expects that the Company's (i) current level of cash, cash equivalents, and marketable securities, (ii) current and forecasted cash flows from operations, (iii) availability under existing funding arrangements, and (iv) access to capital in the capital markets will provide sufficient funds to support the Company's operations, capital expenditures, investments, and debt obligations on both a short-term and long-term basis.



### *Revolving Credit Facility*

On June 30, 2022, the Company amended and restated its Credit Agreement, dated as of April 3, 2020 (as so amended and restated, the "Credit Agreement") to effect certain changes, including, among other changes: (i) adding a \$300 million unsecured term loan credit facility; (ii) making certain financial and non-financial covenants less restrictive on the Company and its subsidiaries; (iii) replacing LIBOR-based interest rate benchmarks and modifying performance-based interest rate margins; and (iv) extending the maturity date to June 30, 2027 (the "Maturity Date"). Pursuant to the Credit Agreement, the Company may, from time to time, increase the size of the revolving credit facility or enter into one or more tranches of term loans in minimum increments of \$25 million if there is no event of default and the Company is in compliance with certain financial covenants.

Loans made under the available credit facility pursuant to the Credit Agreement ("the Credit Facility") bear interest at the Company's option, at either Secured Overnight Financing Rate ("SOFR"), fixed for interest periods of one, two, three or six-month periods, plus 1.00% to 1.75%, plus a SOFR adjustment of 0.10% or at the bank's Base Rate, as defined in the Credit Agreement, plus —% to 0.75%, based upon the Company's Consolidated Leverage Ratio, as defined in the Credit Agreement. The Company is also required to pay commitment fees on unused portions of the Credit Facility ranging from 0.10% to 0.175%, based on the Consolidated Leverage Ratio, as defined in the Credit Agreement. The Credit Agreement includes representations, covenants and events of default that are customary for financing transactions of this nature.

Under the Credit Agreement, revolving loans may be borrowed, repaid and reborrowed until the Maturity Date, at which time all amounts borrowed must be repaid. The Company borrowed \$300.0 million under a term loan on June 30, 2022. The principal balance of the term loans must be repaid in quarterly installments on the last day of each calendar quarter in the amount of \$1.9 million commencing September 30, 2022, through June 30, 2024, and in the amount of \$3.8 million commencing September 30, 2024, through March 31, 2027, with the remaining outstanding principal balance payable in full on the Maturity Date. Accrued interest on the loans is payable in arrears on each interest payment date applicable thereto and at such other times as may be specified in the Credit Agreement. Subject to certain conditions, (i) the Company may terminate or reduce the Aggregate Revolving Commitments, as defined in the Credit Agreement, in whole or in part, and (ii) the Company may prepay the revolving loans or the term loans at any time, without premium or penalty. During the fiscal year ended December 31, 2022, the Company made term loan payments of \$3.8 million. The revolving loan and term loan balance under the Credit Facility was \$100.0 million and \$296.3 million, respectively, as of December 31, 2022.

On May 12, 2022, the Company entered into an interest rate swap agreement to manage interest rate risk exposure, effectively converting the interest rate on the Company's SOFR based floating-rate loans to a fixed-rate. The interest rate swap, with a notional value of \$200 million, was designated as a cash flow hedge against the variability of cash flows associated with the Company's SOFR based loans scheduled to mature on June 30, 2027.

As of December 31, 2022, the effective interest rate on outstanding borrowings under the credit facility was 5.42%.

As of December 31, 2022, the Company had no outstanding letters of credit and had available \$600.0 million of borrowing capacity under the revolving credit facility. At December 31, 2022, the Company was in compliance with all covenants under the credit agreement.

### *Senior Notes*

On December 8, 2016, the Company entered into a Note Purchase Agreement, pursuant to which the Company issued and sold €212 million aggregate principal amount of senior notes in two series. The funding date for the Euro denominated senior notes occurred on December 8, 2016 for €117 million in aggregate amount of 1.14% Senior Notes, Series A, due December 8, 2023 ("Euro Senior Notes, Series A due 2023"), and €95 million in aggregate amount of 1.83% Senior Notes, Series B due December 8, 2028 ("Euro Senior Notes, Series B due 2028") (together, the "Euro Senior Notes"). Interest on the Euro Senior Notes is payable semiannually on June 8 and December 8, commencing June 8, 2017.

On December 8, 2016, the Company entered into a Note Purchase Agreement, pursuant to which the Company issued and sold \$125 million aggregate principal amount of senior notes in two series. On February 15, 2017, \$25 million in aggregate principal amount of 3.03% Senior Notes, Series A, due February 15, 2022 ("U.S. Senior Notes, Series A due 2022"), and \$100 million in aggregate principal amount of 3.74% Senior Notes, Series B, due February 15, 2027 ("U.S. Senior Notes, Series B due 2027") (together, the "U.S. Senior Notes due 2022 and 2027") were funded. Interest on the U.S. Senior Notes due 2022 and 2027 is payable semiannually on February 15 and August 15, commencing August 15, 2017. During the fiscal year ended December 31, 2022, the Company paid off \$25.0 million of U.S. Senior Notes, Series A due 2022.

On November 15, 2017, the Company entered into a Note Purchase Agreement pursuant to which the Company issued and sold \$175 million in aggregate principal amount of senior notes in two series. On January 16, 2018, \$50 million aggregate principal amount of 3.48% Senior Notes, Series A, due February 15, 2025 (“U.S. Senior Notes, Series A due 2025”) and \$125 million in aggregate principal amount of 3.78% Senior Notes, Series B, due February 15, 2030 (“U.S. Senior Notes, Series B due 2030”) (together, the “U.S. Senior Notes due 2025 and 2030”) were funded. Interest on the U.S. Senior Notes due 2025 and 2030 is payable on February 15 and August 15, commencing on August 15, 2018.

On May 18, 2022, the above note purchase agreements were amended to, among other things, update certain terms, including financial covenants to be consistent with the terms of the amended and restated Credit Agreement and the 2022 Purchase Agreement, as defined below.

On May 18, 2022, the Company entered into a Note Purchase Agreement (“2022 Purchase Agreement”) pursuant to which the Company issued and funded on July 18, 2022 \$100 million in aggregate principal amount of 4.33% Senior Notes, due June 30, 2032 (“U.S. Senior Notes, due 2032”) (together with the U.S. Senior Notes due 2025 and 2030, the Euro Senior Notes and the U.S. Senior Notes due 2022 and 2027, the “Senior Notes”). Interest on the U.S. Senior Notes due 2032 is payable semiannually on June 30 and December 30, commencing on December 30, 2032.

#### *Debt Covenants*

The Company was in compliance with its debt covenants as of December 31, 2022. As of December 31, 2022, the Company met all the conditions required to borrow under the Credit Agreement and management expects the Company to continue to meet the applicable borrowing conditions.

#### *Acquisitions*

On February 3, 2023, the Company acquired Western Automation for approximately \$162 million in cash. Headquartered in Galway, Ireland, Western Automation is a designer and manufacturer of electrical shock protection devices used across a broad range of high-growth end markets, including e-Mobility off-board charging infrastructure, industrial safety and renewables. Western Automation has annualized sales of approximately \$25 million and will be reported within the company’s Industrial segment. The company does not expect the acquisition to have a material impact to its 2023 financial results. The Company financed the transaction with cash on hand.

On July 19, 2022, the Company acquired C&K Switches for \$540 million in cash. Founded in 1928, C&K is a leading designer and manufacturer of high-performance electromechanical switches and interconnect solutions with a strong global presence across a broad range of end markets, including industrial, transportation, datacom, and aerospace. At the time the Company and C&K entered into a definitive agreement, C&K had annualized sales of over \$200 million. The business is reported as part of the electronics-passive products and sensors business within the Company’s Electronics segment. The net cash payment of \$523.0 million was funded through a combination of cash on hand and debt.

On November 30, 2021, the Company acquired Carling, pursuant to the Stock Purchase Agreement, dated as of October 19, 2021. Founded in 1920, Carling has a leading position in switching and circuit protection technologies with a strong global presence in commercial vehicle electrification, communications infrastructure and marine markets. At the time of acquisition, Carling had annualized sales of approximately \$170 million. The operations of Carling are included in the commercial vehicle business within the Company’s Transportation segment. The purchase price for Carling Technologies was approximately \$315 million subject to a working capital adjustment. The net cash payment of \$314.1 million was funded by the Company’s cash on hand.

On January 28, 2021, the Company acquired Hartland, a manufacturer and leading supplier of electrical components used primarily in heating, ventilation, air conditioning (“HVAC”) and other industrial and systems applications, and eMobility. At the time of acquisition, Hartland had annualized sales of approximately \$70 million. The purchase price for Hartland was \$111.0 million and the operations of Hartland are included in the Industrial segment. The net cash payment of \$108.5 million was funded by the Company’s cash on hand.

#### *Cash Flow Overview*

Operating cash inflows are largely attributable to sales of the Company’s products. Operating cash outflows are largely attributable to recurring expenditures for raw materials, labor, rent, interest, taxes and other operating activities.

The following describes the Company’s cash flows for the fiscal year ended December 31, 2022 and January 1, 2022:

(in millions)	Fiscal Year	
	2022	2021
Net cash provided by operating activities	\$ 419.7	\$ 373.3
Net cash used in investing activities	(636.4)	(499.2)
Net cash provided by (used in) financing activities	310.2	(69.0)
Effect of exchange rate changes on cash, cash equivalents, and restricted cash	(11.4)	(9.9)
Increase (decrease) in cash, cash equivalents, and restricted cash	82.1	(204.7)
Cash, cash equivalents, and restricted cash at beginning of period	482.8	687.5
Cash, cash equivalents, and restricted cash at end of period	\$ 564.9	\$ 482.8

#### *Cash Flow from Operating Activities*

Net cash provided by operating activities was \$419.7 million for the fiscal year 2022, an increase of \$46.4 million, compared to \$373.3 million during the fiscal year 2021. The increase in net cash provided by operating activities was primarily due to higher cash earnings partially offset by increases in working capital resulting from higher sales growth and larger annual incentive bonus payments made in 2022 as compared to 2021.

#### *Cash Flow from Investing Activities*

Net cash used in investing activities was \$636.4 million for the fiscal year 2022, compared to \$499.2 million during the fiscal year 2021. Capital expenditures were \$104.3 million, representing an increase of \$13.8 million compared to the fiscal year 2021. Net cash paid for acquisitions was \$532.7 million during the fiscal year 2022 primarily for the C&K and Embed acquisitions versus net cash paid of \$422.1 million for the Carling and Hartland acquisitions during the fiscal year 2021. The Company also received proceeds of \$0.7 million primarily from the sale of a property within the Transportation segment during the fiscal year 2022 as compared to proceeds of \$15.4 million from the sale of buildings within the Electronics segment during the fiscal year 2021.

#### *Cash Flow from Financing Activities*

Net cash provided by financing activities was \$310.2 million for the fiscal year 2022 compared to \$69.0 million used in financing activities for the fiscal year 2021. On July 18, 2022, the Company issued and funded \$100 million in aggregate principal amount of 4.33% U.S. Senior Notes, due 2032. On June 30, 2022, the Company amended and restated its Credit Agreement and borrowed \$300.0 million through a term loan. During the fiscal year 2022, the Company paid \$25.0 million of U.S. Senior Notes, Series A due on February 15, 2022 and \$3.8 million on the term loan. During the fiscal year 2021, the Company made payments of \$30 million on the amended revolving credit facility. Additionally, dividends paid by the Company increased \$6.2 million from \$49.7 million for the fiscal year 2021 to \$55.9 million for the fiscal year 2022.

The following describes the Company's cash flows for the twelve months ended January 1, 2022 and December 26, 2020:

(in millions)	Fiscal Year	
	2021	2020
Net cash provided by operating activities	\$ 373.3	\$ 258.0
Net cash used in investing activities	(499.2)	(51.4)
Net cash used in financing activities	(69.0)	(67.8)
Effect of exchange rate changes on cash, cash equivalents, and restricted cash	(9.9)	17.6
(Decrease) increase in cash, cash equivalents, and restricted cash	(204.7)	156.4
Cash, cash equivalents, and restricted cash at beginning of period	687.5	531.1
Cash, cash equivalents, and restricted cash at end of period	\$ 482.8	\$ 687.5

#### *Cash Flow from Operating Activities*

Net cash provided by operating activities was \$373.3 million for the fiscal year 2021, an increase of \$115.3 million, compared to \$258.0 million during the fiscal year 2020. The increase in net cash provided by operating activities was primarily due to higher cash earnings partially offset by increases in working capital resulting from higher sales growth.

### Cash Flow from Investing Activities

Net cash used in investing activities was \$499.2 million for the fiscal year 2021, compared to \$51.4 million during the fiscal year 2020. Capital expenditures were \$90.6 million, representing a decrease of \$34.4 million compared to the fiscal year 2020. Net cash paid for the Hartland and Carling acquisitions was \$422.1 million during the fiscal year 2021. The Company also received proceeds of \$15.4 million from the sale of buildings within the Electronics segment during the fiscal year 2021 as compared to proceeds of \$4.8 million as a result of the sale of a property within the Industrial segment during the fiscal year 2020.

### Cash Flow from Financing Activities

Net cash used in financing activities was \$69.0 million for the fiscal year 2021 compared to \$67.8 million for the fiscal year 2020. The Company made payments of \$30.0 million on the amended revolving credit facility during the fiscal year 2021. On March 25, 2020, the Company borrowed \$100.0 million from its revolving credit facility to preserve financial flexibility and enhance liquidity, given the increasing levels of uncertainty related to COVID-19. On April 3, 2020, the Company amended the Credit Agreement to eliminate the \$200.0 million unsecured term loan credit facility, with the remaining outstanding balance of \$140.0 million repaid in full on April 3, 2020 through a new borrowing of \$140.0 million under the amended revolving credit facility. The Company also made principal payments of \$5.0 million on the term loan during fiscal year 2020 before amending the Credit Agreement. During the fiscal year 2020, the Company made payments of \$110.0 million on the amended revolving credit facility. During the fiscal year 2020, the Company repurchased 175,110 shares of its common stock totaling \$22.9 million. Additionally, dividends paid increased \$2.9 million from \$46.8 million for the fiscal year 2020 to \$49.7 million for the fiscal year 2021.

### Contractual Obligations and Commitments

The following table summarizes outstanding contractual obligations and commitments as of December 31, 2022:

(in thousands)	Payments Due By Period				Greater than 5 Years
	Total	Less than 1 Year	1 to 3 Years	3 to 5 Years	
Long-term debt <sup>(a)</sup>	\$ 1,006,344	\$ 134,874	\$ 81,590	\$ 463,616	\$ 326,264
Interest payments <sup>(b)</sup>	202,327	39,411	73,283	56,482	33,151
Operating and finance lease payments <sup>(c)</sup>	68,965	15,132	22,516	10,100	21,217
Income tax obligation <sup>(d)</sup>	19,754	5,000	14,754	—	—
Purchase obligations <sup>(e)</sup>	15,155	12,571	1,151	964	469
Total	<u>\$ 1,312,545</u>	<u>\$ 206,988</u>	<u>\$ 193,294</u>	<u>\$ 531,162</u>	<u>\$ 381,101</u>

(a) Excludes offsetting issuance costs of \$4.8 million. Euro denominated debt amounts are converted based on the Euro to U.S. Dollar spot rate at year end. For more information see Note 9, *Debt*, of the Notes to Consolidated Financial Statements.

(b) Amounts represent estimated contractual interest payments on outstanding debt. Rates in effect as of December 31, 2022 are used for variable rate debt. For more information see Note 9, *Debt*, of the Notes to Consolidated Financial Statements.

(c) For more information see Note 7, *Lease Commitments*, of the Notes to Consolidated Financial Statements.

(d) The Income tax obligation represents the remaining amounts payable regarding the 2017 Littelfuse Toll Charge. The Company has elected to pay the 2017 Littelfuse Toll Charge over the eight-year period prescribed by the Tax Act. For more information see Note 14, *Income Taxes*, of the Notes to Consolidated Financial Statements.

(e) Purchase obligations include purchase commitments and commitments for capital expenditures not recognized in the Company's Consolidated Balance Sheets.

In addition to the above contractual obligations and commitments, the Company had the following obligations at December 31, 2022:

The Company has Company-sponsored defined benefit pension plans covering employees at various non-U.S. subsidiaries including the U.K., Germany, the Philippines, China, Japan, Mexico, Italy and France. At December 31, 2022, the Company had a net unfunded status of \$29.1 million. The Company expects to make approximately \$2.0 million of contributions to the plans in 2023. For additional information, see Note 11, *Benefit Plans*, of the Notes to Consolidated Financial Statements.

### ***Dividends***

Cash dividends paid totaled \$55.9 million, \$49.7 million and \$46.8 million for 2022, 2021 and 2020, respectively. On February 1, 2023, the Board of Directors of the Company declared a quarterly cash dividend of \$0.60 per share, payable on March 9, 2023 to stockholders of record as of February 23, 2023.

### ***Capital Resources***

The Company expends capital to support its operating and strategic plans. Such expenditures include strategic acquisitions, investments to maintain capital assets, develop new products or improve existing products, and to enhance capacity or productivity. Many of the associated projects have long lead-times and require commitments in advance of actual spending.

### ***Share Repurchase Program***

On April 29, 2020, the Company announced that the Board of Directors authorized a new program to repurchase up to 1,000,000 shares of the Company's common stock for the period May 1, 2020 to April 30, 2021 (the "2020 program"). On April 28, 2021, the Company announced that the Board of Directors authorized a new three-year program to repurchase up to \$300 million in the aggregate of shares of the Company's common stock for the period May 1, 2021 to April 30, 2024 to replace its previous 2020 program. There are \$300 million in the aggregate of shares available for purchase under the new program as of December 31, 2022.

During the fiscal years of 2022 and 2021, the Company did not repurchase any shares of its common stock. During the fiscal year 2020, the Company repurchased 175,110 shares of its common stock totaling \$22.9 million.

### ***Off-Balance Sheet Arrangements***

As of December 31, 2022, the Company did not have any off-balance sheet arrangements, as defined under SEC rules. Specifically, the Company was not liable for guarantees of indebtedness owed by third parties, the Company was not directly liable for the debt of any unconsolidated entity and the Company did not have any retained or contingent interest in assets. The Company does not participate in transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities.

### ***Recent Accounting Pronouncements***

Recently issued accounting standards and their estimated effect on the Company's Consolidated Financial Statements are described in Note 1, *Summary of Significant Accounting Policies and Other Information*, of the Notes to Consolidated Financial Statements.

## **ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.**

The Company is exposed to market risk from changes in interest rates, foreign exchange rates and commodity prices.

### ***Interest Rate Risk***

On June 30, 2022, the Company amended and restated its Credit Agreement, dated as of April 3, 2020 to effect certain changes, including, among other changes: (i) adding a \$300 million unsecured term loan credit facility; (ii) making certain financial and non-financial covenants less restrictive on the Company and its subsidiaries; (iii) replacing LIBOR-based interest rate benchmarks and modifying performance-based interest rate margins; and (iv) extending the maturity date to June 30, 2027 (the "Maturity Date"). Pursuant to the Credit Agreement, the Company may, from time to time, increase the size of the revolving credit facility or enter into one or more tranches of term loans in minimum increments of \$25 million if there is no event of default and the Company is in compliance with certain financial covenants.

The revolving loan and term loan balance under the Credit Facility was \$100.0 million and \$296.3 million, respectively, as of December 31, 2022. On May 12, 2022, the Company entered into an interest rate swap agreement to manage interest rate risk exposure, effectively converting the interest rate on the Company's SOFR based floating-rate loans to a fixed-rate. The interest rate swap, with a notional value of \$200 million, was designated as a cash flow hedge against the variability of cash flows associated with the Company's SOFR based loans scheduled to mature on June 30, 2027. The cash flow hedge reduces the Company exposure to future interest rate fluctuation. For the remaining borrowings of \$196.3 million, which represents approximately 20% of the Company's total debt, it is subject to future interest rate fluctuations which could potentially have a negative impact on the Company's cash flows. A prospective increase of 100 basis points in the interest rate applicable to the Company's outstanding borrowings under its credit facility would result in an increase of approximately \$2.0 million in annual interest expense. This exposure would be partially if not fully offset by higher interest income from the Company's investments.

### ***Foreign Exchange Rate Risk***

The majority of the company's operations consist of manufacturing and sales activities in foreign countries. The Company has operations in China, France, Germany, India, Mexico, Philippines, U.K., Japan, Lithuania, Netherlands, Portugal, Singapore, South Korea, Spain, U.S., and Vietnam. During 2022, sales to customers outside the U.S. were approximately 64% of total net sales. During 2021, sales to customers outside the U.S. were approximately 69% of total net sales. Substantially all sales in Europe are denominated in euros and substantially all sales in the Asia-Pacific region are denominated in U.S. dollars, Chinese renminbi, Japanese yen, or Korean won.

The Company's foreign exchange exposures result primarily from inter-company loans, external borrowings, sale of products in foreign currencies, foreign currency denominated purchases, employee-related and other costs of running operations in foreign countries. The Company's most significant foreign currency exposures are to the euro, the Chinese renminbi, Mexican peso, and Philippine peso. Changes in foreign exchange rates could affect the company's sales, costs, balance sheet values and earnings.

At December 31, 2022, the net value of the Company's assets with exposure to foreign currency risk was approximately \$198 million, with the largest exposure being a Euro denominated inter-company loan with a U.S. Dollars functional currency subsidiary. The reduction in earnings from a hypothetical instantaneous 10% adverse change in quoted foreign currency spot rates applied to foreign currency sensitive asset instruments would be \$20 million at December 31, 2022. At December 31, 2022, the net value of the Company's liabilities with exposure to foreign currency risk was \$314 million, with the largest exposure being U.S. Dollar denominated inter-company loans with a Euro functional currency subsidiary. The reduction in earnings from a hypothetical instantaneous 10% adverse change in quoted foreign currency spot rates applied to foreign currency sensitive liability instruments would be \$31 million at December 31, 2022. As a result of the mix in currencies impacting the hypothetical 10% changes, the movements in some instruments would offset movements in other instruments reducing the hypothetical exposure to the Company.

### ***Commodity Price Risk***

The Company uses various metals in the manufacturing of its products, including copper, zinc, tin, gold, and silver. Prices of these and other commodities can rise and result in materially higher costs of producing our products. The Company believes it has adequate primary and secondary sources of supply for each of our key materials. While the Company is exposed to significant changes in certain metal prices and expects higher material costs, the Company actively monitors these exposures, has taken and may take various actions in the future, including price increases and productivity improvements to mitigate any negative impacts of these exposures.

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA.

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## Report of Independent Registered Public Accounting Firm

### Board of Directors and Shareholders Littelfuse, Inc.

#### Opinion on the financial statements

We have audited the accompanying consolidated balance sheets of Littelfuse, Inc. (a Delaware corporation) and subsidiaries (the “Company”) as of December 31, 2022 and January 1, 2022, the related consolidated statements of net income, comprehensive income, equity, and cash flows for each of the three years in the period ended December 31, 2022, and the related notes and financial statement schedule included under Item 15(a) (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and January 1, 2022, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, in conformity with accounting principles generally accepted in the United States of America.

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 December 31, 2022, based on criteria established in the 2013 Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”), and our report dated February 16, 2023, expressed an unqualified opinion.

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

#### *Business Acquisition – C&K Switches – Valuation of acquired intangible assets*

As discussed in Note 2, the Company acquired C&K Switches (“C&K”), on July 19, 2022 for a total purchase price of approximately \$523 million, net of cash acquired. The Company allocated the purchase price, on a preliminary basis, to the assets acquired and liabilities assumed based on their respective fair values, including identified intangible assets of \$254.7 million. We identified the valuation of acquired C&K intangible assets as a critical accounting matter.



The principal considerations for our determination that the valuation of acquired C&K intangible assets is a critical audit matter are (i) the significant judgment by management when determining assumptions used in the fair value measurement of acquired intangible assets (ii) the high degree of auditor judgment and subjectivity in performing procedures and evaluating management's significant assumptions relating to the projected forecasted information including revenue growth rate, weighted average cost of capital (WACC), royalty rate, and customer attrition rate and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Our audit procedures related to the valuation of the acquired intangible assets included the following, among others:

- a. we tested the design and operating effectiveness of the controls over the Company's acquisition and valuation process, including review of the valuation model, significant assumptions used, and the completeness and accuracy of the underlying data used
- b. we tested the projected financial information including forecasted revenue growth rate by assessing the reasonableness of management's forecasts compared to historical results and forecasted industry trends
- c. with the assistance of our valuation specialists, we assessed the assumptions and methodologies used in developing the WACC, royalty rates, and customer attrition rates by developing a range of independent estimates and comparing those to the rates selected by management. We also involved our valuation specialists to evaluate the assumptions and methodologies used in valuing the intangible assets.

/s/ GRANT THORNTON LLP

We have served as the Company's auditor since 2014.

Southfield, Michigan  
February 16, 2023

## Report of Independent Registered Public Accounting Firm

### Board of Directors and Shareholders

Littelfuse, Inc.

#### Opinion on internal control over financial reporting

We have audited the internal control over financial reporting of Littelfuse, Inc. (a Delaware corporation) and subsidiaries (the “Company”) as of December 31, 2022, based on criteria established in the 2013 *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in the 2013 *Internal Control—Integrated Framework* issued by COSO.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (“PCAOB”), the consolidated financial statements of the Company as of and for the year ended December 31, 2022, and our report dated February 16, 2023 expressed an unqualified opinion on those financial statements.

#### 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 (“Management’s Report”). 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.

Our audit of, and opinion on, the Company’s internal control over financial reporting does not include the internal control over financial reporting of C&K Switches, a wholly-owned subsidiary, whose financial statements reflect total assets and revenues constituting 3% and 3%, respectively, of the related consolidated financial statement amounts as of and for the year ended December 31, 2022. As indicated in Management’s Report, C&K Switches, was acquired during 2022. Management’s assertion on the effectiveness of the Company’s internal control over financial reporting excluded internal control over financial reporting of C&K Switches.

#### 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/ GRANT THORNTON LLP

Southfield, Michigan  
February 16, 2023

**LITTELFUSE, INC.**  
**CONSOLIDATED BALANCE SHEETS**

<b>(in thousands, except share and per share data)</b>	<b>December 31, 2022</b>	<b>January 1, 2022</b>
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 562,588	\$ 478,473
Short-term investments	84	28
Trade receivables, less allowances of \$83,562 and \$59,232, respectively	306,578	275,192
Inventories	547,690	445,671
Prepaid income taxes and income taxes receivable	7,215	2,035
Prepaid expenses and other current assets	87,641	68,812
Total current assets	1,511,796	1,270,211
Net property, plant, and equipment	481,110	437,889
Intangible assets, net of amortization	593,970	407,126
Goodwill	1,186,922	929,790
Investments	24,121	39,211
Deferred income taxes	14,367	13,127
Right of use lease assets, net	57,382	29,616
Other long-term assets	34,066	24,734
Total assets	<u>\$ 3,903,734</u>	<u>\$ 3,151,704</u>
<b>LIABILITIES AND EQUITY</b>		
Current liabilities:		
Accounts payable	\$ 208,571	\$ 222,039
Accrued liabilities	187,057	159,689
Accrued income taxes	41,793	27,905
Current portion of long-term debt	134,874	25,000
Total current liabilities	572,295	434,633
Long-term debt, less current portion	866,623	611,897
Deferred income taxes	100,230	81,289
Accrued post-retirement benefits	28,037	37,037
Non-current lease liabilities	45,661	22,305
Other long-term liabilities	79,510	71,023
Shareholders' equity:		
Common stock, par value \$0.01 per share: 34,000,000 shares authorized; shares issued, 26,445,618 and 26,350,763, respectively	261	260
Additional paid-in capital	974,097	946,588
Treasury stock, at cost: 1,685,357 and 1,664,711 shares, respectively	(252,866)	(248,120)
Accumulated other comprehensive loss	(95,764)	(73,463)
Retained earnings	1,585,466	1,268,124
Littelfuse, Inc. shareholders' equity	2,211,194	1,893,389
Non-controlling interest	184	131
Total equity	2,211,378	1,893,520
Total liabilities and equity	<u>\$ 3,903,734</u>	<u>\$ 3,151,704</u>

See accompanying Notes to Consolidated Financial Statements.

**LITTELFUSE, INC.**  
**CONSOLIDATED STATEMENTS OF NET INCOME**

<b>(in thousands, except per share data)</b>	<b>Fiscal Year Ended</b>		
	<b>December 31, 2022</b>	<b>January 1, 2022</b>	<b>December 26, 2020</b>
Net sales	\$ 2,513,897	\$ 2,079,928	\$ 1,445,695
Cost of sales	1,506,984	1,308,002	944,523
Gross profit	1,006,913	771,926	501,172
Selling, general, and administrative expenses	344,813	275,457	204,507
Research and development expenses	95,602	65,940	52,538
Amortization of intangibles	55,695	42,729	40,039
Restructuring, impairment, and other charges	9,977	2,158	41,716
Total operating expenses	506,087	386,284	338,800
Operating income	500,826	385,642	162,372
Interest expense	26,216	18,527	21,077
Foreign exchange loss (gain)	24,359	17,158	(14,875)
Other expense (income), net	7,207	8,932	(5,083)
Income before income taxes	443,044	341,025	161,253
Income taxes	69,738	57,219	31,267
Net income	<u>\$ 373,306</u>	<u>\$ 283,806</u>	<u>\$ 129,986</u>
Income per share:			
Basic	<u>\$ 15.09</u>	<u>\$ 11.54</u>	<u>\$ 5.33</u>
Diluted	<u>\$ 14.94</u>	<u>\$ 11.38</u>	<u>\$ 5.29</u>
Weighted average shares and equivalent shares outstanding:			
Basic	24,734	24,603	24,371
Diluted	24,986	24,932	24,592

See accompanying Notes to Consolidated Financial Statements.

**LITTELFUSE, INC.**  
**CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**

<b>(in thousands)</b>	<b>Year Ended</b>		
	<b>December 31, 2022</b>	<b>January 1, 2022</b>	<b>December 26, 2020</b>
Net income	\$ 373,306	\$ 283,806	\$ 129,986
Other comprehensive income (loss):			
Pension and postemployment adjustments, net of tax	9,735	22,213	(16,095)
Cash flow hedge, net of tax	6,596	—	—
Foreign currency translation adjustments	(38,632)	(4,519)	31,761
Comprehensive income	\$ 351,005	\$ 301,500	\$ 145,652

See accompanying Notes to Consolidated Financial Statements.

**LITTELFUSE, INC.**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS**

(in thousands)	Year Ended		
	December 31, 2022	January 1, 2022	December 26, 2020
<b>OPERATING ACTIVITIES</b>			
Net income	\$ 373,306	\$ 283,806	\$ 129,986
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation	65,011	55,906	56,139
Amortization of intangibles	55,695	42,729	40,039
Non-cash pension settlement charges	—	19,855	—
Impairment charges	4,546	—	36,078
Deferred revenue	115	(2,570)	(593)
Non-cash inventory charges	15,593	8,397	—
Stock-based compensation	23,626	19,611	18,129
Loss (gain) on investments and other assets	14,024	(8,907)	(4,663)
Deferred income taxes	(22,419)	(8,020)	(3,214)
Other	32,680	20,275	(18,230)
Changes in operating assets and liabilities:			
Trade receivables	(19,334)	(10,234)	(25,588)
Inventories	(89,235)	(104,555)	(12,425)
Accounts payable	(22,403)	40,481	28,820
Accrued liabilities and income taxes	(9,495)	30,793	6,765
Prepaid expenses and other assets	(1,992)	(14,223)	6,788
Net cash provided by operating activities	419,718	373,344	258,031
<b>INVESTING ACTIVITIES</b>			
Acquisitions of businesses, net of cash acquired	(532,670)	(423,633)	—
Purchases of property, plant, and equipment	(104,341)	(90,562)	(56,191)
Proceeds from sale of property, plant, and equipment	676	15,425	4,758
Other	(62)	(390)	—
Net cash used in investing activities	(636,397)	(499,160)	(51,433)
<b>FINANCING ACTIVITIES</b>			
Proceeds of term loan	300,000	—	—
Proceeds from senior notes payable	100,000	—	—
Payments of senior notes payable	(25,000)	—	—
Proceeds of revolving credit facility	—	—	240,000
Payments of revolving credit facility	—	(30,000)	(110,000)
Repayments of other debts	(1,552)	—	—
Payments of term loan and other loans	(3,750)	(2,619)	(145,000)
Net proceeds related to stock-based award activities	(862)	13,365	18,744
Debt issuance costs	(2,723)	—	(1,786)
Cash dividends paid	(55,911)	(49,730)	(46,839)
Purchases of common stock	—	—	(22,927)
Net cash provided by (used in) financing activities	310,202	(68,984)	(67,808)
Effect of exchange rate changes on cash, cash equivalents, and restricted cash	(11,420)	(9,889)	17,596
Increase (decrease) in cash, cash equivalents, and restricted cash	82,103	(204,689)	156,386
Cash, cash equivalents, and restricted cash at beginning of period	482,836	687,525	531,139
Cash, cash equivalents, and restricted cash at end of period	<u>\$ 564,939</u>	<u>\$ 482,836</u>	<u>\$ 687,525</u>
Supplementary Cash Flow Information			
Reconciliation of cash and cash equivalents:			
Cash and cash equivalents	\$ 562,588	\$ 478,473	\$ 687,525
Restricted cash included in prepaid expenses and other current assets	\$ 802	\$ 2,718	\$ —
Restricted cash included in other assets	\$ 1,549	\$ 1,645	\$ —
Cash paid during the period for interest	<u>\$ 25,439</u>	<u>\$ 17,420</u>	<u>\$ 20,095</u>
Cash paid during the period for income taxes, net of refunds	<u>\$ 93,622</u>	<u>\$ 55,561</u>	<u>\$ 27,619</u>
Capital expenditures, not yet paid	<u>\$ 11,725</u>	<u>\$ 11,872</u>	<u>\$ 6,126</u>

See accompanying Notes to Consolidated Financial Statements.

**LITTELFUSE, INC.**  
**CONSOLIDATED STATEMENTS OF EQUITY**

(in thousands, except share and per share data)	<b>Littelfuse, Inc. Shareholders' Equity</b>						
	Common Stock	Addl. Paid in Capital	Treasury Stock	Accum. Other Comp. Inc. (Loss)	Retained Earnings	Non-controlling Interest	Total
Balance at December 28, 2019	\$ 256	\$867,996	\$(216,447)	\$(106,823)	\$ 950,901	\$ 131	\$1,496,014
Net income	—	—	—	—	129,986	—	129,986
Other comprehensive income, net of tax	—	—	—	15,666	—	—	15,666
Stock-based compensation	—	18,129	—	—	—	—	18,129
Withheld 20,250 shares on restricted share units for withholding taxes	—	—	(2,992)	—	—	—	(2,992)
Stock options exercised	3	21,733	—	—	—	—	21,736
Repurchases of common stock	—	—	(22,927)	—	—	—	(22,927)
Cash dividends paid (\$1.92 per share)	—	—	—	—	(46,839)	—	(46,839)
Balance at December 26, 2020	\$ 259	\$907,858	\$(242,366)	\$ (91,157)	\$1,034,048	\$ 131	\$1,608,773
Net income	—	—	—	—	283,806	—	283,806
Other comprehensive income, net of tax	—	—	—	17,694	—	—	17,694
Stock-based compensation	—	19,611	—	—	—	—	19,611
Withheld 20,428 shares on restricted share units for withholding taxes	—	—	(5,754)	—	—	—	(5,754)
Stock options exercised	1	19,119	—	—	—	—	19,120
Cash dividends paid (\$2.02 per share)	—	—	—	—	(49,730)	—	(49,730)
Balance at January 1, 2022	\$ 260	\$946,588	\$(248,120)	\$ (73,463)	\$1,268,124	\$ 131	\$1,893,520
Net income	—	—	—	—	373,306	—	373,306
Other comprehensive (loss), net of tax	—	—	—	(22,301)	—	—	(22,301)
Stock-based compensation	—	23,626	—	—	—	—	23,626
Non-controlling interest	—	—	—	—	(53)	53	—
Withheld 20,646 shares on restricted share units for withholding taxes	—	—	(4,746)	—	—	—	(4,746)
Stock options exercised	1	3,883	—	—	—	—	3,884
Cash dividends paid (\$2.26 per share)	—	—	—	—	(55,911)	—	(55,911)
Balance at December 31, 2022	<u>\$ 261</u>	<u>\$974,097</u>	<u>\$(252,866)</u>	<u>\$ (95,764)</u>	<u>\$1,585,466</u>	<u>\$ 184</u>	<u>\$2,211,378</u>

See accompanying Notes to Consolidated Financial Statements.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 1. Summary of Significant Accounting Policies and Other Information

#### *Nature of Operations*

Littelfuse, Inc. and subsidiaries (the "Company") is a diversified, industrial technology manufacturing company empowering a sustainable, connected, and safer world. Across more than 20 countries, and with approximately 18,000 global associates, the Company partners with customers to design and deliver innovative, reliable solutions. Serving over 100,000 end customers, the Company's products are found in a variety of industrial, transportation and electronics end markets – everywhere, every day.

#### *Fiscal Year*

References herein to "2022", "fiscal 2022" or "fiscal year 2022" refer to the fiscal year ended December 31, 2022. References herein to "2021", "fiscal 2021" or "fiscal year 2021" refer to the fiscal year ended January 1, 2022. References herein to "2020", "fiscal 2020" or "fiscal year 2020" refer to the fiscal year ended December 26, 2020. The Company operates on a 52-53 week fiscal year (4-4-5 basis) ending on the Saturday closest to December 31. Therefore, the financial results of certain fiscal years and the associated 14 week quarters will not be exactly comparable to the prior 52 week fiscal years and the associated quarters having only 13 weeks. As a result of using this convention, the fiscal year 2021 contained 53 weeks while each of fiscal 2022 and fiscal 2020 contained 52 weeks.

#### *Basis of Presentation*

The Consolidated Financial Statements include the accounts of Littelfuse, Inc. and its subsidiaries. All significant intercompany accounts and transactions have been eliminated. The Company's Consolidated Financial Statements were prepared in accordance with generally accepted accounting principles in the United States of America ("U.S.") and include the assets, liabilities, sales and expenses of all wholly-owned subsidiaries and majority-owned subsidiaries over which the Company exercises control.

#### *Use of Estimates*

The process of preparing financial statements in conformity with generally accepted accounting principles in the U.S. requires management to make estimates and assumptions that affect the amounts of assets and liabilities at the date of the Consolidated Financial Statements, and the reported amounts of revenues and expenses and the accompanying notes. The Company evaluates and updates its assumptions and estimates on an ongoing basis and may employ outside experts to assist in its evaluation, as considered necessary. Actual results could differ from those estimates.

#### *Cash, Cash Equivalents and Restricted Cash*

All highly liquid investments, with an original maturity of three months or less when purchased, are considered to be cash equivalents. The Company maintains several pools including multicurrency notional pools and physical pools internationally and a zero balance account ("ZBA") structure in the U.S. In the notional pools, actual cash balances are not physically converted and are not commingled between participating legal entities. The Company will classify any overdraft balances within accrued expenses and other current liabilities on the Consolidated Balance Sheets.

The following table provides a reconciliation of cash, cash equivalents and restricted cash at December 31, 2022 and January 1, 2022 reported within the Consolidated Balance Sheets that sum to the total of the same such amounts shown in the Consolidated Statement of Cash Flows.

<b>(in millions)</b>	<b>2022</b>	<b>2021</b>
Cash and cash equivalents	\$ 562,588	\$ 478,473
Restricted cash included in prepaid expenses and other current assets	802	2,718
Restricted cash included in other assets	1,549	1,645
Total cash, cash equivalents and restricted cash	<u>\$ 564,939</u>	<u>\$ 482,836</u>



## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### ***Short-Term and Long-Term Investments***

As of December 31, 2022, the Company has an investment in Polytronics Technology Corporation Ltd. (“Polytronics”). The Company’s Polytronics shares held at the end of fiscal 2022 and 2021 represent approximately 6.7% and 6.8% of total Polytronics shares outstanding, respectively. The Polytronics investment is carried at fair value. The fair value of the Polytronics investment was €10 million (approximately \$10.7 million) at December 31, 2022 and €23 million (approximately \$26.1 million) at January 1, 2022.

As a result of the Company’s acquisition of IXYS, the Company has equity ownerships in various investments that are accounted for under the equity method. The Company owns 45% of the outstanding equity of Powersem GmbH, a module manufacturer based in Germany, approximately 19% of the outstanding equity of EB Tech Ltd., a company with expertise in radiation technology based in South Korea, and approximately 24% of the outstanding common shares of Automated Technology, Inc., a supplier located in the Philippines that provides assembly and test services. The Company recognized gains of \$1.3 million from its equity method investment for both the fiscal years ended December 31, 2022 and January 1, 2022. The balance of these equity method investments was \$13.5 million and \$12.4 million as of the fiscal years ended December 31, 2022 and January 1, 2022, respectively. See Note 17, *Related Party Transactions*, for further discussion.

The Company has investments related to its non-qualified Supplemental Retirement and Savings Plan. The Company maintains accounts for participants through which participants make investment elections. The investment securities are subject to the claims of the Company’s creditors. The investment securities are all mutual funds. The investment securities are measured at net asset value. As of December 31, 2022 and January 1, 2022, the investment securities balance was \$14.1 million and \$15.0 million, respectively, related to the plan and are included in *Other long-term assets* on the Consolidated Balance Sheets.

### ***Trade Receivables***

The Company performs credit evaluations of customers’ financial condition and generally does not require collateral. Credit losses are provided for in the financial statements based upon specific knowledge of a customer’s inability to meet its financial obligations to the Company. Historically, credit losses have consistently been within management’s expectations and have not been a material amount. A receivable is considered past due if payments have not been received within agreed upon invoice terms. Write-offs are recorded at the time a customer receivable is deemed uncollectible.

The Company also maintains allowances against trade receivables for the settlement of rebates and sales discounts to customers. These allowances are based upon specific customer sales and sales discounts as well as actual historical experience.

### ***Inventories***

Inventories are stated at the lower of cost or net realizable value, which approximates current replacement cost. Cost is principally determined using the first-in, first-out method. The Company maintains excess and obsolete reserves against inventory to reduce the carrying value to the expected net realizable value. These reserves are based upon a combination of factors including historical sales volume, market conditions, lower of cost or net realizable value of the inventory.

### ***Property, Plant, and Equipment***

Land, buildings, and equipment are carried at cost. Depreciation is calculated using the straight-line method with useful lives of up to 35 years for buildings, three to 20 years for equipment, seven years for furniture and fixtures, five years for tooling and three years for computer equipment. Leasehold improvements are depreciated over the lesser of their useful life or the lease term. Maintenance and repair costs are charged to expense as incurred. Major overhauls that extend the useful lives of existing assets are capitalized.

### ***Goodwill***

The Company annually tests goodwill for impairment on the first day of its fiscal fourth quarter, or more frequently if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying value.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The Company compares each reporting unit's fair value, estimated based on comparable company market valuations and expected future discounted cash flows to be generated by the reporting unit, to its carrying value. The results of the annual goodwill impairment test as of October 2, 2022 indicated that the estimated fair values for each of the seven reporting units exceeded their respective carrying values. As of the most recent annual test conducted on October 2, 2022, the Company noted that the excess of fair value over the carrying value, was 151%, 66%, 98%, 42%, 44%, 57%, and 191% for its reporting units; Electronics-Passive Products and Sensors, Electronics-Semiconductor, Passenger Car Products, Commercial Vehicle Products, Automotive Sensors, Relays, and Power Fuse, respectively. Relatively small changes in the Company's key assumptions would not have resulted in any reporting units failing the goodwill impairment test. See Note 5, *Goodwill and Other Intangible Assets*, for additional information.

There were no impairment charges recorded during the fiscal years of 2022 and 2021. During the second quarter of 2020, the Company recorded a non-cash charge of \$33.8 million to recognize the impairment of goodwill in the automotive sensors reporting unit within the Transportation segment.

The Company also performs an interim review for indicators of impairment each quarter to assess whether an interim impairment review is required for any reporting unit. As part of its interim reviews, management analyzes potential changes in the value of individual reporting units based on each reporting unit's operating results for the period compared to expected results as of the prior year's annual impairment test. In addition, management considers how other key assumptions, including discount rates and expected long-term growth rates, used in the last annual impairment test, could be impacted by changes in market conditions and economic events. Based on the interim assessments as of December 31, 2022, management concluded that no events or changes in circumstances indicated that it was more likely than not that the fair value for any reporting unit had declined below its carrying value.

### ***Long-Lived Assets***

Customer relationships, trademarks and tradenames are amortized using the straight-line method over estimated useful lives that have a range of 3 to 20 years. Patents, licenses and software are amortized using the straight-line method or an accelerated method over estimated useful lives that have a range of 4 to 17 years. The distribution networks are amortized on either a straight-line or accelerated basis over estimated useful lives that have a range of 4 to 10 years. Land use rights are amortized using the straight-line method up to 50 years which is the term of the land use rights.

The Company assesses potential impairments to its long-lived assets if events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. An impaired asset is written down to its estimated fair value based upon the most recent information available. Estimated fair market value is generally measured by discounting estimated future cash flows. Long-lived assets, other than goodwill and other intangible assets, that are held for sale are recorded at the lower of carrying value or the fair market value less the estimated cost to sell.

### ***Environmental Liabilities***

Environmental liabilities are accrued based on engineering studies estimating the cost of remediating sites. Expenses related to on-going maintenance of environmental sites are expensed as incurred. If actual or estimated probable future losses exceed the Company's recorded liability for such claims, the Company would record additional charges during the period in which the actual loss or change in estimate occurred.

### ***Pension and Other Post-retirement Benefits***

The Company records annual income and expense amounts relating to its pension and post-retirement benefits plans based on calculations which include various actuarial assumptions including discount rates, expected long-term rates of return and compensation increases. The Company reviews its actuarial assumptions on an annual basis as of the fiscal year-end balance sheet date (or more frequently if a significant event requiring remeasurement occurs) and modifies the assumption based on current rates and trends when it is appropriate to do so. The effects of modifications are recognized immediately on the Consolidated Balance Sheets, but are generally amortized into operating earnings over future periods, with the deferred amount recorded in accumulated other comprehensive income (loss). The Company believes that the assumptions utilized in recording its obligations under its plans are reasonable based on its experience, market conditions and input from its actuaries and investment advisors.

### ***Revenue Recognition***

#### *Revenue Disaggregation*

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The following table disaggregates the Company's revenue by primary business units for the fiscal years ended December 31, 2022 and January 1, 2022:

(in thousands)	Fiscal Year Ended December 31, 2022			
	Electronics Segment	Transportation Segment	Industrial Segment	Total
Electronics – Semiconductor	\$ 802,281	\$ —	\$ —	\$ 802,281
Electronics – Passive Products and Sensors	690,538	—	—	690,538
Commercial Vehicle Products	—	374,707	—	374,707
Passenger Car Products	—	249,470	—	249,470
Automotive Sensors	—	91,963	—	91,963
Industrial Products	—	—	304,938	304,938
Total	<u>\$ 1,492,819</u>	<u>\$ 716,140</u>	<u>\$ 304,938</u>	<u>\$ 2,513,897</u>

(in thousands)	Fiscal Year Ended January 1, 2022			
	Electronics Segment	Transportation Segment	Industrial Segment	Total
Electronics – Semiconductor	\$ 678,861	\$ —	\$ —	\$ 678,861
Electronics – Passive Products and Sensors	621,883	—	—	621,883
Passenger Car Products	—	266,020	—	266,020
Commercial Vehicle Products	—	160,300	—	160,300
Automotive Sensors	—	101,738	—	101,738
Industrial Products	—	—	251,126	251,126
Total	<u>\$ 1,300,744</u>	<u>\$ 528,058</u>	<u>\$ 251,126</u>	<u>\$ 2,079,928</u>

See Note 16, *Segment Information*, for net sales by segment and countries.

The Company recognizes revenue on product sales in the period in which the Company satisfies its performance obligation and control of the product is transferred to the customer. The Company's sales arrangements with customers are predominately short term in nature and generally provide for transfer of control at the time of shipment as this is the point at which title and risk of loss of the product transfers to the customer. At the end of each period, for those shipments where title to the products and the risk of loss and rewards of ownership do not transfer until the product has been received by the customer, the Company adjusts revenues and cost of sales for the delay between the time that the products are shipped and when they are received by the customer. The amount of revenue recorded reflects the consideration to which the Company expects to be entitled in exchange for goods and may include adjustments for customer allowance, rebates and price adjustments. The Company's distribution channels are primarily through direct sales and independent third-party distributors.

The Company has elected the practical expedient under Accounting Standards Codification ("ASC") 340-40-25-4 to expense commissions when incurred as the amortization period of the commission asset the Company would have otherwise recognized is less than one year.

### **Revenue and Billing**

The Company generally accepts orders from customers through receipt of purchase orders or electronic data interchange based on written sales agreements and purchasing contracts. Contract pricing and selling agreement terms are based on market factors, costs, and competition. Pricing is often negotiated as an adjustment (premium or discount) from the Company's published price lists. The customer is invoiced when the Company's products are shipped to them in accordance with the terms of the sales agreement. As the Company's standard payment terms are less than one year, the Company has elected the practical expedient under ASC 606-10-32-18 to not assess whether a contract has a significant financing component. The Company also elected the practical expedient provided in ASC 606-10-25-18B to treat all product shipping and handling activities as fulfillment activities, and therefore recognize the gross revenue associated with the contract, inclusive of any shipping and handling revenue.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### ***Ship and Debit Program***

Some of the terms of the Company's sales agreements and normal business conditions provide customers (distributors) the ability to receive price adjustments on products previously shipped and invoiced. This practice is common in the industry and is referred to as a "ship and debit" program. This program allows the distributor to debit the Company for the difference between the distributors' contracted price and a lower price for specific transactions. Under certain circumstances (usually in a competitive situation or large volume opportunity), a distributor will request authorization for pricing allowances to reduce its price. When the Company approves such a reduction, the distributor is authorized to "debit" its account for the difference between the contracted price and the lower approved price. The Company establishes reserves for this program based on historic activity, distributor inventory levels and actual authorizations for the debit and recognizes these debits as a reduction of revenue.

### ***Return to Stock***

The Company has a return to stock policy whereby certain customers, with prior authorization from the Company's management, can return previously purchased goods for full or partial credit. The Company establishes an estimated allowance for these returns based on historic activity. Sales revenue and cost of sales are reduced to anticipate estimated returns.

### ***Volume Rebates***

The Company offers volume-based sales incentives to certain customers to encourage greater product sales. If customers achieve their specific quarterly or annual sales targets, they are entitled to rebates. The Company estimates the projected amount of rebates that will be achieved by the customer and recognizes this estimated cost as a reduction to revenue as products are sold.

### ***Allowance for Credit Losses***

The Company currently measures the expected credit losses based on our historical credit loss experience. The Company has not experienced significant recent or historical credit losses and is not forecasting any significant credit losses which would require adjustments to our methodology. If current conditions and supportable forecasts indicate that our historical loss experience is not reasonable and no longer supportable, the Company may adjust its historical credit loss experience and to reflect these conditions and forecasts. The Company regularly analyzes its significant customer accounts and, when the Company becomes aware of a customer's inability to meet its financial obligations, the Company records a specific reserve for bad debt to reduce the related receivable to the amount the Company reasonably believes is collectible. The Company also analyzes all other customers based on a variety of factors including the length of time the receivables are past due, the financial health of the customer, macroeconomic considerations and historical collection and loss experience. Historically, the allowance for credit losses has been adequate to cover bad debts. If circumstances related to specific customers change, the estimates of the recoverability of receivables could be further adjusted.

As of December 31, 2022 and January 1, 2022, the Company's allowance for credit losses was \$1.6 million and \$1.9 million, respectively. Additionally, the Company had \$4.8 million and \$2.1 million of trade receivables greater than 90 days past due as of December 31, 2022 and January 1, 2022, respectively.

### ***Advertising Costs***

The Company expenses advertising costs as incurred, which amounted to \$3.8 million, \$2.1 million, and \$2.1 million in fiscal years 2022, 2021 and 2020, respectively, and are included as a component of selling, general, and administrative expenses.

### ***Shipping and Handling Fees and Costs***

Amounts billed to customers related to shipping and handling are classified as revenue. Costs incurred for shipping and handling of \$13.9 million, \$15.4 million, and \$11.1 million in fiscal years 2022, 2021, and 2020, respectively, are classified in selling, general, and administrative expenses.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### *Foreign Currency Translation / Remeasurement*

The Company's foreign subsidiaries use the local currency or the U.S. dollar as their functional currency, as appropriate. Assets and liabilities are translated using exchange rates at the balance sheet date, and revenues and expenses are translated at weighted average rates. Adjustments from the translation process are recognized in Shareholders' equity as a component of Accumulated other comprehensive income (loss). The amount of foreign currency gain or loss recognized in the Consolidated Statements of Net Income was a loss of \$24.4 million in fiscal year 2022, a loss of \$17.2 million in fiscal year 2021, and a gain of \$14.9 million in fiscal year 2020.

### *Stock-Based Compensation*

The Company recognizes compensation expense for the cost of awards of equity compensation using a fair value method. Benefits of tax deductions in excess of recognized compensation expense are reported as operating cash flows. See Note 12, *Stock-Based Compensation*, for additional information on stock-based compensation.

### *Coal Mining Liability*

Included in other long-term liabilities is an accrual related to former coal mining operations at Littelfuse GmbH (formerly known as Heinrich Industries, AG) for the amounts of €1.6 million (\$1.7 million) and €1.9 million (\$2.1 million) at December 31, 2022 and January 1, 2022, respectively. Management, in conjunction with an independent third-party, performs an annual evaluation of the former coal mining operations in order to develop an estimate of the probable future obligations in regard to remediating the dangers (such as a shaft collapse) of abandoned coal mine shafts in the former coal mining operations. Management accrues for costs associated with such remediation efforts based on management's best estimate when such costs are probable and reasonably able to be estimated. The ultimate determination can only be done after respective investigations because the concrete conditions are mostly unknown at this time.

### *Other Expense (Income), Net*

Other expense (income), net generally consists of interest income, royalties, change in fair value of available-for-sale securities, pension non-service costs and settlements and other non-operating expense (income).

### *Income Taxes*

The Company accounts for income taxes using the asset and liability method. Deferred taxes are recognized for the future effects of temporary differences between financial and income tax reporting using enacted tax rates in effect for the years in which the differences are expected to reverse. The Company recognizes deferred taxes for temporary differences, operating loss carryforwards, and tax credit and other tax attribute carryforwards (excluding carryforwards where usage has been determined to be remote). Deferred tax assets are reduced by a valuation allowance if it is more likely than not that some portion, or all, of the deferred tax assets will not be realized. U.S. state and non-U.S. income taxes are provided on the portion of non-U.S. income that is expected to be remitted to the U.S. and be taxable (and non-U.S. income taxes are provided on the portion of non-U.S. income that is expected to be remitted to an upper-tier non-U.S. entity). Deferred tax assets and liabilities are adjusted for the effects of changes in tax laws and rates on the date of enactment.

Deferred U.S. income taxes and non-U.S. taxes are not provided on the excess of the investment value for financial reporting over the tax basis of investments in those non-U.S. subsidiaries for which such excess is considered to be permanently reinvested in those operations. Management regularly evaluates whether non-U.S. earnings are expected to be permanently reinvested. This evaluation requires judgment about the future operating and liquidity needs of the Company and its non-U.S. subsidiaries. Changes in economic and business conditions, tax laws, or the Company's financial situation could result in changes to these judgments and the need to record additional tax liabilities.

The Company recognizes the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained on examination by the taxing authorities, based on the technical merits of the position. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than 50% likelihood of being realized upon ultimate settlement.

The 2017 Tax Cuts and Jobs Act (the "Tax Act"), among other things, imposed a one-time tax (the "Toll Charge") on accumulated earnings of certain non-U.S. subsidiaries and included base broadening provisions commonly referred to as the global intangible low-taxed income provisions ("GILTI").

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The Company elected to pay the 2017 Littelfuse Toll Charge over the eight-year period prescribed by the Tax Act. The long-term portion of this Toll Charge which remains payable as of December 31, 2022, totaling \$14.8 million, is recorded in Other long-term liabilities, and the anticipated 2023 annual installment payment of \$5.0 million is included in *Accrued income taxes*, on the Consolidated Balance Sheet as of December 31, 2022.

In accordance with guidance issued by the Financial Accounting Standards Board ("FASB") staff, the Company has adopted an accounting policy to treat any GILTI inclusions as a period cost if and when incurred. Thus, for the fiscal years ended December 31, 2022, January 1, 2022 and December 26, 2020, deferred taxes were computed without consideration of the possible future impact of the GILTI provisions, and any current year impact was recorded as a part of the current portion of income tax expense.

### ***Fair Value Measurements***

Certain assets and liabilities are required to be recorded at fair value on a recurring basis. Fair value is determined based on the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants. The Company records the fair value of its available-for-sale securities and pension plan assets on a recurring basis. Assets measured at fair value on a nonrecurring basis include long-lived assets held and used, long-lived assets held for sale, goodwill and other intangible assets. The fair value of cash and cash equivalents, accounts receivable, short-term debt and accounts payable approximate their carrying values. The three-tier value hierarchy, which prioritizes valuation methodologies based on the reliability of the inputs, is:

**Level 1** – Valuations based on quoted prices for identical assets and liabilities in active markets.

**Level 2** – Valuations based on observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

**Level 3** – Valuations based on unobservable inputs reflecting the Company's own assumptions, consistent with reasonably available assumptions made by other market participants.

### ***Recently Adopted Accounting Standards***

In November 2021, the FASB issued ASU No. 2021-10, "Government Assistance (Topic 832): Disclosures by Business Entities about Government Assistance". The standard, requires annual disclosures about transactions with a government that are accounted for by applying a grant or contribution accounting model by analogy: 1) Information about the nature of the transactions and the related accounting policy used to account for the transactions; 2) The line items on the balance sheet and income statement that are affected by the transactions, and the amounts applicable to each financial statement line item; 3) Significant terms and conditions of the transactions, including commitments and contingencies. The guidance is effective for fiscal years beginning after December 15, 2021 with early adoption permitted. The adoption of ASU 2021-10 did not have a material impact on the Company's Consolidated Financial Statements.

In October 2021, the FASB issued ASU No. 2021-08, "Business Combinations (Topic 805): Accounting for Contract Assets and Contract Liabilities from Contracts with Customers". The standard requires an entity (acquirer) to recognize and measure contract assets and contract liabilities acquired in a business combination in accordance with Topic 606. The guidance is effective for fiscal years beginning after December 15, 2022 with early adoption permitted. The adoption of ASU 2021-08 did not have a material impact on the Company's Consolidated Financial Statements.

### ***Recently Issued Accounting Standards***

In December 2022, the FASB issued ASU No. 2022-06, "Reference Rate Reform (Topic 848): Deferral of the Sunset Date of Topic 848". The amendments in this Update defer the sunset date of Topic 848 from December 31, 2022, to December 31, 2024, after which entities will no longer be permitted to apply the relief in Topic 848. The amendments in this Update are effective for all entities upon issuance of this Update. On June 30, 2022, the Company amended and restated its Credit Agreement, replacing LIBOR-based interest benchmarks with Secured Overnight Financing Rate ("SOFR") based floating-rate loans. The Company's loans under the available credit facility are SOFR based floating-rate loans. The Company does not expect any effect from the adoption of this guidance on the Company's Consolidated Financial Statements.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 2. Acquisitions

The Company accounts for acquisitions using the acquisition method in accordance with ASC 805, “Business Combinations,” in which assets acquired and liabilities assumed are recorded at fair value as of the date of acquisition. The operating results of the acquired business are included in the Company’s Consolidated Financial Statements from the date of the acquisition.

#### *C&K Switches*

On July 19, 2022, the Company acquired C&K Switches (“C&K”) for \$540 million in cash. Founded in 1928, C&K is a leading designer and manufacturer of high-performance electromechanical switches and interconnect solutions with a strong global presence across a broad range of end markets, including industrial, transportation, datacom, and aerospace. At the time the Company and C&K entered into a definitive agreement, C&K had annualized sales of over \$200 million. The business is reported as part of the electronics-passive products and sensors business within the Company's Electronics segment.

The acquisition was funded through a combination of cash on hand and debt. The total purchase consideration of \$523.0 million, net of cash acquired, has been allocated, on a preliminary basis, to assets acquired and liabilities assumed, as of the completion of the acquisition, based on preliminary estimated fair values. The purchase price allocation is preliminary because the evaluations necessary to assess the fair values of the net assets acquired are still in process. The primary area not yet finalized relates to the completion of the valuation of certain acquired income tax assets and liabilities. As a result, these allocations are subject to change during the purchase price allocation period as the valuations are finalized.

The following table summarizes the preliminary purchase price allocation of the fair value of assets acquired and liabilities assumed in the C&K acquisition:

<b>(in thousands)</b>	<b>Purchase Price Allocation</b>
<b>Total purchase consideration:</b>	
Cash, net of cash acquired	\$ 523,014
<b>Allocation of consideration to assets acquired and liabilities assumed:</b>	
Trade receivables, net	20,967
Inventories	42,968
Other current assets	2,932
Property, plant, and equipment	32,791
Intangible assets	254,700
Goodwill	270,245
Other non-current assets	14,797
Current liabilities	(47,734)
Long-term debt	(9,626)
Other non-current liabilities	(59,026)
	<u>\$ 523,014</u>

All C&K goodwill, other assets and liabilities were recorded in the Electronics segment and are reflected in the Americas, Europe and Asia-Pacific geographic areas. The goodwill resulting from this acquisition consists largely of the Company’s expected future product sales and synergies from combining C&K’s products and technology with the Company’s existing Electronics products portfolio. Goodwill resulting from the C&K acquisition is not expected to be deductible for tax purposes.

Included in the Company’s Consolidated Statements of Net Income for the fiscal year ended December 31, 2022 are net sales of \$81.7 million, and a loss before income taxes of \$4.2 million, since the July 19, 2022 acquisition of C&K.

As required by purchase accounting rules, the Company recorded a \$10.8 million step-up of inventory to its fair value as of the acquisition date. The step-up was amortized as a non-cash charge to cost of sales during the fiscal year ended December 31, 2022, as the acquired inventory was sold, and is reflected as other non-segment costs.

For the fiscal year ended December 31, 2022, the Company incurred \$9.1 million of legal and professional fees related to the C&K acquisition recognized as *Selling, general, and administrative expenses* and reflected as other non-segment costs.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### *Embed*

On April 12, 2022, the Company acquired Embed Ltd. (“Embed”). Founded in 2005, Embed is a proven provider of embedded software and firmware developed for a broad range of applications serving transportation end markets, primarily including commercial vehicle electrification and eMobility. The business is included in the commercial vehicle business within the Company’s Transportation segment. The acquisition was funded with the Company’s cash on hand. The total purchase consideration was \$9.2 million, net of cash.

### *Carling Technologies*

On November 30, 2021, the Company acquired Carling Technologies, Inc. (“Carling”), pursuant to the Stock Purchase Agreement, dated as of October 19, 2021. Founded in 1920, Carling has a leading position in switching and circuit protection technologies with a strong global presence in commercial vehicle electrification, communications infrastructure and marine markets. At the time of acquisition, Carling had annualized sales of approximately \$170 million. The business is headquartered in Plainville, Connecticut, with offices and facilities located around the world and is reported as part of the commercial vehicle business within our Transportation segment. The purchase price for Carling Technologies was approximately \$315 million subject to change for a working capital adjustment.

The acquisition was funded with cash on hand. The total purchase consideration of \$314.1 million, net of cash, has been allocated to assets acquired and liabilities assumed, as of the completion of the acquisition, based on estimated fair values.

The following table summarizes the final purchase price allocation of the fair value of assets acquired and liabilities assumed in the Carling acquisition:

<b>(in thousands)</b>	<b>Purchase Price Allocation</b>
<b>Total purchase consideration:</b>	
Cash, net of cash acquired	<u>\$ 314,094</u>
<b>Allocation of consideration to assets acquired and liabilities assumed:</b>	
Trade receivables, net	26,232
Inventories	56,479
Other current assets	3,765
Property, plant, and equipment	56,128
Intangible assets	126,390
Goodwill	98,377
Other non-current assets	4,007
Current liabilities	(21,790)
Other non-current liabilities	(35,494)
	<u>\$ 314,094</u>

All Carling goodwill, other assets and liabilities were recorded in the Transportation segment and are primarily reflected in the Americas, Europe and Asia-Pacific geographic areas. The goodwill resulting from this acquisition consists largely of the Company’s expected future product sales and synergies from combining Carling’s products and technology with the Company’s existing commercial vehicle products portfolio. Goodwill resulting from the Carling acquisition is not expected to be deductible for tax purposes.

During the fiscal year ended December 31, 2022, the Company paid \$0.5 million related to the final working capital adjustment and made measurement period adjustments to reduce the fair value of property, plant and equipment of \$8.2 million, inventories of \$1.0 million, and an increase in net accounts receivable of \$0.7 million, intangible assets attributable to customer relationships of \$0.5 million, other current assets of \$0.3 million, other non-current liabilities of \$0.3 million. As a result of these adjustments along with a corresponding reduction of deferred tax liabilities of \$2.5 million, goodwill was increased by \$6.0 million.

As required by purchase accounting rules, the Company recorded a \$6.4 million step-up of inventory to its fair value as of the acquisition date. The step-up was amortized as a non-cash charge to cost of goods sold during the fourth quarter of 2021 and first quarter of 2022, as the acquired inventory was sold, and is reflected as other non-segment costs. The Company recognized



## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

a non-cash charge of \$4.8 million and \$1.6 million to cost of goods sold during the fiscal years ended December 31, 2022 and January 1, 2022, respectively.

For the fiscal year ended January 1, 2022, the Company incurred approximately \$4.5 million of legal and professional fees related to the Carling acquisition recognized as *Selling, general, and administrative expenses*. These costs were reflected as other non-segment costs.

### *Hartland Controls*

On January 28, 2021, the Company acquired Hartland Controls ("Hartland"), a manufacturer and leading supplier of electrical components used primarily in heating, ventilation, air conditioning ("HVAC") and other industrial and systems applications, and eMobility. At the time of acquisition, Hartland had annualized sales of approximately \$70 million. The purchase price for Hartland was \$111.0 million and the operations of Hartland are included in the Industrial segment.

The total purchase consideration of \$108.5 million, net of cash, cash equivalents, and restricted cash has been allocated to assets acquired and liabilities assumed, as of the completion of the acquisition, based on estimated fair values. As of December 31, 2022, the Company had restricted cash of \$0.8 million in an escrow account for general indemnification purposes.

The following table summarizes the final purchase price allocation of the fair value of assets acquired and liabilities assumed in the Hartland acquisition:

<b>(in thousands)</b>	<b>Purchase Price Allocation</b>
<b>Total purchase consideration:</b>	
Cash, net of cash acquired, and restricted cash	\$ 108,516
<b>Allocation of consideration to assets acquired and liabilities assumed:</b>	
Trade receivables, net	12,915
Inventories	35,808
Other current assets	2,224
Property, plant, and equipment	6,296
Intangible assets	39,660
Goodwill	38,502
Other non-current assets	3,782
Current liabilities	(24,861)
Other non-current liabilities	(5,810)
	<u>\$ 108,516</u>

All Hartland goodwill, other assets and liabilities were recorded in the Industrial segment and are primarily reflected in the Americas and Asia-Pacific geographic areas. The goodwill resulting from this acquisition consists largely of the Company's expected future product sales and synergies from combining Hartland's products and technology with the Company's existing industrial products portfolio. Goodwill resulting from the Hartland acquisition is not expected to be deductible for tax purposes.

The Company recorded a \$6.8 million step-up of inventory to its fair value as of the acquisition date based on the valuation. The step-up was fully amortized as a \$6.8 million non-cash charge to cost of goods sold during the first and second quarters of 2021, as the acquired inventory was sold, and is reflected as other non-segment costs.

For the fiscal year ended January 1, 2022, the Company incurred approximately \$0.8 million of legal and professional fees related to the Hartland acquisition recognized as *Selling, general, and administrative expenses*. These costs were reflected as other non-segment costs.

### *Pro Forma Results*

The following table summarizes, on an unaudited pro forma basis, the combined results of operations of the Company, C&K as though the acquisition had occurred as of December 27, 2020, and Hartland and Carling as though the acquisitions had occurred as of December 29, 2019. The Company has not included pro forma results of operations for Embed as its operations were not material to the Company. The pro forma amounts presented are not necessarily indicative of either the actual consolidated

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

results had the C&K acquisition occurred as of December 27, 2020 and had the Hartland and Carling acquisitions occurred as of December 29, 2019 or of future consolidated operating results.

<b>(in thousands, except per share amounts)</b>	<b>For the Fiscal Year Ended</b>		
	<b>December 31, 2022</b>	<b>January 1, 2022</b>	<b>December 26, 2020</b>
Net sales	\$ 2,639,132	\$ 2,459,009	\$ 1,662,896
Income before income taxes	483,013	337,894	141,491
Net income	399,606	274,763	115,078
Net income per share — basic	16.16	11.17	4.72
Net income per share — diluted	16.03	11.02	4.68

Pro forma results presented above primarily reflect the following adjustments:

<b>(in thousands)</b>	<b>For the Fiscal Year Ended</b>		
	<b>December 31, 2022</b>	<b>January 1, 2022</b>	<b>December 26, 2020</b>
Amortization (a)	\$ (4,646)	\$ (18,410)	\$ (12,669)
Depreciation	1,979	2,537	253
Transaction costs (b)	9,108	(3,727)	(5,381)
Amortization of inventory step-up (c)	15,593	(2,426)	(13,156)
Interest expense (d)	815	2,624	—
Income tax (expense) benefit of above items	(5,569)	5,065	6,706

- (a) The amortization adjustment for the twelve months ended December 31, 2022, January 1, 2022, and December 26, 2020, primarily reflects incremental amortization resulting from the measurement of intangibles at their fair values.
- (b) The transaction cost adjustments reflect the reversal of certain legal and professional fees from the twelve months ended December 31, 2022 and January 1, 2022, respectively, and recognition of those fees during the twelve months ended January 1, 2022 and December 26, 2020, respectively.
- (c) The amortization of inventory step-up adjustment reflects the reversal of the amount recognized during the twelve months ended December 31, 2022 and January 1, 2022, respectively, and the recognition of the amortization during the twelve months ended January 1, 2022 and December 26, 2020, respectively. The inventory step-up is amortized over four months for all acquisitions, as the inventory was sold.
- (d) The interest expense adjustment reflects lower interest expense associated with the financing of the C&K acquisition that replaced higher pre-acquisition debt.

### 3. Inventories

The components of inventories at December 31, 2022 and January 1, 2022 are as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
Raw materials	\$ 231,043	\$ 168,409
Work in process	134,792	117,506
Finished goods	226,215	195,656
Inventory reserves	(44,360)	(35,900)
Total	\$ 547,690	\$ 445,671

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 4. Property, Plant, and Equipment

The components of net property, plant, and equipment at December 31, 2022 and January 1, 2022 are as follows:

(in thousands)	2022	2021
Land and land improvements	\$ 22,089	\$ 23,470
Building and building improvements	191,733	151,297
Machinery and equipment	812,540	779,559
Accumulated depreciation and amortization	(545,252)	(516,437)
Total	<u>\$ 481,110</u>	<u>\$ 437,889</u>

The Company recorded depreciation expense of \$65.0 million, \$55.9 million, and \$56.1 million for the fiscal years ended December 31, 2022, January 1, 2022, and December 26, 2020, respectively.

### 5. Goodwill and Other Intangible Assets

The amounts for goodwill and changes in the carrying value by segment are as follows:

(in thousands)	Electronics	Transportation	Industrial	Total
Gross goodwill as of December 26, 2020	\$ 676,325	\$ 138,354	\$ 47,551	\$ 862,230
Accumulated impairment losses as of December 26, 2020	—	(36,423)	(8,995)	(45,418)
Net goodwill as of December 26, 2020	<u>\$ 676,325</u>	<u>\$ 101,931</u>	<u>\$ 38,556</u>	<u>\$ 816,812</u>
Changes during 2021:				
Additions (a)	—	96,307	38,502	\$ 134,809
Foreign currency translation adjustments	(16,080)	(6,106)	179	(22,007)
Gross goodwill as of January 1, 2022	660,245	228,555	86,232	975,032
Accumulated impairment losses as of January 1, 2022	—	(36,177)	(9,065)	(45,242)
Net goodwill as of January 1, 2022	<u>\$ 660,245</u>	<u>\$ 192,378</u>	<u>\$ 77,167</u>	<u>\$ 929,790</u>
Changes during 2022:				
Additions (b)	270,245	14,886	—	285,131
Foreign currency translation adjustments	(21,323)	(8,648)	(1,343)	(31,314)
Gross goodwill as of December 31, 2022	909,167	234,793	84,889	1,228,849
Accumulated impairment losses as of December 31, 2022	—	(33,401)	(8,526)	(41,927)
Net goodwill as of December 31, 2022	<u>\$ 909,167</u>	<u>\$ 201,392</u>	<u>\$ 76,363</u>	<u>\$ 1,186,922</u>

(a) The additions resulted from the acquisitions of Carling and Hartland.

(b) The additions resulted from the acquisitions of C&K, Embed and Carling.

The Company tests its goodwill annually for impairment on the first day of its fiscal fourth quarter, or more frequently if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying value.

During the second quarter of 2020, the Company recorded a non-cash charge of \$33.8 million to recognize the impairment of goodwill in the automotive sensors reporting unit within the Transportation segment. The goodwill impairment charge was due to reductions in the estimated fair value for the automotive sensors reporting unit based on lower expectations for future revenue, profitability and cash flows as compared to the expectations of the 2019 annual goodwill impairment test. These lower future expectations were driven by projected extended declines in end market demand due to the COVID-19 pandemic. In addition, during the second quarter of 2020, certain customers notified the Company of their decision to delay future programs along with a customer canceling their existing program. The goodwill impairment charge was determined using Level 3 inputs, including discounted cash flow analysis and comparable marketplace fair value data.

The components of intangible assets at December 31, 2022 and January 1, 2022 are as follows:

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

**As of December 31, 2022**

<b>(in thousands)</b>	<b>Gross Carrying Value</b>	<b>Accumulated Amortization</b>	<b>Net Book Value</b>
Land use rights	\$ 17,938	\$ 2,299	\$ 15,639
Patents, licenses and software	259,603	140,208	119,395
Distribution network	41,733	40,955	778
Customer relationships, trademarks, and tradenames	623,721	165,563	458,158
Total	<u>\$ 942,995</u>	<u>\$ 349,025</u>	<u>\$ 593,970</u>

The Company reclassified \$50.3 million and \$31.1 million of gross carrying value and accumulated amortization, respectively, from customer relationships, trademarks and tradenames to patents, licenses and software as of December 31, 2022. This reclassification had no consolidated financial impact on net book value of intangible assets.

**As of January 1, 2022**

<b>(in thousands)</b>	<b>Gross Carrying Value</b>	<b>Accumulated Amortization</b>	<b>Net Book Value</b>
Land use rights	\$ 19,542	\$ 1,906	\$ 17,636
Patents, licenses and software	164,556	101,307	63,249
Distribution network	43,361	40,591	2,770
Customer relationships, trademarks, and tradenames	487,710	164,239	323,471
Total	<u>\$ 715,169</u>	<u>\$ 308,043</u>	<u>\$ 407,126</u>

During the year ended December 31, 2022, the Company recorded additions to other intangible assets of \$254.7 million related to the C&K acquisition, the components of which were as follows:

<b>(in thousands, except weighted average useful life)</b>	<b>2022</b>	
	<b>Weighted Average Useful Life (Years)</b>	<b>Amount</b>
Patents, developed technology	12.0	\$ 55,700
Customer relationships, trademarks, and tradenames	17.4	199,000
Total		<u>\$ 254,700</u>

For intangible assets with definite lives, the Company recorded amortization expense of \$55.7 million, \$42.7 million, and \$40.0 million in 2022, 2021, and 2020, respectively.

During the fourth quarter of 2022, the Company recorded a \$2.9 million non-cash impairment charge for certain acquired technology and patent intangible assets due to a change in use and projected cash flows within the Electronics segment.

Estimated annual amortization expense related to intangible assets with definite lives at December 31, 2022 is as follows:

<b>(in thousands)</b>	<b>Amount</b>
2023	\$ 60,274
2024	56,965
2025	56,602
2026	46,115
2027	44,209
2028 and thereafter	329,805
Total	<u>\$ 593,970</u>

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 6. Accrued Liabilities

The components of accrued liabilities at December 31, 2022 and January 1, 2022 are as follows:

(in thousands)	2022	2021
Employee-related liabilities	\$ 99,089	\$ 92,018
Current lease liability	12,841	9,018
Other non-income taxes	10,594	4,280
Professional services	7,160	4,299
Other customer reserves	5,064	702
Interest	4,449	4,402
Deferred revenue	2,593	1,105
Restructuring liability	2,434	2,944
Current benefit liability	1,318	1,248
Other	41,515	39,673
Total	<u>\$ 187,057</u>	<u>\$ 159,689</u>

Employee-related liabilities consist primarily of payroll, sales commission, bonus, employee benefit accruals and workers' compensation. Bonus accruals include amounts earned pursuant to the Company's primary employee incentive compensation plans. Other accrued liabilities include miscellaneous operating accruals and other client-related liabilities.

### 7. Lease Commitments

Under ASC 842, a contract contains a lease if there is an identified asset and the Company has the right to control the asset. The Company determines whether a contract contains a lease at contract inception. The Company leases office and production space under various non-cancellable operating leases that expire no later than 2035. Certain real estate leases include one or more options to renew. The exercise of lease renewal options is at the Company's sole discretion. Options to extend the lease are included in the lease term when it is reasonably certain the Company will exercise the option. The Company also has production equipment, office equipment and vehicles under operating leases and finance leases that were acquired through the C&K acquisition. The depreciable life of assets and leasehold improvements are limited by the expected lease term, unless there is a transfer of title or purchase option that is reasonably certain of exercise. Certain leases include rental payments adjusted periodically for inflation. The lease agreements do not contain any material residual value guarantee or material restrictive covenants. The Company has elected to use the available practical expedient to account for the lease and non-lease components of its leases as a single component. As the Company elected not to separate lease and non-lease components and instead to account for them as a single lease component, the variable lease cost primarily represents variable payments such as common area maintenance and utilities.

The Company does not have a published credit rating because it has no publicly traded debt; therefore, the Company is generating its incremental borrowing rate ("IBR"), using a synthetic credit rating model that compares its credit quality to other rated companies based on certain financial metrics and ratios. The reference rate will be based on the yield curve of companies with similar credit quality based on the metrics and adjusted for currency in regions where we have significant operations.

All leases with an initial term of 12 months or less that do not include an option to extend or purchase the underlying asset that the Company is reasonably certain to exercise ("short-term leases") are not recorded on the Consolidated Balance Sheets. Short-term lease expenses are recognized on a straight-line basis over the lease term.

The following table presents the classification of right of use assets and lease liabilities as of December 31, 2022 and January 1, 2022:

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

(in thousands)	Consolidated Balance Sheet Classification	Fiscal Year Ended	
		December 31, 2022	January 1, 2022
<b>Operating Leases</b>			
Right of use assets - operating lease	Right of use lease assets, net	\$ 54,901	\$ 29,616
Current operating lease liabilities	Accrued liabilities	11,694	9,018
Non-current operating lease liabilities	Non-current lease liabilities	44,963	22,305
Total operating lease liabilities		\$ 56,657	\$ 31,323
<b>Finance Leases</b>			
Right of use assets - finance lease	Right of use lease assets, net	\$ 2,481	\$ —
Current finance lease liabilities	Accrued liabilities	1,147	—
Non-current finance lease liabilities	Non-current lease liabilities	698	—
Total finance lease liabilities		\$ 1,845	\$ —

The following table represents the lease costs for 2022, 2021, and 2020:

(in thousands)	Consolidated Statements of Net Income Classification	Fiscal Year Ended		
		December 31, 2022	January 1, 2022	December 26, 2020
Operating lease expenses	Cost of sales, SG&A expenses	\$ 14,071	\$ 9,929	\$ 8,591
Finance lease:				
Finance lease expenses	Cost of sales	112	—	—
Interest on lease liabilities	Other expenses	13	—	—
Short-term lease expenses	Cost of sales, SG&A expenses	1,130	345	512
Variable lease expenses	Cost of sales, SG&A expenses	1,091	1,165	1,307
Total lease costs	Cost of sales, SG&A expenses	\$ 16,417	\$ 11,439	\$ 10,410

The Company leases certain office and warehouse space as well as certain machinery and equipment under non-cancellable operating leases. The Company acquired through the C&K acquisition certain machinery and equipment under finance leases.

Rent expense under these leases was \$16.4 million, \$11.4 million, and \$10.4 million in 2022, 2021, and 2020, respectively.

**Maturity of Lease Liabilities as of December 31, 2022**

(in thousands)	Operating leases	Finance Leases
2023	\$ 13,966	\$ 1,166
2024	13,709	425
2025	8,099	283
2026	5,652	1
2027	4,447	—
2028 and thereafter	21,217	—
Total lease payments	\$ 67,090	\$ 1,875
Less: Imputed interest	(10,433)	(30)
Present value of lease liabilities	\$ 56,657	\$ 1,845

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

	<b>Fiscal Year Ended</b>	
	<b>December 31, 2022</b>	<b>January 1, 2022</b>
<b>Weighted-average remaining lease term (years)</b>		
Operating leases	6.84	4.79
Finance leases	1.90	—
<b>Weighted-average discount rate</b>		
Operating leases	4.84 %	4.27 %
Finance leases	1.43 %	—

	<b>Fiscal Year Ended</b>		
	<b>December 31, 2022</b>	<b>January 1, 2022</b>	<b>December 26, 2020</b>
<b>(in thousands)</b>			
<b>Cash paid for amounts included in the measurement of lease liabilities</b>			
Operating cash flow - payments on operating leases	\$ (12,298)	\$ (10,150)	\$ (8,929)
Operating cash flow - interest payments on finance leases	(13)	—	—
Financing cash flow - payments on finance lease obligations	(719)	—	—
<b>Leased assets obtained in exchange of new lease obligations, including leases acquired:</b>			
Operating leases	\$ 37,760	\$ 20,217	\$ 2,862
Finance leases	2,502	—	—

There were no sale leaseback transactions for the fiscal years ended December 31, 2022, and December 26, 2020. The net gain recorded from a sale leaseback transaction was \$4.1 million for the fiscal year ended January 1, 2022.

**8. Restructuring, Impairment and Other Charges**

The Company recorded restructuring, impairment and other charges for fiscal years 2022, 2021, and 2020 as follows:

	<b>Fiscal Year Ended December 31, 2022</b>			
	<b>Electronics</b>	<b>Transportation</b>	<b>Industrial</b>	<b>Total</b>
<b>(in thousands)</b>				
Employee terminations	\$ 2,792	\$ 2,694	\$ 283	\$ 5,769
Other restructuring charges	276	1,076	—	1,352
Total restructuring charges	3,068	3,770	283	7,121
Impairment	2,856	—	—	2,856
Total	\$ 5,924	\$ 3,770	\$ 283	\$ 9,977
<b>Fiscal Year Ended January 1, 2022</b>				
<b>(in thousands)</b>				
Employee terminations	\$ 1,124	\$ 404	\$ 347	\$ 1,875
Other restructuring charges	—	283	—	283
Total restructuring charges	1,124	687	347	2,158
<b>Fiscal Year Ended December 26, 2020</b>				
<b>(in thousands)</b>				
Employee terminations	\$ 2,540	\$ 682	\$ 2,231	\$ 5,453
Other restructuring charges	—	175	10	185
Total restructuring charges	2,540	857	2,241	5,638
Impairment	—	33,841	2,237	36,078
Total	\$ 2,540	\$ 34,698	\$ 4,478	\$ 41,716

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 2022

For the year ended December 31, 2022, the Company recorded total restructuring charges of \$7.1 million, primarily for employee termination costs. These charges primarily related to the reorganization of certain manufacturing, selling and administrative functions within the Transportation segment's passenger car and automotive sensor businesses and the reorganization of selling and administrative functions within the Electronics segment due to the C&K acquisition. During the fourth quarter of 2022, the Company recorded a \$2.9 million non-cash impairment charge for certain acquired technology and patent intangible assets due to a change in use and projected cash flows within the Electronics segment. See Note 5, *Goodwill and Other Intangible Assets* for further discussion regarding the intangible asset impairment charge.

### 2021

For the year ended January 1, 2022, the Company recorded total restructuring charges of \$2.2 million, primarily for employee termination costs. These charges primarily related to the reorganization of certain manufacturing, selling and administrative functions within the Electronics and Transportation segments.

### 2020

For the year ended December 26, 2020, the Company recorded total restructuring charges of \$5.6 million, primarily for employee termination costs. These charges primarily related to the reorganization of certain manufacturing, selling and administrative functions across all segments and the previously announced consolidation of a manufacturing facility within the Industrial segment. The Company also recognized \$36.1 million of impairment charges, which included a \$33.8 million goodwill impairment charge associated with the automotive sensors reporting unit within the Transportation segment in the second quarter of 2020 and a \$2.2 million impairment charge related to the land and building associated with the Company's previously announced consolidation of a manufacturing facility within the Industrial segment in the first quarter of 2020. See Note 5, *Goodwill and Other Intangible Assets* for further discussion regarding the goodwill impairment charge.

The restructuring reserves as of December 31, 2022 and January 1, 2022 are \$2.4 million and \$2.9 million, respectively. The restructuring reserves are included within accrued liabilities. Payments associated with employee terminations reflected in the above table were substantially completed by December 31, 2022. The Company anticipates that the remaining payments associated with employee terminations will be completed in fiscal 2023.



## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 9. Debt

The carrying amounts of debt at December 31, 2022 and January 1, 2022 are as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
Revolving Credit Facility	\$ 100,000	\$ 100,000
Term Loan	296,250	—
Euro Senior Notes, Series A due 2023	124,716	132,444
Euro Senior Notes, Series B due 2028	101,265	107,540
U.S. Senior Notes, Series A due 2022	—	25,000
U.S. Senior Notes, Series B due 2027	100,000	100,000
U.S. Senior Notes, Series A due 2025	50,000	50,000
U.S. Senior Notes, Series B due 2030	125,000	125,000
U.S. Senior Notes, due 2032	100,000	—
Other	9,113	—
Unamortized debt issuance costs	(4,847)	(3,087)
Total debt	1,001,497	636,897
Less: Current maturities	(134,874)	(25,000)
Total long-term debt	<u>\$ 866,623</u>	<u>\$ 611,897</u>

Interest paid on all Company debt was \$25.4 million, \$17.4 million, and \$20.1 million in fiscal year 2022, 2021, and 2020, respectively.

#### *Revolving Credit Facility and Term Loan*

On June 30, 2022, the Company amended and restated its Credit Agreement, dated as of April 3, 2020 (as so amended and restated, the "Credit Agreement") to effect certain changes, including, among other changes: (i) adding a \$300 million unsecured term loan credit facility; (ii) making certain financial and non-financial covenants less restrictive on the Company and its subsidiaries; (iii) replacing LIBOR-based interest rate benchmarks and modifying performance-based interest rate margins; and (iv) extending the maturity date to June 30, 2027 (the "Maturity Date"). Pursuant to the Credit Agreement, the Company may, from time to time, increase the size of the revolving credit facility or enter into one or more tranches of term loans in minimum increments of \$25 million if there is no event of default and the Company is in compliance with certain financial covenants.

Loans made under the available credit facility pursuant to the Credit Agreement ("the Credit Facility") bear interest at the Company's option, at either SOFR, fixed for interest periods of one, two, three or six-month periods, plus 1.00% to 1.75%, plus a SOFR adjustment of 0.10% or at the bank's Base Rate, as defined in the Credit Agreement, plus —% to 0.75%, based upon the Company's Consolidated Leverage Ratio, as defined in the Credit Agreement. The Company is also required to pay commitment fees on unused portions of the Credit Facility ranging from 0.10% to 0.175%, based on the Consolidated Leverage Ratio, as defined in the Credit Agreement. The Credit Agreement includes representations, covenants and events of default that are customary for financing transactions of this nature.

Under the Credit Agreement, revolving loans may be borrowed, repaid and reborrowed until the Maturity Date, at which time all amounts borrowed must be repaid. The Company borrowed \$300.0 million under a term loan on June 30, 2022. The principal balance of the term loans must be repaid in quarterly installments on the last day of each calendar quarter in the amount of \$1.9 million commencing September 30, 2022, through June 30, 2024, and in the amount of \$3.8 million commencing September 30, 2024, through March 31, 2027, with the remaining outstanding principal balance payable in full on the Maturity Date. Accrued interest on the loans is payable in arrears on each interest payment date applicable thereto and at such other times as may be specified in the Credit Agreement. Subject to certain conditions, (i) the Company may terminate or reduce the Aggregate Revolving Commitments, as defined in the Credit Agreement, in whole or in part, and (ii) the Company may prepay the revolving loans or the term loans at any time, without premium or penalty. During the fiscal year ended December 31, 2022, the Company made term loan payments of \$3.8 million. The revolving loan and term loan balance under the Credit Facility was \$100.0 million and \$296.3 million, respectively, as of December 31, 2022.

On May 12, 2022, the Company entered into an interest rate swap agreement to manage interest rate risk exposure, effectively converting the interest rate on the Company's SOFR based floating-rate loans to a fixed-rate. The interest rate swap, with a notional value of \$200 million, was designated as a cash flow hedge against the variability of cash flows associated with the Company's SOFR based loans scheduled to mature on June 30, 2027.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

As of December 31, 2022, the effective interest rate on outstanding borrowings under the credit facility was 5.42%.

As of December 31, 2022, the Company had no outstanding in letters of credit and had available \$600.0 million of borrowing capacity under the revolving credit facility. At December 31, 2022, the Company was in compliance with all covenants under the credit agreement.

### *Senior Notes*

On December 8, 2016, the Company entered into a Note Purchase Agreement, pursuant to which the Company issued and sold €212 million aggregate principal amount of senior notes in two series. The funding date for the Euro denominated senior notes occurred on December 8, 2016 for €117 million in aggregate amount of 1.14% Senior Notes, Series A, due December 8, 2023 (“Euro Senior Notes, Series A due 2023”), and €95 million in aggregate amount of 1.83% Senior Notes, Series B due December 8, 2028 (“Euro Senior Notes, Series B due 2028”) (together, the “Euro Senior Notes”). Interest on the Euro Senior Notes is payable semiannually on June 8 and December 8, commencing June 8, 2017.

On December 8, 2016, the Company entered into a Note Purchase Agreement, pursuant to which the Company issued and sold \$125 million aggregate principal amount of senior notes in two series. On February 15, 2017, \$25 million in aggregate principal amount of 3.03% Senior Notes, Series A, due February 15, 2022 (“U.S. Senior Notes, Series A due 2022”), and \$100 million in aggregate principal amount of 3.74% Senior Notes, Series B, due February 15, 2027 (“U.S. Senior Notes, Series B due 2027”) (together, the “U.S. Senior Notes due 2022 and 2027”) were funded. Interest on the U.S. Senior Notes due 2022 and 2027 is payable semiannually on February 15 and August 15, commencing August 15, 2017. During the fiscal year ended December 31, 2022, the Company paid off \$25.0 million of U.S. Senior Notes, Series A due 2022.

On November 15, 2017, the Company entered into a Note Purchase Agreement pursuant to which the Company issued and sold \$175 million in aggregate principal amount of senior notes in two series. On January 16, 2018, \$50 million aggregate principal amount of 3.48% Senior Notes, Series A, due February 15, 2025 (“U.S. Senior Notes, Series A due 2025”) and \$125 million in aggregate principal amount of 3.78% Senior Notes, Series B, due February 15, 2030 (“U.S. Senior Notes, Series B due 2030”) (together, the “U.S. Senior Notes due 2025 and 2030”) were funded. Interest on the U.S. Senior Notes due 2025 and 2030 is payable on February 15 and August 15, commencing on August 15, 2018.

On May 18, 2022, the above note purchase agreements were amended to, among other things, update certain terms, including financial covenants to be consistent with the terms of the restated Credit Agreement and the 2022 Purchase Agreement, as defined below.

On May 18, 2022, the Company entered into a Note Purchase Agreement (“2022 Purchase Agreement”) pursuant to which the Company issued and funded on July 18, 2022 \$100 million in aggregate principal amount of 4.33% Senior Notes, due June 30, 2032 (“U.S. Senior Notes, due 2032”) (together with the U.S. Senior Notes due 2025 and 2030, the Euro Senior Notes and the U.S. Senior Notes due 2022 and 2027, the “Senior Notes”). Interest on the U.S. Senior Notes due 2032 is payable semiannually on June 30 and December 30, commencing on December 30, 2022.

The Senior Notes have not been registered under the Securities Act, or applicable state securities laws. The Senior Notes are general unsecured senior obligations and rank equal in right of payment with all existing and future unsecured unsubordinated indebtedness of the Company.

The Senior Notes are subject to certain customary covenants, including limitations on the Company’s ability, with certain exceptions, to engage in mergers, consolidations, asset sales and transactions with affiliates, to engage in any business that would substantially change the general business of the Company, and to incur liens. In addition, the Company is required to satisfy certain financial covenants and tests relating to, among other matters, interest coverage and leverage. At December 31, 2022, the Company was in compliance with all covenants under the Senior Notes.

The Company may redeem the Senior Notes upon the satisfaction of certain conditions and the payment of a make-whole amount to noteholders, and are required to offer to repurchase the Senior Notes at par following certain events, including a change of control.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### *Debt Issuance Costs*

During fiscal year 2022, the Company paid debt issuance costs of \$2.7 million in connection with the amended and restated Credit Agreement, dated June 30, 2022 which, along with the remaining balance of debt issuance costs of the previous credit facility noted in below, are being amortized over the life of the amended and restated Credit Agreement.

During fiscal year 2020, the Company paid debt issuance costs of \$1.8 million in relation to the amended the Credit Agreement on April 3, 2020 which, along with the remaining balance of debt issuance costs of the previous credit facility, are being amortized over the life of the amended Credit Agreement.

### *Debt Maturities*

Scheduled maturities of the Company's long-term debt for each of the five years succeeding December 31, 2022 and thereafter are summarized as follows:

<b>(in thousands)</b>	<b>Scheduled Maturities</b>
2023	\$ 134,874
2024	13,916
2025	67,674
2026	16,116
2027	447,500
2028 and thereafter	326,264
	<u>\$ 1,006,344</u>

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 10. Fair Value of Assets and Liabilities

For assets and liabilities measured at fair value on a recurring and nonrecurring basis, a three-level hierarchy of measurements based upon observable and unobservable inputs is used to arrive at fair value. Observable inputs are developed based on market data obtained from independent sources, while unobservable inputs reflect the Company's assumptions about valuation based on the best information available in the circumstances. Depending on the inputs, the Company classifies each fair value measurement as follows:

**Level 1**—Valuations based on unadjusted quoted prices for identical assets or liabilities in active markets;

**Level 2**—Valuations based upon quoted prices for similar instruments, prices for identical or similar instruments in markets that are not active, or model-derived valuations, all of whose significant inputs are observable, and

**Level 3**—Valuations based upon one or more significant unobservable inputs.

There were no transfers in or out of Level 1, Level 2 and Level 3 during the year ended December 31, 2022.

Following is a description of the valuation methodologies used for instruments measured at fair value and their classification in the valuation hierarchy.

#### *Cash Equivalents*

Cash equivalents primarily consist of money market funds, which are held with an institution with sound credit rating and are highly liquid. The Company classified cash equivalents as Level 1 and are valued at cost, which approximates fair value.

#### *Investments in Equity Securities*

Investments in equity securities listed on a national market or exchange are valued at the last sales price and classified within Level 1 of the valuation hierarchy. Such securities are further detailed in Note 1, *Summary of Significant Accounting Policies and Other Information*.

#### *Other Investments*

The Company had certain convertible debt and convertible preferred stock investments that were accounted for under the cost method reflected in *Investments* and *Other assets* in the Consolidated Balance Sheets. During the fiscal year ended January 1, 2022, the Company impaired the remaining book value of these investments and recorded an impairment charge of \$0.5 million in *Other expense (income), net* in the Consolidated Statements of Net Income. As of December 31, 2022 and January 1, 2022, the balances of these investments were zero.

#### *Derivatives Designated as Hedging Instruments*

On May 12, 2022, the Company entered into an interest rate swap agreement to manage interest rate risk exposure, effectively converting the interest rate on the Company's SOFR based floating-rate loans to a fixed-rate. The interest rate swap, with a notional value of \$200 million, was designated as a cash flow hedge against the variability of cash flows associated with the Company's SOFR based loans scheduled to mature on June 30, 2027. The fair value of the interest rate swap was valued using an independent third-party valuation model. Pursuant to this model, changes in fair value of derivatives that are designated as cash flow hedges are deferred in accumulated other comprehensive (loss) income until the underlying transactions are recognized in earnings. The primary inputs into the valuation of the interest rate swap are interest yield curves, interest rate volatility, credit risk, credit spreads and other market information. The interest rate swap is classified within Level 2 of the fair value hierarchy, since all significant inputs are corroborated by observable market data.

The use of derivatives creates exposure to credit risk relating to potential losses that could be recognized in the event that the counterparties to these instruments fail to perform their obligations under the contracts. The Company seeks to minimize this risk by limiting our counterparties to major financial institutions with acceptable credit ratings and monitoring the total value of positions with individual counterparties. In the event of a default by one of our counterparties, the Company may not receive payments provided for under the terms of our derivatives.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### *Derivatives Not Designated as Hedging Instruments*

On July 14, 2022, the Company entered into a foreign currency exchange forward contract to mitigate the currency fluctuation risk between the Euro and U.S. dollar on its Euro denominated Senior Notes, Series A due 2023. The notional value of the forward contract at July 14, 2022 was €117.0 million and expires on December 7, 2023. The foreign currency contract was not designated as a hedge instrument and is marked to market on a monthly basis. As a result, changes in fair value are reported in *Foreign exchange loss (gain)* in the Consolidated Statements of Net Income. The fair value of the foreign currency forward contract was valued by a third party using market exchange rates and classified as a Level 2 input under the fair value hierarchy.

As of December 31, 2022, the fair values of our derivative financial instrument and their classifications on the Consolidated Balance Sheets were as follows:

(in thousands)	Consolidated Balance Sheet Classification	Fiscal Year Ended December 31, 2022	
<b>Derivatives Designated as Hedging Instruments</b>			
Interest rate swap agreement:			
Designated as cash flow hedge	Prepaid expenses and other current assets	\$	3,939
	Other long-term assets	\$	4,740
<b>Derivatives Not Designated as Hedging Instruments</b>			
Foreign exchange forward contract	Prepaid expenses and other current assets	\$	6,186

The pre-tax gains recognized on derivative financial instruments in the Consolidated Statements of Operations for the fiscal year ended December 31, 2022 were as follows:

(in thousands)	Classification of Gain Recognized in the Consolidated Statements of Operations	Fiscal Year Ended December 31, 2022	
<b>Derivatives designated as cash flow hedges</b>			
Interest rate swap agreement	Interest expenses, net	\$	(100)
<b>Derivatives Not Designated as Hedging Instruments</b>			
Foreign exchange forward contract	Foreign exchange loss (gain)	\$	(6,128)

The pre-tax gain recognized on derivative financial instruments in the Consolidated Statements of Comprehensive Income for the fiscal year ended December 31, 2022 was as follows:

(in thousands)	Fiscal Year Ended December 31, 2022	
<b>Derivatives designated as cash flow hedges</b>		
Interest rate swap agreement	\$	(8,679)

A pre-tax gain of \$3.9 million from accumulated other comprehensive income (loss) to earnings is expected to be recognized during the next twelve months.

### *Mutual Funds*

The Company has a non-qualified Supplemental Retirement and Savings Plan that provides additional retirement benefits for certain management employees and named executive officers by allowing participants to defer a portion of their annual compensation. The Company maintains investment accounts for participants through which participants make investment elections. The marketable securities are classified as Level 1 under the fair value hierarchy as they are maintained in mutual funds with readily determinable fair value and recorded in *Other long-term assets* on the Consolidated Balance sheet.

There were no changes during the fiscal year ended December 31, 2022 to the Company's valuation techniques used to measure asset and liability fair values on a recurring basis. As of December 31, 2022 and January 1, 2022, the Company did not hold any non-financial assets or liabilities that are required to be measured at fair value on a recurring basis.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### *Defined Benefit Plan Assets / Non-qualified Supplemental Retirement and Savings Plan Investments*

See Note 11, *Benefit Plans*, for description of valuation methodologies and investment balances for defined benefit plan assets and investments related to the Company's Non-Qualified Supplemental Retirement and Savings Plan.

The following table presents assets measured at fair value by classification within the fair value hierarchy as of December 31, 2022:

<b>(in thousands)</b>	<b>Fair Value Measurements Using</b>			<b>Total</b>
	<b>Quoted Prices in Active Markets for Identical Assets (Level 1)</b>	<b>Significant Other Observable Inputs (Level 2)</b>	<b>Significant Unobservable Inputs (Level 3)</b>	
Cash equivalents	\$ 304,101	\$ —	\$ —	\$ 304,101
Investments in equity securities	10,653	—	—	10,653
Mutual funds	14,094	—	—	14,094
Total:	<u>\$ 328,848</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 328,848</u>

The following table presents assets measured at fair value by classification within the fair value hierarchy as of January 1, 2022:

<b>(in thousands)</b>	<b>Fair Value Measurements Using</b>			<b>Total</b>
	<b>Quoted Prices in Active Markets for Identical Assets (Level 1)</b>	<b>Significant Other Observable Inputs (Level 2)</b>	<b>Significant Unobservable Inputs (Level 3)</b>	
Cash equivalents	\$ 12,475	\$ —	\$ —	\$ 12,475
Investments in equity securities	26,070	—	—	26,070
Mutual funds	15,021	—	—	15,021
Total:	<u>\$ 53,566</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 53,566</u>

In addition to the methods and assumptions used for the financial instruments recorded at fair value as discussed above, the following methods and assumptions are used to estimate the fair value of other financial instruments that are not marked to market on a recurring basis. The Company's other financial instruments include cash and cash equivalents, short-term investments, trade receivables and its long-term debt. Due to their short-term maturity, the carrying amounts of cash and cash equivalents, short-term investments and trade receivables approximate their fair values. The Company's revolving and term loan debt facilities' fair values approximate book value at December 31, 2022 and January 1, 2022, as the rates on these borrowings are variable in nature.

The carrying value and estimated fair values of the Company's Euro Senior Notes, Series A and Series B and USD Senior Notes, Series A and Series B, as of December 31, 2022 and January 1, 2022 were as follows:

<b>(in thousands)</b>	<b>December 31, 2022</b>		<b>January 1, 2022</b>	
	<b>Carrying Value</b>	<b>Estimated Fair Value</b>	<b>Carrying Value</b>	<b>Estimated Fair Value</b>
Euro Senior Notes, Series A due 2023	\$ 124,716	\$ 122,270	\$ 132,444	\$ 134,119
Euro Senior Notes, Series B due 2028	101,265	87,119	107,540	110,837
USD Senior Notes, Series A due 2022	—	—	25,000	25,055
USD Senior Notes, Series B due 2027	100,000	93,764	100,000	104,828
USD Senior Notes, Series A due 2025	50,000	48,145	50,000	51,720
USD Senior Notes, Series B due 2030	125,000	112,028	125,000	131,837
USD Senior Notes, due 2032	100,000	90,131	—	—

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### Impairments

During the fourth quarter of 2022, the Company recorded a \$2.9 million intangible asset impairment charge in *Restructuring, impairment, and other charges* in the Consolidated Statements of Net Income, for certain acquired technology and patent intangible assets due to a change in use and projected cash flows within the Electronics segment. See Note 5, *Goodwill and Other Intangible Assets*, for further discussion. Additionally, the Company recorded a non-cash impairment charge of \$1.7 million for certain machinery and equipment within Electronics segment due to a decision to cease further production of a product line during the fourth quarter of 2022. The fair value of the patent, technology and machinery and equipment were measured on a nonrecurring basis using Level 3 inputs under the fair value hierarchy. The Company's accounting and finance management determines the valuation policies and procedures for Level 3 fair value measurements and is responsible for the development and determination of unobservable inputs.

### 11. Benefit Plans

The Company has Company-sponsored and mandatory defined benefit pension plans covering employees in the United Kingdom ("U.K."), Germany, the Philippines, China, Japan, Mexico, Italy and France. The amount of the retirement benefits provided under the plans is generally based on years of service and final average pay.

On April 7, 2020, the Company entered into a definitive agreement to purchase a group annuity contract, under which an insurance company is required to directly pay and administer pension payments to certain of the Company's U.K. pension plan participants, or their designated beneficiaries. The Company completed the buy-out of this U.K. pension plan during the fourth quarter of 2021 and as a result recorded a non-cash pension settlement charge of \$19.9 million (£14.9 million), inclusive of the accelerated recognition of prior service cost of \$0.5 million (£0.4 million).

Benefit plan related information is as follows for the years 2022 and 2021:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
<b>Change in benefit obligation:</b>		
Benefit obligation at beginning of year	\$ 86,570	\$ 148,992
Service cost	3,072	2,785
Interest cost	2,529	1,761
Net actuarial gain	(19,327)	(11,016)
Benefits paid from the plan assets	(1,474)	(3,121)
Benefits paid directly by the Company	(1,853)	(2,692)
Settlements	(1,565)	(48,927)
Acquisitions	3,812	1,797
Effect of exchange rate movements	(5,839)	(3,218)
Plan amendment and other	(1,399)	209
Benefit obligation at end of year	<u>\$ 64,526</u>	<u>\$ 86,570</u>
<b>Change in plan assets at fair value:</b>		
Fair value of plan assets at beginning of year	\$ 48,325	\$ 100,478
Actual loss on plan assets	(9,217)	(2,824)
Employer contributions	2,288	2,150
Benefits paid from the plan assets	(1,474)	(3,121)
Settlements	—	(47,111)
Effect of exchange rate movements	(4,489)	(1,247)
Fair value of plan assets at end of year	<u>35,433</u>	<u>48,325</u>
Net amount unfunded status	<u>\$ (29,093)</u>	<u>\$ (38,245)</u>

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Amounts recognized in the Consolidated Balance Sheets as of December 31, 2022 and January 1, 2022 consist of the following:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
Amounts recognized in the Consolidated Balance Sheets consist of:		
Noncurrent assets	\$ 262	\$ 40
Current benefit liability	(1,318)	(1,248)
Noncurrent benefit liability	(28,037)	(37,037)
Net liability recognized	<u>\$ (29,093)</u>	<u>\$ (38,245)</u>

The amounts included in accumulated other comprehensive loss in the Consolidated Balance Sheets, excluding tax effects, that have not yet been recognized as components of net periodic benefit costs as of December 31, 2022 and January 1, 2022 were as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
Net actuarial (gain) loss	\$ (631)	\$ 9,221
Prior service cost	1,496	3,340
Total	<u>\$ 865</u>	<u>\$ 12,561</u>

The pre-tax amounts recognized in other comprehensive income (loss) in 2022 and 2021 were as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
Amortization of:		
Prior service cost	\$ 150	\$ 179
Net actuarial loss	228	1,136
Amount arising during the period:		
Prior service cost (credit)	1,399	(209)
Net actuarial gain	9,899	6,734
Net settlement (gain) loss	(820)	19,855
Foreign currency adjustments	840	966
Total	<u>\$ 11,696</u>	<u>\$ 28,661</u>

In the fourth quarter of 2021, the Company recorded a non-cash pension settlement charge of \$19.9 million (£14.9 million), inclusive of the accelerated recognition of prior service cost of \$0.5 million (£0.4 million). In addition, the net actuarial gain and change in benefit obligation during 2022 as compared to 2021 were also impacted by higher discount rates in 2022 as compared to 2021.

The components of net periodic benefit costs for the fiscal years 2022, 2021, and 2020 are as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
Components of net periodic benefit cost:			
Service cost	\$ 3,072	\$ 2,785	\$ 2,462
Interest cost	2,529	1,761	2,173
Expected return on plan assets	(1,507)	(1,458)	(1,972)
Amortization of prior service and net actuarial loss	378	1,315	963
Net periodic benefit cost	4,472	4,403	3,626
Net settlement (gain) loss	(820)	19,855	236
Total expense for the year	<u>\$ 3,652</u>	<u>\$ 24,258</u>	<u>\$ 3,862</u>



## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Weighted average assumptions used to determine net periodic benefit cost for the fiscal years 2022, 2021, and 2020 are as follows:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Discount rate	3.1 %	1.2 %	2.3 %
Expected return on plan assets	3.3 %	1.4 %	3.7 %
Compensation increase rate	4.8 %	4.9 %	4.7 %

The accumulated benefit obligation for the plans was \$53.9 million and \$75.7 million as of December 31, 2022 and January 1, 2022, respectively.

The following table provides a summary of under-funded or unfunded pension benefit plans with projected benefit obligations in excess of plan assets as of December 31, 2022 and January 1, 2022:

<b>(in thousands)</b>	<u>2022</u>	<u>2021</u>
Projected benefit obligation	\$ 42,676	\$ 86,228
Fair value of plan assets	13,650	47,942

The following table provides a summary of under-funded or unfunded pension benefit plans with accumulated benefit obligations in excess of plan assets as of December 31, 2022 and January 1, 2022:

<b>(in thousands)</b>	<u>2022</u>	<u>2021</u>
Accumulated benefit obligation	\$ 26,540	\$ 68,643
Fair value of plan assets	4,948	39,060

Weighted average assumptions used to determine benefit obligations as of December 31, 2022, January 1, 2022 and December 26, 2020 are as follows:

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Discount rate	5.8 %	3.1 %	1.2 %
Compensation increase rate	4.7 %	4.8 %	4.9 %

Expected benefit payments to be paid to participants for the fiscal year ending are as follows:

<b>(in thousands)</b>	<b>Expected Benefit Payments</b>
2023	\$ 4,155
2024	3,334
2025	3,869
2026	4,053
2027	4,286
2028-2032 and thereafter	30,645

The Company expects to make approximately \$2.0 million of contributions to the plans and pay \$1.9 million of benefits directly in 2023.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The Company also sponsors certain post-employment plans in foreign countries and other statutory benefit plans. For the fiscal years ended December 31, 2022, January 1, 2022, and December 26, 2020, the Company recorded \$1.9 million, \$2.1 million, \$2.0 million expense, respectively, in *Cost of Sales* and *Other expense (income), net* within the Consolidated Statements of Net Income. As of December 31, 2022 and January 1, 2022, the Company reported benefit liabilities of \$4.0 million and \$4.1 million for these plans, of which \$1.5 million and \$1.5 million was recorded in *Accrued liabilities* and \$2.5 million and \$2.6 million was recorded in *Other long-term liabilities* on the Consolidated Balance Sheets, respectively. For the fiscal years ended December 31, 2022 and January 1, 2022, the pre-tax amounts recognized in other comprehensive income (loss) for these plans were \$0.5 million and \$0.3 million, respectively. For the fiscal year ended December 31, 2022, the expense reclassified from accumulated other comprehensive income (loss) to earnings was \$1.7 million, including \$1.3 million net settlement loss. For the fiscal year ended January 1, 2022, the expense reclassified from accumulated other comprehensive income (loss) to earnings was \$0.7 million.

### *Defined Benefit Plan Assets*

Based upon analysis of the target asset allocation and historical returns by type of investment, the Company has assumed that the expected long-term rate of return will be 5.2% on plan assets. Assets are invested to maximize long-term return taking into consideration timing of settlement of the retirement liabilities and liquidity needs for benefits payments. Pension plan assets were invested as follows, and were not materially different from the target asset allocation:

	Asset Allocation	
	2022	2021
Cash and cash equivalents, and other	13 %	15 %
Equity securities	14 %	19 %
Fixed income securities	73 %	66 %
	100 %	100 %

The Company segregated its plan assets by the following major categories and level for determining their fair value as of December 31, 2022 and January 1, 2022. All plan assets that are valued using the net asset value per share (“NAV”) practical expedient have not been included within the fair value hierarchy but are separately disclosed.

*Cash and cash equivalents* – Carrying value approximates fair value. As such, these assets were classified as Level 1. The Company also invests in certain short-term investments which are valued using the amortized cost method. Lastly, the Company has certain pooled pension funds that have short-term investments with third party mutual funds that are valued at unit value per share at measurement date. As such, these assets were classified as Level 2.

*Equity* – The values of individual equity securities were based on quoted prices in active markets. As such, these assets are classified as Level 1. The Company has certain pooled pension funds which have mutual funds with underlying investments in certain equity securities that are not quoted on active markets; therefore, they were classified as Level 2.

*Fixed income* – Fixed income securities are typically priced based on a last trade basis and are exchange-traded. Accordingly, the Company classified fixed income securities as Level 1. The Company has certain pooled pension funds which have mutual funds with underlying investments in fixed income securities and funds priced based on a valuation model rather than a last trade basis and are not exchange-traded. As such, they were classified as Level 2. The Company also invests in certain fixed income funds which are valued at NAV.

*Insurance Contracts and other* – This category includes pooled pension funds which have mutual funds with underlying investments in other assets and liabilities including alternatives priced based on a valuation model and are not exchange-traded. These were classified as Level 2. This category includes also insurance contracts that are valued by the re-insurer with the valuation inputs being not highly observable or traded on an open market. Accordingly, insurance contracts were categorized as Level 3. Lastly, this category includes other assets and liabilities including futures or swaps.

For any Level 2 and Level 3 plan assets, management reviews significant investments on a periodic basis including investigation of unusual fluctuations in price or returns and obtaining an understanding of the pricing methodology to assess the reliability of third-party pricing estimates.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The valuation methodologies described above may generate a fair value calculation that may not be indicative of net realizable value or future fair values. While the Company believes the valuation methodologies used are appropriate, the use of different methodologies or assumptions in calculating fair value could result in different amounts. The Company invests in assets in which valuation is determined by NAV. The Company believes that the NAV is representative of fair value at the reporting date, as there are no significant restrictions on redemption of these investments or other reasons to indicate that the investment would be redeemed at an amount different than the NAV.

The following table presents the Company's pension plan assets measured at fair value by classification within the fair value hierarchy as of December 31, 2022:

(in thousands)	Fair Value Measurements Using				
	Level 1	Level 2	Level 3	NAV	Total
Insurance contracts and other	\$ —	\$ 1,153	\$ 328	\$ —	\$ 1,481
Cash and cash equivalents	594	2,475	—	—	3,069
Equities	2,425	2,435	—	—	4,860
Fixed income	5,930	14,940	—	5,153	26,023
Total pension plan assets	<u>\$ 8,949</u>	<u>\$ 21,003</u>	<u>\$ 328</u>	<u>\$ 5,153</u>	<u>\$ 35,433</u>

The following table presents the Company's pension plan assets measured at fair value by classification within the fair value hierarchy as of January 1, 2022:

(in thousands)	Fair Value Measurements Using				
	Level 1	Level 2	Level 3	NAV	Total
Insurance contracts and other	\$ —	\$ 1,917	\$ 343	\$ —	\$ 2,260
Cash and cash equivalents	384	4,632	—	—	5,016
Equities	2,559	6,604	—	—	9,163
Fixed income	5,999	20,280	—	5,607	31,886
Total pension plan assets	<u>\$ 8,942</u>	<u>\$ 33,433</u>	<u>\$ 343</u>	<u>\$ 5,607</u>	<u>\$ 48,325</u>

The fair value measurement of plan assets using significant unobservable inputs (Level 3) changed during 2022 and 2021 due to the following:

(in thousands)	Level 3
Balance at December 26, 2020	\$ 53,778
Level 3 assets transferred in from Level 1 and 2 assets valued at NAV:	
Settlements	(47,111)
Actual loss on plan assets	(4,943)
Benefits paid from the plan assets	(1,238)
Foreign currency adjustments	(143)
Balance at January 1, 2022	<u>\$ 343</u>
Level 3 assets transferred in from Level 1 and 2 assets valued at NAV:	
Employer contribution	2
Actual return on assets	3
Foreign currency adjustments	(20)
Balance at December 31, 2022	<u>\$ 328</u>

### *Defined Contribution Plan*

The Company also maintains a 401(k) savings plan covering substantially all U.S. employees. The Company matches 100% of the employee's annual contributions for the first 4% of the employee's eligible compensation. The Company may provide an additional discretionary match to participants and made discretionary matches of 2% of the employee's eligible compensation for each of the fiscal year ended December 31, 2022, January 1, 2022 and December 26, 2020. Employees are immediately

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

vested in their contributions plus actual earnings thereon, as well as the Company contributions. Company matching contributions amounted to \$5.5 million, \$5.0 million, and \$4.6 million in 2022, 2021, and 2020, respectively.

### *Non-qualified Supplemental Retirement and Savings Plan*

The Company has a non-qualified Supplemental Retirement and Savings Plan which provides additional retirement benefits for certain management employees and named executive officers by allowing participants to defer a portion of their annual compensation. The Company maintains accounts for participants through which participants make investment elections. The investments are subject to the claims of the Company's creditors and the Company is responsible for the payment of all benefits under the plan from its general assets. As of December 31, 2022, there was \$14.1 million of marketable securities related to the plan included in *Other assets* and \$14.1 million of accrued compensation benefits included in *Other long-term liabilities*. The marketable securities are classified as Level 1 under the fair value hierarchy as they are maintained in mutual funds with readily determinable fair value. The Company made matching contributions to the plan of \$0.2 million, \$0.2 million, and \$0.5 million in 2022, 2021, and 2020, respectively.

## 12. Stock-Based Compensation

*Equity Plans:* The Company has equity-based compensation plans authorizing the granting of stock options, restricted shares, restricted share units, and other stock rights to employees and directors. As of December 31, 2022, there were 0.6 million shares available for issuance of future awards under the Company's equity-based compensation plans.

Stock options generally vest over a three-year period and are exercisable over either a seven or ten-year period commencing from the date of the grant. Restricted shares and share units granted by the Company generally vest over three years. Stock options and restricted share units may have accelerated vesting upon meeting certain qualified conditions.

The following table provides a reconciliation of outstanding stock options for the fiscal year ended December 31, 2022.

	Shares Under Option	Weighted Average Price	Weighted Average Remaining Contract Life (Years)	Aggregate Intrinsic Value (000's)
Outstanding January 1, 2022	563,226	\$ 165.98		
Granted	86,220	231.64		
Exercised	(29,353)	132.31		
Forfeited	(2,237)	153.14		
Outstanding December 31, 2022	<u>617,856</u>	176.79	4.2	\$ 30,555
Exercisable December 31, 2022	292,824	159.93	3.2	18,566

The following table provides a reconciliation of non-vested restricted share and share unit awards ("RSU") for the fiscal year ended December 31, 2022.

	Shares	Weighted Average Grant-Date Fair Value
Nonvested January 1, 2022	156,659	\$ 192.44
Granted	90,970	228.78
Vested	(71,822)	185.06
Forfeited	(7,521)	227.96
Nonvested December 31, 2022	<u>168,286</u>	213.65

The total intrinsic value of options exercised during 2022, 2021, and 2020 was \$3.7 million, \$23.8 million, and \$20.6 million, respectively. The total fair value of the vested RSU shares was \$15.4 million, \$18.9 million, and \$9.5 million for 2022, 2021, and 2020, respectively.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

and 2020, respectively. The total amount of share-based liabilities paid was \$1.1 million, \$1.3 million and \$0.5 million for 2022, 2021, and 2020, respectively.

The Company recognizes compensation cost of all share-based awards as an expense on a straight-line basis over the vesting period of the awards. At December 31, 2022, the unrecognized compensation cost for options and restricted shares was \$21.1 million before tax, and will be recognized over a weighted average period of 1.8 years. Compensation cost included as a component of cost of sales, research and development and selling, general, and administrative expenses for all equity compensation plans discussed above was \$24.6 million, \$21.4 million, and \$19.1 million for 2022, 2021, and 2020, respectively. The total related income tax benefit recognized in the Consolidated Statements of Net Income was \$3.5 million, \$3.3 million and \$3.1 million for 2022, 2021, and 2020, respectively.

The Company uses the Black-Scholes option valuation model to determine the fair value of stock option awards granted. The weighted average fair value of and related assumptions for options granted are as follows:

	<b>2022</b>	<b>2021</b>	<b>2020</b>
Weighted average fair value of options granted	\$70.39	\$74.04	\$38.09
Assumptions:			
Risk-free interest rate	2.83%	0.66%	0.30%
Expected dividend yield	0.92%	0.72%	1.27%
Expected stock price volatility	35.0%	35.0%	33.0%
Expected life of options (years)	4.4	4.4	4.7

Expected volatilities are based on the historical volatility of the Company's stock price. The expected life of options is based on historical data for options granted by the Company. The risk-free rates are based on yields available at the time of grant on U.S. Treasury bonds with maturities consistent with the expected life assumption. Historical nonvested forfeiture information is the basis for the forfeiture rate assumptions.

The fair value of RSU is determined based on the Company's stock price on the grant date reduced by the present value of expected dividends through the vesting period.

*Preferred Stock:* The Board of Directors may authorize the issuance of preferred stock from time to time in one or more series with such designations, preferences, qualifications, limitations, restrictions, and optional or other special rights as the Board may fix by resolution.

### *Share Repurchase Program*

On April 29, 2020, the Company announced that the Board of Directors authorized a new program to repurchase up to 1,000,000 shares of the Company's common stock for the period May 1, 2020 to April 30, 2021 (the "2020 program") . On April 28, 2021, the Company announced that the Board of Directors authorized a new three-year program to repurchase up to \$300 million in the aggregate of shares of the Company's common stock for the period May 1, 2021 to April 30, 2024 to replace its previous 2020 program. There are \$300 million in the aggregate of shares available for purchase under the new program as of December 31, 2022.

During the fiscal years 2022 and 2021, the Company did not repurchase any shares of its common stock. During the fiscal year 2020, the Company repurchased 175,110 shares of its common stock totaling \$22.9 million.

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

**13. Other Comprehensive Income (Loss)**

Changes in other comprehensive income (loss) by component for fiscal years 2022, 2021, and 2020 were as follows:

(in thousands)	Fiscal Year Ended								
	December 31, 2022			January 1, 2022			December 26, 2020		
	Pre-tax	Tax	Net of tax	Pre-tax	Tax	Net of tax	Pre-tax	Tax	Net of tax
Defined benefit pension plan and other adjustments	\$ 11,560	\$(1,825)	\$ 9,735	\$ 27,481	\$(5,268)	\$ 22,213	\$(19,513)	\$ 3,418	\$(16,095)
Cash flow hedge	8,679	(2,083)	6,596	—	—	—	—	—	—
Foreign currency translation adjustments (1)	(39,619)	987	(38,632)	(6,967)	2,448	(4,519)	34,707	(2,946)	31,761
Total change in other comprehensive income (loss)	<u>\$ (19,380)</u>	<u>\$(2,921)</u>	<u>\$ (22,301)</u>	<u>\$ 20,514</u>	<u>\$(2,820)</u>	<u>\$ 17,694</u>	<u>\$ 15,194</u>	<u>\$ 472</u>	<u>\$ 15,666</u>

(1) The tax shown above within the *foreign currency translation adjustments* is the U.S. tax associated with the foreign currency translation adjustments of earnings of non-U.S. subsidiaries which have been previously taxed in the U.S. and are not permanently reinvested.

*Accumulated Other Comprehensive Income (Loss) ("AOCI")*: The following table sets forth the changes in the components of AOCI by component for fiscal years 2022, 2021, and 2020:

(in thousands)	Pension and postretirement liability and reclassification adjustments	Cash flow hedge	Foreign currency translation adjustments	Accumulated other comprehensive income (loss)
Balance at December 28, 2019	\$ (18,046)	\$ —	\$ (88,777)	\$ (106,823)
2020 activity	(16,095)	—	31,761	15,666
Balance at December 26, 2020	(34,141)	—	(57,016)	(91,157)
2021 activity	22,213	—	(4,519)	17,694
Balance at January 1, 2022	(11,928)	—	(61,535)	(73,463)
2022 activity	9,735	6,596	(38,632)	(22,301)
Balance at December 31, 2022	(2,193)	6,596	(100,167)	(95,764)

Due to the signing of the group annuity contract being a significant change in the U.K. pension plan, the liabilities of the plan were remeasured as of April 6, 2020 resulting in an increase of \$13.4 million to unamortized actuarial loss within other comprehensive income (loss). In the fourth quarter of 2021, the Company recorded a non-cash pension settlement charge of \$19.9 million (£14.9 million), inclusive of the accelerated recognition of prior service cost of \$0.5 million (£0.4 million). See Note 11, *Benefits Plans* for further discussion.

Amounts reclassified from accumulated other comprehensive income (loss) to earnings for fiscal years 2022, 2021, and 2020 were as follows:

(in thousands)	Fiscal Year Ended		
	December 31, 2022	January 1, 2022	December 26, 2020
	Pension and postemployment and other plans:		
Amortization of prior service, net actuarial loss, and other	\$ 785	\$ 2,006	\$ 1,694
Net settlement loss and accelerated prior service costs	477	19,855	236
Total	<u>\$ 1,262</u>	<u>\$ 21,861</u>	<u>\$ 1,930</u>

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The Company recognizes the amortization of prior service costs and net settlement loss in *other expense (income), net* within the Consolidated Statements of Net Income.

### 14. Income Taxes

The 2017 Tax Cuts and Jobs Act (the "Tax Act"), among other things, imposed a one-time tax (the "Toll Charge") on accumulated earnings of certain non-U.S. subsidiaries and included base broadening provisions commonly referred to as the global intangible low-taxed income provisions ("GILTI").

The Company elected to pay the 2017 Littelfuse Toll Charge over the eight-year period prescribed by the Tax Act. The long-term portion of this Toll Charge which remains payable as of December 31, 2022, totaling \$14.8 million, is recorded in Other long-term liabilities, and the anticipated 2023 annual installment payment of \$5.0 million is included in *Accrued income taxes*, on the Consolidated Balance Sheet as of December 31, 2022.

In accordance with guidance issued by the FASB staff, the Company has adopted an accounting policy to treat any GILTI inclusions as a period cost if and when incurred. Thus, for the fiscal years ended December 31, 2022, January 1, 2022, and December 26, 2020, deferred taxes were computed without consideration of the possible future impact of the GILTI provisions, and any current year impact was recorded as a part of the current portion of income tax expense.

Domestic and foreign income (loss) before income taxes is as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
Domestic	\$ 32,462	\$ 13,746	\$ (16,732)
Foreign	410,582	327,279	177,985
Income before income taxes	<u>\$ 443,044</u>	<u>\$ 341,025</u>	<u>\$ 161,253</u>

Federal, state and foreign income tax expense (benefit) consists of the following:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
Current:			
Federal	\$ 12,423	\$ 4,832	\$ 437
State	2,183	1,401	203
Foreign	77,551	59,006	33,841
Subtotal	<u>92,157</u>	<u>65,239</u>	<u>34,481</u>
Deferred:			
Federal and State	(9,182)	(9,658)	(5,354)
Foreign	(13,237)	1,638	2,140
Subtotal	<u>(22,419)</u>	<u>(8,020)</u>	<u>(3,214)</u>
Provision for income taxes	<u>\$ 69,738</u>	<u>\$ 57,219</u>	<u>\$ 31,267</u>

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

A reconciliation between income taxes computed on income before income taxes at the federal statutory rate and the provision for income taxes is provided below:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
Tax expense at statutory rate of 21%	\$ 93,039	\$ 71,615	\$ 33,863
Non-U.S. income tax rate differential	(41,731)	(31,414)	(19,730)
One-time tax deductions for stock of subsidiaries	(11,495)	—	—
Tax on unremitted earnings	10,870	7,585	3,955
Non-U.S. losses and expenses with no tax benefit	10,660	7,820	2,774
Net impact associated with U.S. tax on Non-U.S. income, including GILTI	2,546	(238)	3,731
Certain changes in unrecognized tax benefits and related accrued interest	1,839	4,263	2,160
State and local taxes, net of federal tax benefit	215	(172)	(584)
Tax impact of non-deductible goodwill impairment charge	—	—	5,642
Other, net	3,795	(2,240)	(544)
Provision for income taxes	<u>\$ 69,738</u>	<u>\$ 57,219</u>	<u>\$ 31,267</u>

For fiscal year ended December 31, 2022, the Company classified certain amounts in “Net impact associated with U.S. tax on Non-U.S. income, including GILTI,” that in prior years were classified in “Other, net”.

Deferred income taxes are provided for the tax effects of temporary differences between the financial reporting bases and the tax bases of the Company’s assets and liabilities. Significant components of the Company’s deferred tax assets and liabilities at December 31, 2022 and January 1, 2022, are as follows:

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>
<b>Deferred tax assets:</b>		
Accrued expenses and reserves	\$ 49,138	\$ 36,168
Net operating loss carryforwards	30,403	27,818
Interest expense carryforwards	33,507	16,089
Capitalized expenses	11,632	4,878
U.S. foreign tax credit carryforwards	3,385	980
U.S. research and other general business tax credit carryforwards	2,076	1,104
Excess of tax basis over the book basis for intangible assets and goodwill	404	5,636
Other	—	183
Deferred tax assets	<u>130,545</u>	<u>92,856</u>
Less: Valuation allowance	<u>(37,001)</u>	<u>(34,869)</u>
Total deferred tax assets	93,544	57,987
<b>Deferred tax liabilities:</b>		
Excess of book basis over the tax basis for intangible assets and goodwill	143,542	98,046
Excess of book basis over the tax basis for property, plant, and equipment	18,489	12,563
Tax on unremitted earnings	16,282	15,467
Unrealized foreign currency exchange gains	1,094	73
Total deferred tax liabilities	<u>179,407</u>	<u>126,149</u>
Net deferred tax liabilities	<u>\$ 85,863</u>	<u>\$ 68,162</u>

The deferred tax asset valuation allowance is mainly related to certain U.S. and non-U.S. net operating loss and non-U.S. interest expense carryforwards which are not expected to be realized. The remaining U.S. and non-U.S. net operating loss and interest expense carryforwards either have no expiration date or are expected to be utilized prior to expiration. No deferred tax asset nor valuation allowance has been recorded for certain U.S. and non-U.S. net operating loss carryforwards for which the possibility of usage has been determined to be remote.

The Company paid income taxes of \$96.8 million, \$58.2 million, and \$35.2 million in 2022, 2021, and 2020, respectively, and received income tax refunds of \$3.2 million, \$2.6 million, and \$7.6 million in 2022, 2021, and 2020, respectively.



## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Deferred income taxes are not provided on the excess of the investment value for financial reporting over the tax basis of investments in those subsidiaries for which such excess is considered to be permanently reinvested in those operations. The Company believes the determination of the amount of such deferred income taxes is impractical as it would depend upon income tax laws and circumstances at the time of the hypothetical distributions or dispositions. As of December 31, 2022, unremitted earnings of the Company's non-U.S. subsidiaries were approximately \$1.2 billion. A distribution of such earnings will generally not be subject to U.S. federal income tax. The Company recognized deferred tax liabilities of \$16.3 million (\$16.1 million for non-U.S. taxes net of related U.S. foreign tax credits, and \$0.2 million for U.S. state taxes) as of December 31, 2022 and \$15.5 million (\$15.3 million for non-U.S. taxes net of related U.S. foreign tax credits, and \$0.2 million for U.S. state taxes) as of January 1, 2022, related to taxes on certain non-U.S. earnings which are not considered to be permanently reinvested.

The Company has two subsidiaries in China which benefit from lower tax rates due to "tax holidays" which apply for three-year periods. The tax holiday for one of the subsidiaries expired at the end of 2022, and for the other subsidiary the tax holiday will expire at the end of 2023. The Company intends to seek an extension for the expired tax holiday. Together, the tax holidays contributed \$10.1 million in tax benefits, or \$0.40 per diluted share, during 2022. Future year tax benefits will depend upon the Company's ability to obtain extensions, after the three-year periods expire. There can be no assurance that future extensions will be granted.

A reconciliation of the beginning and ending amount of unrecognized tax benefits as of December 31, 2022, January 1, 2022, and December 26, 2020 is as follows:

<b>(in thousands)</b>	<b>Unrecognized Tax Benefits</b>
Balance at December 26, 2020	\$ 17,437
Additions for tax positions related to pre-acquisition periods of acquired subsidiaries	3,260
Additions for tax positions taken in the current year	1,587
Additions for tax positions taken in the prior year	1,100
Other	61
Balance at January 1, 2022	23,445
Additions for tax positions related to pre-acquisition periods of acquired subsidiaries	6,726
Additions for tax positions taken in the current year	2,153
Decreases for tax positions taken in the prior year	(957)
Decreases for lapses in statute of limitations	(758)
Other	(235)
Balance at December 31, 2022	<u>\$ 30,374</u>

The December 31, 2022 total in the table above represents the net amount of tax benefits that, if recognized, would favorably affect the effective tax rate in future periods. Of this amount, approximately \$1.3 million may be recognized in 2023 based upon the possible lapse in the statute of limitations. None of the positions included in unrecognized tax benefits are related to tax positions for which the ultimate deductibility is highly certain, but for which there is uncertainty about the timing of such deductibility.

The Company recognizes accrued interest and penalties associated with uncertain tax positions as part of income tax expense. The Company recognized such interest expense of \$1.4 million (net of a \$0.2 million decrease due to a lapse in the statute of limitations), \$1.6 million (net of a \$0.6 million decrease due to a lapse in the statute of limitations) and \$1.6 million (net of a \$0.6 million decrease due to a lapse in the statute of limitations) in 2022, 2021, and 2020, respectively. Accrued interest for such matters included in *Other long-term liabilities* within the Consolidated Balance Sheets was \$11.8 million and \$10.4 million as of December 31, 2022 and January 1, 2022, respectively.

The U.S. federal statute of limitations remains open for the Company for the 2017 tax year (with respect to the Toll Charge) and later years. Non-U.S. and U.S. state statutes of limitations generally range from three to seven years, although certain jurisdictions do not have a statute expiration. Tax examinations occur from time to time, including examinations currently in process in Canada, Germany, the Netherlands, Singapore, the U.S., and certain U.S. states. The Company does not expect to recognize a significant amount of additional tax expense as a result of concluding these examinations.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 15. Earnings Per Share

The following table sets forth the computation of basic and diluted earnings per share:

(in thousands, except per share amounts)	2022	2021	2020
<b>Numerator:</b>			
Net income as reported	\$ 373,306	\$ 283,806	\$ 129,986
<b>Denominator:</b>			
Weighted average shares outstanding			
Basic	24,734	24,603	24,371
Effect of dilutive securities	252	329	221
Diluted	<u>24,986</u>	<u>24,932</u>	<u>24,592</u>
<b>Earnings Per Share:</b>			
Basic earnings per share	\$ 15.09	\$ 11.54	\$ 5.33
Diluted earnings per share	\$ 14.94	\$ 11.38	\$ 5.29

Potential shares of common stock attributable to stock options and restricted shares excluded from the earnings per share calculation because their effect would be anti-dilutive were 87,425, 20,139, and 222,526 shares in 2022, 2021, and 2020, respectively.

During the fiscal year 2022 and 2021, the Company did not repurchase any shares of its common stock. During the fiscal year 2020, the Company repurchased 175,110 shares of its common stock totaling \$22.9 million. See Note 12 *Stock-Based Compensation* for further discussion.

### 16. Segment Information

The Company and its subsidiaries design, manufacture and sell component, modules and subassemblies to empower the long-term structural themes of sustainability, connectivity and safety. The Company reports its operations by the following segments: Electronics, Transportation, and Industrial. An operating segment is defined as a component of an enterprise that engages in business activities from which it may earn revenues and incur expenses, and about which separate financial information is regularly evaluated by the Chief Operating Decision Maker (“CODM”) in deciding how to allocate resources. The CODM is the Company’s President and Chief Executive Officer (“CEO”). The CODM allocates resources to and assesses the performance of each operating segment using information about its revenue and operating income (loss) before interest and taxes, but does not evaluate the operating segments using discrete balance sheet information.

Sales, marketing, and research and development expenses are charged directly into each operating segment. Purchasing, logistics, customer service, finance, information technology, and human resources are shared functions that are allocated back to the three operating segments. The Company does not report inter-segment revenue because the operating segments do not record it. Certain expenses, determined by the CODM to be strategic in nature and not directly related to segments current results, are not allocated but identified as “Other”. Additionally, the Company does not allocate interest and other income, interest expense, or taxes to operating segments. These costs are not allocated to the segments, as management excludes such costs when assessing the performance of the segments. Although the CODM uses operating income (loss) to evaluate the segments, operating costs included in one segment may benefit other segments. Except as discussed above, the accounting policies for segment reporting are the same as for the Company as a whole.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

- *Electronics Segment:* Consists of one of the broadest product offerings in the industry, including fuses and fuse accessories, positive temperature coefficient (“PTC”) resettable fuses, electromechanical switches and interconnect solutions, polymer electrostatic discharge (“ESD”) suppressors, varistors, reed switch based magnetic sensing, gas discharge tubes; semiconductor products such as discrete transient voltage suppressor (“TVS”) diodes, TVS diode arrays, protection and switching thyristors, silicon and silicon carbide metal-oxide-semiconductor field effect transistors (“MOSFETs”) and diodes; and insulated gate bipolar transistors (“IGBT”) technologies. The segment covers a broad range of end markets, including industrial motor drives and power conversion, automotive electronics, electric vehicle and related charging infrastructure, aerospace, power supplies, data centers and telecommunications, medical devices, alternative energy and energy storage, building and home automation, appliances, and mobile electronics.
- *Transportation Segment:* Formerly known as Automotive segment. The term “Transportation” represents a more comprehensive description of the Company’s broad range of products, and the applications and end markets it serves. Consists of a wide range of circuit protection, power control and sensing technologies for global original equipment manufacturers (“OEMs”), Tier-one suppliers and parts and aftermarket distributors in passenger vehicle, heavy-duty truck, off-road vehicle, material handling, agricultural, construction and other commercial vehicle end markets. Passenger vehicle products are used in internal combustion engine, hybrid and electric vehicles including blade fuses, battery cable protectors, resettable fuses, high-current fuses, high-voltage fuses, and sensor products designed to monitor the occupant’s safety and environment as well as the vehicle’s powertrain. Commercial vehicle products include fuses, switches, circuit breakers, relays, and power distribution modules and units used in applications serving a number of end markets, including heavy-duty truck, construction, agriculture, material handling and marine.
- *Industrial Segment:* Consists of industrial circuit protection (industrial fuses), industrial controls (protection relays, contactors, and transformers) and temperature sensors for use in various applications such as renewable energy and energy storage systems, electric vehicle infrastructure, HVAC systems, industrial safety, non-residential construction, MRO, mining and industrial automation.

The Company has provided this segment information for all comparable prior periods. Segment information is summarized as follows:

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
<b>Net sales</b>			
Electronics	\$ 1,492,819	\$ 1,300,744	\$ 937,762
Transportation	716,140	528,058	395,764
Industrial	304,938	251,126	112,169
<b>Total net sales</b>	<b>\$ 2,513,897</b>	<b>\$ 2,079,928</b>	<b>\$ 1,445,695</b>
<b>Depreciation and amortization</b>			
Electronics	\$ 68,195	\$ 61,512	\$ 62,702
Transportation	43,756	29,015	28,995
Industrial	8,755	8,108	4,481
<b>Total depreciation and amortization</b>	<b>\$ 120,706</b>	<b>\$ 98,635</b>	<b>\$ 96,178</b>
<b>Operating income (loss)</b>			
Electronics	\$ 431,616	\$ 309,633	\$ 152,695
Transportation	63,539	65,979	41,655
Industrial	48,853	22,621	11,996
Other <sup>(a)</sup>	(43,182)	(12,591)	(43,974)
<b>Total operating income</b>	<b>500,826</b>	<b>385,642</b>	<b>162,372</b>
Interest expense	26,216	18,527	21,077
Foreign exchange loss (gain)	24,359	17,158	(14,875)
Other expense (income), net	7,207	8,932	(5,083)
<b>Income before income taxes</b>	<b>\$ 443,044</b>	<b>\$ 341,025</b>	<b>\$ 161,253</b>

(a) Included in “Other” Operating income (loss) for 2022 was \$17.6 million of legal and professional fees and other integration expenses related to completed and contemplated acquisitions, \$15.6 million of purchase accounting inventory step-up charges, and \$10.0 million of restructuring, impairment and other charges, primarily related to employee termination costs and a \$2.9 million non-cash impairment charge for certain acquired technology and patent intangible assets due to a change in use and projected cash flows within the Electronics segment in the fourth quarter of 2022. See Note 8, *Restructuring, Impairment and Other Charges*, for further discussion.

Included in “Other” Operating income (loss) for 2021 was \$8.4 million of purchase accounting inventory step-up charges, \$7.0 million of legal and professional fees and other integration expenses related to Carling, Hartland and other contemplated acquisitions, and \$2.2 million of restructuring, impairment and other charges, primarily related to employee termination costs. See Note 8, *Restructuring, Impairment and Other Charges*, for further discussion. In addition, there was a gain of \$5.0 million recorded for the sale of buildings within the Electronics segment.

Included in “Other” Operating income (loss) for 2020 is \$2.3 million of acquisition-related and integration charges related to the IXYS acquisition and other contemplated acquisitions. In addition, there were \$41.7 million of restructuring, impairment and other charges, primarily related to the goodwill impairment charge of \$33.8 million recorded in the second quarter associated with the automotive sensors reporting unit within the Transportation segment, employee termination costs of \$5.5 million, \$2.2 million of impairment charges recorded in the first quarter associated with the announced consolidation of a manufacturing facility within the Industrial segment and other restructuring charges of \$0.2 million.

The Company’s net sales, long-lived assets and additions to long-lived assets by country for the fiscal years ended 2022, 2021, and 2020 are as follows:

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

<b>(in thousands)</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>
<b>Net sales</b>			
U.S.	\$ 912,498	\$ 639,381	\$ 392,544
China	638,978	620,211	438,000
Other countries <sup>(a)</sup>	962,421	820,336	615,151
<b>Total net sales</b>	<b>\$ 2,513,897</b>	<b>\$ 2,079,928</b>	<b>\$ 1,445,695</b>
<b>Long-lived assets</b>			
U.S.	\$ 76,325	\$ 57,923	\$ 46,132
China	129,094	122,867	85,876
Mexico	107,119	107,283	70,125
Germany	39,635	39,055	37,976
Philippines	77,240	74,918	66,994
Other countries	51,697	35,843	37,075
<b>Total long-lived assets</b>	<b>\$ 481,110</b>	<b>\$ 437,889</b>	<b>\$ 344,178</b>
<b>Additions to long-lived assets</b>			
U.S.	\$ 14,603	\$ 7,690	\$ 4,170
China	35,297	26,396	10,074
Mexico	26,514	28,707	9,977
Germany	5,255	8,519	5,600
Philippines	14,847	19,342	19,612
Other countries	7,678	5,654	1,775
<b>Total additions to long-lived assets</b>	<b>\$ 104,194</b>	<b>\$ 96,308</b>	<b>\$ 51,208</b>

(a) Each country included in other countries are less than 10% of net sales.

For the year ended December 31, 2022, approximately 64% of the Company's net sales were to customers outside the U.S. (exports and foreign operations), including approximately 25% to China. For the year ended January 1, 2022, approximately 69% of the Company's net sales were to customers outside the U.S. (exports and foreign operations), including approximately 30% to China. For the year ended December 26, 2020, approximately 73% of the Company's net sales were to customers outside the U.S. (exports and foreign operations), including approximately 30% to China. Sales to Arrow Electronics, Inc., which were included in the Electronics, Transportation, and Industrial segments, were 11.5%, 10.7%, and 10.4% of consolidated net sales in 2022, 2021, and 2020 respectively. No other single customer accounted for more than 10% of net sales during the last three years.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 17. Related Party Transactions

As a result of the Company’s acquisition of IXYS, the Company has equity ownerships in various investments that are accounted for under the equity method. The following is a description of the investments and related party transactions.

**Powersem GmbH:** The Company owns 45% of the outstanding equity of Powersem GmbH (“Powersem”), a module manufacturer based in Germany.

**EB-Tech Co., Ltd.:** The Company owns approximately 19% of the outstanding equity of EB-Tech Co., Ltd. (“EB Tech”), a company with expertise in radiation technology based in South Korea.

**Automated Technology (Phil), Inc.:** The Company owns approximately 24% of the outstanding common shares of Automated Technology (Phil), Inc. (“ATEC”), a supplier located in the Philippines that provides assembly and test services. One member of the Company’s Board of Directors serves on the Board of Directors of ATEC.

(in millions)	Fiscal Year Ended					
	December 31, 2022			January 1, 2022		
	Powersem	EB Tech	ATEC	Powersem	EB Tech	ATEC
Sales to related party	\$ —	\$ —	\$ —	\$ 0.2	\$ —	\$ —
Purchase of material/services from related party	0.3	0.4	11.5	3.0	0.4	12.6
Accounts receivable balance	—	—	—	—	—	—
Accounts payable balance	\$ —	\$ —	\$ 1.8	\$ —	\$ —	\$ 1.8

### 18. Subsequent Events

On February 3, 2023, the Company acquired Western Automation Research and Development Limited (“Western Automation”) for approximately \$162 million in cash. Headquartered in Galway, Ireland, Western Automation is a designer and manufacturer of electrical shock protection devices used across a broad range of high-growth end markets, including e-Mobility off-board charging infrastructure, industrial safety and renewables. Western Automation has annualized sales of approximately \$25 million and will be reported within the company’s Industrial segment. The company does not expect the acquisition to have a material impact to its 2023 financial results. The Company financed the transaction with cash on hand.

### ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE.

None.

### ITEM 9A. CONTROLS AND PROCEDURES.

#### Evaluation of Disclosure Controls and Procedures

The Company maintains disclosure controls and procedures that are designed to ensure that information required to be disclosed in its reports filed under the Securities Exchange Act of 1934, as amended, is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms and that such information is accumulated and communicated to management, including the Company’s Chief Executive Officer and Chief Financial Officer, as appropriate, to allow for timely decisions regarding required disclosure. In designing and evaluating the disclosure controls and procedures, the Company recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and the Company is required to apply its judgment in evaluating the cost-benefit relationship of possible controls and procedures.

As required by SEC Rule 15d-15(b), the Company carried out an evaluation, under the supervision and with the participation of its management, including the Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of its disclosure controls and procedures pursuant to SEC Rule 13a-15 as of the end of the period covered by this report. Based on the foregoing, the Company’s Chief Executive Officer and Chief Financial Officer concluded that the Company’s disclosure controls and procedures were effective as of December 31, 2022.

## **Management’s Report on Internal Control over Financial Reporting**

Section 404 of the Sarbanes-Oxley Act of 2002 requires management to include in this Annual Report on Form 10-K a report on management’s assessment of the effectiveness of the Company’s internal control over financial reporting, as well as an attestation report from the Company’s independent registered public accounting firm on the effectiveness of the Company’s internal control over financial reporting. Management is responsible for establishing and maintaining adequate internal control over financial reporting as such term is defined in Exchange Act Rule 13a-15(f) and 15d-15(f). The Company’s internal control system was designed to provide reasonable assurance to its management and the Board of Directors regarding the preparation and fair presentation of published financial statements.

All internal control systems, no matter how well designed, have inherent limitations. Therefore, even those systems determined effective can provide only reasonable assurance with respect to financial statement preparation and presentation. A material weakness is a deficiency, or a combination of deficiencies, in the internal control over financial reporting such that there is a reasonable possibility that a material misstatement of the annual or interim financial statement will not be prevented or detected on a timely basis.

The Company’s management, including its Principal Executive Officer and Principal Financial Officer, assessed the effectiveness of the Company’s internal control over financial reporting as of December 31, 2022, based upon the updated framework in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”) in 1992 and updated in May 2013. Based on this assessment, the Company’s management concluded that, as of December 31, 2022, the Company’s internal control over financial reporting was effective.

On July 19, 2022, the Company completed the acquisition of C&K Switches, as discussed in Note 2 – *Acquisitions*. Management has excluded C&K’s internal controls over financial reporting from its assessment of the effectiveness of internal controls over financial reporting as of December 31, 2022. C&K’s net sales and total assets (excluding goodwill and intangible assets, which were integrated into the Company’s control environment) represent approximately 3% and 3%, respectively, of the consolidated financial statement amounts as of, and for the fiscal year ended, December 31, 2022.

## **Changes in Internal Control over Financial Reporting**

There has been no change in the Company’s internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the 12 months or fiscal year ended December 31, 2022, that has materially affected, or is reasonably likely to materially affect, the Company’s internal control over financial reporting.

## **ITEM 9B. OTHER INFORMATION.**

None.

## **ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS .**

None.

## PART III

### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS, AND CORPORATE GOVERNANCE.

Except as set forth below, the information required by this item will be contained in the Company's Proxy Statement related to our 2022 Annual Meeting of Stockholders (the "proxy statement") and is incorporated herein by reference.

Information concerning directors and nominees for director is set forth in the section titled "Proposal No. 1 - Election of Directors" in the Company's proxy statement and is incorporated herein by reference.

Information concerning the Company's Audit Committee and Audit Committee financial expert is set forth in the sections titled "Board Committees" and "Director Independence; Financial Experts" in the Company's proxy statement and is incorporated herein by reference.

Information concerning the procedures by which security holders may recommend nominees to the Company's Board of Directors is set forth in the section titled "Director Nominations" in the Company's proxy statement and is incorporated herein by reference.

Information concerning compliance with Section 16 of the Securities Exchange Act of 1934 is set forth in the section titled "Delinquent Section 16(a) Reports" in the Company's proxy statement and is incorporated herein by reference.

Information regarding the Executive Officers of the Company can be found in Part I of this Annual Report on Form 10-K under the caption "Information about our Executive Officers."

#### Code of Ethics

The company has adopted a Code of Conduct (Code of Ethics) that applies to all of the Company's employees including the Company's Principal Executive Officer, Principal Financial Officer, Principal Accounting Officer and persons performing similar functions. It has posted the text of the Code of Conduct on its website at <https://investor.littelfuse.com/corporate-governance/governance-overview> and intends to disclose on such website any amendments to, or waivers from the Code of Conduct. The company's website is not incorporated by reference into this Annual Report.

### ITEM 11. EXECUTIVE COMPENSATION.

Information concerning compensation of the Company's executive officers and directors for the fiscal year ended December 31, 2022, is set forth in the sections titled "Compensation Discussion and Analysis," "Compensation Tables," "Compensation Committee Report," "CEO Pay Ratio," "Pay versus Performance," "Potential Payments Upon Termination or Change in Control" and "Director Compensation" in the Company's proxy statement and is incorporated herein by reference, except the section titled "Compensation Committee Report" is hereby "furnished" and not "filed" with this Annual Report on Form 10-K.

Information concerning compensation committee interlocks is set forth in the section titled "Compensation Committee Interlocks and Insider Participation" in the Company's proxy statement and is incorporated herein by reference.

#### COMPENSATION PLAN INFORMATION

We have two equity compensation plans that have been approved by our stockholders: the Littelfuse, Inc. Long-Term Incentive Plan that was approved by our stockholders at the April 2017 annual stockholder meeting and the Deferred Compensation Plan for Non-Employee Directors that was approved by our stockholders at the May 2005 annual stockholder meeting.

Pursuant to our acquisition of IXYS on January 17, 2018, we assumed four equity compensation plans that have not been approved by our stockholders and pursuant to which we may continue to grant equity awards: IXYS Corporation 2009 Equity Incentive Plan, IXYS Corporation 2011 Equity Incentive Plan, IXYS Corporation 2013 Equity Incentive Plan, IXYS Corporation 2016 Equity Incentive Plan (together, the "IXYS Plans"). We also assumed two expired equity compensation plans that have not been approved by our stockholders and pursuant to which we have outstanding equity awards: the Zilog, Inc. 2002 Omnibus Stock Incentive Plan and Zilog, Inc. 2004 Omnibus Stock Incentive Plan (together, the "Zilog Plans"). The IXYS Corporation 2009 Equity Incentive Plan expired in June 2019 and equity awards remain outstanding under it.



Information about our equity compensation plans that were either approved or not approved by our stockholders as of December 31, 2022, is as follows:

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants, and rights (1)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in the first column)
Equity compensation plans approved by security holders	698,848 (2)	\$145.33	462,409 (4)
Equity compensation plans not approved by security holders	95,691 (3)	\$76.92	171,606 (5)
<b>Total</b>	<b>794,539</b>	<b>\$137.09</b>	<b>634,015</b>

- (1) The weighted average exercise price does not take into account the shares issuable upon the vesting of outstanding restricted stock units, which have no exercise price.
- (2) Includes 151,458 shares reserved for issuance upon vesting of outstanding restricted stock units and 547,390 outstanding stock options granted under the Littelfuse, Inc. Long-Term Incentive Plan.
- (3) Includes 27,066 shares reserved for issuance upon vesting of outstanding restricted stock units under the IXYS Plans and 68,625 outstanding stock options granted under the IXYS Plans and Zilog Plan. Below is a brief description of the material features of the compensation plans acquired pursuant to the acquisition of IXYS.
- (4) Includes 417,762 shares that remain available for future issuance under the Littelfuse, Inc. Long-Term Incentive Plan and 44,647 shares that remain available for future issuance under the Deferred Compensation Plan for Non-Employee Directors.
- (5) Includes 22,965 shares that remain available for future issuance under the IXYS Corporation 2013 Equity Incentive Plan, and 148,641 shares that remain available for future issuance under the IXYS Corporation 2016 Equity Incentive Plan.

#### *IXYS Plans*

In connection with the acquisition of IXYS, we assumed the IXYS Corporation 2009 Equity Incentive Plan, IXYS Corporation 2011 Equity Incentive Plan, IXYS Corporation 2013 Equity Incentive Plan, IXYS Corporation 2016 Equity Incentive Plan and outstanding unvested stock options originally granted by IXYS Corporation under the IXYS Plans that were held by continuing employees. At the time of the acquisition of IXYS Corporation, these awards were converted to Littelfuse stock options, with adjustments made to the exercise price of the stock options and the number of shares subject to stock options as agreed upon in the Acquisition Agreement. These unvested options vest in accordance with their original terms, generally vesting in equal annual installments over a four-year period from the original grant date. The options, once granted, generally expire ten years from the date of grant. Under the IXYS Plans, we may grant to former employees of IXYS Corporation or its subsidiaries restricted stock awards, RSUs, stock options and stock appreciation rights with an exercise price that is no less than the fair market value on the date of grant. Equity awards granted under the IXYS Plans following the acquisition have been on similar terms and consistent with grants made pursuant to the Littelfuse, Inc Long-Term Incentive Plan. The IXYS Corporation 2009 and 2011 Equity Incentive Plans expired in June 2019 and June 2021 respectively, with no additional grants made after the expiration date. As of December 31, 2022, 171,606 shares remained available for issuance under the IXYS Plans.

#### *Zilog Plans*

In connection with the acquisition of IXYS Corporation, we assumed the Zilog, Inc. 2004 Omnibus Stock Incentive Plan and outstanding stock options originally granted by IXYS Corporation under the Zilog Plan that were held by continuing employees of Zilog. At the time of the acquisition of IXYS Corporation, these awards were converted to Littelfuse stock options, with adjustments made to the exercise price of the stock options and the number of shares subject to stock options as agreed upon in the Acquisition Agreement. These options vested in accordance with their original terms, generally in equal annual installments over a four-year period from the original grant date. The options generally expire ten years from the date of grant. The Zilog 2004 Omnibus Stock Incentive Plan expired in February 2014 and no additional grants have been made thereunder. Therefore, as of December 31, 2022, no shares remain available for issuance of new awards under the Zilog Plan and 12,086 stock options remain outstanding.

**ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS.**

Information concerning the security ownership of certain beneficial owners, the Company's directors and executive officers as of March 16, 2022, is set forth in the section titled "Ownership of Littelfuse, Inc. Common Stock" in the Company's proxy statement and is incorporated herein by reference.

**ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE.**

Information concerning the independence of the Company's directors, certain relationships and related transactions during 2022 and the Company's policies with respect to such transactions is set forth in the sections titled "Director Independence; Financial Experts", "Related Person Transactions Policy", "Related Party Transactions" in the Company's proxy statement and is incorporated herein by reference.

**ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES.**

Information concerning principal accountant fees and services is set forth in the section titled "Audit Related Matters" in the Company's proxy statement and is incorporated herein by reference.

## PART IV

### ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES.

(a) Financial Statements and Schedules

	<b>Page</b>
1. The following Financial Statements are filed as a part of this report:	
i. Reports of Independent Registered Public Accounting Firms	44 - 46
ii. Consolidated Balance Sheets as of December 31, 2022 and January 1, 2022	47
iii. Consolidated Statements of Net Income for the fiscal years ended December 31, 2022, January 1, 2022 and December 26, 2020	48
vi. Consolidated Statements of Comprehensive Income for the fiscal years ended December 31, 2022, January 1, 2022 and December 26, 2020	49
v. Consolidated Statements of Cash Flows for the fiscal years ended December 31, 2022, January 1, 2022 and December 26, 2020	50
vi. Consolidated Statements of Equity for the fiscal years ended December 31, 2022, January 1, 2022 and December 26, 2020	51
vii. Notes to Consolidated Financial Statements	52 - 90
2. The following Financial Statement Schedule is submitted herewith for the periods indicated therein.	
i. Schedule II - Valuation and Qualifying Accounts and Reserves	96

All other schedules for which provision is made in the applicable accounting regulations of the Securities and Exchange Commission are not required under the related instructions or are inapplicable and, therefore, have been omitted.

3. Exhibits. See Exhibit Index	98
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### Item 16. FORM 10-K SUMMARY

None.

**SCHEDULE II**

**VALUATION AND QUALIFYING ACCOUNTS AND RESERVES**

Description	Balance at Beginning of Year	Charged to Costs and Expenses (a)	Deductions (b)	Other (c)	Balance at End of Year
<b>(in thousands)</b>					
Fiscal year ended December 31, 2022					
Allowance for credit losses on accounts receivable	\$ 1,910	\$ 166	\$ (222)	\$ (279)	\$ 1,575
Reserves for sales discounts and allowances	\$ 57,322	\$ 184,201	\$ (158,499)	\$ (1,037)	\$ 81,987
Fiscal year ended January 1, 2022					
Allowance for credit losses on accounts receivable	\$ 1,400	\$ 82	\$ (362)	\$ 790	\$ 1,910
Reserves for sales discounts and allowances	\$ 43,837	\$ 152,153	\$ (137,920)	\$ (748)	\$ 57,322
Fiscal year ended December 26, 2020					
Allowance for credit losses on accounts receivable	\$ 1,310	\$ 1,170	\$ (329)	\$ (751)	\$ 1,400
Reserves for sales discounts and allowances	\$ 40,733	\$ 113,709	\$ (112,401)	\$ 1,796	\$ 43,837

(a) Includes provision for credit losses, sales returns and sales discounts granted to customers.

(b) Represents uncollectible accounts written off, net of recoveries and credits issued to customers.

(c) Represents business acquisitions and foreign currency translation adjustments.

## 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.

Littelfuse, Inc.

By: /s/ David W. Heinzmann

David W. Heinzmann,  
President and Chief Executive Officer

Date: February 16, 2023

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 on February 16, 2023 and in the capacities indicated.

<u>/s/ Gordon Hunter</u> Gordon Hunter	Chairman of the Board of Directors
<u>/s/ David W. Heinzmann</u> David W. Heinzmann	Director, President and Chief Executive Officer (Principal Executive Officer)
<u>/s/ Kristina A. Cerniglia</u> Kristina A. Cerniglia	Director
<u>/s/ Tzau-Jin Chung</u> Tzau-Jin Chung	Director
<u>/s/ Cary T. Fu</u> Cary T. Fu	Director
<u>/s/ Anthony Grillo</u> Anthony Grillo	Director
<u>/s/ William P. Noglows</u> William P. Noglows	Director
<u>/s/ Maria C. Green</u> Maria C. Green	Director
<u>Nathan Zommer</u>	Director
<u>/s/ Meenal A. Sethna</u> Meenal A. Sethna	Executive Vice President and Chief Financial Officer (Principal Financial Officer)
<u>/s/ Jeffrey G. Gorski</u> Jeffrey G. Gorski	Corporate Controller and Chief Accounting Officer (Principal Accounting Officer)

## EXHIBIT INDEX

The following documents listed below that have been previously filed with the SEC (1934 Act File No. 0-20388) are incorporated herein by reference:

Exhibit No.	Description	Incorporated by Reference Herein			
		Form	Exhibit	Filing Date	File No.
2.1	Stock Purchase Agreement, dated October 19, 2021, by and between Littelfuse, Inc., the Shareholders of Carling Technologies, Inc., and Christopher T. Sorenson, as Sellers' Representative	8-K	2.1	10/20/2021	0-20388
2.2	First Amendment to Stock Purchase Agreement, dated November 29, 2021, by and between Littelfuse, Inc., the Shareholders of Carling Technologies, Inc., and Christopher T. Sorenson				
2.3	Sale and Purchase Agreement, dated April 7, 2022, by and between Cayman NIH VI BEIT Holdings, L.P. and Littelfuse, Inc.	8-K	2.1	4/8/2022	0-20388
2.4	Warranty Deed, dated April 7, 2022, by and between the warrantors party thereto and Littelfuse, Inc.	8-K	2.2	4/8/2022	0-20388
2.5	Deed of Amendment No. 1 Sale and Purchase Agreement, dated July 18, 2022, by and between Cayman NIH VI BEIT Holdings, L.P. and Littelfuse, Inc.	10-Q	2.1	8/3/2022	0-20388
3.1	Certificate of Incorporation dated November 25, 1991, as amended April 25, 1997.	10-K	3.1	2/27/2017	0-20388
3.2	Certificate of Designations of Series A Preferred Stock.	8-K	4.2	12/1/1995	0-20388
3.3	Bylaws, as amended and restated January 27, 2023.	8-K	3.1	2/3/2023	0-20388
4.1	Description of Securities of Littelfuse, Inc.	10-K	4.1	2/21/2020	0-20388
10.1	Form of Stock Option Award Agreement under the Littelfuse, Inc. Outside Directors' Equity Plan.++	8-K	99.3	5/1/2008	0-20388
10.2	Form of Restricted Stock Unit Award Agreement under the Littelfuse, Inc. Outside Directors' Equity Plan.++	8-K	99.4	5/1/2008	0-20388
10.3	Form of Stock Option Award Agreement under the Littelfuse, Inc. Equity Incentive Compensation Plan .++	8-K	10.2	4/28/2009	0-20388
10.4	Form of Restricted Stock Unit Award Agreement (Outside Director) under the Littelfuse, Inc. Long-Term Incentive Plan.+ +	S-8	4.4	5/19/2010	0-20388
10.5	Form of Stock Option Award Agreement under the Littelfuse, Inc. Long-Term Incentive Plan.++	S-8	4.6	5/19/2010	0-20388
10.6	Littelfuse, Inc. Annual Incentive Plan, effective January 1, 2014. ++	DEF14A	A	3/17/2014	0-20388
10.7	Form of Stock Option Award Agreement (Executive) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.3	5/6/2016	0-20388
10.8	Form of Stock Option Award Agreement (Outside Director – 2016 Grant) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.4	5/6/2016	0-20388
10.9	Form of Restricted Stock Unit Award Agreement (Tier II Management) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.6	5/6/2016	0-20388
10.10	Form of Restricted Stock Unit Award Agreement (Outside Director – 2016 Grant) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.7	5/6/2016	0-20388
10.11	Letter Agreement entered into between Littelfuse, Inc. and David W. Heinzmann. Effective January 1, 2017. ++	8-K	10.2	11/16/2016	0-20388

Exhibit No.	Description	Incorporated by Reference Herein			
		Form	Exhibit	Filing Date	File No.
10.12	Littelfuse, Inc. 3.03% Senior Note, Series A, due February 15, 2022, and 3.74% Senior Note, Series B, due February 15, 2027 Note Purchase Agreement.	8-K	10.1	12/9/2016	0-20388
10.13	Littelfuse, Netherland C.V. 1.14% Senior Note, Series A, due December 8, 2023, and 1.83% Senior Note, Series B, due December 8, 2028 Note Purchase Agreement.	8-K	10.2	12/9/2016	0-20388
10.14	Subsidiary Guaranty Agreement, dated December 8, 2016.	8-K	10.4	12/9/2016	0-20388
10.15	Subsidiary Guaranty Agreement, dated as of February 15, 2017.	8-K	10.2	2/15/2017	0-20388
10.16	Restated Littelfuse, Inc. Supplemental Retirement and Savings Plan, effective January 1, 2017. ++	10-K	10.50	2/27/2017	0-20388
10.17	Amended and Restated Littelfuse, Inc. Long-Term Incentive Plan. ++	8-K	10.1	5/1/2017	0-20388
10.18	Form of 2017 Stock Option Award Agreement. ++	8-K	10.3	5/1/2017	0-20388
10.19	Employment offer letter between Littelfuse, Inc. and Jeffrey Gorski, dated June 28, 2017. ++	8-K	10.1	8/14/2017	0-20388
10.20	Note Purchase Agreement, dated November 15, 2017, among Littelfuse, Inc. and note purchasers listed on the signature pages thereto.	8-K	10.1	11/15/2017	0-20388
10.21	Form of 3.78% Senior Note, Series B, due February 15, 2030.	8-K	4.2	11/15/2017	0-20388
10.22	Form of 3.48% Senior Note, Series A, due February 15, 2025,	8-K	4.1	11/15/2017	0-20388
10.23	Subsidiary Guaranty Agreement, dated as of January 16, 2018, made by LFUS LLC, Littelfuse Commercial Vehicle, LLC, Iron Merger Co., Inc., IXYS Merger Co., LLC and SymCom, Inc. in favor of the note purchasers and the other holders.	8-K	10.2	1/18/2018	0-20388
10.24	Littelfuse, Inc. Executive Severance Policy. ++	8-K	10.4	1/18/2018	0-20388
10.25	Form of Indemnity Agreement between Nathan Zommer and IXYS Corporation. ++	10-K	10.3	6/12/2008	000-26124
10.26	IXYS Corporation 2009 Equity Incentive Plan++	S-8	4.4	1/19/2018	333-221147
10.27	IXYS Corporation 2011 Equity Incentive Plan++	S-8	4.5	1/19/2018	333-221147
10.28	IXYS Corporation 2013 Equity Incentive Plan++	S-8	4.6	1/19/2018	333-221147
10.29	IXYS Corporation 2016 Equity Incentive Plan++	S-8	4.7	1/19/2018	333-221147
10.30	Zilog, Inc. 2004 Omnibus Stock Incentive Plan++	S-8	4.9	1/19/2018	333-221147
10.31	Notice of Stock Option Grant and Agreement for the IXYS Corporation 2009 Equity Incentive Plan++	10-Q	10.4	8/10/2009	000-26124
10.32	Form of Nonqualified Stock Option Agreement for Stock Options pursuant to the Zilog, Inc. 2004 Omnibus Stock Incentive Plan++	10-K	10.28	6/11/2010	000-26124
10.33	Notice of Stock Option Grant and Agreement for IXYS Corporation 2011 Equity Incentive Plan++	10-Q	10.2	8/5/2011	000-26124
10.34	Notice of Stock Option Grant and Agreement for IXYS Corporation 2013 Equity Incentive Plan++	10-Q	10.6	8/9/2013	000-26124
10.35	Notice of Stock Option Grant and Agreement for IXYS Corporation 2016 Equity Incentive Plan++	10-Q	10.1	11/3/2016	000-26124
10.36	Cross Border Assumption Agreement, dated as of October 3, 2018, made by each of New Dutch B.V. and IXYS Dutch B.V. in favor of the note purchasers and the other holders.	10-K	10.106	02/22/2019	0-20388
10.37	Amended and Restated Employment Agreement entered into between Littelfuse Europe GmbH and Alexander Conrad, effective April 1, 2019. ++	10-K	10.77	02/21/2020	0-20388
10.38	Form of Restricted Stock Unit Award Agreement (Tier I) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	8-K	10.1	4/24/2020	0-20388

Exhibit No.	Description	Incorporated by Reference Herein			
		Form	Exhibit	Filing Date	File No.
10.39	Form of Option Award Agreement (Tier I) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	8-K	10.2	4/24/2020	0-20388
10.40	Form of Restricted Stock Unit Award Agreement (Non-Employee Director) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	8-K	10.3	4/24/2020	0-20388
10.41	Form of Option Award Agreement (Non-Employee Director) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	8-K	10.4	4/24/2020	0-20388
10.42	Form of Restricted Stock Unit Award Agreement (Tier II) under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.6	4/29/2020	0-20388
10.43	Form of Restricted Stock Unit Award Agreement (IXYS Tier II) under the IXYS Corporation Equity Incentive Plan. ++	10-Q	10.7	4/29/2020	0-20388
10.44	Form of Retention Stock Option Award Agreement under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.8	7/29/2020	0-20388
10.45	Form of Retention Stock Option Award Agreement under the IXYS Corporation Equity Incentive Plan. ++	10-Q	10.9	7/29/2020	0-20388
10.46	Form of Retention Restricted Stock Unit Award Agreement under the Littelfuse, Inc. Long-Term Incentive Plan. ++	10-Q	10.10	7/29/2020	0-20388
10.47	Form of Retention Restricted Stock Unit Award Agreement under the IXYS Corporation Equity Incentive Plan. ++	10-Q	10.11	7/29/2020	0-20388
10.48	Amended and Restated Littelfuse Deferred Compensation Plan for Non-Employee Directors. ++	10-Q	10.1	10/28/2020	0-20388
10.49	First Amendment to the Littelfuse, Inc. Supplemental Retirement and Savings Plan, effective January 1, 2019.++	10-K	10.68	2/18/2021	0-20388
10.50	Second Amendment to the Littelfuse, Inc. Supplemental Retirement and Savings Plan, effective January 1, 2020.++	10-K	10.69	2/18/2021	0-20388
10.51	Third Amendment to the Littelfuse, Inc. Supplemental Retirement and Savings Plan, effective January 1, 2020.++	10-K	10.70	2/18/2021	0-20388
10.52	Form Tier I Change of Control Agreement, effective January 1, 2021.++	10-K	10.71	2/18/2021	0-20388
10.53	Form Tier II Change of Control Agreement, effective January 1, 2021.++	10-K	10.72	2/18/2021	0-20388
10.54	Employment offer letter between Littelfuse, Inc. and Maggie Chu, dated April 28, 2021 ++	10-Q	10.10	7/28/2021	0-20388
10.55	Form of 4.33% Senior Note due June 30, 2032 (included in Exhibit 10.1 of the Company's Current Report on Form 8-K filed on May 19, 2022, Commission File No. 20388).	8-K	4.10	5/18/2022	0-20388
10.56	Note Purchase Agreement, dated May 18, 2022, among Littelfuse, Inc. and note purchasers listed on the signature pages thereto (filed as Exhibit 10.1 of the Company's Current Report on Form 8-K filed on May 19, 2022, Commission File No. 20388).	8-K	10.1	5/18/2022	0-20388
10.57	Subsidiary Guaranty Agreement, dated July 18, 2022, among Carling Technologies, Inc., Hartland Controls Holding Corp., Hartland Controls, L.L.C., IXYS Buckeye, LLC, IXYS Integrated Circuits Division, LLC, IXYS Long Beach, Inc., IXYS USA, LLC, IXYS, LLC, LFUS LLC, Littelfuse Commercial Vehicle, LLC, Littelfuse Holding, LLC, Littelfuse International Holding, LLC, Littelfuse Mexico Holding LLC, Monolith Semiconductor Inc., Pele Technology, Inc., Reaction Tech RE, LLC, Reaction Technology Epi, LLC, Reaction Technology Incorporated, SymCom, Inc. and Zilog, Inc. (filed as Exhibit 10.2 of the Company's Current Report on Form 8-K filed on July 19, 2022, Commission File No. 20388).	8-K	10.2	5/18/2022	0-20388



Exhibit No.	Description	Incorporated by Reference Herein			
		Form	Exhibit	Filing Date	File No.
10.58	First Amendment to 2016 Note Purchase Agreement, dated May 18, 2022, among Littelfuse, Inc., certain subsidiary guarantors, and the institutions party thereto (filed as Exhibit 10.3 of the Company's Current Report on Form 8-K filed on May 19, 2022, Commission File No. 20388).	8-K	10.3	5/18/2022	0-20388
10.59	First Amendment to 2016 Cross Border Note Purchase Agreement, dated May 18, 2022, among Littelfuse Netherland C.V., Littelfuse, Inc., certain subsidiary guarantors, and the institutions party thereto (filed as Exhibit 10.4 of the Company's Current Report on Form 8-K filed on May 19, 2022, Commission File No. 20388).	8-K	10.4	5/18/2022	0-20388
10.60	First Amendment to 2017 Note Purchase Agreement, dated May 18, 2022, among Littelfuse, Inc., certain subsidiary guarantors, and the institutions party thereto (filed as Exhibit 10.5 of the Company's Current Report on Form 8-K filed on May 19, 2022, Commission File No. 20388).	8-K	10.5	5/18/2022	0-20388
10.61	Amended and Restated Credit Agreement, dated as of June 30, 2022, by and among Littelfuse, Inc., certain subsidiaries of the company, as designated borrowers, certain subsidiaries of the company, as guarantors, the lenders party thereto and Bank of America, N.A., as agent, JPMorgan Chase Bank, N.A., as syndication agent, PNC Bank, National Association and BMO Harris Bank, N.A., as co-senior documentation agents, Wells Fargo Bank, National Association, as documentation agent, BofA Securities, Inc. as sole bookrunner and joint lead arranger, and JPMorgan Chase Bank, N.A., as joint lead arranger (filed as Exhibit 10.1 of the Company's Current Report on Form 8-K filed on June 30, 2022, Commission File No. 20388).	8-K	10.1	6/30/2022	0-20388
10.62*	Summary of Non-Employee Director Compensation.++				
21.1*	Subsidiaries.				
23.1*	Consent of Independent Registered Public Accounting Firm.				
31.1*	Certification of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				
31.2*	Certification of Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				
32.1+++	Certification of the Chief Executive Officer and Chief Financial Officer Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.				
101.INS*	XBRL Instance Document.				
101.SCH*	XBRL Taxonomy Extension Schema Document.				
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document.				
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document.				
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document.				
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document.				
104	The cover page on this Annual Report on Form 10-K for the fiscal year ended December 31, 2022, formatted in Inline XBRL and contained in Exhibit 101.				

\* Filed with this Report.

+ Exhibits and schedules omitted pursuant to Item 601(b)(2) of Regulation S-K. Littelfuse agrees to furnish a supplemental copy of an omitted exhibit or schedule to the SEC upon request.

++ Management contract or compensatory plan or arrangement.

+++ Furnished with this Report.



## EXECUTIVE OFFICERS

**DAVID W. HEINZMANN**

President and  
Chief Executive Officer

**MEENAL A. SETHNA**

Executive Vice President and  
Chief Financial Officer

**RYAN K. STAFFORD**

Executive Vice President,  
Mergers and Acquisitions,  
Chief Legal Officer and Corporate Secretary

**MAGGIE CHU**

Senior Vice President and  
Chief Human Resources Officer

**MATTHEW J. COLE**

Senior Vice President,  
eMobility and Corporate Strategy

**ALEXANDER CONRAD**

Senior Vice President and  
General Manager, Passenger Vehicle  
Business

**DEEPAK NAYAR**

Senior Vice President and  
General Manager, Electronics Business

## BOARD OF DIRECTORS

**KRISTINA A. CERNIGLIA**

Senior Vice President and  
Chief Financial Officer  
Briggs & Stratton

**TZAU-JIN CHUNG**

Founding Senior Partner  
Core Industrial Partners, LLC

**CARY T. FU**

Co-Founder and  
Retired Chairman  
Benchmark Electronics, Inc.

**MARIA C. GREEN**

Retired Senior Vice President and  
General Counsel  
Ingersoll-Rand plc

**ANTHONY GRILLO**

Founder  
Ascribe Opportunities Management, LLC

**DAVID W. HEINZMANN**

President and  
Chief Executive Officer  
Littelfuse, Inc.

**GORDON HUNTER**

Chairman of the Board  
Retired President and Chief Executive Officer  
Littelfuse, Inc.

**WILLIAM P. NOGLOWS**

Retired Chairman  
CMC Materials, Inc.

**DR. NATHAN ZOMMER**

Founder, former Chairman and  
Chief Executive Officer  
IXYS Corporation

## CORPORATE INFORMATION

### ANNUAL MEETING

The Annual Meeting of Littelfuse, Inc. will be held at 9:00 a.m. Central Daylight Time on April 27, 2023. This year's Annual Meeting will be a virtual meeting held via live webcast on the internet. Stockholders will be able to attend the Annual Meeting and submit questions during the live webcast by visiting [www.virtualshareholdermeeting.com/LFUS2023](http://www.virtualshareholdermeeting.com/LFUS2023) and entering the 16-digit control number included in the Notice of Internet Availability of Proxy Materials, on the proxy card or in the instructions that accompanied the proxy materials. Proxy materials and a copy of this report will be mailed or made available via the Internet in advance of the meeting to all stockholders of record as of February 28, 2023.

### COMMON STOCK

Littelfuse, Inc. common stock is traded on the NASDAQ® Global Select Market under the symbol LFUS.

### STOCKHOLDER INFORMATION

In addition to annual reports to stockholders, copies of the Company's filings with the Securities and Exchange Commission are available on the Investor Relations section of the Company's website at: [investor.littelfuse.com](http://investor.littelfuse.com).

### INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Grant Thornton LLP  
27777 Franklin Road  
Suite 800  
Southfield, MI 48034

### TRANSFER AGENT

EQ Shareowner Services  
1110 Centre Pointe Curve  
Suite 101  
Mendota Heights, MN 55120  
1.800.468.9716

### LITTELFUSE WORLD HEADQUARTERS

Littelfuse, Inc.  
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Chicago, IL 60631  
+1.773.628.1000

[Littelfuse.com](http://Littelfuse.com)



Expertise Applied | Answers Delivered

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