# UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

# **FORM 10-K**

ANNUAL REPORT PURSUANT TO SEC For the fis	FION 13 OR 15(d) OF TI cal year ended December		ANGE ACT OF 1934	
☐ TRANSITION REPORT PURSUANT TO S For the tran	or ECTION 13 OR 15(d) Ol sition period from		CHANGE ACT OF 19	934
Con	nmission file number 1-34	<u>679</u>		
Vishay I	Precision Gre	oup, Inc.		
· ·	of registrant as specified i	<b>.</b> /		
<b>Delaware</b> (State or other jurisdiction of organization incorporation or organization)		27-0986328 (IRS employer identification	on no.)	
	at Valley Parkway, Suite Malvern, PA 19355 ss of principal executive of			
(Registrant's t	484-321-5300 elephone number, includir	ng area code)		
Securities regis	tered pursuant to Section 1	2(b) of the Act:		
Common Stock, \$0.10 par value (Title of class)	<b>VPG</b> (Trading Symbol)	New York Sto (Exchange on w	ock Exchange which registered)	
Securities registered	l pursuant to Section 12(g)	of the Act: None		
Indicate by check mark if the registrant is a well-known seasoned is: Indicate by check mark if the registrant is not required to file reports			Yes □ No ⊠ Yes □ No ⊠	
<b>Note</b> – Checking the box above will not relieve any registrant requithose Sections.	red to file reports under Se	ection 13 or 15(d) of the Ex	change Act from their	obligations under
Indicate by check mark whether the registrant (1) has filed all report the preceding 12 months (or for such shorter period that the registrathe past 90 days. Yes $\blacksquare$ No $\square$				
Indicate by check mark whether the registrant has submitted electron Regulation S-T (§ 232.405 of this chapter) during the preceding 12 n Yes $\boxtimes$ No $\square$				
Indicate by check mark whether the registrant is a large accelerated f growth company. See definition of "accelerated filer", "large accele the Act. (Check one):				
Large accelerated filer □		ated filer 🗷		
Non-accelerated filer □		reporting company Dng growth company D		
If an emerging growth company, indicate by check mark if the regist new or revised financial accounting standards provided pursuant to So			iod for complying with	n any
Indicate by check mark whether the registrant has filed a report on an financial reporting under Section 404(b) of the Sarbanes-Oxley Act (report. $\boxtimes$				
Indicate by check mark whether the registrant is a shell company (as d	efined in Rule 12b-2 of the	Act). Yes 🗌 No 🗷		
The aggregate market value of the voting stock held by non-affiliate business day of the registrant's most recently completed second fis common stock held by non-affiliates into common stock of the regist	scal quarter (\$22.27 on Ju	ne 27, 2020), assuming cor	nversion of all of its C	

DOCUMENTS INCORPORATED BY REFERENCE

As of March 11, 2021, the registrant had 12,587,191 shares of its common stock and 1,022,887 shares of its Class B convertible common stock outstanding.

Portions of the registrant's definitive proxy statement, which will be filed within 120 days of December 31, 2020, are incorporated by reference into Part III of this Annual Report on Form 10-K.

#### From the Chairman of the Board

#### Dear Stockholders:

The resilience and dedication of the VPG team as well as the performance we achieved in a year in which the world faced the worst pandemic in more than 100 years made me very proud. Through the challenges and uncertainty presented by the pandemic, we implemented strict workplace protective measures, while continuing to focus on our customer commitments.

Our 2020 sales declined from the prior year, reflecting the impacts of the pandemic on many of our customers and the effect of government restrictions on our operation in India, although our sales increased in several other end markets. We also continued to invest in VPG's future growth and profitability and to execute on our long-term strategic initiatives, including completing the initial phases of a project to expand our production capability for our Advanced Sensor products. We expect this project to be completed in 2021 and to give us the needed capacity to support Advanced Sensors' long-term growth.

Our strong balance sheet, cash flow and capital allocation strategy served us well during the pandemic, and provide us with the means to continue our strategic investments to grow organically and to find additional attractive, high-quality businesses to enhance the VPG platform.

As the world continues to recover from the human, economic, and social impacts of the pandemic, we are very confident about the prospects ahead for VPG. Our sensors and sensors-based products and systems continue to make a difference in a myriad of applications that stretch across an array of industries.

I want to thank our customers, vendors, strategic business partners and stockholders for their continued support as well as all members of the VPG family for their hard work and dedication.

Sincerely,

Majoh

Marc Zandman

Chairman of the Board

#### From the President and CEO

#### Dear Stockholders:

Despite the challenges presented by the global pandemic, we achieved solid results for 2020 reflecting the strength of our business model, the diversity of our end markets, and the execution of our strategic initiatives.

For the full year of 2020, we achieved sales of \$269.8 million, operating income of \$22.7 million, or 8.4% of revenue, and diluted EPS of \$0.79. On an adjusted basis, we recorded an operating margin of 9.7%, EBITDA of \$38.0 million, and diluted EPS of \$1.32. We also generated \$35.3 million in cash from operations.

These results do not adequately reflect the many accomplishments we achieved this past year. To outline some of these: first, we responded quickly and decisively to the challenges of the pandemic, as we put in place measures to protect our employees and our customers. These measures included workplace distancing and enabling employees to work remotely if their jobs permitted it, restricting travel, as well as cost controls such as salary freezes.

Second, with the exception of our Force Sensors' operation, we continued to operate throughout the crisis, and were able to seamlessly serve our customers around the world.

Third, when a government-imposed lock-down in India significantly impacted our operation, we overcame numerous challenges to return to full production by the end of the third quarter.

Fourth, we continued to implement our long-term strategies and investments, which include our Advanced Sensors, TruckWeigh/VanWeigh, and Force Sensors' OEM growth initiatives, as well as our cost and efficiency programs across the organization. We were particularly pleased with the sales performance in our Advanced Sensors business which grew 41% in 2020 compared to 2019, as we moved forward with adding additional manufacturing capacity to support future growth of this business.

For 2021, we are continuing to execute our long-term growth and cost-savings initiatives. We are encouraged by the progress being made around the world regarding vaccinations and bringing the rate of COVID infections down. While there is much more to do, and there are many risks still remaining before the pandemic is fully under control, we believe that as the world and our markets return to normal we have the foundation and ongoing customer opportunities to achieve a year of growth and execution across our businesses.

Beyond our core business, we also continue to look for attractive acquisition opportunities to add additional high-quality, strategic businesses to the VPG platform that will further accelerate our growth and profitability.

Most importantly, I want to express our appreciation to the VPG employees and our customers around the world for their dedication and support during a turbulent and challenging 2020. As we continue to execute on our long-term strategic initiatives, we are excited about what lies ahead and the potential for enhancing stockholder value.

Sincerely,

Ziv Shoshani

President and Chief Executive Officer

Note: See our Annual Report on Form 10-K for the fiscal year ended December 31, 2020 and investor presentations on our website for reconciliations of financial measures presented under accounting principles generally accepted in the United States of America ("GAAP") to non-GAAP financial measures.

# Vishay Precision Group, Inc.

# Form 10-K for the year ended December 31, 2020

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#### PART I

#### **Item 1. BUSINESS DESCRIPTION**

#### General

Vishay Precision Group, Inc. ("VPG," the "Company," "we," "us" or "our") is an internationally recognized designer, manufacturer and marketer of sensors, and sensor-based measurement systems, as well as specialty resistors and strain gages based upon our proprietary technology. We provide precision products and solutions, many of which are "designed-in" by our customers, specializing in the growing markets of stress, force, weight, pressure, and current measurements. A significant portion of our products and solutions are primarily based upon our proprietary foil technology and are produced as part of our vertically integrated structure. We believe this strategy results in higher quality, more cost effective and focused solutions for our customers. Our products are marketed under a variety of brand names that we believe are characterized as having a very high level of precision and quality. Our global operations enable us to produce a wide variety of products in strategically effective geographic locations that also optimize our resources for specific technologies, sensors, assemblies, and systems.

The Company also has a long heritage of innovation in precision foil resistors, foil strain gages, and sensors that convert mechanical inputs into an electronic signal for display, processing, interpretation, or control by our instrumentation and systems products. Our advanced sensor product line continues this heritage by offering high-quality foil strain gages produced in a proprietary, highly automated environment. Precision sensors are essential to the accurate measurement, resolution and display of force, weight, pressure, torque, tilt, motion, or acceleration, especially in the legal-for-trade, commercial, and industrial marketplaces. This expertise served as a foundation for our expansion into strain gage instrumentation, load cells, transducers, weighing modules, and complete systems for process control and on-board weighing. Although our products are typically used in the industrial market, our advanced sensors have been used in a consumer electronics product and are being evaluated for other non-industrial applications.

The precision sensor market is integral to the development of intelligent products across a wide variety of end markets upon which we focus, including medical, agricultural, transportation, industrial, avionics, military, and space applications. We believe that as original equipment manufacturers ("OEMs") continue a drive to make products "smarter," they will integrate more sensors and related systems into their solutions to link the mechanical/physical world with digital control and/or response. We believe this offers a substantial growth opportunity for our products and expertise.

#### **Our History**

In 1962, Dr. Felix Zandman founded Vishay Intertechnology Inc. ("Vishay Intertechnology") to develop and manufacture the first generation of Bulk Metal® foil resistors and later, foil strain gages.

Resistors are basic components used in all forms of electronic circuitry to adjust and regulate levels of voltage and current. They vary widely in precision and cost, and are manufactured from numerous materials and in many forms. Bulk Metal foil resistors, developed by Dr. Zandman in the 1950's, are the most precise and stable type of resistors currently available. A strain gage is a resistive sensor that is attached to the surface of an object to determine the surface strain caused by an applied force.

Beginning in the 1960's, Vishay Intertechnology established itself as a technical and market leader in precision foil resistors, and foil strain gages. These innovations were the genesis of the foil technology that is a unique strategic competitive advantage of VPG. The subsequent innovations and advancement of foil resistance and strain gage technology opened the door to numerous commercial applications, such as force sensors and control systems on a vertical market basis.

On July 6, 2010, Vishay Intertechnology spun off its precision measurement and foil technology businesses through a tax-free stock dividend of VPG stock to Vishay Intertechnology's stockholders, and we became a publicly-traded company. In the decade prior to the spin-off, Vishay Intertechnology expanded our sensor and measurement business through acquisitions, extending our business from its initial focus on precision foil resistors and foil strain gages to include an array of sensor-based solutions. These solutions include transducers/load cells, which are force sensors combining strain gages and the metallic structures to which they are bonded; load cell modules that utilize electronic instrumentation and software for measuring the load cell output; and measurement instrumentation and complete systems for process control and on-board weighing.

In 2013, we completed our first acquisition as an independent public company when we acquired substantially all of the assets of the George Kelk Corporation ("KELK"). KELK engineers, designs and manufactures highly accurate optical and electronic roll force measurement and control equipment primarily used by metals rolling mills and mining applications throughout the world. As a part of our acquisition, we acquired a leased manufacturing, engineering, sales, and administrative facility in Toronto, Canada.

On December 30, 2015, we completed the acquisition of Stress-Tek, Inc. ("Stress-Tek") based in Kent, Washington. Stress-Tek designs and manufactures state-of-the-art, rugged and reliable strain gage-based load cells and force measurement systems. Stress-Tek primarily operates in North America, where their sensors and display systems are used in a wide range of industries, predominantly in transportation and trucking, for timber, refuse, aggregate, mining, and general trucking applications. Stress-Tek products are marketed under the Vulcan brand as part of the VPG Onboard Weighing offerings for our Weighing and Control Systems reporting segment. As a part of the Stress-Tek acquisition, we acquired ownership of a manufacturing, engineering, sales, administrative, and warehouse facility in Kent, Washington.

On April 6, 2016, we completed the acquisition of Pacific Instruments, Inc. ("Pacific Instruments") based in Concord, California. Pacific Instruments designs and manufactures high-performance signal conditioning, data acquisition and control systems and has extensive experience integrating these systems. Pacific Instruments sells primarily to the aerospace, commercial aviation and defense markets in the United States. Pacific Instruments products expanded the offerings of our Foil Technology Products reporting segment, which already offered data acquisition systems, primarily in the field of strain measurement. As a result of our acquisition, we acquired a leased manufacturing, engineering, sales and administrative facility in Concord, California.

On November 1, 2019, we completed the acquisition of New York-based Dynamic Systems Inc. ("DSI"), a provider of specialized dynamic thermal-mechanical test and simulation systems used to develop new metal alloys and optimize production processes. DSI is an established, high margin business, with a strong brand and has the largest installed base of products of its type in the world, according to market estimates. DSI expands our position in the steel market and offers opportunities for growth by leveraging our sales capabilities and market presence, and by expanding DSI's product line to address new opportunities. DSI will report into the Company's Weighing and Control Systems segment.

Our acquisitions added to our strong, diverse, global manufacturing, sales and distribution network, which includes facilities in Canada, China, France, Germany, India, Israel, Japan, Sweden, Taiwan, the United Kingdom, and the United States.

We were incorporated in Delaware on August 28, 2009. Our principal executive offices are located at 3 Great Valley Parkway, Suite 150, Malvern, PA 19355. Our main telephone number is 484-321-5300.

#### **Leverage Global Brand**

While our acquisitions provided us an array of strong brand names, in addition to our historical resistor and strain gage brands, we believe the continued success of our strategy is best served by the establishment of a strong overall global brand. The "VPG" brand leverages the strength of these historical brands under the umbrella of a unified, globally recognizable VPG name. We continue to broaden and emphasize the VPG brand in the markets we serve under the following brands for each of our business segments:

Foil Technology Products	Force Sensors	<b>Weighing and Control Systems</b>
VPG Foil Resistors	VPG Transducers	BLH Nobel
- Alpha Electronics	- Celtron	KELK
- Powertron	- Revere	VPG Onboard Weighing
- Vishay Foil Resistors	- Sensortronics	Dynamic Systems Inc.
Micro-Measurements	- Tedea-Huntleigh	
Pacific Instruments		

#### **Key Business Vision and Strategies**

Our vision is to be the leading provider of sensors, and sensor-based systems with the highest precision, quality, value, and service for measuring force (weight, pressure, torque, acceleration) and current. As part of that vision, we are a leading provider of foil specialty resistors and strain gages, which are particularly effective in precision measurement applications.

Our strategy is to achieve corporate growth and shareholder value by expanding our existing product portfolio organically, as well as by acquiring complementary precision measurement products. Specifically, we are focused on the following strategic initiatives:

#### Optimize Core Competence

The Company's core competency and key value proposition is providing customers with proprietary foil technology products and precision measurement sensors and sensor-based systems. Our foil technology resistors and strain gages are recognized as global market leading products that provide high precision and high stability over extreme temperature ranges, and long life.

Our force sensor products and our weighing and control systems products are also certified to meet some of the highest levels of precision measurements of force, weight, pressure, torque, tilt, motion, and acceleration. We continue to optimize all aspects of our development, manufacturing and sales processes, including by increasing our technical sales efforts; continuing to innovate in product performance and design; and refining our manufacturing processes.

Our foil technology research group developed innovations that enhance the capability and performance of our strain gages, while simultaneously reducing their size and power consumption as part of our advanced sensors product line. We believe this unique foil technology will create new markets as customers "design in" these next generation products in existing and new applications. Our development engineering team is also responsible for creating new processes to further automate manufacturing, and improve productivity and quality. Our advanced sensors manufacturing technology also offers us the capability to produce high-quality foil strain gages in a highly automated environment, which we believe results in reduced manufacturing and lead times, improved quality and increased margins. As a sign of our commitment to these businesses, we signed a long-term lease for a state of the art facility which has been constructed in Israel. Our administrative personnel have moved to the new facility, and we have begun the transition of our advanced sensors business to that facility.

We also seek to achieve significant production cost savings through the transfer, expansion, and construction of manufacturing operations in countries such as India, China, and Israel, where we can benefit from lower labor costs, improved efficiencies, or available tax and other government-sponsored incentives. For example, in 2019 we incurred restructuring expense related to closing and downsizing of facilities as part of the manufacturing transitions of our force sensor products to facilities in India and China, which marked key milestones in our ongoing strategic initiatives to align and consolidate our manufacturing footprint.

#### Organic Growth

Our product portfolio is focused, to a significant extent, on specialty products serving niche markets. The development of specialty products requires us to form long-term relationships with our customers. Our specialty products are usually designed, or engineered, to meet unique specifications for OEMs. This often results in our customers creating a non-standard part number used solely to designate our product on their bill of materials. We call this customer activity a "design win." This activity may create organic growth as the OEM customer begins to order increasing quantities to meet their production requirements, with little or no opportunity to purchase a similar part from competing suppliers. The "design in" time for these initiatives is typically 12 to 24 months.

We expect to continue to use our research and development, engineering, and product marketing resources to introduce new and innovative specialty products. An example of our success in this regard is the recent acceptance and growth of our on-board vehicle weighing solution incorporating microelectromechanical systems ("MEMS") technology. Our ability to react to changing customer needs, emerging markets, and industry trends will continue to be a key to our success.

Our design, research, and product development teams, in partnership with our marketing teams, drive our efforts to bring innovations to market. We intend to leverage our insights into customer demand to continually develop and roll out new, innovative products within our existing lines and to modify our existing core products in ways that make them more appealing, addressing changing customer needs and industry trends in terms of form, fit, and function.

# Growth from Acquisitions

We expect to continue to make strategic acquisitions where opportunities present themselves to grow our segments. Historically, our growth and acquisition strategy has been largely focused on vertical product integration, using our foil strain gages in our force sensor products, and incorporating those products into our weighing and control systems. The acquisitions of Stress-Tek and KELK, each of which employ our foil strain gages to manufacture load cells for their systems, continued this strategy. Additionally, the KELK acquisition resulted in the acquisition of certain optical sensor technology. The Pacific Instruments acquisition significantly broadened our existing data acquisition offerings and opened new markets for us. Our most recent acquisition, DSI, expands our position in the steel market. We expect to expand our expertise, and our acquisition focus, outside our traditional vertical approach to other precision sensor solutions in the fields of measurement of force, weight, pressure, torque, tilt, motion, and acceleration. We believe acquired businesses will benefit from improvements we implement to reduce redundant functions and from our current global manufacturing and distribution footprint.

# **Product Segments**

#### Foil Technology Products

The Foil Technology Products ("FTP") segment includes our foil resistor and strain gage operating segments. Foil resistor products offer superior precision, stability, and reliability. Our resistor portfolio encompasses a wide variety of configurations and packages designed to meet the requirements of even the most demanding applications. Typical applications for foil

resistors include high end test equipment and electronics for the aviation, military and space, semiconductor, process control, oil and gas, and medical markets. Typical applications for strain gages, which include advanced sensor gages, are stress analysis for structural testing in the aviation, military and space, infrastructure, and construction markets, along with force measurement and weighing markets. Our innovative advanced sensors product line enhances the capability and performance of our strain gages, while simultaneously reducing their size and power consumption. This segment also includes our data acquisition systems business.

The products in these segments are primarily based on our resistive foil technology, which continues to evolve and enables many products in both segments to be suited for new and varied applications.

The manufacturing of the foil material is a critical and common component of the Company's strain gage and precision foil resistor operating segments, and as a result, we experience synergies between our foil resistor and strain gage operating segments. The production cycles for foil resistors and strain gages are similar and many of the same raw materials are utilized in the manufacturing processes for both operating segments. The foil resistor and strain gage products require a similar level of labor and capital. However, the advanced sensors' manufacturing technology offers us the capability to produce high-quality foil strain gages in a highly automated environment, which we believe results in reduced manufacturing costs and lead times, higher quality, and increased margins.

Our Pacific Instruments business offers a broad range of high performance signal conditioning, data acquisition and control systems, many of which reach customers outside our traditional commercial customer base, such as U.S. government related customers.

A significant portion of products from the strain gage operating segment are sold to third parties as "standard catalog items"; the remainder of this operating segment's products are sold as non-standard and/or custom products to third parties and to our Force Sensors segment.

#### **Force Sensors**

The Force Sensors segment includes a broad line of load cells and force measurement transducers that are offered as precision sensors for industrial and commercial use. Typical applications for force sensors are in construction machinery (for stability control, overload protection), agricultural equipment (for precision force measurement), and medical devices (such as hospital beds and medication dosing). The heavy equipment market has begun to adopt force sensors technology as process control and equipment control features for their products. These sensors use our foil technology products, which serve as sensing elements and components within each unit. Further integration of our load cells technology is also offered as part of our weighing module products, which provide customers with a complete sensor assembly that may be used within a wide variety of digital transducers.

A majority of products from the Force Sensors segment are sold to third parties as "standard catalog items," but a growing sector of this segment's products are sold as non-standard and/or custom products to third parties. In addition, we sell products from this segment to our Weighing and Control Systems segment as well as to OEM manufacturers. Our sales teams act as direct sales channels (field application engineers ("FAEs")) utilizing the primary customer interface relating to initial design specifications, development of prototypes, and pricing/delivery of this segment's products. Distributors are also used for those customers that desire standard products.

# Weighing and Control Systems

The Weighing and Control Systems segment designs and manufactures complete systems comprised of mainly load cells and instrumentation for weighing and force control/measurement for a variety of uses, including process weighing, steel manufacturing, on-board weighing and overload monitoring. Typical applications for our weighing and control systems products are: process weighing of chemicals, food and pharmaceuticals; aircraft and truck weighing and overload protections; weight, force and process optimization and simulation in steel and paper mills; and force measurement for offshore oil and gas exploration.

Other major components that comprise our systems are: load cells, electronic displays; optical gages; laser systems; signal processors; MEMS sensors; cabling; system software; and communication software/hardware. The end use for the majority of these products is the precision measurement of force, weight, pressure, torque, tilt, motion, and acceleration. FAEs are utilized as the primary customer interface relating to initial design specifications, development of prototypes, and pricing/delivery of this segment's products. Distributors and sales agents are also used, as appropriate, to market, sell, and support certain products in this segment.

#### **Products**

Our precision sensor and sensor-based systems include products such as load cells, transducers, weighing modules, and complete systems for process control and on-board weighing applications. Our precision foil resistors and strain gages are based on our proprietary foil technology, which we invented. We manufacture and sell high precision foil resistors, foil strain gages, and data acquisition systems.

# Our product portfolio includes:

- Foil resistors Foil resistors are the most precise and stable type of resistors currently available. Resistors are basic components used in all forms of electronic circuitry to adjust and regulate levels of voltage and current. Our current sense resistors were developed with a low absolute TCR and Kelvin connections to meet the demand of stable resistive products
  - Our foil resistors are used in applications requiring a high degree of precision and stability, such as in the following market segments: Avionics/Military/Aerospace applications, Precision Weighing, Medical applications, Test & Measurements/ Semiconductors, Oil & Gas and Process Control. We sell our foil resistors under the Vishay Foil Resistors, Alpha Electronics, and Powertron brands, including under our well-known Bulk Metal® trademark. The ultra-precision technology also provides extremely low temperature coefficient resistance and exceptional long term stability through temperature extremes. To complement our extensive portfolio of high-performance foil resistors, we also offer decade boxes, standard resistors, exceptional precision thin film and power resistors including special construction configurations to meet the requirements of high temperature applications. We have a road map of new technology products to meet the required needs of our customers.
- Foil strain gages Strain gages, including our advanced sensors, are resistive sensors that are attached to the surface of an object to determine the surface strain caused by an applied force. Typical uses of strain gages include test and measurement applications where the strength of the object is the main consideration and the object under test is a structural component in a machine or device, such as an automobile, an aircraft, or a highway bridge. Strain gages are also used inside precision transducers where the magnitude of an applied force is the focus of the measurement. A variety of physical measurements can be made using strain gages attached to metal components including force, weight, pressure, displacement, and acceleration. We sell our strain gages under the well-known Micro-Measurements brand.
- Transducers, load cells, and modules A transducer is mounted on a structure that is subjected to weight or other forces, such as the platform of an industrial scale. The term "load cell" is primarily used to describe transducers used in weighing applications. Strain-gage based transducers consist of one or more strain gages bonded to a metallic support. The change in resistance of the strain gages in response to deformation of the transducer by the applied load is detected by electronic instrumentation. Transducers are manufactured with different designs and configurations depending on their application and the type of stress or strain to be measured; for example, weight or tension. We produce both analog and digital transducers. Modules are transducers combined with a mounting and with external features, such as instruments and cables, and are used for weighing and control applications. We sell our load cells and modules under the overall VPG Transducers name as we continue to transition from the previously used Celtron, Revere, Sensortronics, and Tedea-Huntleigh brands.
- Data acquisition systems Data acquisition systems, which include instruments to measure, process, digitize, display, and record the output of our strain gages, transducers, and other sensor or sensor-based systems as well as deliver information to control systems. Our acquisition of Pacific Instruments significantly expanded our previous instruments offerings.
- Weighing and control systems Weighing and control systems are integrated systems for the detection and measurement of weight and other types of force, primarily for use in industrial applications. These include systems to control process weighing in food, chemical, and pharmaceutical plants; force measurement systems used to control web tension in paper mills, roller force in steel mills, and cable tension in winch controls; on-board weighing systems installed in logging and waste-handling trucks; and special scale systems used for aircraft weighing and portable truck weighing. Our mechanical and thermal simulators are used for testing and developing various types of metals. With our acquisition of Stress-Tek, we enhanced and broadened our on-board weighing offerings with products that are recognized for high quality in their markets. With our acquisition of KELK, we added certain optical gages for control systems and enhanced our other product offerings for process control in the steel mill industry. With the acquisition of DSI, we broadened our offerings to the steel mill industry and to materials testing labs. We sell our systems under a variety of brand names including BLH Nobel, KELK, Gleeble, and VPG Onboard Weighing.

# Qualifications and Specifications

Certain of our products must be qualified or approved under various military and aerospace specifications and other standards.

We have qualified certain of our foil resistor and sensor products under various military specifications approved and monitored by the United States Defense Logistics Agency ("DLA"), under certain European military specifications, and various aerospace standards approved by the U.S. National Aeronautics and Space Administration ("NASA") and the European Space Agency ("ESA").

Qualification and specification levels are based in part upon the rate of failure of products. We must continuously perform tests on our products, and report the results for qualified products to the qualifying organization. If a product fails to meet the requirements for the applicable classification level, the product's classification may be suspended or reduced to a lower level. During the time that the classification is suspended or reduced, net revenues and earnings attributable to that product may be adversely affected.

Certain of our load cell and instrumentation products are approved by the National Type Evaluation Program ("NTEP") and International Organization of Legal Metrology ("OIML"). Many of our weighing systems must also meet these standards to make them usable for legal-for-trade weighing applications. Products and systems that are to be used in hazardous areas, where explosive atmospheres might exist, must comply with special safety standards, such as the European Atmosphère Explosible ("ATEX") Standard and the U.S. Factory Mutual ("FM") Standard. Our load cell manufacturing sites undergo periodic audits by regulatory authorities in order to verify compliance with standard requirements and to extend product approvals.

# **Manufacturing Operations**

Our principal manufacturing facilities are located in Israel, the United States, Canada, India, the People's Republic of China, Germany, and Japan. We also have manufacturing facilities in Sweden, the United Kingdom, the Republic of China (Taiwan), and France. Over the past several years, we have invested substantial resources to increase capacity and to enhance automation in our plants, which we believe will further reduce production costs.

We have quality management systems at all of our major manufacturing facilities approved under the ISO 9001 Quality Management Systems Standard. ISO 9001 is a comprehensive set of quality program standards developed by the International Organization for Standardization ("ISO"). The quality management system in our major foil resistors manufacturing site is certified against Aerospace Standard AS9100.

To maintain our cost competitiveness, we are pursuing our strategic initiatives to shift manufacturing emphasis to more advanced automation in higher-labor-cost regions and to relocate production to regions with skilled workforces and relatively lower labor costs. See additional information in Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations – Cost Management" related to our restructuring efforts.

#### **Sources of Supplies**

Although most materials incorporated in our products are available from a number of sources, certain materials are available only from a relatively limited number of suppliers. The principal materials used in our products include various metallic foil alloys, aluminum, stainless steel, tool steel, plastics, and for a few products, gold. Some of the most highly specialized materials for our sensors are sourced from a single vendor. We maintain a safety stock inventory of certain critical materials at our facilities. We are taking steps to determine the use, source, and origin of any tin, tantalum, tungsten, or gold in our global product portfolio and, if appropriate, would work with our suppliers to remediate issues and source more responsibly.

A significant portion of our Force Sensors and Weighing and Control Systems segment products are based on strain gages produced by our Foil Technology Products segment.

# **Inventory and Backlog**

We manufacture both standardized products and those designed and produced to meet customer specifications. We maintain an inventory of standardized components, and monitor the backlog of outstanding orders for our products.

We include in our backlog only open orders that have been released by the customer for shipment in the next twelve months. Many of our customers for strain gages, load cells, and foil resistors encounter uncertain and changing demand for their products. They typically order products from us based on their forecasts. If the customers' business needs change, they may cancel or reschedule the shipments that are included in our backlog, in many instances without the payment of any penalty. Therefore, the backlog at any point in time is not necessarily indicative of the results to be expected for future periods.

#### **Customers and Marketing**

Our customer base is diversified in terms of industry, geographic region, and range of product needs. No single customer comprises greater than 10% of net revenues. The vast majority of our products are used in the broad industrial market, with selected uses in the military and aerospace, medical, agricultural, steel, and construction sectors. Within the broad industrial market, our products serve a wide variety of applications in waste management, bulk hauling, logging, scales manufacturing, engineering systems, pharmaceutical, oil, chemical, steel, paper, and food industries.

Many of our products have historically been sold by dedicated sales forces, consisting mainly of FAEs focusing on specific market segments or specific customers. The FAEs help identify the products in our portfolio that best meet the needs of our customers and provide technical and applications support. Their in-depth knowledge of customer needs is a key factor in new product design and future research and development initiatives.

# Competition

Our competitive success depends on our ability to maintain a competitive advantage on the basis of superior product capability and performance, product quality, know-how, proprietary data, market knowledge, service capability, and business reputation. Price competitiveness can be an important factor, especially within our Force Sensors segment. Our sales and marketing programs offer our customers a broad range of world-class precision technologies, and superior global sales and support.

Competition in the markets where we sell the bulk of our products is extremely fragmented, both geographically and by application. To our knowledge, there are no competitors with the same product mix and proprietary technology as ours. Our competitors range from very small, local companies to large, international companies with greater financial resources than us.

Our foil resistors and our foil strain gages are based on our proprietary technology. Competitors try to compete in this market using different technology to offer functionally equivalent products. Examples of competition in our Foil Technology Products segment includes KOA, Bourns, Vishay Intertechnology, TT Electronics, Susumu, Isabellenhute, Caddock and Flat Dashi for foil resistors, and HBK, an operating company of Spectris, Tokyo Sokki Kenkyujo Co., Ltd (TML), Kyowa and Zemic for foil strain gages. Competitors in our Force Sensors segment include HBK, Zemic, Utilcell, and Flintec. Competitors in our Weighing and Control Systems segment include Hardy Instruments and Mettler-Toledo for process weighing; ABB, Siemens, Haehne, Dalian, IMS and Fuji for steel mill systems; and Air-Weigh, Vehicle Weighing Systems, MOBA, and AMCS for onboard weighing.

#### **Research and Development**

Many of our products, manufacturing techniques, and technologies have been invented, designed, and developed by our engineers and scientists. Special proprietary resistive metal foil is the most important material in both our foil resistors and our foil strain gages, and our research and development activities related to foil materials are an important linkage between these two products.

We maintain strategically placed design centers for each of our business segments where proximity to customers enables us to more easily monitor and satisfy the needs of local markets. These design centers are located in the United States, Israel, Canada, Sweden, Japan, the United Kingdom, and Germany.

We also maintain research and development staff, and promote programs at a number of our production facilities to develop new products and new applications of existing products, and to improve manufacturing techniques. This decentralized system encourages individualized product development at specific manufacturing facilities that occasionally has applications at other facilities.

Our research and development staff and our sales force are closely linked. Our sales force is comprised of individuals with an engineering background who can help meet the needs of our customers for technical and applications support. This in-depth knowledge of customer needs and specifications is a key factor in future research and development initiatives.

Research and development will continue to play a key role in our efforts to introduce innovative products for new sales, and to improve profitability. We expect to continue to expand our position as a leading supplier of precision foil technology products. We believe our R&D efforts should provide us with a variety of opportunities to leverage technology, products, and our manufacturing base and, ultimately, our financial performance. To that end, we expect to sustain or increase our R&D expenditures in order to fill the product development pipeline and lay the foundation for future sales growth.

# **Patents and Licenses**

We have made a significant investment in securing intellectual property protection for our technology and products. We seek to protect our technology by, among other things, filing patent applications for technology considered important to the

development of our business. Although we have numerous United States and foreign patents covering certain of our products and manufacturing processes, no particular patent is considered individually material to our business. We also rely upon trade secrets, unpatented know-how, and continuing technological innovation.

Our ability to compete effectively with other companies depends, in part, on our ability to maintain the proprietary nature of our technology. Although we have been awarded, have filed applications for, or have obtained numerous patents in the United States and other countries, there can be no assurance concerning the degree of protection afforded by these patents, or the likelihood that pending patents will be issued.

We require all of our technical, research and development, sales and marketing, and management employees, and most consultants and other advisors to execute confidentiality agreements upon the commencement of employment, or consulting relationships with us. These agreements provide that all confidential information developed, or made known to the entity or individual during the course of the entity's or individual's relationship with us, is to be kept confidential and not disclosed to third parties except in specific circumstances. Substantially all of our technical, research and development, sales and marketing, and management employees have entered into agreements providing for the assignment to us of rights to inventions made by them while employed by us.

# **Environmental, Health and Safety**

We have an Environmental, Health and Safety Policy that commits us to achieve health and safety for employees and protection of the environment, to maintain compliance with applicable environmental, health and safety laws, to promote proper management of hazardous materials, and to minimize the hazardous materials generated in the course of our operations. In addition, our manufacturing operations are subject to various regional, federal, state, and local laws restricting discharge of materials into the environment. Since we are subject to Environmental, Health and Safety laws worldwide we incur capital and operating expenditures and other costs to comply. We are not involved in any pending or threatened proceedings that would require curtailment of our operations.

The Company is in the process of designing, evaluating, and implementing a corporate Environmental, Social and Governance ("ESG") program and intends to complete a materiality assessment, scorecard and short and long-term objectives with deliverables starting in the second quarter of 2022.

#### **Human Capital**

As of December 31, 2020, we employed approximately 2,300 total employees, substantially all of which were full-time employees. Approximately 87% of our employees were located outside the United States. Our future success is substantially dependent on our ability to attract and retain highly qualified technical and administrative personnel. Some of our employees outside the United States are members of trade unions.

We support worldwide employment and promotion of diversity to innovate and drive long-term value, by continuous monitoring of compensation and benefits to assure competitiveness, while implementing a worldwide talent strategy that includes workforce planning and succession planning.

The impact of COVID-19 on our operations has been mitigated through the issuance of Guidelines for Manufacturing Safety, Travel Safety and Personal Protective Equipment sourcing to ensure employee and visitor, contractor safety and continuity of operations. We have had no employee strikes or work stoppages due to labor disputes and we consider our relationship with employees to be generally good, however, no assurance can be given that labor unrest or strikes will not occur. We continue to support employee's rights to collective bargaining and other recognized employee interests to organize.

#### **Information about our Executive Officers**

The following table sets forth certain information regarding our executive officers as of March 11, 2021:

Name	<u>Age</u>	<b>Positions</b>
Ziv Shoshani	54	Chief Executive Officer, President, and Director
William M. Clancy	58	Executive Vice President and Chief Financial Officer
Amir Tal	51	Senior Vice President and Chief Accounting Officer

Ziv Shoshani is our Chief Executive Officer and President, and also serves on the board of directors. Mr. Shoshani was Chief Operating Officer of Vishay Intertechnology from January 1, 2007 to November 1, 2009. During 2006, he was Deputy Chief Operating Officer of Vishay Intertechnology. Mr. Shoshani was Executive Vice President of Vishay Intertechnology from 2000 to 2009 with various areas of responsibility, including Executive Vice President of the Capacitors and the Resistors businesses, as well as heading the Measurements Group and Foil Divisions. Mr. Shoshani had been employed by Vishay Intertechnology

since 1995. He continues to serve on the Vishay Intertechnology board of directors. Mr. Shoshani is a nephew of the late Dr. Felix Zandman, the founder of Vishay Intertechnology.

William M. Clancy is our Executive Vice President and Chief Financial Officer. Mr. Clancy was Corporate Controller of Vishay Intertechnology from 1993 until November 1, 2009. He became a Vice President of Vishay Intertechnology in 2001 and a Senior Vice President of Vishay Intertechnology in 2005. Mr. Clancy served as Corporate Secretary of Vishay Intertechnology from 2006 to 2009. From June 16, 2000 until May 16, 2005 (the date Vishay Intertechnology acquired the noncontrolling interest in Siliconix incorporated), Mr. Clancy served as the principal accounting officer of Siliconix. Mr. Clancy had been employed by Vishay Intertechnology since 1988. Mr. Clancy is a licensed CPA in Pennsylvania.

Amir Tal is our Senior Vice President and Chief Accounting Officer. Mr. Tal was appointed by the board of directors to such position effective February 5, 2020. He served as the Company's Senior Vice President, Finance from March 2017 until February 2020. From July 2010 to February 2017, Mr. Tal served as the Company's Vice President Operational Controller and Regional Controller Israel. Mr. Tal holds a bachelor's degree in economics and business administration from the University of Haifa and an MBA from Bar Ilan University.

#### **Company Information and Website**

We began filing annual, quarterly, and current reports, proxy statements, and other documents with the Securities and Exchange Commission ("SEC") under the Securities Exchange Act of 1934 after our spin-off from Vishay Intertechnology on July 6, 2010. The SEC maintains an Internet website that contains reports, proxy and information statements, and other information regarding issuers, including us, that file electronically with the SEC. The public can obtain any documents that we file with the SEC at www.sec.gov.

In addition, our company website can be found on the Internet at www.vpgsensors.com. The website contains information about us and our operations. Copies of each of our filings with the SEC on Form 10-K, Form 10-Q, and Form 8-K, and all amendments to those reports, can be viewed and downloaded free of charge as soon as reasonably practicable after the reports and amendments are electronically filed with or furnished to the SEC. To view the reports, access http://ir.vpgsensors.com and click on "SEC Filings"/ "Documents."

The following corporate governance related documents are also available on our website:

- Compensation Committee Charter
- Nominating and Corporate Governance Committee Charter
- Audit Committee Charter
- Code of Business Conduct and Ethics
- Code of Ethics Applicable to the Chief Executive Officer, Chief Financial Officer, and Principal Accounting Officer or Controller
- Corporate Governance Principles

To view these documents, access http://ir.vpgsensors.com and click on "Corporate Governance."

To view our Ethics Program Reporting Procedures, access http://www.vpgsensors.com/company and click on "Ethics."

We are not incorporating by reference into this Annual Report on Form 10-K any material from our website.

Any of the above documents can also be obtained in print by any stockholder, upon request to our Investor Relations Department at the following address:

Corporate Investor Relations Vishay Precision Group, Inc. 3 Great Valley Parkway, Suite 150 Malvern, PA 19355

#### **Item 1A. RISK FACTORS**

You should carefully consider the following risks and other information in this Form 10-K in evaluating our company and common stock. Any of the following risks, as well as additional risks and uncertainties not currently known to us or that we currently deem immaterial, could materially and adversely affect our business, results of operations or financial condition, and could also adversely affect the trading price of our common stock.

#### **Risks Related to Our Business**

The COVID-19 outbreak has adversely impacted and could continue to adversely impact our results of operations.

The impact of the COVID-19 outbreak and the spread of the novel coronavirus on a global basis have adversely affected and are likely to continue to adversely affect our business in a number of respects, although the further extent, nature and timing of such impact cannot be predicted at this time. The COVID-19 outbreak has led countries around the world, as well as most states in the U.S., to implement restrictions relating to the operation of almost all types of businesses. The closure standards vary from jurisdiction to jurisdiction, but they typically require all but "critical", "essential" or "life-sustaining" businesses to close all offices and facilities. We believe, based on the various standards published to date, that our businesses meet the requisite standards to remain open, at least partially, in all jurisdictions in which we operate, although there is no assurance that our decision to remain open will not be challenged. As of the date of this filing, all of our manufacturing and other facilities are operating at adequate capacity while following procedures designed to prevent the spread of the virus, such as social distancing, reduced personnel and staggered shifts. Changing standards regarding what type of facilities are permitted to remain open, as well as evolving interpretations of existing standards, in both the United States and around the globe, could result in the closure of some or all of our facilities.

To date, our supply chain has not experienced significant disruptions, and at this time we do not anticipate any such significant disruptions in the near term. However, our suppliers could be required by government authorities to temporarily cease operations in accordance with the various restrictions discussed above, might be limited in their production capacity due to complying with restrictions relating to the operation of businesses during the COVID-19 pandemic, or could suffer their own supply chain disruptions, impacting their ability to continue to supply us with the quantity of materials required by us.

If as a result of the COVID-19 outbreak governments take additional protective actions, or extend the time period for existing protective actions, or the distribution and administration of the vaccines for COVID-19 are delayed or prolonged, such actions or events may have a material adverse impact on our business and operating results. This could include closures of our facilities or the closure of the facilities of our customers, suppliers, or other vendors in our supply chain. Any disruption of our supply chain or the businesses of our customers could adversely impact our business and results of operations. In addition, the widespread public health crisis caused by the COVID-19 outbreak has adversely impacted the economies and financial markets worldwide, resulting in an economic downturn that has adversely impacted many businesses, including ours. The extent and duration of the impact on the global economy and financial markets from COVID-19 is difficult to predict, and the extent to which the COVID-19 will negatively affect us and the duration of any potential business disruption is uncertain. The impact to our business and results of operation will depend to a large extent on future developments and new information that may emerge regarding the duration and severity of the COVID-19 outbreak and the actions taken by authorities and other entities to contain COVID-19 or treat its impact, and the impact of such actions, all of which are beyond our control. These potential impacts, while uncertain, could adversely affect our operating results.

#### We face intense competition in our business.

We face various degrees and types of competition throughout the world in our different businesses. In some cases our products compete directly with those of third party competitors. In other cases, competition in one segment, such as in our Weighing and Control Systems segment, may affect not only the sales of our systems within that segment, but also sales of products that we incorporate in those systems from other segments, such as load cells and strain gages.

We are a leading supplier of foil resistors and foil strain gages. Foil resistors and foil strain gages are also produced by competitors, principally located in China. We believe that our foil technology products provide superior performance relative to our competitors, but that could change if our competitors succeed in developing and introducing innovative competitive offerings. Also, our foil strain gages compete with other types of strain gages, such as semiconductor strain gages, which we do not manufacture. We believe that other types of strain gages are not as reliable or stable as our foil strain gages, but that could change as the technology for these other products continues to evolve. If our competitors are able to improve the quality, performance, or pricing of their products relative to our offerings, our results of operations could be adversely affected.

The market for transducer/load cell products is highly fragmented and very competitive. Our load cell modules and systems face competition from numerous other load cell module and systems manufacturers. Competition for modules and systems is most often based on customer relationships, product reliability, technical performance, and the ability to anticipate and satisfy customer needs for specific design configurations. Many other manufacturers have more experience in particular geographic

markets and specific applications than we do, and may be better positioned to compete in these areas. We cannot assure you that we will be able to successfully grow our business in the face of these competitive challenges.

#### Our vertical product integration exposes us to certain risks.

Our business structure emphasizes vertical product integration. For example our force sensor business is significant customer (by volume) for our strain gages. While we believe this has been, and will continue to be, a sound business structure, vertical product integration and the resulting interdependencies of our divisions exposes us to certain risks. As a consequence of our vertical integration, our force sensors business may compete with certain of our customers and potential customers for strain gages while our systems business may compete with certain of our customers and potential customers for force sensors, who, for that reason, may elect not to do business with us.

#### To remain successful, we must continue to innovate, and our investments in new technologies may not prove successful.

Our future operating results depend on our ability to continually develop, introduce, and market new and innovative products, to modify existing products, to respond to technological change, and to customize certain products to meet customer requirements. There are numerous risks inherent in this process, including the risks that we will be unable to anticipate the direction of technological change, that customers may be unwilling, or unable, to adopt the new products or methods of using them, that we will be unable to develop and market new products and applications in a timely fashion to satisfy customer demands, or that such products will experience quality or other qualification issues with our customers as they, and we, gain experience with qualifying them and using them. If this occurs, we could lose customers and experience adverse effects on our financial condition and results of operations.

We may not be successful in future acquisitions or other strategic transaction endeavors, if any, which could have an adverse effect on our business and results of operations.

Historically, we expanded our business in part by completing acquisitions, and an important element of our business strategy continues to be expansion through acquisition. We cannot assure that we will identify, have the financial capabilities to execute, and/or successfully complete strategic transactions with suitable partners in the future. We also cannot assure that any such transactions that we do complete in the future will be successful.

Such transactions, including our acquisition of DSI in November 2019, involve a number of risks, including the following:

- we may incur substantial costs, including advisory fees and diversion of management attention, in evaluating a potential transaction;
- we may be unable to achieve the anticipated benefits from the transaction;
- we may have difficulty integrating the operations, personnel and culture of an acquired business, and may have difficulty retaining the key personnel of the acquired business;
- we may have difficulty enforcing restrictive covenants against the seller of the acquired business or former employees or other personnel of the acquired business;
- we may have difficulty incorporating acquired technologies or products into our existing solutions;
- our ongoing business and management's attention may be disrupted or diverted by transition or integration issues, and the complexity of managing geographically and culturally diverse locations; and
- we may lose customers of those companies, or may lose our customers due to the change in control or for other reasons.

The factors noted above could have a material adverse effect on our business, results of operations, and financial condition or cash flows, particularly in the case of a larger acquisition. From time to time, we may enter into negotiations for acquisitions or investments that are not ultimately consummated. These negotiations could result in significant diversion of management time, as well as out-of-pocket costs.

# Future acquisitions may require us to incur or issue additional indebtedness or issue additional equity.

If we were to undertake future substantial acquisitions for cash, these acquisitions would likely need to be financed in part through bank borrowings, or the issuance of public or private debt. This acquisition financing would likely adversely affect certain credit metrics. Our revolving credit facilities require us to obtain the lenders' consent for certain additional debt financing and to comply with other covenants, including the application of specific financial ratios. We cannot assure that the necessary acquisition financing would be available to us on acceptable terms, if and when, required. If we were to make an acquisition with equity, the acquisition may have a dilutive effect on the interests of the holders of our common stock.

#### We may experience difficulties, delays, or unexpected costs in completing our cost reduction programs.

To remain competitive, particularly when business conditions are difficult, we sometimes take steps to reduce our cost structure by restructuring our existing businesses to achieve efficiencies, eliminate redundant functions, facilities and staff positions, and move operations, where possible, to reduce labor or other costs.

We may not realize, in full or in part, the anticipated benefits of these programs without encountering difficulties, which may include complications in the transfer of production knowledge, loss of key employees and/or customers, and the disruption of ongoing business. Any of these difficulties could delay and/or undermine our ability to realize the benefits of these cost reduction programs, as well as potentially adversely affecting our customer relationships and operations.

Our business is cyclical, and in periods of increased economic strength, we may experience intense demand for our products. If our cost reduction programs and related restructuring result in us not being able to satisfy our customer's demand for products during a rising economy, and our competitors sufficiently expand production, we could lose customers and/or market share. These losses could have an adverse effect on our operations, financial condition, and results of operations.

#### We may encounter difficulties in the implementation or operation of new enterprise resource planning systems.

We have implemented, and continue to implement, new enterprise resource planning ("ERP") systems in different parts of our business. ERP systems are integral to our ability to accurately and efficiently manage our manufacturing and sales activities, and provide critical business information to management. The implementation of an ERP system may cause us to incur additional costs, shipment delays, and related customer dissatisfaction; expend employee (including Company management) time and attention; and otherwise burden our internal resources. Any difficulties we encounter with the implementation or successful operation of an ERP system could damage the effectiveness of our business processes and could adversely impact our ability to accurately and effectively forecast and manage sales demand, manage our supply chain, and report management information on an accurate and timely basis, any of which could have a material adverse effect on our business and results of operations.

#### Our success is dependent upon our ability to protect our proprietary technology and other intellectual property.

We rely on a combination of the protections provided by applicable patent, trademark, copyright, and trade secret laws, as well as on confidentiality procedures and other contractual arrangements, to establish and protect our rights in our technology, and related materials and information. We enter into agreements with our customers and distributors. These agreements contain confidentiality and non-disclosure provisions, a limited warranty covering our products, and indemnification for the customer from infringement actions related to our products.

Despite our efforts, it may be possible for others to copy portions of our products, reverse engineer them, or obtain and use information that we regard as proprietary, all of which could adversely affect our competitive position. Furthermore, there can be no assurance that our competitors will not independently develop technology similar to ours. The laws of certain countries in which we manufacture do not protect our intellectual property ("IP") rights to the same extent as the laws of the United States. In the Office of the United States Trade Representative ("USTR") annual "Special 301" Report released in April 2020, the adequacy and effectiveness of intellectual property protection in a number of foreign countries were analyzed.

A number of countries in which we manufacture or do business in are identified in the report as being on the Priority Watch List or the Watch List. In China, for instance, the USTR is concerned about the urgent need to remediate a range of IP-related concerns, including trade secret theft, online piracy and counterfeiting, the high-volume manufacture and export of counterfeit goods, technology transfer requirements imposed as a condition to access the Chinese market, the mandatory application of adverse terms to foreign IP licensors, and IP ownership and research and development localization requirements. Structural impediments to administrative, civil, and criminal IP enforcement are also problematic. The USTR also expressed concern that in India there is a lack of sufficient measurable improvements to its IP framework on long standing and new challenges that have negatively affected U.S. right holders over the past year. Other countries in which we do business were also identified because of problems in intellectual property enforcement. The absence of harmonized intellectual property protection laws and effective enforcement makes it difficult to ensure consistent respect for patent, trade secret, and other intellectual property rights on a worldwide basis. As a result, it is possible that we will not be able to enforce our rights against third parties that misappropriate our proprietary technology in those countries.

# The success of our business is highly dependent on maintenance of intellectual property rights.

The unauthorized use of our IP rights may increase the cost of protecting these rights or reduce our revenues. We seek to protect trade secrets and our other proprietary technology, in part, by requiring each of our employees to enter into non-disclosure and IP assignment agreements. In these agreements, the employee agrees to maintain the confidentiality of all of our proprietary information and, subject to certain exceptions, to assign to us all rights in any proprietary information or technology made, or contributed, by the employee during his or her employment. Generally, we do not enter into non-compete arrangements with our employees, with the exception of certain executives and, in some cases, one or more of the principals of the businesses that we acquire.

All of these types of agreements may be breached or be found unenforceable, and we may not have an adequate remedy for any such breach of, or inability to enforce, these agreements. We may initiate, or be subject to, claims or litigation for infringement of proprietary rights, or to establish the validity of our proprietary rights, which could result in significant expense to us, cause

product shipment delays, require us to enter royalty or licensing agreements, and divert the efforts of our technical and management personnel from productive tasks, whether or not such litigation were determined in our favor.

# We may be exposed to product liability claims.

While our agreements with our customers and distributors typically contain provisions designed to limit our exposure to potential material product liability claims, including appropriate warranty, indemnification, damages waiver, and limitation of liability provisions, it is possible that such provisions may not be effective under the laws of some jurisdictions, thus exposing us to substantial liability. Moreover, defending a suit, regardless of its merits, could entail substantial expense, and require the time and attention of key management personnel. If product liability claims are brought against us, the costs associated with defending such claims may adversely affect our results of operations and future cash flows.

# We must expend significant resources to obtain design wins without assurance that we will be successful.

In many cases, we must initiate communication with our customers, and convince the customer that our products and systems will offer solutions for its business that are technically superior and more cost effective compared to their existing arrangements. To do so, we must often expend significant financial and human resources to develop technologically compelling products or systems with no guarantee that they will be adopted by our customers. The non-recurring engineering ("NRE") costs for product development in these cases could be substantial, and may adversely affect our profitability if we are unable to recover these costs.

Also, customers will often require a lengthy period of on-site testing before committing to purchase a product or system, during which period we will not receive material revenue from the customer. While a design win for our products and systems may result in a long period of recurring revenue during which we hope to recover our costs, we must often internally finance our development costs over significant time periods. If our products or systems fail to gain acceptance with our customers, we will be forced to absorb any NRE costs, which could adversely affect our business if these costs are substantial.

The long development times for certain of our products and systems may result in unpredictable fluctuations in revenue and results of operations.

Our force sensor products, and weighing and control systems, often have long product development cycles, both to develop the product or system and to secure customer acceptance following what may be a lengthy on-site testing period. During product development and testing, we may incur substantial costs without corresponding revenues. If our custom product or system is ultimately accepted by the customer, we may then begin to realize substantial revenues from our development efforts.

In particular, our weighing and control systems can be priced for several hundred thousand dollars per unit, so that a contract to acquire one or more units can materially contribute to our revenues during the period or periods that we are permitted to recognize the contract revenues for accounting purposes. The nature of our weighing and control products and systems, and in particular, the products and systems manufactured by the steel business, may therefore result in substantial fluctuations in our operating results, including revenues and profitability, from period to period, even though there has been no fundamental change in our business or its prospects. Further, customers may request a delay in shipping a product they have ordered due to changes in their business needs, which may delay the revenue recognition for the product until shipment occurs. This may make it difficult for investors to undertake period-to-period comparisons of our performance. Also, the fluctuating nature of key components of our revenues may limit the visibility of our management regarding performance in future periods, and make it more difficult for our management to provide guidance to our investors.

# We may not have adequate facilities to satisfy future increases in demand for our products.

Our business is cyclical and in periods of a rising economy, we may experience intense demand for our products. During such periods, we may have difficulty expanding our manufacturing capacity to satisfy demand. Factors which could limit such expansion include delays in procurement of manufacturing equipment, shortages of skilled personnel, and physical constraints on expansion at our facilities. If we are unable to meet our customers' requirements and our competitors sufficiently expand production, we could lose customers and/or market share. These losses could have an adverse effect on our financial condition and results of operations. Also, capacity that we add during upturns in the business cycle may result in excess capacity during periods when demand for our products recedes, resulting in inefficient use of capital, adversely affecting our business.

#### The nature of the market for our products may render them particularly susceptible to downturns in the economic environment.

Our products are designed to replace and provide superior functionality over existing product infrastructure utilized by our customers. Often, it is only after introductory demonstrations by our sales and engineering teams that our customers come to appreciate the advantages of our products and systems, and the long-term benefits of their adoption. An economic downturn or extended period of economic uncertainty may make customers less receptive to adopting new technological solutions at our suggestion - even ones with demonstrated operational and financial advantages. During these periods, customers may defer, or even cancel, orders for products and systems for which they have previously contracted, or given indications of interest.

Also, because our business is concentrated largely in the industrial sector, we do not benefit from countervailing fluctuations in consumer demand. As a result, our business may be more significantly affected by the consequences of a general economic slowdown than other segments of our industry, and may also take longer to recover from the effects of a slowdown.

#### Our backlog is subject to customer cancellation.

Many of the orders that comprise our backlog may be canceled by our customers without penalty. Our customers, particularly for our foil technology products, often cancel orders when business is weak and inventories are excessive, a situation that we have previously experienced during periods of economic slowdown. Therefore, we cannot be certain that the amount of our backlog accurately forecasts the level of orders that will ultimately be delivered. Our results of operations could be adversely impacted if customers cancel a material portion of orders in our backlog.

#### The complexity of our sophisticated weighing and control systems may require costly corrections if design flaws are found.

Our weighing and control systems combine sophisticated electronic hardware and computer software. We believe that the sophistication of our systems contributes to their competitive advantage over similar products offered by other system integrators. We go to substantial lengths to assure that our systems are free of design flaws when they are delivered to our customers for installation and testing. However, due to the systems' complexity, design flaws may occur and require correction. If the requisite corrections are substantial, or difficult to implement due to the systems' complexity, we may not be able to recover the costs of correction and retesting, with the result that our profit margins on these systems could be substantially reduced, or even negated by losses, and our results of operations could be materially and adversely affected.

# Our results are sensitive to raw material availability, quality, and cost.

Although most materials incorporated in our products are available from a number of sources, certain materials are available only from a relatively limited number of suppliers. We generally maintain a supply of strategic raw materials for continuity and risk management. Our customers would need significant advance notification to qualify alternative materials, if we had to use them. Alternative suppliers are available worldwide for most of our raw materials, but significant time (up to 12 months) would be required to qualify new suppliers and establish efficient production scheduling.

# <u>Certain metals used in the manufacture of our products are traded on active markets, and can be subject to significant price volatility.</u>

Our results of operations may be materially and adversely affected if we have difficulty obtaining certain raw materials, if the quality of available raw materials deteriorates, if there are significant price changes for these raw materials, or if compliance with the laws and regulations described below proves costly and time-consuming. For periods in which the prices of these raw materials are rising, we may be unable to pass on the increased cost to our customers, which would result in decreased margins for the products in which they are used. For periods in which the prices are declining, we may be required to write down our inventory carrying cost of these raw materials, since we record our inventory at the lower of cost or market. Depending on the extent of the difference between market price and our carrying cost, this write-down could have a material adverse effect on our net earnings. We also may need to record losses for adverse purchase commitments for these materials in periods of declining prices.

Pursuant to the SEC's "conflict minerals" rules, reporting companies that determine that certain metals, dubbed "conflict minerals" by the SEC (which include tantalum, gold, tin, and tungsten sourced from the Democratic Republic of the Congo or adjoining countries), are necessary to the functionality or production of a product they manufacture, or contract to have manufactured, must file a specialized disclosure form with the SEC. We use raw materials that are subject to conflict minerals rules. The compliance with the SEC's related disclosure requirements may affect the sourcing and availability of minerals used in the manufacture of our products. Also, because our supply chain is complex, we may face reputational challenges with our customers and other stakeholders if we are unable to materially verify the origins of all "in scope" metals used in our products.

# Our product sales may be adversely affected by changes in product classification levels under various qualification and specification standards.

Certain of our products must be qualified or approved under various military and aerospace specifications and other standards. We have qualified certain of our foil resistor products under various military specifications approved and monitored by the DLA, and under certain European military specifications, and various aerospace standards approved by NASA and the ESA. Qualification and specification levels are based in part upon product failure rate. We must continuously perform tests on our products, and for products that are qualified, the results of these tests must be reported to the qualifying organization. Certain of our force sensor products are approved by the NTEP and OIML. Our on-board weighing systems must meet approved standards to make them legal-for-trade. If a product fails to meet the requirements for the applicable classification level or other approval, the product's classification or approval may be suspended or reduced to a lower level. During the time that the classification is suspended or reduced to a lower level, net revenues and earnings attributable to that product may be adversely affected.

Failure to maintain effective internal control over financial reporting could adversely affect our ability to meet our reporting requirements.

Effective internal control over financial reporting is necessary for us to provide reasonable assurance with respect to our financial reports, and to effectively prevent fraud. Internal control over financial reporting may not prevent or detect misstatements because of inherent limitations, including the possibility of human error, the circumvention or overriding of controls, or fraud. Therefore, even effective internal control over financial reporting can provide only reasonable assurance with respect to the preparation and fair presentation of financial statements. If we cannot provide reasonable assurance with respect to our financial reports and effectively prevent fraud, our operating results could be harmed. In the past, we experienced a material weakness in our internal control over financial reporting related to deficiencies in our internal control structure arising out of our significant change in size, complexity and structure due to multiple restructurings and acquisitions. We have since remediated the material weakness through updates to our control activities documentation and process in numerous locations and improved processes related to monitoring of the design and effectiveness of internal controls. If we fail to maintain the effectiveness of our internal control over financial reporting, including any failure to implement required new or improved controls, or if we experience difficulties in their implementation, our business and operating results could be harmed, we could fail to meet our reporting obligations, and there could be a material adverse effect on our stock price.

Future changes in our environmental liability and compliance obligations may harm our ability to operate or increase costs.

Our manufacturing operations, products and/or packaging are subject to environmental laws and regulations governing air emissions, wastewater discharges, the handling, disposal, and remediation of hazardous substances, wastes, and certain chemicals used or generated in our manufacturing processes, workplace health and safety labeling, or other notifications with respect to the content, or other aspects of our processes, products or packaging, restrictions on the use of certain materials in or on design aspects of our products or packaging, and responsibility for disposal of products or packaging. New liabilities could arise, and we may have unavoidably inherited certain pre-existing environmental liabilities, generally based on successor liability doctrines. Although we have never been involved in any environmental matter that has had a material adverse impact on our overall operations, there can be no assurance that in connection with any past or future operation, acquisition or otherwise, we will not be obligated to address environmental matters that could have a material adverse impact on our operations. In addition, more stringent environmental regulations may be enacted in the future, and we cannot presently determine the modifications, if any, in our operations that any such future regulations might require, or the cost of compliance with these regulations.

Our credit facilities subject us to financial and operating restrictions.

We maintain a revolving credit facility with banks that we use, or may use, for working capital, acquisition financing, and other purposes. This credit facility subjects us to certain restrictions which may affect, and in some cases significantly limit or prohibit, among other things, our ability to:

- borrow additional funds;
- pay dividends or make other distributions;
- repurchase our common stock;
- make investments, including capital expenditures;
- complete acquisitions;
- engage in transactions with affiliates or subsidiaries; or
- create liens on our assets.

Our credit facility requires us to maintain certain financial ratios. If we fail to comply with the covenant restrictions contained in the credit facility, that failure could result in termination of the facility, and all amounts outstanding could become immediately payable.

A significant portion of our cash and cash equivalents and short-term investments balances are held by our non-U.S. subsidiaries.

We generate a significant amount of cash and profits from our non-U.S. subsidiaries. As of December 31, 2020, \$88.8 million of our cash and cash equivalents and short-term investments were held by subsidiaries outside of the United States. Any repatriation of such funds could incur local withholding tax in the source and intervening foreign jurisdictions. These amounts could also be subject to certain U.S. state taxes.

Changes in our tax rate or exposure to additional income tax liabilities could affect our profitability. In addition, audits by tax authorities could result in additional tax payments for prior periods.

We are subject to income taxes in the U.S. and in various foreign jurisdictions. Domestic and international tax liabilities are subject to the allocation of income among various tax jurisdictions. Our effective tax rate can be affected by changes in the mix of earnings in countries with differing statutory tax rates (including as a result of business acquisitions and dispositions), changes in the valuation of deferred tax assets and liabilities, accruals related to contingent tax liabilities, the results of audits and examinations of previously filed tax returns, and changes in tax laws.

Any of these factors may adversely affect our tax rate and decrease our profitability. The amount of income taxes we pay is subject to audit by U.S. federal, state, local, and foreign tax authorities. If these tax audits result in assessments, our future results may be unfavorably impacted.

As a global business, we have a complex tax structure, and there is a risk that the tax authorities will disagree with our transfer pricing.

We are subject to complex transfer pricing regulations in the U.S. and foreign countries in which we operate. Transfer pricing regulations generally require that transactions between related companies be determined comparable to transactions on an arm's length basis and that contemporaneous documentation be maintained to support the pricing used. Although transfer pricing standards are generally similar in many of the countries in which we operate, there is still a relatively high degree of uncertainty and inherent subjectivity in complying with these requirements. This topic has received additional scrutiny in recent years, including the Organization for Economic Co-operation and Development's Base Erosion and Profit Shifting project. To the extent that any tax authority disagrees with our transfer pricing practices, we could incur significant costs to defend our position and could be subject to significant additional tax liabilities, interest, and penalties.

We may not be able to realize our deferred tax assets which would adversely impact tax expense in future periods.

We regularly assess the ability to realize deferred tax assets in each jurisdiction in which we operate based on a number of factors, including historic operating results, estimates of future earnings, the economic environment, the nature and character of the income, and the existence of cost effective tax planning strategies. This assessment requires significant judgment. If we determine that deferred tax assets are not "more likely than not" to be realized, we record a valuation allowance to reduce deferred tax assets to a level that is expected to be realized. If we subsequently determine that realization becomes "more likely than not", a valuation allowance will be reversed. Any increase or decrease in our valuation allowances could have a significant impact on our financial results.

We use the mark Vishay under license from Vishay Intertechnology, which could result in product and market confusion.

We use the mark *Vishay* as part of our name and in connection with many of our products. Our use of the *Vishay* mark is governed by an agreement between us and Vishay Intertechnology, giving us a perpetual, royalty-free, worldwide license for the use of the mark. We believe that it is important that we continue the use of the *Vishay* name, to a certain extent, in order to benefit from the reputation of the *Vishay* brand, which was first used in connection with our foil resistors and strain gages when Vishay Intertechnology was founded over 50 years ago.

There are risks associated with our use of the *Vishay* mark, however, both for us and for Vishay Intertechnology. Because both we, and Vishay Intertechnology, use the *Vishay* mark, confusion could arise in the market regarding the products offered by the two companies, and there could be a misplaced perception of our continuing to be associated with Vishay Intertechnology. Also, any negative publicity associated with one of the two companies in the future could adversely affect the public image of the other. Finally, Vishay Intertechnology will have the right to terminate the license agreement, in certain extreme circumstances, if we are in material and repeated breach of the terms of the agreement, which would likely have an adverse effect on us and our business.

#### Risks relating to our operations outside the United States

We attempt to improve profitability by operating in countries in which manufacturing efficiencies may be achieved, but the shift of operations to these regions may entail considerable expense.

Our strategy is aimed at achieving significant production cost savings through the transfer and expansion of manufacturing operations to and in countries in which we have existing capacity, as well as countries with lower production costs or other benefits, such as India. During this process, we may experience under-utilization of certain plants and factories in higher-cost regions, and capacity constraints in plants and factories located in lower-cost regions. Also, we may experience delays in the expected transition from a higher-cost location to a lower-cost one that results in greater than expected use of the higher-cost facility. This transitional utilization may result initially in production inefficiencies and higher costs. These costs include those associated with compensation in connection with workforce reductions and plant closings in the higher-cost regions, start-up expenses, manufacturing and construction delays, and increased depreciation costs in connection with the initiation or expansion of production in lower-cost regions. In addition, as we implement transfers of certain of our operations, we may experience strikes or other types of labor unrest as a result of layoffs or termination of our employees in higher-cost countries.

In connection with the transfer of manufacturing operations to lower-cost countries, and upgrading of existing facilities in higher-cost countries, we are also increasing the level of automation in our plants to optimize our capital and labor resources in production, inventory management, quality control, and warehousing. Although we have substantial experience with automation in several of our plants in higher-cost countries, there are risks in automating plants which previously did not use a significant amount of automation, including the possibility of inefficiencies and higher operating costs in the transition from manual to automated operations. If the transition extends longer than anticipated, we could suffer product yield inefficiencies, contributing to higher product costs and increasing the time it will take for us to achieve a return on our investment in the capital equipment involved in the automation process. Furthermore, any layoffs or termination of our employees as a result of increased automation may lead to strikes or other types of labor unrest. If we experience these types of inefficiencies, they could have an adverse effect on our operating results, customer relationships, and financial condition.

We conduct a significant amount of business in the European Union, including in England, and our operations may be affected by the departure of the United Kingdom from the European Union.

On June 23, 2016, the citizens of the United Kingdom approved a referendum to leave the European Union ("Brexit"), which led to significant market volatility around the world, as well as political, economic and legal uncertainty. In addition, the Brexit vote triggered a devaluing of the pound sterling relative to the euro and the U.S. dollar, and in Europe we generally sell our products and incur expense in local currencies including the pound sterling and the euro, but incur exchange rate gains and losses for U.S. dollar denominated assets and liabilities including intercompany and third-party accounts receivables and payables. This exposure to movements in foreign currency exchange rates relative to some of these U.S. dollar denominated balances may result in an adverse impact on our results of operations.

The long-term nature of the United Kingdom's relationship with the European Union is unclear and there is considerable uncertainty when any relationship will be agreed and established. Withdrawal from the European Union is controversial in the United Kingdom notwithstanding the 2016 vote. In January 2020, the United Kingdom and the European Union approved of an agreement between the United Kingdom and the European Union, and the United Kingdom officially departed from the European Union. On February 1, 2020, the United Kingdom entered into a transition and implementation period, during which all European Union laws regulations, court decisions, trading agreements and other obligations continue to apply to the United Kingdom. As of January 1, 2021, the United Kingdom and the European Union entered into a Trade and Cooperation Agreement that included a Free Trade Agreement. At this stage, it is uncertain what the effects of the Trade and Cooperation Agreement will be on our United Kingdom and European operations in fiscal 2021 and beyond, and it is possible that the Trade and Cooperation Agreement or other agreements entered into between the United Kingdom and other jurisdictions could impair our ability to transaction business in the United Kingdom or countries in the European Union.

Significant developments from the recent and potential changes in tariffs, trade regulation or other restrictions may adversely impact our business, financial condition and results of operations.

We have manufacturing operations in China, Europe, Canada, Israel and the United States, as well as in other countries. Significant tariffs or other restrictions which are placed on Chinese, European, Canadian or Israeli imports to the United States, or any related counter-measures which are taken by the countries involved, may materially harm our revenues and results of operations. Examples of past actions are Section 232 tariffs on steel and aluminum product imports announced by the U.S. Department of Commerce in March 2018, and Section 301 tariffs on certain products that originate in China announced by the United States Trade Representative that first started in June 2018 and now are in four separate lists with varying tariff increases.

These tariffs, or other changes in U.S. trade policy, could trigger retaliatory actions by affected countries. Certain foreign governments have instituted or are considering imposing trade sanctions on certain U.S. goods. We cannot predict future trade policy or the terms of any renegotiated trade agreements and their impacts on our business. The adoption and expansion of trade restrictions, the occurrence of a trade war, or other governmental actions related to tariffs, quotas, duties, taxes or trade agreements or policies has the potential to adversely impact demand for our products, our costs, our customers, and our suppliers, which in turn could adversely impact our business, financial condition and results of operations.

We are subject to the risks of political, economic, health, and military instability in countries outside the United States in which we operate.

Some of our products are produced in Israel, India, China, and other countries which are particularly subject to risks of political, economic, health and military instability. This instability could result in wars, riots, nationalization of industry, currency fluctuations, and labor unrest or unavailability. These conditions could have an adverse impact on our ability to manufacture, ship and operate in these regions and, depending on the extent and severity of these conditions, could result in a reduction in customer orders and sales to certain regions and end-markets and materially and adversely affect our overall financial condition and operating results.

We have principal manufacturing facilities and operations located in Israel. Accordingly, our business will be directly influenced by the political, economic and military conditions affecting Israel at any given time. Since the establishment of the State of Israel in 1948, a number of armed conflicts have occurred between Israel and its neighboring countries. We have never experienced any material interruption in our operations attributable to these factors, in spite of several Middle East crises, including wars. A change in the security and political situation in Israel and in the economy could have a material adverse effect on our business, operating results and financial condition.

Operational difficulties, including those associated with our new facility in Israel, could adversely impact our business.

In 2019, we entered into a long-term lease for a newly-constructed 121,400 square foot facility in Israel, as part of a strategic initiative to expand the manufacturing capacity of our advance sensors product line. We have begun to transition certain of our manufacturing operations in Israel into this facility, and we expect to complete this transition in 2021. Any delay in transitioning our operations could adversely affect our future business and results of operations. We cannot guarantee that the consolidation of operations in Israel will be completed successfully, without delays or on the terms that we currently expect.

#### We are subject to foreign currency exchange rate risks which may impact our results of operations.

We are exposed to foreign currency exchange rate risks, particularly due to market values of transactions in currencies other than the functional currencies of certain subsidiaries.

Our significant foreign subsidiaries are located in the United Kingdom, Canada, Germany, Israel, Japan, and India. Our operations in Europe, Canada and certain locations in Asia primarily generate and expend cash in local currencies. Our operations in Israel and certain locations in Asia primarily generate cash in U.S. dollars, but these subsidiaries also have significant transactions in local currencies. Our exposure to foreign currency exchange rate risk is more pronounced in situations such as our operations in Canada, India, Israel, and China - where costs, such as production labor costs are predominantly paid in local currencies while the sales revenue for those products is predominantly denominated in U.S. dollars.

As of December 31, 2020, we did not have in place any arrangements to mitigate or hedge against exposures relating to fluctuations in foreign currency exchange rate.

A change in the mix of the currencies in which we transact our business could have a material effect on results of operations. Furthermore, the timing of cash receipts and disbursements could have a material effect on our results of operations, particularly if there are significant changes in exchange rates in a short period of time.

#### Our global operations are subject to extensive anti-corruption laws and other regulations.

The U.S. Foreign Corrupt Practices and similar foreign anti-corruption laws generally prohibit companies and their intermediaries from making improper payments or providing anything of value to improperly influence foreign government officials for the purpose of obtaining or retaining business, or obtaining an unfair advantage. Recent years have seen a substantial increase in the global enforcement of anti-corruption laws. Our continued operation and expansion outside the United States, including in developing countries, could increase the risk of such violations under other regulations relating to limitations on or licenses required for sales made to customers located in certain countries. Violations of these laws may result in severe criminal or civil sanctions, could disrupt our business, and result in a material adverse effect on our reputation, business and results of operations or financial condition.

# **Risks Relating to Our Common Stock**

# The holders of Class B convertible common stock have effective voting control of our company.

We have two classes of common stock: common stock and Class B convertible common stock. The holders of common stock are entitled to one vote for each share held, while the holders of Class B convertible common stock are entitled to 10 votes for each share held. The ownership of Class B convertible common stock is highly concentrated, and holders of Class B convertible common stock effectively can cause the election of directors and the approval/or disapproval of other matters requiring stockholder approval. Mrs. Ruta Zandman, the wife of the late founder of our technology, Dr. Felix Zandman, controls the voting of, solely or on a shared basis with Marc Zandman (the Chairman of our Board of Directors) and Ziv Shoshani (our Chief Executive Officer and a member of our Board of Directors), approximately 76.9% of our Class B convertible common stock, representing 34.5% of the total voting power of our capital stock as of December 31, 2020. Holders of our Class B convertible common stock may act in ways that are contrary to, or not in the best interests of, holders of our common stock. The voting rights of the holders of our Class B convertible common stock effectively give such holders the ability to prevent transactions that would result in a change in control of us, including transactions in which holders of our common stock might otherwise receive a premium for their shares over the then-current market price.

Certain provisions of our certificate of incorporation and bylaws may reduce the likelihood of any unsolicited acquisition proposal or potential change of control that you might consider favorable.

Our bylaws contain provisions that could be considered "anti-takeover" provisions because they make it harder for a third party to acquire us without the consent of our incumbent board of directors. Under these by-law provisions:

- stockholders may not change the size of the board of directors or, except in limited circumstances, fill vacancies on the board of directors;
- stockholders may not call special meetings of stockholders;
- stockholders must comply with advance notice provisions for nominating directors or presenting other proposals at stockholder meetings; and
- our Board of Directors, may without stockholder approval, issue preferred shares and determine their rights and terms, including voting rights, or adopt a stockholder rights plan.

These provisions could have the effect of discouraging an unsolicited acquisition proposal or delaying, deferring, or preventing a change of control transaction that might involve a premium price or otherwise be considered favorable by our stockholders.

#### **General Risk Factors**

We might require additional capital to support business growth and this capital might not be available.

We intend to continue to make investments to support our business growth and may require additional funds to respond to business challenges or opportunities, including the need to develop new offerings or enhance our existing offerings, enhance our operating infrastructure, or acquire complementary businesses and technologies. Accordingly, we may need to engage in equity or debt financings to secure additional funds. If we raise additional funds through further issuances of equity or convertible debt securities, our existing stockholders could suffer significant dilution, and any new equity securities we issue could have rights, preferences, and privileges superior to those of holders of our common stock. Any debt financing secured by us in the future could involve additional restrictive covenants relating to our capital raising activities and other financial and operational matters, which may make it more difficult for us to obtain additional capital and to pursue business opportunities, including potential acquisitions.

In addition, we may not be able to obtain additional financing on terms favorable to us, if at all. If we are unable to obtain adequate financing or financing on terms satisfactory to us, when we require it, our ability to continue to support our business growth and to respond to business challenges could be significantly limited.

Our future success is substantially dependent on our ability to attract and retain highly qualified technical, managerial, marketing, finance, and administrative personnel.

The competitive environment of our business requires us to attract and retain highly qualified personnel to develop technological innovations and bring them to market on a timely basis. Our complex operations also require us to attract and retain highly qualified administrative personnel in functions such as legal, tax, accounting, business development, financial reporting, and treasury. The market for personnel with such qualifications is highly competitive. We have not entered into employment or non-competition agreements with many of our key personnel.

The loss of the services of, or the failure to effectively recruit, qualified personnel, including for key executive positions, could have a material adverse effect on our business.

We are exposed to, and may be adversely affected by, interruptions to our computer and information technology systems and sophisticated cyber-attacks.

We rely on our information technology systems and networks in connection with many of our business activities. Some of these networks and systems are managed by third party service providers and are not under our direct control. Our operations routinely involve receiving, storing, processing, and transmitting sensitive information pertaining to our business, customers, suppliers, employees, and other sensitive matters. Any cyber incidents could materially disrupt operational systems; result in loss of trade secrets or other proprietary or competitively sensitive information; compromise personally identifiable information regarding customers or employees; and jeopardize the security of our facilities. 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, we 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 us to legal or regulatory sanctions, or damage our reputation with customers, suppliers, and other stakeholders. We continuously seek 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 our competitive position, reputation, results of operations, financial condition, and cash flows.

#### Interruptions in our information technology systems could adversely affect our business.

We rely on the efficient and uninterrupted operation of complex information technology systems and networks to operate our business. Any significant system or network disruption, including, but not limited to, new system implementations, computer viruses, security breaches, facility issues or energy blackouts could have a material adverse impact on our operations and results of operations. Such network disruption could result in a loss of the confidentiality of our intellectual property or the release of sensitive competitive information or customer or employee personal data. Any loss of such information could harm our competitive position, result in a loss of customer confidence, and cause us to incur significant costs to remedy the damages caused by the disruptions or security breaches. We have implemented protective measures to prevent against and limit the effects of system or network disruptions, but there can be no assurance that such measures will be sufficient to prevent or limit the damage from any future disruptions and any such disruption could have a material adverse impact on our business and results of operations.

Third-party service providers, such as subcontractors, distributors and vendors have access to certain portions of our sensitive data. In the event that these service providers do not properly safeguard our data that they hold, security breaches and loss of our data could result. Any such loss of data by our third-party service providers could have a material adverse impact on our business and results of operations.

Unexpected events, such as a natural disaster, could disrupt our operations and adversely affect our results of operations.

We have manufacturing and other facilities in countries around the world. Unexpected events, including fires or explosions at facilities; natural disasters, such as flooding, hurricanes, and earthquakes; war or terrorist activities; civil unrest; unplanned outages; supply or labor disruptions; and failures of equipment or systems at any of our facilities could adversely affect our results of operation. If adverse conditions were to arise with respect to any of our facilities as a result of a natural disaster or other unexpected event, they may result in customer disruption, physical damage to one or more key operating facilities, the temporary closure of one or more key operating facilities, the temporary disruptions of information systems, and/or an adverse effect on our results of operations.

# Our stock price could become more volatile and investments could lose value.

The market price of our common stock, and the number of shares traded each day, has experienced significant fluctuations and may continue to fluctuate significantly. The market price for our common stock may be affected by a number of factors, including, but not limited to:

- shortfalls in our expected net revenue, earnings or key performance metrics;
- changes in recommendations or estimates by securities analysts;
- the announcement of new products by us or our competitors;
- quarterly variations in our or our competitors' results of operations;
- a change in our dividend or stock repurchase activities;
- developments in our industry or changes in the market for technology stocks;
- changes in rules or regulations applicable to our business; and
- other factors, including economic instability, COVID-19 and changes in political or market conditions.

A significant drop in our stock price could expose us to costly and time consuming litigation, which could result in substantial costs, and divert management's attention and resources, resulting in an adverse effect on our business.

Also, given our market capitalization and trading volume fluctuations, it is possible that there will be less market and institutional interest in our shares, and that we will not attract substantial coverage in the analyst community. As a result, the trading market for our shares may be less liquid, making it more difficult for investors to dispose of their shares at favorable prices, and investors may have less independent information and analysis available to them concerning our company.

# Your percentage ownership of our common stock may be diluted in the future.

Your percentage ownership of our common stock may be diluted in the future because of equity awards that we expect will be granted to our directors, officers, and employees. The Vishay Precision Group, Inc. 2010 Stock Incentive Program provides for the grant of equity-based awards, including restricted stock, restricted stock units, stock options, and other equity-based awards to our directors, officers, and other employees, advisors and consultants.

# **Item 1B. UNRESOLVED STAFF COMMENTS**

None.

# **Item 2. PROPERTIES**

Our business has approximately 19 principal locations. Our facilities include owned locations and locations leased from third parties. The principal locations, along with available space including administrative offices, are listed below:

	Approx. Available Space (square feet)	
Owned Locations	<u> </u>	
Wendell, North Carolina USA	Foil Technology Products	147,000
Chennai, India (a)	Force Sensors	129,000
Holon, Israel	Foil Technology Products	97,000
Bradford, United Kingdom	Weighing and Control Systems	75,000
Kent, Washington	Weighing and Control Systems	47,000
Akita, Japan <sup>(b)</sup>	Foil Technology Products	46,000
Poestenkill, New York	Weighing and Control Systems	32,000
Chartres, France	Force Sensors	11,000
Basingstoke, United Kingdom	Force Sensors/Foil Technology Products	11,000
Third-Party Leased Locations		
Modi'in, Israel	Foil Technology Products	121,400
Toronto, Canada	Weighing and Control Systems	65,000
Tianjin, People's Republic of China	Force Sensors	34,000
Omer, Israel	Foil Technology Products	24,000
Holon, Israel	Foil Technology Products	18,000
Concord, California USA	Foil Technology Products	16,000
Taipei, Republic of China (Taiwan)	Force Sensors/Weighing and Control Systems	13,000
Teltow, Germany	Foil Technology Products	11,000
Degerfors, Sweden	Weighing and Control Systems	10,000
Malvern, Pennsylvania USA	Corporate	8,000

<sup>(</sup>a) The Chennai building is owned and the land is held under a 99 year lease (which began in 2012).

In the opinion of management, our properties and equipment generally are in good operating condition and are adequate for our present needs. We do not anticipate difficulty in renewing leases as they expire, or in finding alternative facilities.

Our corporate headquarters are located at 3 Great Valley Parkway, Suite 150, Malvern, PA 19355.

# **Item 3. LEGAL PROCEEDINGS**

We are subject to various legal proceedings that constitute ordinary, routine litigation incidental to our business. In our opinion, the disposition of these proceedings will not have a material adverse effect on our business or our financial condition, results of operations, and cash flows.

#### **Item 4. MINE SAFETY DISCLOSURES**

Not applicable.

<sup>(</sup>b) A facility on the campus is leased to Vishay Intertechnology. Approximate available space reported above excludes the area leased.

#### PART II

# <u>Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES</u>

Our common stock is listed on the New York Stock Exchange under the symbol VPG. The Board of Directors may only declare dividends or other distributions with respect to the common stock or the Class B convertible common stock if it grants such dividends or distributions in the same amount, per share, with respect to the other class of stock. Stock dividends or distributions, on any class of stock, are payable only in shares of stock of that class. Shares of either common stock or Class B convertible common stock cannot be split, divided, or combined unless the other is also split, divided, or combined equally. Holders of record of our common stock totaled approximately 718 at March 11, 2021.

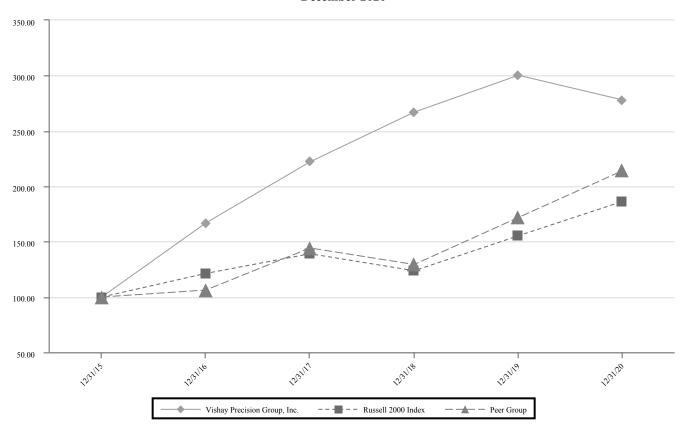
We have two classes of common stock: common stock and Class B convertible common stock. The holders of common stock are entitled to one vote for each share held, while the holders of Class B convertible common stock are entitled to 10 votes for each share held. At March 11, 2021 we had outstanding 1,022,887 shares of Class B convertible common stock, par value \$0.10 per share. Currently, the holders of VPG's Class B convertible common stock hold approximately 45.0% of the voting power of our Company. Mrs. Ruta Zandman, the wife of the late founder of our technology, Dr. Felix Zandman, controls, or shares control of, the voting of approximately 76.9% of our Class B convertible common stock, representing 34.5% of the total voting power of our capital stock as of December 31, 2020.

# **Stock Performance Graph**

The graph and table below compare the cumulative total stockholder return on the Company's common stock over a sixty month period, with the returns on the Russell 2000 Stock Index, and a peer group of companies selected by our management. The peer group is made up of six publicly held manufacturers of sensors, sensor-based equipment, and sensor-based systems. Management believes that the product offerings of the peer group companies are more similar to our product offerings than those of the companies contained in any published industry index. The return of each peer issuer has been weighted according to the respective issuer's stock market capitalization. The graph and table assume that \$100 had been invested at December 31, 2015, and that all dividends were reinvested. The graph and table are not necessarily indicative of future investment performance.

	_	12/31/15	12/31/16	12/31/17	12/31/18	12/31/19	12/31/20
Vishay Precision Group, Inc.	Cumulative \$	100.00	166.96	222.17	267.05	300.36	278.09
Russell 2000 Index	Cumulative \$	100.00	121.31	139.08	123.76	155.35	186.36
Peer Group *	Cumulative \$	100.00	106.32	144.30	129.39	171.90	214.17

# Comparison of Cumulative Total Return Assumes Initial Investment of \$100 December 2020



<sup>\*</sup>The management selected peer group includes: MTS Systems, Kyowa Electronic Instruments, Mettler – Toledo, Spectris, Sensata Technologies, CTS Corp.

# Item 6. [Reserved]

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

#### Overview

VPG is an internationally recognized designer, manufacturer and marketer of sensors, and sensor-based measurement systems, as well as specialty resistors and strain gages based upon our proprietary technology. We provide precision products and solutions, many of which are "designed-in" by our customers, specializing in the growing markets of stress, force, weight, pressure, and current measurements. A significant portion of our products and solutions are primarily based upon our proprietary foil technology and are produced as part of our vertically integrated structure. We believe this strategy results in higher quality, more cost effective and focused solutions for our customers. Our products are marketed under a variety of brand names that we believe are characterized as having a very high level of precision and quality. Our global operations enable us to produce a wide variety of products in strategically effective geographic locations that also optimize our resources for specific technologies, sensors, assemblies, and systems.

The Company also has a long heritage of innovation in precision foil resistors, foil strain gages, and sensors that convert mechanical inputs into an electronic signal for display, processing, interpretation, or control by our instrumentation and systems products. Our advanced sensor product line continues this heritage by offering high-quality foil strain gages produced in a proprietary, highly automated environment. Precision sensors are essential to the accurate measurement, resolution and display of force, weight, pressure, torque, tilt, motion, or acceleration, especially in the legal-for-trade, commercial, and industrial marketplaces. This expertise served as a foundation for our expansion into strain gage instrumentation, load cells, transducers, weighing modules, and complete systems for process control and on-board weighing. Although our products are typically used in the industrial market, our advanced sensors have been used in a consumer electronics product and are being evaluated for other non-industrial applications.

The precision sensor market is integral to the development of intelligent products across a wide variety of end markets upon which we focus, including medical, agricultural, transportation, industrial, avionics, military, and space applications. We believe that as original equipment manufacturers ("OEMs") continue a drive to make products "smarter," they will integrate more sensors and related systems into their solutions to link the mechanical/physical world with digital control and/or response. We believe this offers a substantial growth opportunity for our products and expertise.

# Impact of COVID-19 on our Business

As the COVID-19 pandemic began to unfold around the world, the Company took measures to protect its employees and customers. Those measures included suspending business travel, enabling certain employees to work from home, implementing workplace distancing, and adjusting work shifts to minimize employees' contact with other employees. While the majority of the Company's operations were able to operate despite the impacts from the COVID-19 pandemic, the Company's Force Sensors manufacturing facility in India had operated at partial capacity as a result of government-mandated restrictions. The Company received approval from the Indian government to operate its facility without limitations on July 1, 2020, and since that date, has been operating at pre-pandemic capacity.

As of March 11, 2021, all of the Company's facilities are operating without limitations with the Company implementing COVID-19 best practices with respect to working conditions and enabling some employees to work remotely where possible. Nonetheless, given the impacts to date and the ongoing uncertainty concerning the magnitude of the impact and duration of the COVID-19 pandemic, the ongoing economic disruption may continue to adversely affect the Company's business and financial results.

#### **Overview of Financial Results**

VPG reports in three product segments: the Foil Technology Products segment, the Force Sensors segment, and the Weighing and Control Systems segment. The Foil Technology Products reporting segment is comprised of the foil resistor and strain gage operating segments. The Force Sensors reporting segment is comprised of transducers, load cells, and modules. The Weighing and Control Systems reporting segment is comprised of complete systems which include load cells and instrumentation for weighing, force control and force measurement for a variety of uses such as process control and on-board weighing applications.

Net revenues for the year ended December 31, 2020 were \$269.8 million compared to net revenues of \$284.0 million for the year ended December 31, 2019. Net earnings attributable to VPG stockholders for the year ended December 31, 2020 were \$10.8 million, or \$0.79 per diluted share, compared to \$22.2 million, or \$1.63 per diluted share, for the year ended December 31, 2019.

The results of operations for the years ended December 31, 2020 and 2019 include items affecting comparability as listed in the reconciliations below. The reconciliations below include certain financial measures which are not recognized in accordance with U.S. generally accepted accounting principles ("GAAP"), including adjusted gross profits, adjusted gross profit margin, adjusted operating income, adjusted operating margin, adjusted net earnings, and adjusted net earnings per diluted share. These non-GAAP measures should not be viewed as an alternative to GAAP measures of performance. Non-GAAP measures such as adjusted gross profits, adjusted gross profit margin, adjusted operating income, adjusted operating margin, adjusted net earnings, and adjusted net earnings per diluted share do not have uniform definitions. These measures, as calculated by VPG, may not be comparable to similarly titled measures used by other companies. Management believes that these non-GAAP measures are useful to investors because each presents what management views as our core operating results for the relevant period. The adjustments to the applicable GAAP measures relate to occurrences or events that are outside of our core operations, and management believes that the use of these non-GAAP measures provides a consistent basis to evaluate our operating profitability and performance trends across comparable periods. In addition, the Company has historically provided these or similar non-GAAP measures and understands that some investors and financial analysts find this information helpful in analyzing the Company's performance and in comparing the Company's financial performance to that of its peer companies and competitors. Management believes that the Company's non-GAAP measures are regarded as supplemental to its GAAP financial results.

Beginning in the fourth quarter of 2020, the Company has determined to include the impact of foreign currency exchange rates on its assets and liabilities in certain of its non-GAAP measures for its current and comparative periods.

The items affecting comparability are (dollars in thousands, except per share amounts):

	Gross	Gross Profit Operating In		g Income	Attributal	rnings ole to VPG oolders	Diluted Earnings Per share			
Fiscal Year Ended December 31,	2020	2019	2020	2019	2019 2020 2019		2020	2019		
As reported - GAAP	104,271	111,617	22,657	28,648	\$ 10,787	\$ 22,188	\$ 0.79	\$ 1.63		
As reported - GAAP Margins	38.6 %	39.3 %	8.4 %	10.1 %						
Acquisition purchase accounting adjustments (a)	569	1,254	569	1,254	569	1,254	0.04	0.09		
Acquisition costs (b)			_	443	_	443	_	0.03		
COVID-19 impact (c)	434	_	(366)	_	(366)	_	(0.03)			
Executive Severance costs (d)			_	611	_	611	_	0.04		
Impairment of goodwill and indefinite-lived intangibles			2,440	_	2,440	_	0.18	_		
Restructuring costs			918	2,293	918	2,293	0.07	0.17		
Foreign exchange (gain)/loss (e)					2,246	1,638	0.16	0.12		
Less: Tax effect of reconciling items and discrete tax items (f)					(1,381)	4,102	(0.11)	0.29		
As Adjusted - Non GAAP	\$105,274	\$112,871	\$ 26,218	\$ 33,249	\$ 17,975	\$ 24,325	\$ 1.32	\$ 1.79		
As Adjusted - Non GAAP Margins	39.0 %	39.7 %	9.7 %	11.7 %						

- (a) Acquisition purchase accounting adjustments include fair market value adjustments associated with inventory recorded as a component of costs of products sold.
- (b) Acquisition costs associated with the acquisition of DSI in 2019.
- (c) COVID-19 impact is the net impact to the Company of costs incurred as a result of the COVID-19 pandemic, net of government subsidies received.
- (d) Severance costs associated with the resignation of an executive officer of the Company in 2019.
- (e) Impact of foreign currency exchange rates on assets and liabilities. The change in the dollar-shekel exchange rate, particularly in the fourth quarter of 2020, resulted in an unfavorable foreign exchange impact primarily related to the shekel-denominated lease liability for a new Foil Technology Products facility in Israel.
- (f) Included in the discrete items for 2020 is a \$1.7 million tax expense related to the acquisition of DSI, and in 2019, a \$3.4 million tax benefit primarily related to the acquisition of DSI.

#### **Financial Metrics**

We utilize several financial measures and metrics to evaluate the performance and assess the future direction of our business. These key financial measures and metrics include net revenues, gross profit margin, end-of-period backlog, book-to-bill ratio, and inventory turnover.

Gross profit margin is gross profit shown as a percentage of net revenues. Gross profit is generally net revenues less costs of products sold, but could also include certain other period costs. Gross profit margin is clearly a function of net revenues, but also reflects our cost-cutting programs and our ability to contain fixed costs.

End-of-period backlog is one indicator of potential future sales. We include in our backlog only open orders that have been released by the customer for shipment in the next twelve months. If demand falls below customers' forecasts, or if customers do not control their inventory effectively, they may cancel or reschedule the shipments that are included in our backlog, in many instances without the payment of any penalty. Therefore, the backlog is not necessarily indicative of the results to be expected for future periods.

Another important indicator of demand in our industry is the book-to-bill ratio, which is the ratio of the amount of product ordered during a period compared with the product that we ship during that period. A book-to-bill ratio that is greater than one indicates that demand is higher than current revenues and manufacturing capacities, and it indicates that we may generate increasing revenues in future periods. Conversely, a book-to-bill ratio that is less than one is an indicator of lower demand compared to existing revenues and current capacities and may foretell declining sales.

We focus on our inventory turnover as a measure of how well we are managing our inventory. We define inventory turnover for a financial reporting period as our costs of products sold for the four fiscal quarters ending on the last day of the reporting period divided by our average inventory (computed using each quarter-end balance) for this same period. A higher level of inventory turnover reflects more efficient use of our capital.

The quarter-to-quarter trends in these financial metrics can also be an important indicator of the likely direction of our business. The following table shows net revenues, gross profit margin, the end-of-period backlog, the book-to-bill ratio, and the inventory turnover for our business as a whole during the five quarters beginning with the fourth quarter of 2019 and through the fourth quarter of 2020 (dollars in thousands):

	4t	h Quarter 2019	18	t Quarter 2020	2n	d Quarter 2020	3r	d Quarter 2020	4t	h Quarter 2020	
Net revenues	\$	69,142	\$	67,696	\$	59,146	\$	67,525	\$	75,445	
Gross profit margin		35.0 %		37.0 %	1	39.1 %		40.5 %		38.1 %	
End-of-period backlog	\$	90,900	\$	94,300	\$	92,900	\$	90,800	\$	87,600	
Book-to-bill ratio		1.15		1.08		0.95		0.95		0.93	
Inventory turnover		2.72		2.58		2.20		2.38		2.86	

	4t	h Quarter 2019	15	st Quarter 2020	2r	d Quarter 2020	3r	d Quarter 2020	41	h Quarter 2020
Foil Technology Products										
Net revenues	\$	29,636	\$	30,477	\$	31,785	\$	32,906	\$	36,477
Gross profit margin		34.9 %		36.7 %		41.8 %		41.1 %		38.4 %
End-of-period backlog	\$	44,600	\$	51,700	\$	47,500	\$	48,500	\$	43,700
Book-to-bill ratio		1.18		1.25		0.85		1.01		0.84
Inventory turnover		2.66		2.74		2.58		2.63		3.05
<u>Force Sensors</u>										
Net revenues	\$	15,059	\$	14,695	\$	8,916	\$	13,862	\$	16,251
Gross profit margin		24.2 %		24.3 %		11.6 %		30.5 %		29.1 %
End-of-period backlog	\$	17,100	\$	16,900	\$	22,300	\$	21,300	\$	24,700
Book-to-bill ratio		1.11		1.02		1.58		0.90		1.18
Inventory turnover		2.43		2.64		2.02		2.28		2.74
Weighing and Control Systems										
Net revenues	\$	24,447	\$	22,524	\$	18,445	\$	20,757	\$	22,717
Gross profit margin		41.6 %		45.7 %		47.6 %		46.2 %		44.0 %
End-of-period backlog	\$	29,200	\$	25,700	\$	23,100	\$	21,000	\$	19,200
Book-to-bill ratio		1.15		0.90		0.82		0.88		0.88
Inventory turnover		3.10		2.31		1.81		2.13		2.67

Net revenues for the fourth quarter of 2020 increased 11.7% from the net revenues of \$67.5 million reported in the third quarter of 2020, and increased 9.1% from \$69.1 million for the comparable prior year period.

Net revenues in the Foil Technology Products segment of \$36.5 million in the fourth quarter of 2020 increased 10.9% from \$32.9 million in the third quarter of 2020, and increased 23.1% from \$29.6 million in the fourth quarter of 2019. The sequential and year over year increases in revenues was primarily attributable to an increase in our advanced sensors product line primarily in our consumer-related markets and higher sales of precision resistors and our Pacific Instruments product line in the avionics, military and space market. Sequentially, the increase in revenue reflected higher precision resistor sales in the test and measurement market, an increase in our Pacific Instruments product line in the avionics, military and space market, and an increase in our advanced sensors product line primarily in our consumer-related markets.

Net revenues in the Force Sensors segment of \$16.3 million in the fourth quarter of 2020 increased 17.2% compared to revenues of \$13.9 million in the third quarter of 2020. The sequential increase in revenues, which was attributable to higher sales in the precision agriculture and industrial weighing markets, reflected the return to full production capability at the end of the third quarter of the Force Sensors operations that had been constrained due to the COVID-19 pandemic.Net revenues in the fourth quarter of 2020 increased 7.9% compared to \$15.1 million in the fourth quarter of 2019 mainly due to an increase in our OEM customers in the precision agriculture market, partially offset by lower sales in the industrial weighing market.

Net revenues in the Weighing and Control Systems segment of \$22.7 million in the fourth quarter of 2020 increased 9.4% from \$20.8 million in the third quarter of 2020 and decreased 7.1% from \$24.4 million in the fourth quarter of 2019. The sequential increase in revenue was primarily attributable to our onboard weighing products for the transportation market and an increase in our process weighing business. The year-over-year decrease in revenues was primarily attributable lower KELK and DSI steel-related sales and lower sales in our process weighing business, partially offset by an increase in our onboard weighing products for the transportation market.

The gross profit margin for the fourth quarter of 2020 decreased 2.4% compared to the third quarter of 2020, and increased 3.1% from the fourth quarter of 2019.

Sequentially, gross profit margins declined in all reporting segments. In the Foil Technology Products segment, the decline in gross profit margin was primarily due to manufacturing inefficiencies, unfavorable product mix and one-time inventory adjustments, partially offset by an increase in volume. In the Force Sensors segment, the decline in gross profit margin was primarily due to a reduction of inventory, partially offset by an increase in volume. In the Weighing and Control System segment, gross profit margin decreased due to unfavorable product mix and inventory reductions, partially offset by higher volume.

Compared to the fourth quarter of 2019, gross profit margins increased in all reporting segments. In the Foil Technology Products segment, the increase in gross profit margin was primarily due to higher volume. In the Force Sensors segment, the increase in gross profit margin was primarily due to higher volume, structural cost savings initiatives, an increase in inventories and a positive impact of foreign exchange, partially offset by a reduction of export grants. In the Weighing and Control Systems segment, gross profit margin increased due to recording of purchase accounting adjustments related to the DSI acquisition and the impact of COVID-19 subsidies. Excluding those adjustments, the gross profit margin declined 4.8% primarily due to lower volume and an unfavorable product mix.

#### **Optimize Core Competence**

The Company's core competency and key value proposition is providing customers with proprietary foil technology products and precision measurement sensors and sensor-based systems. Our foil technology resistors and strain gages are recognized as global market leading products that provide high precision and high stability over extreme temperature ranges, and long life. Our force sensor products and our weighing and control systems products are also certified to meet some of the highest levels of precision measurements of force, weight, pressure, torque, tilt, motion, and acceleration. We continue to optimize all aspects of our development, manufacturing and sales processes, including by increasing our technical sales efforts; continuing to innovate in product performance and design; and refining our manufacturing processes.

Our foil technology research group developed innovations that enhance the capability and performance of our strain gages, while simultaneously reducing their size and power consumption as part of our advanced sensors product line. We believe this unique foil technology will create new markets as customers "design in" these next generation products in existing and new applications. Our development engineering team is also responsible for creating new processes to further automate manufacturing, and improve productivity and quality. Our advanced sensors manufacturing technology also offers us the capability to produce high-quality foil strain gages in a highly automated environment, which we believe results in reduced manufacturing and lead times, improved quality and increased margins. As a sign of our commitment to these businesses, we signed a long-term lease for a state of the art facility which has been constructed in Israel. Our administrative personnel have moved to the new facility, and we have begun the transition of our advanced sensors business to that facility.

Our design, research, and product development teams, in partnership with our marketing teams, drive our efforts to bring innovations to market. We intend to leverage our insights into customer demand to continually develop and roll out new, innovative products within our existing lines and to modify our existing core products in ways that make them more appealing, addressing changing customer needs and industry trends in terms of form, fit, and function.

We also seek to achieve significant production cost savings through the transfer, expansion, and construction of manufacturing operations in countries such as India, China, and Israel, where we can benefit from lower labor costs, improved efficiencies, or available tax and other government-sponsored incentives. For example, in 2019 we incurred restructuring expense related to closing and downsizing of facilities as part of the manufacturing transitions of our force sensor products to facilities in India and China, which marked key milestones in our ongoing strategic initiatives to align and consolidate our manufacturing footprint.

#### **Acquisition Strategy**

We expect to continue to make strategic acquisitions where opportunities present themselves to grow our segments. Historically, our growth and acquisition strategy has been largely focused on vertical product integration, using our foil strain gages in our force sensor products, and incorporating those products into our weighing and control systems. The acquisitions of Stress-Tek and KELK, each of which employ our foil strain gages to manufacture load cells for their systems, continued this strategy. Additionally, the KELK acquisition resulted in the acquisition of certain optical sensor technology. The Pacific Instruments acquisition significantly broadened our existing data acquisition offerings and opened new markets for us. Our most recent acquisition, DSI, expands our position in the steel market. We expect to expand our expertise, and our acquisition focus, outside our traditional vertical approach to other precision sensor solutions in the fields of measurement of force, weight, pressure, torque, tilt, motion, and acceleration. We believe acquired businesses will benefit from improvements we implement to reduce redundant functions and from our current global manufacturing and distribution footprint.

#### **Research and Development**

Research and development will continue to play a key role in our efforts to introduce innovative products to generate new sales and to improve profitability. We expect to continue to expand our position as a leading supplier of precision foil technology products. We believe our R&D efforts should provide us with a variety of opportunities to leverage technology, products, and our manufacturing base in order to ultimately improve our financial performance. The amount charged to expense for research and development aggregated \$12.6 million, \$12.1 million, and \$11.8 million for the years ended December 31, 2020, 2019, and 2018, respectively.

### **Cost Management**

To be successful, we believe we must seek new strategies for controlling operating costs. Through automation in our plants, we believe we can optimize our capital and labor resources in production, inventory management, quality control, and warehousing. We are in the process of moving some manufacturing to more cost effective locations. This may enable us to become more efficient and cost competitive, and also maintain tighter controls of the operation.

Production transfers, facility consolidations, and other long-term cost-cutting measures require us to initially incur significant severance and other exit costs. We are realizing the benefits of our restructuring through lower labor costs and other operating expenses, and expect to continue reaping these benefits in future periods. However, these programs to improve our profitability also involve certain risks which could materially impact our future operating results, as further detailed in Part I, Item 1A "Risk Factors" of this Annual Report on Form 10-K.

The Company recorded restructuring costs of \$0.9 million, \$2.3 million, and \$0.3 million during the years ended December 31, 2020, 2019, and 2018, respectively. In 2020 and 2018, restructuring costs were comprised primarily of employee termination costs, including severance and statutory retirement allowances. In 2019, restructuring costs included \$1.2 million of employee termination costs, including severance and statutory retirement allowances incurred in connection with various cost reduction programs, and \$1.1 million of other exit costs associated with the closure and downsizing of facilities as part of the manufacturing transitions of the Company's force sensors products to facilities in India and China.

We are evaluating plans to further reduce our costs by consolidating additional manufacturing operations. These plans may require us to incur restructuring and severance costs in future periods. While streamlining and reducing fixed overhead, we are exercising caution so that we will not negatively impact our customer service or our ability to further develop products and processes.

# **Foreign Currency**

We are exposed to foreign currency exchange rate risks, particularly due to transactions in currencies other than the functional currencies of certain subsidiaries. U.S. GAAP requires that entities identify the "functional currency" of each of their subsidiaries and measure all elements of the financial statements in that functional currency. A subsidiary's functional currency is the currency of the primary economic environment in which it operates. In cases where a subsidiary is relatively self-contained within a particular country, the local currency is generally deemed to be the functional currency. However, a foreign subsidiary that is a direct and integral component or extension of the parent company's operations generally would have the parent company's currency as its functional currency. We have subsidiaries that fall into each of these categories.

#### Foreign Subsidiaries which use the Local Currency as the Functional Currency

Our operations in Europe, Canada, and certain locations in Asia primarily generate and expend cash using local currencies, and accordingly, these subsidiaries utilize the local currency as their functional currency. For those subsidiaries where the local currency is the functional currency, assets and liabilities in the consolidated balance sheets have been translated at the rate of exchange as of the balance sheet date. Translation adjustments do not impact the results of operations and are reported as a separate component of equity.

For those subsidiaries where the local currency is the functional currency, revenues and expenses are translated at the average exchange rate for the year. While the translation of revenues and expenses into U.S. dollars does not directly impact the consolidated statements of operations, the translation effectively increases or decreases the U.S. dollar equivalent of revenues generated and expenses incurred in those foreign currencies.

# Foreign Subsidiaries which use the U.S. Dollar as the Functional Currency

Our operations in Israel and certain locations in Asia primarily generate cash in U.S. dollars, and accordingly, these subsidiaries utilize the U.S. dollar as their functional currency. For those foreign subsidiaries where the U.S. dollar is the functional currency, all foreign currency financial statement amounts are remeasured into U.S. dollars. Exchange gains and losses arising from remeasurement of foreign currency-denominated monetary assets and liabilities are included in the results of operations. While these subsidiaries transact most business in U.S. dollars, they may have significant costs, particularly related to payroll, which are incurred in the local currency and significant lease assets and liabilities.

# Effects of Foreign Exchange Rate on Operations

For the year ended December 31, 2020, exchange rate impacts increased net revenues by \$0.9 million, increased costs of products sold and selling, general, and administrative expenses by \$2.8 million, and decreased net earnings by \$1.9 million or \$0.13 per diluted share, when compared to the prior year. Refer to Item 7. "Overview" in our Annual Report on Form 10-K for the year ended December 31, 2019 for a comparison of the year ended December 31, 2019 and the year ended December 31, 2018, which comparison is hereby incorporated by reference.

# **Off-Balance Sheet Arrangements**

As of December 31, 2020 and 2019, we did not have any off-balance sheet arrangements.

# **Critical Accounting Policies and Estimates**

Our significant accounting policies are summarized in Note 1 to our consolidated financial statements. We identify here a number of policies that entail significant judgments or estimates by management.

#### Inventories

We value our inventories at the lower of cost or market, with cost determined under the first-in, first-out method, and market based upon net realizable value. The valuation of our inventories requires management to make costing and market estimates. For work in process goods, we are required to estimate the cost to completion of the products and the prices at which we will be able to sell the products. For finished goods, we must assess the prices at which we believe the inventory can be sold. Inventories are also adjusted for estimated obsolescence and written down to net realizable value based upon estimates of future demand, technology developments, and market conditions.

#### **Business Combinations**

The Company allocates the purchase price of an acquired company, including when applicable, the fair value of contingent consideration between tangible and intangible assets acquired and liabilities assumed from the acquired businesses based on estimated fair values, with any residual of the purchase price recorded as goodwill. Third party appraisal firms and other consultants are engaged to assist management in determining the fair values of certain assets acquired and liabilities assumed. Estimating fair values requires significant judgments, estimates and assumptions, including but not limited to: discount rates, future cash flows and the economic lives of trade names, technology, customer relationships, property, plant and equipment, as well as income taxes. These estimates are based on historical experience and information obtained from the management of the acquired companies, and are inherently uncertain.

#### Goodwill and Other Indefinite-lived Intangible Assets

Goodwill and indefinite-lived trademarks are tested for impairment at least annually, and whenever events or changes in circumstances occur indicating that it is "more likely than not" impairment may have been incurred. We have the option to first assess qualitative factors to determine whether it is "more likely than not" that the fair value of a reporting unit is less than its carrying amount as a basis for determining if it is necessary to perform the quantitative goodwill impairment test. However, if we conclude otherwise, then we are required to perform the quantitative impairment test by calculating the fair value of the reporting unit and comparing it against its carrying amount.

We have four reporting units to which goodwill is allocated: steel, on-board weighing, instrumentation, and DSI. For the steel and on-board weighing goodwill reporting units, we performed the qualitative assessment, which included assessment of macroeconomic conditions, industry and market considerations, cost factors, overall financial performance, and other entity specific events which could impact the reporting unit. Based on this review, it was determined that the fair value of each of those reporting units was in excess of its carrying value and therefore no quantitative impairment test was required.

For the instrumentation and DSI goodwill reporting units, we performed the quantitative impairment test. In estimating the fair value of our instrumentation and DSI reporting units we use the income approach. We further use the market approach to evaluate the estimated fair value of the reporting units that was obtained by using the income approach. The income approach to valuation requires management to make significant estimates and assumptions related to future revenues, profitability, working capital requirements and selection of discount rate and long term growth rate. Changes in these estimates and assumptions could have a significant impact on the fair value of the reporting units. If the fair value exceeds the carrying value, no further evaluation is required and no impairment loss is recognized. An impairment charge would be recognized to the extent the carrying amount of goodwill exceeds the reporting unit fair value.

The indefinite-lived trade names are tested for impairment either by employing the qualitative approach outlined above, or by comparing the carrying value to the fair value based on current revenue projections of the related operations, under the relief from royalty method. Any excess carrying value over the applicable fair value is recognized as impairment. Any impairment would be recognized in the reporting period in which it has been identified.

# Pension and Other Postretirement Benefits

Accounting for defined benefit pension and other postretirement plans involves numerous assumptions and estimates. The discount rate at which obligations could effectively be settled and the expected long-term rate of return on plan assets are two critical assumptions in measuring the cost and benefit obligations of our pension and other postretirement benefit plans. Other important assumptions include the anticipated rate of future increases in compensation levels, estimated mortality, and for postretirement medical plans, increases or trends in health care costs. Management reviews these assumptions at least annually. We use independent actuaries to assist us in formulating assumptions and making estimates. These assumptions are updated periodically to reflect the actual experience and expectations on a plan-specific basis, as appropriate.

Our defined benefit plans are concentrated in the United States, Japan and the United Kingdom. Plans in these countries comprise approximately 87% of our retirement obligations at December 31, 2020. We utilize published long-term high-quality bond indices to determine the discount rate at the measurement date. We utilize bond yields at various maturity dates to reflect the timing of expected future benefit payments. We believe the discount rates selected are the rates at which these obligations could effectively be settled.

For benefit plans which are funded, we establish strategic asset allocation percentage targets and appropriate benchmarks for significant asset classes with the aim of achieving a prudent balance between return and risk. We set the expected long-term rate of return based on the expected long-term average rates of return to be achieved by the underlying investment portfolios. In establishing this rate, we consider historical and expected returns for the asset classes in which the plans are invested, advice from pension consultants and investment advisors, and current economic and capital market conditions. The expected return on plan assets is incorporated into the computation of pension expense. The difference between this expected return and the actual return on plan assets is deferred.

We believe that the current assumptions used to estimate plan obligations and annual expense are appropriate in the current economic environment. However, if economic conditions change, we may be inclined to change some of our assumptions, and the resulting change could have a material impact on the consolidated statements of operations and on the consolidated balance sheets.

#### Income Taxes

We are subject to income taxes in the United States and numerous foreign jurisdictions. Our annual effective tax rate is based on pre-tax earnings, statutory tax rates and enacted tax laws. Significant judgments and estimates must be made in determining our consolidated income tax expense as presented in our financial statements.

We must assess the likelihood that we will realize deferred tax assets which requires significant judgment. If we determine that deferred tax assets are not "more likely than not" to be realized, we record a valuation allowance to reduce deferred tax assets to a level that is expected to be realized. If we subsequently determine that realization of a deferred tax asset becomes "more likely than not", the valuation allowance will be reversed. Any change in valuation allowances could have a significant impact on our financial results.

The calculation of our tax liabilities involves an assessment of uncertainties in the application of complex tax laws and regulations in multiple jurisdictions. We record a benefit from an uncertain tax position when it is "more likely than not" that a tax return position will be sustained upon examination, including resolutions of any related appeals or litigation based on the technical merits of the position. If the position is not "more likely than not" to be sustained, a liability for the tax return position is established. We adjust the liability when our judgment changes as a result of the evaluation of new information. The ultimate tax due in a jurisdiction may result in a payment that is materially different from our most recent estimate of the liability. Further judgment is required in determining whether an uncertain tax position is effectively settled. Any change in the analysis will impact income tax expense.

We consider the earnings of most of our non-U.S. subsidiaries to be indefinitely invested outside the United States based on our estimates that future domestic cash generation will be sufficient to meet future domestic cash needs and our plans for reinvestment of foreign subsidiary earnings. As a result of the Tax Cut and Jobs Act, in 2017 the Company had recorded a deferred tax liability of approximately \$1.8 million of withholding tax associated with a planned distribution of approximately \$25.5 million of previously unremitted earnings. As of December 31, 2020, the planned distribution amount is approximately \$14.1 million with a remaining deferred tax liability of approximately \$1.5 million. In addition, we estimate that additional withholding taxes of approximately \$18.0 million would be payable upon the distribution of the balance of our previously unremitted earnings at December 31, 2020. If we decide to distribute any portion of the balance of our unremitted earnings to the United States from a foreign country, we would adjust our income tax provision in the period we determine that the earnings are no longer indefinitely invested outside the United States.

Additional information about income taxes is included in Note 6 to our consolidated financial statements.

#### Results of Operations - Years Ended December 31, 2020, and 2019

Refer to Item 7. "Results of Operations - Years Ended December 31, 2019, and 2018 in our Annual Report on Form 10-K for the year ended December 31, 2019 for a comparison of the year ended December 31, 2019 to the year ended December 31, 2018.

Statement of operations' captions as a percentage of net revenues and the effective tax rates were as follows:

	Years ended December 31,	
	2020	2019
Costs of products sold	61.4 %	60.7 %
Gross profit	38.6 %	39.3 %
Selling, general, and administrative expenses	29.0 %	28.0 %
Operating income	8.4 %	10.1 %
Income before taxes	6.8 %	9.3 %
Net earnings	4.0 %	7.9 %
Net earnings attributable to VPG stockholders	4.0 %	7.8 %
Effective tax rate	41.0 %	15.7 %

#### Net Revenues

Net revenues were as follows (dollars in thousands):

	Years ended December 31,			
		2020		2019
Net revenues	\$	269,812	\$	283,958
Change versus prior year	\$	(14,146)		
Percentage change versus prior year	(5.0)%			

Changes in net revenues were attributable to the following:

	2020 vs. 2019
Change attributable to:	
Change in volume	(10.0)%
Change in average selling prices	0.3 %
Foreign currency effects	0.2 %
Acquisitions	4.5 %
Net change	(5.0)%

During the year ended December 31, 2020, net revenues decreased 5.0% over the prior year. Volume decreased across all reporting segments, with the most significant declines coming from the industrial weighing market in Force Sensor reporting segment, transportation market and KELK for the steel market in the Weighing and Control Systems reporting segment, and the precision resistor foil for the test and measurement market in the Foil Technology Products reporting segment. This was partially offset by an increase in revenues attributable to the addition of DSI.

#### Gross Profit Margin

Gross profit as a percentage of net revenues was as follows:

	Years ended I	Years ended December 31,		
	2020	2019		
Gross profit margin	38.6 %	39.3 %		

The gross profit margin for the year ended December 31, 2020 decreased 0.7% over the prior year. The reduction in gross profit margin was primarily due to lower volume in the Force Sensors and Weighing and Control Systems reporting segments, and negative impacts of foreign currency exchange rates of \$1.0 million, partially offset by manufacturing efficiencies, primarily from the Foil Technology Products reporting segment.

#### Segments

Analysis of revenues and gross profit margins for our reportable segments is provided below.

Foil Technology Products

Net revenues of the Foil Technology Products segment were as follows (dollars in thousands):

	Years ended December 31,			
		2020		2019
Net revenues	\$	131,645	\$	131,803
Change versus prior year	\$	(158)		
Percentage change versus prior year		(0.1)%	)	

Changes in Foil Technology Products segment net revenues were attributable to the following:

	2020 vs. 2019
Change attributable to:	
Change in volume	(1.1)%
Change in average selling prices	0.5 %
Foreign currency effects	0.5 %
Net change	(0.1)%

For the year ended December 31, 2020, net revenues decreased 0.1% as compared to the prior year. Increases in our net revenues from the advanced sensors product line, primarily in our consumer-related markets, and net revenues from our precision resistor products in the avionics, military and space market, were offset by declines in net revenues from our precision resistor products in the test and measurement market and net revenues from strain gage products in our general industrial market.

Gross profit as a percentage of net revenues for the Foil Technology Products segment was as follows:

	Years ended	Years ended December 31,		
	2020	2019		
Gross profit margin	39.5 %	40.4 %		

For the year ended December 31, 2020, the gross profit margin decreased 0.9% as compared to the prior year primarily due to lower volume from products in the test and measurement and general industrial market segments, unfavorable product mix and negative impacts from foreign currency exchange rates, primarily from the Israeli shekel.

#### Force Sensors

Net revenues of the Force Sensors segment were as follows (dollars in thousands):

	Years ended December 31,			
		2020		2019
Net revenues	\$	53,724	\$	64,357
Change versus prior year	\$	(10,633)		
Percentage change versus prior year		(16.5)%	)	

Changes in Force Sensors segment net revenues were attributable to the following:

	2020 vs. 2019
Change attributable to:	
Change in volume	(16.5)%
Change in average selling prices	(0.2)%
Foreign currency effects	0.2 %
Net change	(16.5)%

For the year ended December 31, 2020, net revenues decreased 16.5% from the prior year mainly reflecting the impact of the COVID-19 pandemic on our India facility, where production was limited. The manufacturing facility in India operated at partial capacity as a result of government mandated restrictions until July 1, 2020, when restrictions were lifted. By the end of the third quarter of 2020, the facility was back to running at pre-pandemic capacity.

Gross profit as a percentage of net revenues for the Force Sensors segment was as follows:

	Years ended December 31,		
	2020	2019	
Gross profit margin	25.3 %	28.0 %	

For the year ended December 31, 2020, the gross profit margin decreased 2.7% when compared to the prior year primarily due to volume declines resulting from the government mandated restrictions, partially offset by cost savings initiatives.

Weighing and Control Systems

Net revenues of the Weighing and Control Systems segment were as follows (dollars in thousands):

	Years ended December 31,			
		2020		2019
Net revenues	\$	84,443	\$	87,798
Change versus prior year	\$	(3,355)		
Percentage change versus prior year		(3.8)%	)	

Changes in Weighing and Control Systems segment net revenues were attributable to the following:

	2020 vs. 2019
Change attributable to:	
Change in volume	(19.3)%
Change in average selling prices	0.1 %
Foreign currency effects	0.2 %
Acquisitions	15.2 %
Net change	(3.8)%

For the year ended December 31, 2020, net revenues decreased 3.8% when compared to the prior year. The revenues generated by DSI were offset by lower volume from our onboard weighing products for the transportation market in Europe and lower KELK steel-related sales.

Gross profit as a percentage of net revenues for the Weighing and Control Systems segment was as follows:

	Years ended D	ecember 31,
	2020	2019
Gross profit margin	45.8 %	45.9 %

For the year ended December 31, 2020, the gross profit margin decreased 0.1% from the prior year. Volume declines and unfavorable product mix were partially offset by government subsidies received in Canada, which resulted in gross profit margin remaining fairly flat compared to the prior year. We also recorded less purchase accounting adjustments in 2020 as compared to 2019, which had a positive impact to the gross profit margin.

#### Selling, General, and Administrative Expenses

Selling, general, and administrative ("SG&A") expenses were as follows (dollars in thousands):

	1	rears ended December 31,		ember 31,
		2020		2019
Total SG&A expenses	\$	78,256	\$	79,622
as a percentage of net revenues		29.0 %	ó	28.0 %

Voors anded December 31

SG&A expenses for the year ended December 31, 2020 decreased \$1.4 million versus the prior year due to lower travel costs, personnel costs, commissions, and professional fees, partially offset by SG&A expenses related to DSI, and unfavorable foreign currency exchange rate impacts, mainly from the Israeli shekel.

#### Impairment of Goodwill and Indefinite-lived Intangible Assets

For the year ended December 31, 2020, as a result of our required annual impairment test performed on goodwill and indefinite-lived intangible assets, we recorded a \$2.4 million pre-tax, non-cash impairment charge which reduced the carrying value of our goodwill and indefinite-lived intangible assets. See our critical accounting policies and Note 4 for further discussion. For the year ended December 31, 2019, there were no impairment charges recorded as a result of our annual impairment test.

#### **Executive Severance Costs**

During 2019, the Company recorded \$0.6 million of severance costs associated with the resignation of an executive officer of the Company. The severance costs consisted of payments and other benefits as specified in the executive officers resignation agreement.

#### Restructuring Costs

Restructuring costs reflect the cost reduction programs implemented by the Company. Restructuring costs are expensed during the period in which the Company determines it will incur those costs and all requirements for accrual are met. Because these costs are recorded based upon estimates, actual expenditures for the restructuring activities may differ from the initially recorded costs. If the initial estimates are too low or too high, the Company could be required to either record additional expense in future periods, or to reverse part of the previously recorded charges.

The Company recorded restructuring costs of \$0.9 million and \$2.3 million during the years ended December 31, 2020 and 2019, respectively. In 2020, restructuring costs were comprised primarily of employee termination costs, including severance and statutory retirement allowances, and were incurred in connection with various cost reduction programs. In 2019, restructuring costs included \$1.2 million of employee termination costs, including severance and statutory retirement allowances incurred in connection with various cost reduction programs, and \$1.1 million of other exit costs associated with the closure and downsizing of facilities as part of the manufacturing transitions of the Company's force sensors products to facilities in India and China.

#### **Acquisition Costs**

There were no acquisition costs recorded in our consolidated statements of operations for the year ended December 31, 2020. For the year ended December 31, 2019, we recorded acquisition costs in our consolidated statements of operations of \$0.4 million in connection with the acquisitions of DSI.

## Other Income (Expense)

#### Interest Expense

The Company recorded interest expense of \$1.4 million and \$1.5 million for the years ended December 31, 2020 and 2019, respectively. Interest expense was lower in 2020 compared to 2019, mainly due to the lower debt balances during 2020 and the favorable borrowing rates negotiated with the 2020 Restated and Amended Revolving Credit Facility in March 2020.

#### Other

The following table analyzes the components of the line "Other" on the consolidated statements of operations (in thousands):

	Years ended December 31,				
		2020		2019	Change
Foreign exchange gain/(loss)	\$	(2,246)	\$	(1,638)	\$ (608)
Interest income		246		622	(376)
Pension expense		(738)		(643)	(95)
Other		(244)		958	(1,202)
	\$	(2,982)	\$	(701)	\$ (2,281)

Foreign currency exchange gains and losses represent the impact of changes in foreign currency exchange rates. The change in foreign exchange gains / (losses) during the period, as compared to the prior year period, is primarily due to fluctuations in the Israeli shekel. The change in the dollar-shekel exchange rate, particularly in the fourth quarter of 2020, resulted in an unfavorable foreign exchange impact primarily related to the shekel-denominated lease liability for a new Foil Technology Products facility in Israel.

Included within Other, for the year ended December 31, 2019, is net proceeds of \$0.8 million related to a liquidation of a foreign subsidiary.

#### Income Taxes

Our effective tax rate for the year ended December 31, 2020 was 41.0%, compared to 15.7% for the year ended December 31, 2019. Our effective tax rate was higher in 2020 compared to 2019 primarily due to a net increase in valuation allowance on deferred tax assets as a result of our acquisition of Dynamic Systems, Inc., reserves for impairment of certain intangible assets, foreign currency, and changes in the geographical mix of income.

We reassessed our ability to realize our U.S. deferred tax assets during 2020 and have concluded that realization of those deferred tax assets is still not "more likely than not". Our tax rate is affected by recurring items, such as tax rates in foreign jurisdictions as compared to the U.S. federal statutory tax rate, and the relative amount of income earned in each jurisdiction. The tax rate is also impacted by discrete items that vary from year to year and may not be indicative of the tax rate on continuing operations. The following items had the most significant impact on the difference between the statutory U.S. federal income tax rate and our effective tax rate:

#### 2020

- 13.4% increase related to an increase in valuation allowance, primarily a result of the completion of purchase accounting for Dynamic Systems, Inc.
- 5.8% increase related to the loss of the benefit of current year U.S. net operating loss as a result of the Tax Cuts and Jobs Act ("2017 Tax Act") enacted on December 22, 2017 and the effects of GILTI.
- 4.0% increase related to the effects of foreign operations primarily related to the difference between the U.S. statutory rate and foreign tax rates.
- 2.8% increase related to the impairment of certain intangible assets.
- 1.9% decrease related to foreign currency primarily attributable to our operations in China, India, Israel and Taiwan.
- 1.4% decrease related to specialty tax credits.

- 4.4% decrease related to foreign currency primarily attributable to our operations in Israel and India.
- 2.4% decrease related to a reduction in valuation allowance. This reduction was primarily a result of the acquisition of Dynamic Systems, Inc.
- 1.4% decrease related to stock compensation.
- 2.5% increase related to changes in reserves for uncertain tax positions.
- 3.7% increase related to the loss of the benefit of current year U.S. net operating loss as a result of the 2017 Tax Act and the effects of GILTI.

Additional information about income taxes is included in Note 6 to our consolidated financial statements.

#### Financial Condition, Liquidity, and Capital Resources

Refer to Item 7. "Financial Condition, Liquidity, and Capital Resources" in our Annual Report on Form 10-K for the year ended December 31, 2019 for a comparison of the year ended December 31, 2019 to the year ended December 31, 2018.

We believe that our current cash and cash equivalents, credit facilities, and projected cash from operations will be sufficient to meet our liquidity needs for at least the next 12 months.

On March 20, 2020, the Company entered into a Third Amended and Restated Credit Agreement (the "2020 Credit Agreement") among the Company, the lenders named therein, Citizens Bank, National Association and Wells Fargo Bank, National Association as joint lead arrangers and JPMorgan Chase Bank, National Association as agent for such lenders (the "Agent"), pursuant to which the terms of the Company's multi-currency, secured credit facility were revised to provide a secured revolving facility (the "2020 Revolving Facility") in an aggregate principal amount of \$75.0 million, with a sublimit of \$10.0 million which can be used for letters of credit for the account of the Company or its subsidiaries that are parties to the Credit Agreement. The proceeds of the 2020 Revolving Facility may be used for working capital and general corporate purposes, and a portion of such proceeds was used to refinance the Company's existing revolving credit facility in the amount of \$34.0 million and the Company's existing term loans as follows: (1) the "2015 U.S. Closing Date Term Facility" in an aggregate principal amount of \$2.0 million; and (2) the "2015 U.S. Delayed Draw Term Facility" in an aggregate principal amount of \$5.0 million. The aggregate principal amount of the 2020 Revolving Facility may be increased by a maximum of \$25.0 million upon the request of the Company, subject to the terms of the 2020 Credit Agreement. The 2020 Credit Agreement terminates on March 20, 2025. The 2020 Credit Agreement replaced the 2015 Credit Agreement.

Interest payable on amounts borrowed under the 2020 Revolving Facility is based upon, at the Company's option, (1) the greatest of: the Agent's prime rate, the Federal Funds rate, or a LIBOR floor (the "Base Rate"), or (2) LIBOR or CDOR plus a specified margin. An interest margin of 0.25% is added to Base Rate loans. Depending upon the Company's leverage ratio, an interest rate margin ranging from 1.50% to 2.75% per annum is added to the applicable LIBOR or CDOR rate to determine the interest payable on the LIBOR or CDOR loans. The Company is required to pay a quarterly fee of 0.25% per annum to 0.40% per annum on the unused portion of the 2020 Revolving Facility, which is determined based on the Company's leverage ratio each quarter. Additional customary fees apply with respect to letters of credit.

The obligations of the Company under the 2020 Credit Agreement are secured by pledges of stock in certain domestic and foreign subsidiaries, as well as guarantees by substantially all of the Company's domestic subsidiaries. The obligations of the Company and the guarantors under the 2020 Credit Agreement are secured by substantially all the assets (excluding real estate) of the Company and such guarantors. The 2020 Credit Agreement restricts the Company from paying cash dividends and requires the Company to comply with other customary covenants, representations, and warranties, including the maintenance of specific financial ratios. The financial maintenance covenants include an interest coverage ratio and a leverage ratio. The Company was in compliance with its financial maintenance covenants at December 31, 2020. If the Company is not in compliance with any of these covenant restrictions, the credit facility could be terminated by the lenders, and all amounts outstanding pursuant to the credit facility could become immediately payable.

Our other long-term debt is not significant and consists of debt held by one of our Japanese subsidiaries of approximately \$0.0 million at December 31, 2020 and \$0.1 million at December 31, 2019. The debt is payable monthly over the next 1 year at a zero interest rate.

See Note 7 to our consolidated financial statements for additional details.

Our business has historically generated significant cash flow. Our cash provided by operating activities for the year ended December 31, 2020 was \$35.3 million as compared to \$30.9 million for the year ended December 31, 2019. Our net cash used in investing activities for the year ended December 31, 2020 was \$21.8 million, comprised mainly of capital spending as

compared to \$51.1 million for the year ended December 31, 2019, which included the purchase of DSI for \$40 million. Our net cash used for financing activities for the year ended December 31, 2020 was \$5.0 million which reflects the repayment of the Canadian term loans and the conversion of the US term loans to revolver under the 2020 credit facility, as compared to net cash provided by financing activities of \$16.5 million for the year ended December 31, 2019, which reflects the higher borrowings on the revolving credit facility which were used to fund the purchase of DSI.

Approximately 90% of our cash and cash equivalents balance at December 31, 2020 and 2019, respectively, was held by our non-U.S. subsidiaries. See the following table for the percentage of cash and cash equivalents, by region, at December 31, 2020 and December 31, 2019:

	December 31,		
	2020	2019	
Asia	18 %	23 %	
United States	10 %	7 %	
Israel	26 %	28 %	
Europe	16 %	14 %	
United Kingdom	18 %	17 %	
Canada	12 %	11 %	
Total	100 %	100 %	

We earn a significant amount of our operating income outside the United States, the majority of which is deemed to be indefinitely reinvested in the foreign jurisdictions. As a result, as discussed above, a significant portion of our cash and short-term investments are held by foreign subsidiaries. The Company will continue to evaluate its cash needs, however we currently do not intend, nor do we foresee a need, to repatriate funds in excess of what is already planned. The Company will evaluate the possibility of repatriating future cash provided such repatriation can be accomplished in a tax efficient manner. In addition, we expect existing domestic cash, short-term investments, and cash flows from operations to continue to be sufficient to fund our domestic operating activities and cash commitments for investing and financing activities, such as debt repayment and capital expenditures, for at least the next 12 months and thereafter for the foreseeable future.

If we should require more capital in the United States than is generated by our domestic operations, for example, to fund significant discretionary activities, such as business acquisitions, we could elect to repatriate future earnings from foreign jurisdictions or raise capital in the United States through debt or equity issuances. These alternatives could result in higher tax expense, increased interest expense, or dilution of our earnings. We consider the majority of the undistributed earnings of our foreign subsidiaries, as of December 31, 2020, to be indefinitely reinvested.

For the year ended December 31, 2020, we generated adjusted free cash flow of \$13.3 million. We refer to "adjusted free cash flow," a measure which management uses to evaluate our ability to fund acquisitions, as the amount of cash provided by operating activities (\$35.3 million) in excess of our capital expenditures (\$22.9 million) and net of proceeds from the sale of assets (\$0.9 million).

The following table summarizes the components of net cash at December 31, 2020 and at December 31, 2019 (in thousands):

		December 31,		
	2020			2019
Cash and cash equivalents	\$	98,438	\$	86,910
Third-party debt, including current and long-term				
Term loans	\$	_	\$	10,496
Revolving debt		41,000		34,000
Third-party debt held by Japanese subsidiary		18		149
Deferred financing costs		(374)		(112)
Total third-party debt		(356)		44,533
Net cash	\$	98,794	\$	42,377

Measurements such as "adjusted free cash flow" and "net cash" do not have uniform definitions and are not recognized in accordance with U.S. GAAP. Such measures should not be viewed as alternatives to GAAP measures of performance or liquidity. However, management believes that "adjusted free cash flow" is a meaningful measure of our ability to fund

acquisitions, and that an analysis of "net cash" assists investors in understanding aspects of our cash and debt management. These measures, as calculated by us, may not be comparable to similarly titled measures used by other companies.

Our financial condition as of December 31, 2020 is strong, with a current ratio (current assets to current liabilities) of 4.7 to 1.0, as compared to a current ratio of 2.4 to 1.0 at December 31, 2019.

Cash paid for property and equipment for the year ended December 31, 2020 and December 31, 2019 was \$22.9 million and \$11.2 million, respectively. Capital spending for 2020 was comprised of building projects related to capacity expansion in Israel and other projects related to the normal maintenance of business, cost reduction programs, and some carryover projects from 2019. Capital expenditures for 2021 are expected to be approximately \$26.1 million, which includes capital equipment for capacity expansion in the Foil Technology Products reporting segment and expected building projects of approximately \$6.1 million for capacity expansion in Israel and Asia.

#### Inflation

Normally, inflation does not have a significant impact on our operations as our products are not generally sold on long-term contracts. Consequently, we can adjust our selling prices, to the extent permitted by competition, to reflect cost increases caused by inflation.

### **Recent Accounting Pronouncements**

See Note 1 to our consolidated financial statements for a discussion of recent accounting pronouncements.

#### Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to certain financial risks, including fluctuations in foreign currency exchange rates, interest rates, and commodity prices. We manage our exposure to these market risks through internally established policies and procedures. Our policies do not allow speculation in derivative instruments for profit or execution of derivative instrument contracts for which there are no underlying exposures. We do not use financial instruments for trading purposes and we are not a party to any leveraged derivatives. We monitor our underlying market risk exposures on an ongoing basis and believe that we can modify or adapt our strategies as needed.

#### Interest Rate Risk

We are exposed to changes in interest rates as a result of our borrowing activities and our cash balances.

The Company entered into a third amended and restated revolving credit facility on March 20, 2020. Interest payable on the facility is based upon the Agent's prime rate, the Federal Funds rate or LIBOR, plus a spread. At December 31, 2020, the Company has \$41.0 million borrowings outstanding under the revolving credit facility.

At December 31, 2020, we have \$98.4 million of cash and cash equivalents, which accrue interest at various variable rates.

Based on the debt and cash positions at December 31, 2020 and 2019, we would expect a 50 basis point increase or decrease in interest rates to increase or decrease our annualized net earnings by \$0.2 million and \$0.1 million in 2020 and 2019, respectively.

See Note 7 to our consolidated financial statements for additional information about our long-term debt.

#### Foreign Exchange Risk

We are exposed to foreign currency exchange rate risks, particularly due to market values of transactions in currencies other than the functional currencies of certain subsidiaries. Our significant foreign currency exposures are to the British pound, Canadian dollar, Chinese renminbi, euro, Indian rupee, Israeli shekel, Japanese yen, Swedish krona, and Taiwanese dollar.

Our operations in Europe, Canada, and certain locations in Asia primarily generate and expend cash in local currencies. Our operations in Israel and certain locations in Asia primarily generate cash in U.S. dollars, but these subsidiaries also have significant transactions in local currencies. Our exposure to foreign currency risk is mitigated to the extent that the costs incurred and the revenues earned in a particular currency offset one another. Our exposure to foreign currency risk, with respect to expenses, is more pronounced in Israel and India because the percentage of expenses denominated in Israeli shekels and Indian rupee to total expenses is much greater than the percentage of sales denominated in Israeli shekels and Indian rupee to total sales. Therefore, if the Israeli shekel and Indian rupee strengthen against all or most of our other major currencies, our operating profit is reduced. We also have a higher percentage of British pound-denominated sales than expenses. Therefore, when the British pound strengthens against all or most of our other major currencies, our operating profit is increased.

We have performed a sensitivity analysis as of December 31, 2020 and 2019, respectively, using a model that measures the change in the values arising from a hypothetical 10% adverse movement in foreign currency exchange rates relative to the U.S. dollar, with all other variables held constant. The foreign currency exchange rates we used were based on market rates in effect at December 31, 2020 and 2019, respectively. The sensitivity analysis indicated that a hypothetical 10% adverse movement in foreign currency exchange rates would impact our net earnings by approximately \$2.3 million and \$2.7 million for the years ended December 31, 2020 and December 31, 2019, respectively, although individual line items in our consolidated statements of operations could be materially affected. For example, a 10% weakening in all foreign currencies would increase the U.S. dollar equivalent of operating income generated in foreign currencies, which would be offset by foreign exchange losses of our foreign subsidiaries that have significant transactions in U.S. dollars or have the U.S. dollar as their functional currency.

A change in the mix of the currencies in which we transact our business could have a material effect on the estimated impact of the hypothetical 10% movement in the value of the U.S. dollar. Furthermore, the timing of cash receipts and disbursements could result in materially different actual results versus the hypothetical 10% movement in the value of the U.S. dollar, particularly if there are significant changes in exchange rates in a short period of time.

#### Commodity Price Risk

Although most materials incorporated in our products are available from a number of sources, certain materials are available only from a relatively limited number of suppliers.

Some of the most highly specialized materials for our sensors are sourced from a single vendor. We maintain a safety stock inventory of certain critical materials at our facilities.

Certain metals used in the manufacture of our products are traded on active markets, and can be subject to significant price volatility.

Our results of operations may be materially and adversely affected if we have difficulty obtaining these raw materials, the quality of available raw materials deteriorates, or there are significant price changes for these raw materials. For periods in which the prices of these raw materials are rising, we may be unable to pass on the increased cost to our customers which would result in decreased margins for the products in which they are used. For periods in which the prices are declining, we may be required to write down our inventory carrying cost of these raw materials, since we record our inventory at the lower of cost or market. Depending on the extent of the difference between market price and our carrying cost, this write-down could have a material adverse effect on our net earnings. We also may need to record losses for adverse purchase commitments for these materials in periods of declining prices.

We estimate that a 10% increase or decrease in the costs of raw materials subject to commodity price risk would decrease or increase our net earnings by \$1.5 million and \$1.2 million for the years ended December 31, 2020 and December 31, 2019, respectively, assuming that such changes in our costs have no impact on the selling prices of our products, and that we have no pending commitments to purchase metals at fixed prices.

## **Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**

The financial statements required by this Item are included herein, commencing on page F-1 of this report.

# <u>Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE</u>

None.

#### Item 9A. CONTROLS AND PROCEDURES

#### **Disclosure Controls and Procedures**

An evaluation was performed under the supervision and with the participation of our management, including the Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"), of the effectiveness of the design and operation of our disclosure controls and procedures, as such term is defined under Rule 13a-15(e) and Rule 15d-15(e) promulgated under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Based on that evaluation, our CEO and CFO concluded that our disclosure controls and procedures were effective as of the end of the period covered by this annual report to ensure that information required to be disclosed in reports that we file or submit under the Exchange Act are: (1) recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms; and (2) accumulated and communicated to our management, including our CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

Our management, including our CEO and CFO, believes that any disclosure controls and procedures or internal controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must consider the benefits of controls relative to their costs. Inherent limitations within a control system include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of a simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by unauthorized override of the control. While the design of any system of controls is to provide reasonable assurance of the effectiveness of disclosure controls, such design is also based in part upon certain assumptions about the likelihood of future events, and such assumptions, while reasonable, may not take into account all potential future conditions. Accordingly, because of the inherent limitations in a cost effective control system, misstatements due to error or fraud may occur and may not be prevented or detected.

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

There were no changes in our internal control over financial reporting during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

#### Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). Under the supervision and with the participation of our management, including our CEO and CFO, we conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2020 based on the 2013 framework set forth in *Internal Control - Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2020.

Brightman Almagor Zohar & Co., a firm in the Deloitte Global Network, has issued an attestation report on the effectiveness of our internal control over financial reporting, as stated in their report which is set forth on the next page.

#### Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Vishay Precision Group, Inc.

#### **Opinion on Internal Control over Financial Reporting**

We have audited the internal control over financial reporting of Vishay Precision Group, Inc. (the "Company") as of December 31, 2020, based on criteria established in *Internal Control-Integrated Framework (2013)* 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, 2020, based on criteria established in *Internal Control-Integrated Framework (2013)* issued by COSO.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the 2020 consolidated financial statements of the Company and our report dated March 11, 2021 expressed an unqualified opinion thereon.

## **Basis for Opinion**

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

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

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

# **Definition and Limitations of Internal Control Over Financial Reporting**

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

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

/s/ Brightman Almagor Zohar & Co, A Firm in the Deloitte Global Network Tel Aviv, Israel March 11,2021

#### **Item 9B. OTHER INFORMATION**

None.

#### **PART III**

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

Certain information required under this Item with respect to our Executive Officers is contained under the heading "Executive Officers" in Item 1 hereof. Other information required under this Item will be contained under the heading "Nominees for Election as Directors" in our definitive proxy statement for the Company's 2021 Annual Meeting of Stockholders, which will be filed within 120 days of December 31, 2020, our most recent fiscal year end, and is incorporated herein by reference.

The Company has adopted codes of conduct that constitute "codes of ethics" as that term is defined in paragraph (b) of Item 406 of Regulation S-K and that apply to the Company's principal executive officer, principal financial officer, principal accounting officer or controller, and to any persons performing similar functions. Such codes of conduct are posted on the Company's internet website, the address of which is www.vpgsensors.com.

#### **Item 11. EXECUTIVE COMPENSATION**

Information required under this Item will be contained in our definitive proxy statement for the Company's 2021 Annual Meeting of Stockholders, which will be filed within 120 days of December 31, 2020, our most recent fiscal year end, and is incorporated herein by reference.

# <u>Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS</u>

Information required under this Item will be contained in our definitive proxy statement for the Company's 2021 Annual Meeting of Stockholders, which will be filed within 120 days of December 31, 2020, our most recent fiscal year end, and is incorporated herein by reference.

# <u>Item 13. CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS, AND DIRECTOR INDEPENDENCE</u>

Information required under this Item will be contained in our definitive proxy statement for the Company's 2021 Annual Meeting of Stockholders, which will be filed within 120 days of December 31, 2020, our most recent fiscal year end, and is incorporated herein by reference.

#### **Item 14. PRINCIPAL ACCOUNTING FEES AND SERVICES**

Information required under this Item will be contained in our definitive proxy statement for the Company's 2021 Annual Meeting of Stockholders, which will be filed within 120 days of December 31, 2020, our most recent fiscal year end, and is incorporated herein by reference.

#### PART IV

#### **Item 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES**

- (a) Documents Filed as part of Form 10-K
  - i) Financial Statements

The Consolidated Financial Statements for the year ended December 31, 2020 are filed herewith. See index to the Consolidated Financial Statements on page F-1 of this report.

ii) Financial Statement Schedules

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

iii) Exhibits

# Exhibit Description No.

- 2.1 Stock Purchase Agreement, dated November 1, 2019, by and among Vishay Precision Group, Inc., DSI Holdings DE Inc., the sellers identified therein, and HCI Equity Partners III, L.P., not individually but solely in its capacity as the representative of the Sellers (previously filed as Exhibit 2.1 to the Registrant's Current Report on Form 8-K filed with the SEC on November 4, 2019 and incorporated herein by reference).
- Amended and Restated Certificate of Incorporation of Vishay Precision Group, Inc., effective June 25, 2010 (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 1, 2010 and incorporated herein by reference).
- Amendment no. 1 to Amended and Restated Certificate of Incorporation of Vishay Precision Group, Inc., effective June 2, 2011 (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on June 6, 2011 and incorporated herein by reference).
- 3.3 Second Amended and Restated Bylaws of Vishay Precision Group, Inc., adopted as of June 2, 2011 (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on June 6, 2011 and incorporated herein by reference).
- Description of Registrant's Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934 (previously filed as an exhibit to the Registrant's Annual Report on Form 10-K filed with the SEC on March 11, 2020 and incorporated herein by reference).
- Master Separation and Distribution Agreement, dated June 22, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. (previously filed as an exhibit to the Registrant's Form 10 Registration Statement of Vishay Precision Group, Inc., filed with the Securities and Exchange Commission on June 22, 2010 and incorporated herein by reference).
- Employee Matters Agreement, dated June 22, 2010, by and among Vishay Intertechnology, Inc. and Vishay Precision Group, Inc. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on June 23, 2010 and incorporated herein by reference).
- Tax Matters Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
- Trademark License Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Intertechnology, Inc. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
- Supply Agreement, dated July 6, 2010, between Vishay Advanced Technology, Ltd. and Vishay Dale Electronics, Inc. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
- 10.6\* Patent License Agreement, dated July 6, 2010, between Vishay Precision Group, Inc. and Vishay Dale Electronics, Inc. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
- 10.7\* Supply Agreement, dated July 6, 2010, between Vishay Dale Electronics, Inc. and Vishay Advanced Technology, Ltd. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
- 10.8\* Lease Agreement, dated July 4, 2010, between Vishay Advanced Technology, Ltd. and V.I.E.C. Ltd. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).

Exhibit	Description
No. 10.9*	Supply Agreement, dated July 6, 2010, between Vishay Measurements Group, Inc. and Vishay S.A. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
10.10*	Manufacturing Agreement, dated July 6, 2010, between Vishay S.A. and Vishay Precision Foil GmbH (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
10.11	Intellectual Property License Agreement, dated July 6, 2010, between Vishay S.A. and Vishay Precision Foil GmbH (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
10.12*	Supply Agreement, dated July 6, 2010, between Vishay Precision Foil GmbH and Vishay S.A. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
10.13	Intellectual Property License Agreement, dated July 6, 2010, between Vishay S.A. and Vishay Measurements Group, Inc. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
10.14	Lease Agreement, between Alpha Electronics Corp. and Vishay Japan Co., Ltd. (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on July 7, 2010 and incorporated herein by reference).
10.15†	Amended and Restated 2010 Vishay Stock Incentive Program, adopted as of June 2, 2011 (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on June 6, 2011 and incorporated herein by reference).
10.16	Lease Agreement between Vishay Advanced Technologies Ltd and Mega Or Holdings Ltd, dated February 17, 2019 (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed with the SEC on January 19, 2019 and incorporated herein by reference).
10.17†	Form of Stock Option Award Agreement (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on November 12, 2010 and incorporated herein by reference).
10.18†	Form of Restricted Stock Unit Award Agreement for Director Grants (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on November 12, 2010 and incorporated herein by reference).
10.19†	Form of Restricted Stock Unit Award Agreement for Employee Grants (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on November 12, 2010 and incorporated herein by reference).
10.20†	Employment Agreement, dated November 17, 2010, by and among Vishay Advanced Technology and Ziv Shoshani (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on November 23, 2010 and incorporated herein by reference).
10.21†	Employment Agreement, dated November 17, 2010, by and among Vishay Precision Group, Inc. and William M. Clancy (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on November 23, 2010 and incorporated herein by reference).
10.22†	Amendment to Employment Agreement, dated December 8, 2011 by and among Vishay Advanced Technologies, Ltd. and Ziv Shoshani (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on December 13, 2011 and incorporated herein by reference).
10.23†	Amendment to Employment Agreement, dated December 8, 2011 by and among Vishay Precision Group, Inc. and William M. Clancy (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on December 13, 2011 and incorporated herein by reference).
10.24†	Form of Performance Restricted Stock Unit Award Agreement for Employee Grants (previously filed as an exhibit to the Registrant's Current Report on Form 10-K filed with the SEC on March 12, 2013 and incorporated herein by reference).
10.25	Lease Agreement, between George Kelk Corporation and Anndale Properties Limited (and its successors), dated

- Lease Agreement, between George Kelk Corporation and Anndale Properties Limited (and its successors), dated January 30, 1996 and as amended as of January 17, 2011 (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with SEC on May 8, 2013 and incorporated herein by reference).
- 10.26 Vishay Precision Group, Inc. 2010 Stock Incentive Program, as Amended and Restated Effective May 21, 2013 (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on May 22, 2013 and incorporated herein by reference).
- 10.27† Amendment to Employment Agreement, dated November 7, 2013 by and among Vishay Advanced Technologies, Ltd. and Ziv Shoshani (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on November 12, 2013 and incorporated herein by reference).

Exhibit No.	Description
10.28†	Amendment to Employment Agreement, dated November 7, 2013 by and among Vishay Precision Group, Inc. and William Clancy (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on November 12, 2013 and incorporated herein by reference).
10.29	Lease agreement, dated January 26, 2014, by and among between Vishay Advanced Technologies, Inc. and Tefen Enterprises Ltd. (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on May 7, 2014 and incorporated herein by reference).
10.30	Stock Purchase Agreement, dated December 14, 2015, by and among VPG Systems U.S., Inc., Stress-Tek, Inc., the shareholders of Stress-Tek, Inc., and Keith Reichow, as Representative (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on December 15, 2015 and incorporated herein by reference).
10.31	Third Amended and Restated Credit Agreement, dated March 20, 2020, by and among Vishay Precision Group, Inc., the lenders party thereto, Citizens Bank, National Association, Wells Fargo Bank, National Association, and JPMorgan Chase Bank, National Association (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed with the SEC on March 23, 2020 and incorporated herein by reference).
10.32	Stock Purchase Agreement, dated March 30, 2016, by and among Vishay Precision Group, Inc., Pacific Instruments, Inc., the shareholders of Pacific Instruments, Inc., John Hueckel and Norman Hueckel as Owners, and John Hueckel, as Representative (previously filed as an exhibit to the Registrant's Current Report on Form 8-K filed with the SEC on April 5, 2016 and incorporated herein by reference).
10.33†	Form of Indemnification Agreement with directors (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on May 11, 2016 and incorporated herein by reference).
10.34†	Employment Agreement, dated March 15, 2020, by and between Vishay Advanced Technologies, Ltd. and Amir Tal (previously filed as an exhibit to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on May 5, 2020 and incorporated herein by reference).
10.35	Lease agreement, dated July 7, 2016, by and among between Vishay Advanced Technologies, Ltd. and Marshee Estates & Investments Ltd. (previously filed as an exhibit to the Registrant's Current Report on Form 10-K filed with the SEC on March 16, 2016 and incorporated herein by reference).
10.36†	Amendment to Employment Agreement, dated May 8, 2017, by and among Vishay Precision Group, Inc. and William M. Clancy (previously filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on May 9, 2017 and incorporated herein by reference).
10.37†	Amendment to Employment Agreement, dated August 7, 2017, by and among Vishay Advanced Technologies, Ltd. and Ziv Shoshani (previously filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on August 8, 2017 and incorporated herein by reference).
10.38†	Vishay Precision Group, Inc. 2017 Non-Employee Director Compensation Plan (previously filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on May 9, 2018 and incorporated herein by reference).
10.39†	Amendment to Employment Agreement,dated March 10, 2019, by and among Vishay Advanced Technologies Ltd. and Ziv Shoshani (previously filed as Exhibit 10.45 to the Registrant's Annual Report on Form 10-K filed with the SEC on March 14, 2019 and incorporated herein by reference).
10.40†	Amendment to Employment Agreement, dated March 11, 2019, by and among Vishay Precision Group, Inc. and William Clancy (previously filed as Exhibit 10.46 to the Registrant's Annual Report on Form 10-K filed with the SEC on March 14, 2019 and incorporated herein by reference).
16.1	Letter of Ernst & Young LLP, dated May 31, 2019 (previously filed as Exhibit 16.1 to the Registrant's Current Report on Form 8-K filed with the SEC on May 31, 2019 and incorporated herein by reference).
21.1	List of Subsidiaries.
23.1	Consent of Brightman Almagor Zohar & Co, a Firm in the Deloitte Global Network, relating to the Registrant's financial statements.
23.2	Consent of Ernst & Young LLP relating to the Registrant's financial statements.
21 1	Contification purguent to Dula 12a 14(a) or 15d 14(a) under the Securities Evaluates Act of 1024 as adopted

- Certification pursuant to Rule 13a-14(a) or 15d-14(a) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 Ziv Shoshani, Chief Executive Officer.
- Certification pursuant to Rule 13a-14(a) or 15d-14(a) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 William M. Clancy, Chief Financial Officer.
- 32.1 Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 Ziv Shoshani, Chief Executive Officer.
- 32.2 Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 William M. Clancy, Chief Financial Officer.

Exhibit No.	Description
101	Interactive Data File (Annual Report on Form 10-K, for the year ended December 31, 2020, furnished in XBRL (eXtensible Business Reporting Language)).

<sup>\*</sup> Confidential treatment has been accorded to certain portions of this Exhibit. Omitted portions have been filed separately with the Securities and Exchange Commission.

# Item 16. FORM 10-K SUMMARY

None.

<sup>†</sup> Denotes a management contract or compensatory plan, contract or arrangement.

#### **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.

VISHAY PRECISION GROUP, INC.

By: /s/ Ziv Shoshani
Ziv Shoshani

Date: March 11, 2021 President and Chief Executive Officer

#### POWER OF ATTORNEY

Vishay Precision Group, Inc., a Delaware corporation, and each person whose signature appears below constitutes and appoints each of Ziv Shoshani and William M. Clancy, and either of them, such person's true and lawful attorney-in-fact, with full power of substitution and resubstitution, for such person and in such person's name, place and stead, in any and all capacities, to sign on such person's behalf, individually and in each capacity stated below, any and all amendments to this Annual Report on Form 10-K and other documents in connection therewith, and to file the same and all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact, and each of them, full power and authority to do and perform each and every act and thing necessary or desirable to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, thereby ratifying and confirming all that said attorneys-in-fact, or any of them, or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, this Form 10-K has been signed by the following persons on behalf of the Registrant in the capacities and on the date indicated below.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ Ziv Shoshani	Chief Executive Officer and Director	March 11, 2021
Ziv Shoshani	(Principal Executive Officer)	
/s/ William M. Clancy	Executive Vice President & Chief Financial Officer	March 11, 2021
William M. Clancy	(Principal Financial and Accounting Officer)	
/s/ Marc Zandman	Director	March 11, 2021
Marc Zandman		
/s/ Saul V. Reibstein	Director	March 11, 2021
Saul V. Reibstein		
/ / m'	<b>D</b> :	16 1 11 2021
/s/ Timothy V. Talbert	Director	March 11, 2021
Timothy V. Talbert		
/s/ Janet Clarke	Director	March 11, 2021
Janet Clarke	Bilettoi	Widicii 11, 2021
Janet Clarke		
/s/ Bruce Lerner	Director	March 11, 2021
Bruce Lerner		,
/s/ Wesley Cummins	Director	March 11, 2021
Wesley Cummins		

# Vishay Precision Group, Inc. Index to Consolidated Financial Statements

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# Report of Independent Registered Public Accounting Firm To the Shareholders and the Board of Directors of Vishay Precision Group, Inc.

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

We have audited the accompanying consolidated balance sheets of Vishay Precision Group, Inc. (the "Company") as of December 31, 2020 and 2019, the related consolidated statements of operations, comprehensive income, equity, and cash flows for each of the two years in the period ended December 31, 2020, and the related notes (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, 2020 and 2019, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2020, in conformity with accounting principles generally accepted in the United States of America.

We have also 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, 2020, based on criteria established in *Internal Control-Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission, and our report dated March 11, 2021, expressed an unqualified opinion on the Company's internal control over financial reporting.

#### **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

Goodwill and Indefinite-lived Intangible Assets – Instrumentation and DSI Reporting Units — Refer to Note 4 to the Financial Statements

Critical Audit Matter Description

The Company's quantitative goodwill and indefinite-lived intangible assets impairment test involves the comparison of the fair value of each reporting unit or asset to its carrying value.

In estimating the fair value of the Instrumentation and DSI reporting units, the Company used the income approach to evaluate the estimated fair value of the reporting units. The income approach to valuation requires management to make significant estimates and assumptions related to future revenues, profitability, working capital requirements and selection of discount and long term growth rates. Changes in these estimates and assumptions could have a significant impact on the fair value of the reporting units. In estimating the fair value of the indefinite-lived trade names, the Company compares the carrying value to the fair value based on current revenue projections of the related operations, under the relief from royalty method. Any excess carrying value over the applicable fair value is recognized as impairment.

During 2020, the Company recognized an impairment loss of \$2.4 million for the Instrumentation reporting unit's goodwill and indefinite-lived trade name. After considering the impact of the impairment charges, the carrying amount of goodwill and indefinite-lived trade name as of December 31, 2020, is \$1.1 million and \$0.4 million, respectively.

The carrying amount of goodwill and indefinite-lived trade name as of December 31, 2020, for the DSI reporting unit is \$16.9 million and \$3.3 million, respectively. The fair value of the DSI reporting unit and indefinite-lived trade name exceeds the carrying value by approximately 12% and 16%, respectively.

We identified goodwill and indefinite-lived trade names for the Instrumentation and DSI reporting units as a critical audit matter because of the significant judgments made by management to estimate fair value and the sensitivity to changes in management estimates and assumptions. This required a high degree of auditor judgment and an increased extent of effort, including the need to involve our fair value specialists, when performing audit procedures to evaluate the reasonableness of management's estimates and assumptions related to forecasts of future revenues, profitability, working capital requirements and selection of the discount and long term growth rates.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to forecasts of future revenues, profitability, working capital requirements and selection of discount and long term growth rates used by management to estimate the fair value of the Instrumentation and DSI reporting units and indefinite-lived trade names included the following, among others:

- We tested the effectiveness of controls over management's impairment evaluation, including those over the
  determination of the fair value of the Instrumentation and DSI reporting units and indefinite-lived trade names, such as
  controls related to management's forecasts of future revenues, profitability, working capital requirements and selection
  of discount and long term growth rates.
- We evaluated management's ability to accurately forecast operating performance by comparing actual results to management's historical forecasts.
- We evaluated the reasonableness of management's forecasts of future revenues, profitability and working capital requirements by comparing the forecasts to:
  - Historical revenues, profitability and working capital requirements.
  - Internal communications to management and the Board of Directors.
- With the assistance of our fair value specialists, we evaluated the valuation methodologies and the reasonableness of the discount and long term growth rates, including testing the underlying source information and the mathematical accuracy of the calculations, and developing a range of independent estimates and comparing those to the discount and long term growth rates selected by management.

/s/ Brightman Almagor Zohar & Co. A Firm in the Deloitte Global Network Tel Aviv, Israel March 11, 2021

We have served as the Company's auditor since 2019.

To the Shareholders and the Board of Directors of Vishay Precision Group, Inc.

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

We have audited the accompanying consolidated statements of operations, comprehensive income, equity and cash flows of Vishay Precision Group, Inc. (the Company) for the year ended December 31, 2018, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the results of operations of the Company and its cash flows for the year ended December 31, 2018, in conformity with U.S. generally accepted accounting principles.

## **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 audit. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (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 the financial statements are free of material misstatement, whether due to error or fraud. Our audit 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 audit 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 audit provides a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We served as the Company's auditor from 2009 to 2019.

Philadelphia, Pennsylvania March 14, 2019

Consolidated Balance Sheets

(In thousands, except share amounts)

	December 31, 2020			
Assets				
Current assets:				
Cash and cash equivalents	\$	98,438	\$	86,910
Accounts receivable, net of allowances for credit losses of \$879 and \$555, respectively		45,339		43,198
Inventories:				
Raw materials		21,894		21,701
Work in process		21,534		23,128
Finished goods		18,920		22,066
Inventories		62,348		66,895
Prepaid expenses and other current assets		15,761		15,558
Total current assets		221,886		212,561
Property and equipment, at cost:				
Land		4,282		4,243
Buildings and improvements		67,581		52,708
Machinery and equipment		115,717		111,492
Software		10,026		9,384
Construction in progress		6,341		2,485
Accumulated depreciation		(128,931)		(119,042)
Property and equipment, net		75,016		61,270
Goodwill		31,105		35,018
Intangible assets, net		32,039		34,198
Operating lease right-of-use assets		21,788		8,691
Other assets		20,053		18,675
Total assets	\$	401,887	\$	370,413

Consolidated Balance Sheets (continued) (In thousands, except share amounts)

	December 31, 2020	December 31, 2019
Liabilities and equity		
Current liabilities:		
Trade accounts payable	\$ 10,487	\$ 8,869
Payroll and related expenses	17,595	16,312
Other accrued expenses	13,843	16,126
Income taxes	1,593	261
Current portion of operating lease liabilities	4,011	2,827
Current portion of long-term debt	18	44,516
Total current liabilities	47,547	88,911
Long-term debt, less current portion	40,626	17
Deferred income taxes	3,403	3,478
Operating lease liabilities	19,504	5,811
Other liabilities	16,263	14,775
Accrued pension and other postretirement costs	16,687	15,669
Total liabilities	144,030	128,661
Commitments and contingencies		
Equity:		
Preferred stock, par value \$1.00 per share: authorized - 1,000,000 shares; none issued	_	
Common stock, par value \$0.10 per share: authorized - 25,000,000 shares; 12,552,439 shares outstanding as of December 31, 2020 and 12,500,006 shares outstanding as of December 31, 2019	1,317	1,312
Class B convertible common stock, par value \$0.10 per share: authorized - 3,000,000 shares; 1,022,887 shares outstanding as of December 31, 2020 and December 31, 2019	103	103
Treasury stock, at cost - 619.667 shares held at December 31, 2020 and December 31, 2019	(8,765)	(8,765)
Capital in excess of par value	197,764	197,125
Retained earnings	100,075	89,288
Accumulated other comprehensive loss	(32,671)	(37,703)
Total Vishay Precision Group, Inc. stockholders' equity	257,823	241,360
Noncontrolling interests	34	392
Total equity	257,857	241,752

Consolidated Statements of Operations (In thousands, except per share amounts)

	Year	ended December 31,				
	 2020		2019		2018	
Net revenues	\$ 269,812	\$	283,958	\$	299,794	
Costs of products sold	165,541		172,341		178,527	
Gross profit	104,271		111,617		121,267	
Selling, general, and administrative expenses	78,256		79,622		80,935	
Acquisition costs	_		443		_	
Impairment of goodwill and indefinite-lived intangibles	2,440				2,820	
Executive severance costs	_		611			
Restructuring costs	918		2,293		289	
Operating income	22,657		28,648		37,223	
Other income (expense):						
Interest expense	(1,366)		(1,507)		(1,738)	
Other	(2,982)		(701)		(1,496)	
Other expenses - net	(4,348)		(2,208)		(3,234)	
Income before taxes	18,309		26,440		33,989	
Income tax expense	7,509		4,145		10,344	
Net earnings	10,800		22,295		23,645	
Less: net earnings (loss) attributable to noncontrolling interests	13		107		(1)	
Net earnings attributable to VPG stockholders	\$ 10,787	\$	22,188	\$	23,646	
Basic earnings per share attributable to VPG stockholders	\$ 0.80	\$	1.64	\$	1.76	
Diluted earnings per share attributable to VPG stockholders	\$ 0.79	\$	1.63	\$	1.75	
Weighted average shares outstanding - basic	13,566		13,515		13,439	
Weighted average shares outstanding - diluted	13,623		13,597		13,535	

**VISHAY PRECISION GROUP, INC.**Consolidated Statements of Comprehensive Income (In thousands)

		Year	s end	led Decembe	r 31,	
		2020		2019		2018
Net earnings	\$	10,800	\$	22,295	\$	23,645
Other comprehensive income (loss), net of tax:						
Foreign currency translation adjustment		5,169		558		(3,929)
Pension and other postretirement actuarial items		(137)		(796)		1,914
Other comprehensive income (loss)		5,032		(238)		(2,015)
Comprehensive income		15,832		22,057		21,630
Less: comprehensive income (loss) attributable to noncontrolling interests		13		107		(1)
Comprehensive income attributable to VPG stockholders	<u>\$</u>	15,819	\$	21,950	\$	21,631

Consolidated Statements of Cash Flows (In thousands)

	Years ended December 31,					l <b>,</b>
		2020		2019		2018
Operating activities						
Net earnings	\$	10,800	\$	22,295	\$	23,645
Adjustments to reconcile net earnings to net cash provided by operating activities:						
Impairment of goodwill and indefinite-lived intangibles		2,440				2,820
Depreciation and amortization		12,507		11,795		10,631
Loss from extinguishment of debt		30				_
(Gain) loss on disposal of property and equipment		(130)		34		(120)
Reclassification of foreign currency translation adjustment related to disposal of subsidiary		_		(827)		_
Share-based compensation expense		1,387		1,336		1,799
Inventory write-offs for obsolescence		2,525		2,588		1,876
Deferred income taxes		1,153		(2,556)		1,011
Other		1,735		358		819
Net changes in operating assets and liabilities, net of acquisition:						
Accounts receivable		(753)		11,369		(7,757)
Inventories		2,986		(619)		(5,095)
Prepaid expenses and other current assets		67		(5,087)		588
Trade accounts payable		59		(2,273)		(819)
Other current liabilities		507		(7,481)		5,981
Net cash provided by operating activities		35,313		30,932		35,379
Investing activities						
Capital expenditures		(22,949)		(11,196)		(14,521)
Proceeds from sale of property and equipment		983		615		132
Purchase of business		156		(40,481)		
Net cash used in investing activities		(21,810)		(51,062)		(14,389)
Financing activities						
Principal payments on long-term debt		(3,493)		(4,618)		(5,603)
Debt issuance costs		(402)				_
Proceeds from revolving facility		_		22,000		22,000
Payments on revolving facility		_				(19,000)
Purchase of non-controlling interest		(253)		_		_
Distributions to noncontrolling interests		(70)		(52)		(109)
Payments of employee taxes on certain share-based arrangements		(813)		(854)		(801)
Net cash (used in) provided by financing activities		(5,031)		16,476		(3,513)
Effect of exchange rate changes on cash and cash equivalents		3,056		405		(1,610)
Increase (decrease) in cash and cash equivalents		11,528		(3,249)		15,867
Cash and cash equivalents at beginning of year		86,910		90,159		74,292
Cash and cash equivalents at end of year	\$	98,438	\$	86,910	\$	90,159
Supplemental disclosure of investing transactions:	•	(0.4.225)	Ф	(10.530)	¢.	(10.000)
Capital expenditures purchased Capital expenditures accrued but not yet paid	<b>\$</b> <b>\$</b>	(24,327) 2,561	\$ \$	(10,529)	\$	(13,239)
Supplemental disclosure of financing transactions:	Φ	2,301	Φ	1,183		
Conversion of exchangeable notes to common stock	\$	_	\$	_	\$	(2,794)
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See accompanying notes.

VISHAY PRECISION GROUP, INC. Consolidated Statements of Equity (In thousands, except share amounts)

	Common Stock	Class B Convertible Common Stock	Treasury Stock	Capital in Excess of Par Value	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total VPG Inc. Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at January 1, 2018	\$ 1,288	\$ 103	\$(8,765)	\$ 192,904	\$ 43,076	\$ (35,450)	\$ 193,156	\$ 148	\$ 193,304
Net earnings					23,646		23,646	(1)	23,645
Other comprehensive loss						(2,015)	(2,015)		(2,015)
Share-based compensation expense				1,799			1,799		1,799
Restricted stock issuances (59,038 shares)	7			(819)			(812)		(812)
Common stock issuance from conversion of exchangeable notes (123,808 shares)	12			2,782		l	2,794		2,794
Cumulative effect adjustment for adoption of ASU 2016-16					(153)		(153)		(153)
Distributions to noncontrolling interests	1		1	1	1	1	1	(109)	(109)
Balance at December 31, 2018	\$ 1,307	\$ 103	\$(8,765)	\$ 196,666	\$ 66,569	\$ (37,465)	\$ 218,415	\$ 38	\$ 218,453
Net earnings					22,188		22,188	107	22,295
Other comprehensive income						(238)	(238)		(238)
Share-based compensation expense				1,336			1,336		1,336
Restricted stock issuances (48.482 shares)	5			(877)			(872)		(872)
Cumulative effect adjustment for adoption of ASC 842					531		531		531
Conversion from Class B to common stock (2,271shares)									
Impact due to DSI acquisition				1		1		299	299
Distributions to noncontrolling interests						1	1	(52)	(52)
Balance at December 31, 2019	\$ 1,312	\$ 103	\$(8,765)	\$ 197,125	\$ 89,288	\$ (37,703)	\$ 241,360	\$ 392	\$ 241,752
Net earnings					10,787	1	10,787	13	10,800
Other comprehensive income						5,032	5,032	1	5,032
Share-based compensation expense				1,387			1,387	1	1,387
Restricted stock issuances (52,433 shares)	S		l	(962)			(791)		(791)
Purchase of noncontrolling interest			l	48			48	(301)	(253)
Distributions to noncontrolling interests					1			(20)	(70)
Balance at December 31, 2020	\$ 1,317	\$ 103	\$(8,765)	\$ 197,764	\$100,075	\$ (32,671)	\$ 257,823	\$ 34	\$ 257,857

# Vishay Precision Group, Inc.

#### Notes to Consolidated Financial Statements

#### Note 1 – Background and Summary of Significant Accounting Policies

#### Background

Vishay Precision Group, Inc. ("VPG" or the "Company") is an internationally recognized designer, manufacturer and marketer of sensors, and sensor-based measurement systems, as well as specialty resistors and strain gages based upon the Company's proprietary technology. The Company provides precision products and solutions, many of which are "designed-in" by its customers, specializing in the growing markets of stress, force, weight, pressure, and current measurements.

#### **Principles of Consolidation**

The consolidated financial statements include the accounts of the individual entities in which the Company maintained a controlling financial interest. For those subsidiaries in which the Company's ownership is less than 100 percent, the outside stockholders' interests are shown as noncontrolling interests in the accompanying consolidated balance sheets.

All transactions, accounts, and profits between individual members comprising the Company have been eliminated in consolidation.

#### Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Actual results could differ significantly from those estimates.

#### Revenue Recognition

The Company derives substantially all of its revenue from product sales. The Company recognizes the vast majority of its sales at a point-in-time. It utilizes the core principle of recognizing revenue when the Company satisfies performance obligations as evidenced by the transfer of control of its products to the customer.

Such revenues are derived from purchase orders and/or contracts with customers. Each contract has the promise to transfer the control of the products, each of which is individually distinct and is considered the identified performance obligation. As part of the decision to enter into each contract, the Company evaluates the customer's credit risk, but its contracts do not have any significant financing components, as payment is generally due net 30 to 60 days after delivery. In accordance with contract terms, revenue from the Company's product sales is recognized at the time of product shipment from its facilities or delivery to the customer location, as determined by the agreed upon shipping terms.

Under the terms of some of its contracts, the Company may be required to perform certain installation services. These installation services are performed at the time of product delivery or at some point thereafter. The installation services do not significantly modify the product provided, and although the Company may be required contractually to provide these services, the installation services could be performed by a third party or the customer. Thus, these installation services are a distinct performance obligation. In most of the applicable contracts, this installation service element is immaterial in the context of the agreement. When the installation services are accounted for as a separate performance obligation, the Company allocates the transaction price to this element based on its relative standalone selling price.

Given the specialized nature of the Company's products, the Company generally does not allow product returns. Shipping and handling costs are recorded to Costs of product sold when control of the product has transferred to the customer. The Company offers standard product warranties. Warranty related costs continue to be recognized as expense when the products are sold. Sales, value add and other taxes collected concurrent with revenue-producing activities are excluded from revenue. See Note 2 for further details on Revenues.

#### Research and Development Expenses

Research and development costs are expensed as incurred. The amount charged to expense for research and development was \$12.6 million, \$12.1 million, and \$11.8 million for the years ended December 31, 2020, 2019, and 2018, respectively.

#### Note 1 – Background and Summary of Significant Accounting Policies (continued)

#### Income Taxes

The Company accounts for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined based on the difference between the financial statement and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income tax expense in the period that includes the enactment date.

The Company records net deferred tax assets to the extent it believes such assets will "more likely than not" be realized. In making this determination, the Company considers all positive and negative evidence, including historic earnings, projected future income, and cost-effective tax-planning strategies. When the Company determines that its ability to realize deferred tax assets is not "more likely than not", the Company adjusts its deferred tax asset valuation allowance, which increases income tax expense.

The Company records uncertain tax positions on the basis of a two-step process in which the Company first determines whether it is "more likely than not" that the tax positions will be sustained based on the technical merits of the position and then measures those tax positions that meet the more-likely-than-not recognition threshold. The Company recognizes the largest amount of tax benefit that is greater than 50 percent likely to be realized upon ultimate settlement with the tax authority.

The Company recognizes interest and penalties related to unrecognized tax benefits within income tax expense in the accompanying consolidated statements of operations. Accrued interest and penalties are included within the related tax liability line in the consolidated balance sheets.

On December 22, 2017, the SEC staff issued SAB 118 to address the application of U.S. GAAP in situations when a registrant does not have all the necessary information available to prepare and analyze the accounting treatment for the proper recognition of the tax impact of the 2017 Tax Act. In accordance with SAB 118 guidance, the Company had recorded the provisional tax impacts related to the deemed distribution of foreign earnings and the expense for the revaluation of deferred tax assets and liabilities in its consolidated financial statements for the year ended December 31, 2017. In accordance with SAB 118, the financial reporting impact of the 2017 Tax Act was completed in the fourth quarter of 2018 resulting in a net increase in tax expense of \$0.8 million.

#### Cash and Cash Equivalents

Cash and cash equivalents include demand deposits and highly liquid investments with original maturities of three months or less when purchased. Highly liquid investments with maturities greater than three months are classified as short-term investments. There were no investments classified as short-term investments at December 31, 2020 or 2019.

#### Allowance for Credit Losses

The Company maintains an allowance for credit losses resulting from the inability of its customers to make required payments. In determining the amount of the allowance for credit losses, the Company considers historical loss data, customer specific information, current market conditions and reasonable and supportable forecasts of future economic conditions to inform adjustments to historical loss data. The allowance for credit losses was \$0.9 million and \$0.6 million at December 31, 2020 and 2019, respectively. The credit loss was \$0.3 million, \$0.1 million, and \$0.0 million for the years ended December 31, 2020, 2019, and 2018, respectively.

#### **Inventories**

Inventories are stated at the lower of cost, determined by the first-in, first-out method, or market based on net realizable value. Inventories are adjusted for estimated excess and obsolescence and written down to net realizable value based upon estimates of future demand, technology developments, and market conditions.

#### Property and Equipment

Property and equipment is carried at cost and is depreciated principally by the straight-line method based upon the estimated useful lives of the assets. Machinery and equipment are being depreciated over useful lives of seven to fifteen years. Buildings and building improvements are being depreciated over useful lives of twenty to forty years or the lease term. Software is being depreciated over useful lives of three to five years. Construction in progress is not depreciated until the assets are placed in service. Depreciation expense was \$10.1 million, \$10.1 million, and \$8.9 million for the years ended December 31, 2020, 2019, and 2018, respectively, which included software depreciation expense of \$0.7 million, \$0.6 million, and \$0.5 million for the years ended December 31, 2020, 2019, and 2018, respectively.

#### Note 1 – Background and Summary of Significant Accounting Policies (continued)

#### **Business Combinations**

The Company allocates the purchase price of an acquired company, including when applicable, the fair value of contingent consideration between tangible and intangible assets acquired and liabilities assumed from the acquired businesses based on estimated fair values, with any residual of the purchase price recorded as goodwill. Third party appraisal firms and other consultants are engaged to assist management in determining the fair values of certain assets acquired and liabilities assumed. Estimating fair values requires significant judgments, estimates and assumptions, including but not limited to: discount rates, future cash flows and the economic lives of trade names, technology, customer relationships, property, plant and equipment, as well as income taxes. These estimates are based on historical experience and information obtained from the management of the acquired companies, and are inherently uncertain.

### Goodwill and Other Intangible Assets

Goodwill and indefinite-lived trademarks are tested for impairment at least annually, and whenever events or changes in circumstances occur indicating that it is "more likely than not" impairment may have been incurred. The Company has the option to first assess qualitative factors to determine whether it is "more likely than not" that the fair value of a reporting unit is less than its carrying amount as a basis for determining if it is necessary to perform the quantitative goodwill impairment test. However, if the Company concludes otherwise, then it is required to perform the quantitative impairment test by calculating the fair value of the reporting unit and comparing it against its carrying amount. If the fair value exceeds the carrying value, no further evaluation is required and no impairment loss is recognized. An impairment charge would be recognized to the extent the carrying amount of goodwill exceeds the reporting unit fair value.

The indefinite-lived trade names are tested for impairment either by employing the qualitative approach outlined above, or by comparing the carrying value to the fair value based on current revenue projections of the related operations, under the relief from royalty method. Any excess carrying value over the applicable fair value is recognized as impairment. Any impairment would be recognized in the reporting period in which it has been identified.

The Company's required goodwill and indefinite-lived asset annual impairment test is completed as of the first day of the fourth fiscal quarter each year. As more fully described in Note 4 to the consolidated financial statements, the 2020 annual impairment test resulted in an impairment charge in the fourth quarter of 2020. The 2019 annual impairment test resulted in no impairment. The 2018 annual impairment test resulted in an impairment charge in the fourth quarter of 2018.

Definite-lived intangible assets, such as customer relationships, patents and acquired technology, non-competition agreements, and certain trade names are amortized on a straight-line method over their estimated useful lives. Patents and acquired technology are being amortized over useful lives of seven to twenty years. Customer relationships are being amortized over useful lives of five to fifteen years. Trade names are being amortized over useful lives of seven to ten years. Non-competition agreements are being amortized over periods of five to ten years. The Company continually evaluates the reasonableness of the useful lives of these assets. Additionally, the Company reviews the carrying values of these assets for possible impairment whenever events or changes in circumstances indicate that the carrying value of the asset may not be recoverable based on undiscounted estimated cash flows expected to result from its use and eventual disposition.

#### Impairment of Long-Lived Assets

The carrying value of long-lived assets held-and-used, other than goodwill and indefinite-lived intangible assets, is evaluated when events or changes in circumstances indicate the carrying value may not be recoverable. The carrying value of a long-lived asset group is considered impaired when the total projected undiscounted cash flows from such asset group are separately identifiable and are less than the carrying value. In that event, a loss is recognized based on the amount by which the carrying value exceeds the fair market value of the long-lived asset group. Fair market value is determined primarily using present value techniques based on projected cash flows from the asset group. Losses on long-lived assets held-for-sale, other than goodwill and indefinite-lived intangible assets, are determined in a similar manner, except that fair market values are reduced for disposal costs.

#### Foreign Currency Translation

The Company has significant operations outside of the United States. The Company's operations in Europe, Canada, and certain locations in Asia primarily generate and expend cash in local currencies, and accordingly, these subsidiaries utilize the local currency as their functional currency. The Company's operations in Israel and certain locations in Asia primarily generate cash in U.S. dollars, and accordingly, these subsidiaries utilize the U.S. dollar as their functional currency.

#### Note 1 – Background and Summary of Significant Accounting Policies (continued)

For those subsidiaries where the local currency is the functional currency, assets and liabilities in the consolidated balance sheets have been translated at the rate of exchange as of the balance sheet date. Revenues and expenses are translated at the average exchange rate for the year. Translation adjustments do not impact the consolidated statements of operations and are reported as a separate component of accumulated other comprehensive loss within the statement of comprehensive income. Foreign currency transaction gains and losses are included in the results of operations.

For those foreign subsidiaries where the U.S. dollar is the functional currency, all foreign currency financial statement amounts are remeasured into U.S. dollars. Exchange gains and losses arising from remeasurement of foreign currency-denominated monetary assets and liabilities are included in the consolidated statements of operations.

#### Share-Based Compensation

Compensation costs related to share-based payments are recognized in the consolidated financial statements. The amount of compensation cost is measured based on the grant-date fair value of the equity instruments issued. For service-based awards, compensation cost is recognized over the period that an officer, employee, or non-employee director provides service in exchange for the award. The Company recognizes forfeitures as they occur. For performance based awards, the Company recognizes compensation cost for awards that are expected to vest based on whether performance criteria are expected to be met. For options and restricted stock units subject to graded vesting, the Company recognizes expense over the service period for each separately vesting portion of the award as if the award was comprised of multiple awards.

#### Leases

The Company determines if an arrangement is or contains a lease at inception or modification of such agreement. The arrangement is or contains a lease if the contract conveys the right to control the use of the identified asset for a period in exchange for consideration.

Lease right of use assets and liabilities are recognized based on the present value of future minimum lease payments over the expected term at commencement date. As the implicit rate is not determinable in most of the Company's leases, the Company's incremental borrowing rate is used as the basis to determine the present value of future lease payments. The expected lease terms include options to extend or terminate. The period which is subject to an option to extend the lease is included in the lease term if it is reasonably certain that the option will be exercised. Some of these leases contain variable payment provisions that depend on an index or rate, initially measured using the index or rate at the lease commencement date and are therefore not included in our future minimum lease payments. Variable payments are expensed in the periods incurred. Lease expense for minimum lease payments is recognized on a straight-line basis over the expected lease term. The Company uses the practical expedients to exclude from balance sheet reporting leases with initial terms of 12 months or less and to exclude non-lease components from lease right of use assets and corresponding liabilities.

# Commitments and Contingencies

Liabilities for loss contingencies arising from claims, assessments, litigation, fines, penalties, and other sources are recorded when it is probable that a liability has been incurred and the amount of the assessment and/or remediation can be reasonably estimated.

#### Recently Adopted Accounting Pronouncements

In June 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2016-13, Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments ("ASU 2016-13"), which requires the measurement and recognition of expected credit losses for financial assets held at amortized cost. ASU 2016-13, and subsequent related amendments to ASU 2016-13, replace the existing incurred loss impairment model with an expected loss model that requires the use of forward-looking information to calculate credit loss estimates. The Company adopted this ASU, effective January 1, 2020, using the modified retrospective approach, and the effect on the Company's consolidated condensed financial statements and related disclosures was not material.

In August 2018, the FASB issued ASU No. 2018-13, "Fair Value Measurements (Topic 820)." This ASU modifies the disclosures on fair value measurements by removing the requirements to disclose the amount and reasons for transfers between Level 1 and Level 2 of the fair value hierarchy and the policy for timing of such transfers. The ASU expands the disclosure requirements for Level 3 fair value measurements, primarily focused on changes in unrealized gains and losses included in other comprehensive income. The Company adopted this ASU effective January 1, 2020, and the effect on the Company's disclosures in its consolidated financial statements was not material.

# Note 1 - Background and Summary of Significant Accounting Policies (continued)

In August 2018, the FASB issued ASU No. 2018-14, "Disclosure Framework - Changes to the Disclosure Requirements for Defined Benefit Plans." This ASU amends Accounting Standards Codification ("ASC") 715 to add, remove and clarify disclosure requirements related to defined benefit and pension and other postretirement plans. The Company adopted this ASU effective January 1, 2020, and determined that the effect on the Company's disclosures in its consolidated financial statements was not material.

# Recently Issued Accounting Pronouncements

In December 2019, the FASB issued ASU No. ASU 2019-12, "Simplifying the Accounting for Income Taxes". This ASU amends Accounting Standards Codification ("ASC") 740 by removing certain exceptions to the general principles, clarifying and amending existing guidance. This guidance is effective for fiscal years, and interim periods within those years, beginning after December 15, 2020 and early adoption is permitted. The Company has not yet adopted this ASU.

#### Note 2 – Revenues

The following table disaggregates net revenue by geographic region from contracts with customers based on net revenues generated by subsidiaries within that geographic location (in thousands):

		Year Ended De	cember 3	1, 2020	
	Technology Products	Force Sensors		ighing and rol Systems	Total
United States	\$ 49,713	\$ 27,699	\$	30,849	\$ 108,261
United Kingdom	3,276	8,491		11,375	23,142
Other Europe	30,046	9,020		15,618	54,684
Israel	21,432	384			21,816
Asia	27,178	8,130		8,122	43,430
Canada	 <u> </u>	 <u> </u>		18,479	18,479
	\$ 131,645	\$ 53,724	\$	84,443	\$ 269,812

		Year Ended De	cemb	er 31, 2019	
	Technology Products	Force Sensors		Weighing and Control Systems	Total
United States	\$ 56,393	\$ 33,695	\$	24,227	\$ 114,315
United Kingdom	3,181	10,450		15,576	29,207
Other Europe	32,328	10,811		16,860	59,999
Israel	12,401	415			12,816
Asia	27,500	8,986		8,331	44,817
Canada		 		22,804	 22,804
	\$ 131,803	\$ 64,357	\$	87,798	\$ 283,958

		Year Ended De	cember :	31, 2018	
	Technology Products	Force Sensors		eighing and trol Systems	Total
United States	\$ 61,132	\$ 39,955	\$	23,818	\$ 124,905
United Kingdom	3,666	11,787		14,296	29,749
Other Europe	31,431	10,678		18,741	60,850
Israel	11,028	517			11,545
Asia	33,752	10,249		7,442	51,443
Canada	 <u> </u>			21,302	21,302
	\$ 141,009	\$ 73,186	\$	85,599	\$ 299,794
	 ·			<u> </u>	 

#### Note 2 – Revenues (continued)

The following table disaggregates net revenue by market sector (in thousands):

	 )	Years E	nded December 3	51,	
	2020		2019		2018
Test & Measurement	\$ 53,633	\$	64,982	\$	72,728
Avionics, Military & Space	32,607		23,653		29,221
Transportation	29,483		36,914		39,107
Other Markets	58,256		50,169		48,665
Industrial Weighing	43,441		54,678		59,214
General Industrial	15,351		20,466		24,696
Steel	 37,041		33,096		26,163
	\$ 269,812	\$	283,958	\$	299,794

#### Contract Assets & Liabilities

Contract assets are established when revenues are recognized prior to a contractual payment due from the customer. When a payment becomes due based on the contract terms, the Company will reduce the contract asset and record a receivable. Contract liabilities are deferred revenues that are recorded when cash payments are received or due in advance of our performance obligations. Our payment terms vary by the type and location of the products offered. The term between invoicing and when payment is due is not significant.

The outstanding contract assets and liability accounts were as follows (in thousands):

	<b>Contract Asset</b>	Contract Liability	
	 Unbilled Revenue	<b>Accrued Customer Advances</b>	
December 31, 2019	\$ 3,937	\$ 4,56	1
<b>December 31, 2020</b>	\$ 3,605	\$ 2,87	3
Increase (decrease)	\$ (332)	\$ (1,68	8)

The amount of revenue recognized during the year ended December 31, 2020 that was included in the contract liability balance at December 31, 2019 was \$4.2 million.

#### **Practical Expedients**

The Company does not disclose the value of unsatisfied performance obligations for contracts that have a duration of one year or less and for contracts that are substantially complete. The Company treats shipping and handling activities as fulfillment costs.

#### Note 3 – Acquisition Activity

#### Dynamic Systems Inc.

On November 1, 2019, VPG completed the acquisition of New York-based Dynamic Systems Inc. ("DSI"), a provider of specialized dynamic thermal-mechanical test and simulation systems used to develop new metal alloys and optimize production processes, for a purchase price of \$40.3 million, subject to customary adjustments. During the second quarter of 2020, the Company received \$0.2 million from escrow as a purchase price adjustment, resulting in a reduction of goodwill. Additionally, it was determined that an earn out, which was part of the purchase price, was not achieved. DSI reports into the Company's Weighing and Control Systems segment. The following table summarizes the final fair values assigned to the assets and liabilities of DSI as of November 1, 2019 (in thousands):

	Nover	nber 1, 2019	Adjustments	Adjusted
Working capital (a)	\$	6,874	\$ (134) \$	6,740
Property and equipment		1,727		1,727
Long-term deferred income tax liability		(4,321)	1,678	(2,643)
Non-Controlling interest		(299)		(299)
Intangible assets:				
Patents and acquired technology		10,250		10,250
Customer relationships		4,344		4,344
Trade names		3,300		3,300
Total intangible assets		17,894	_	17,894
Fair value of acquired identifiable assets and liabilities		21,875	1,544	23,419
Purchase price		40,481	(156)	40,325
Goodwill	\$	18,606	\$ (1,700) \$	16,906

<sup>(</sup>a) Working capital accounts include accounts receivable, inventory, prepaid expenses, accounts payable, accrued expenses, and accrued payroll.

The fair value of the contingent consideration is zero. The weighted average useful lives for the patents and acquired technology and customer relationships are 16 years, and 15 years, respectively. Most of the goodwill associated with DSI is deductible for income tax purposes.

The Company recorded acquisition costs of associated with this transaction in its consolidated statements of operation as follows (in thousands):

	Decemb	er 31, 2019
Accounting and legal fees	\$	214
Appraisal fees		13
Other		216
	\$	443

Year ended

#### Note 3 – Acquisition Activity (continued)

Following are the supplemental consolidated financial results for the Company on an unaudited pro forma basis, as if the DSI acquisition had been consummated on January 1, 2019 (unaudited):

	Year end	led December 31, 2019
Pro forma net revenues	\$	298,085
Pro forma net earnings attributable to VPG stockholders	\$	25,737
Pro forma basic earnings per share attributable to VPG stockholders	\$	1.90
Pro forma diluted earnings per share attributable to VPG stockholders	\$	1.89

#### Note 4 – Goodwill and Other Intangible Assets

The Company has four reporting units to which goodwill is allocated: steel, on-board weighing, instrumentation, and DSI. For the steel and on-board weighing goodwill reporting units, the Company performed the qualitative assessment, which included assessment of macroeconomic conditions, industry and market considerations, cost factors, overall financial performance, and other entity specific events which could impact the reporting unit. Based on this review, it was determined that the fair value of each of those reporting units was in excess of its carrying value and therefore no quantitative impairment test was required.

For the instrumentation and DSI goodwill reporting units, the Company performed the quantitative impairment test. In estimating the fair value of our instrumentation and DSI reporting units the Company used the income approach. It further uses the market approach to evaluate the estimated fair value of the reporting units that was obtained by using the income approach. The income approach to valuation requires management to make significant estimates and assumptions related to future revenues, profitability, working capital requirements and selection of discount rate and long term growth rate. Changes in these estimates and assumptions could have a significant impact on the fair value of the reporting units.

The Company's required goodwill and indefinite-lived asset annual impairment test is completed as of the first day of the fourth fiscal quarter each year. In 2020, the results of the quantitative impairment test for the DSI reporting unit indicated no impairment, with the fair value exceeding the carrying value by approximately 12% for goodwill and 16% for the indefinite-lived trade name.

The results of the quantitative impairment test for the instrumentation reporting unit's goodwill and indefinite-lived trade name indicated an impairment, and in the fourth quarter of 2020, the Company recognized a non-cash impairment loss of \$2.4 million. The impairment was driven mainly by changes in forecasted projections including a slower growth rate in revenues. After considering the impact of the impairment charges, the carrying amount of goodwill and indefinite-lived trade names as of December 31, 2020 was \$1.1 million and \$0.4 million, respectively.

The Company's analysis in 2019 resulted in the fair value exceeding the carrying value for all reporting units. In 2019, the Company did not recognize an impairment for the instrumentation reporting unit, as the fair value exceeded its carrying value by approximately 12%.

During 2018, the Company recognized a non-cash impairment loss associated with the goodwill and indefinite lived intangible assets in the instrumentation reporting unit of \$2.5 million. The impairment was primarily from lower margins on the forecasted projections due to product mix. The impairment test for the remaining reporting units resulted in the fair value exceeding the carrying value, passing the quantitative impairment test.

The change in the carrying amount of goodwill by segment is as follows (in thousands):

	 Total	Weighing and Control Systems Segment				Foil Technology Products Segment		
		<u>KELK</u> <u>Acquisition</u>	<u>!</u>	<u>DSI</u> <u>Acquisition</u>		ress-Tek equisition		<u>Pacific</u> Instruments
Balance at January 1, 2019	\$ 16,141	\$ 6,288	3		\$	6,311	\$	3,542
Goodwill acquired	18,606		-	18,606		_		_
Foreign currency translation adjustment	271	271	<u> </u>	<u>—</u>				<u> </u>
Balance at December 31, 2019	35,018	6,559	)	18,606		6,311		3,542
Adjustments to purchase price	(1,700)	_	-	(1,700)		_		_
Impairment charges	(2,416)	_	-	_		_		(2,416)
Foreign currency translation adjustment	203	167	<u> </u>	36				
Balance at December 31, 2020	\$ 31,105	\$ 6,726	<u> </u>	\$ 16,942	\$	6,311	\$	1,126

Intangible assets were as follows (in thousands):

		December 31,			
	202	0	2019		
Intangible assets subject to amortization					
(Definite-lived):					
Patents and acquired technology	\$ 1	9,804 \$	19,504		
Customer relationships	2	6,061	25,690		
Trade names		1,747	1,690		
Non-competition agreements	1	2,259	11,745		
	5	9,871	58,629		
Accumulated amortization:					
Patents and acquired technology	(	5,895)	(4,718)		
Customer relationships	(1	3,363)	(11,727)		
Trade names	(	1,747)	(1,690)		
Non-competition agreements	(1	2,250)	(11,717)		
	(3	3,255)	(29,852)		
Net intangible assets subject to amortization	<b>\$</b> 2	6,616 \$	28,777		
Intangible assets not subject to amortization					
(Indefinite-lived):					
Trade names		5,423	5,421		
	\$ 3	2,039 \$	34,198		

Certain intangible assets are subject to foreign currency translation.

Amortization expense was \$2.4 million, \$1.7 million, and \$1.7 million, for the years ended December 31, 2020, 2019, and 2018, respectively.

Estimated annual amortization expense for each of the next five years is as follows (in thousands):

2021	\$ 2,452
2022	2,451
2023	2,343
2024	2,308
2025	2,308

#### **Note 5 – Restructuring Costs**

Restructuring costs reflect the cost reduction programs implemented by the Company. Restructuring costs are expensed during the period in which the Company determines it will incur those costs and all requirements for accrual are met. Because these costs are recorded based upon estimates, actual expenditures for the restructuring activities may differ from the initially recorded costs. If the initial estimates are too low or too high, the Company could be required to either record additional expense in future periods or to reverse part of the previously recorded charges.

The Company recorded restructuring costs of \$0.9 million, \$2.3 million, and \$0.3 million during the years ended December 31, 2020, 2019, and 2018, respectively. In 2020 and 2018, restructuring costs were comprised primarily of employee termination costs, including severance and statutory retirement allowances, and were incurred in connection with various cost reduction programs. In 2019, restructuring costs included \$1.2 million of employee termination costs, including severance and statutory retirement allowances incurred in connection with various cost reduction programs, and \$1.1 million of other exit costs, including asset write downs and an impairment of a right of use asset associated with the closure and downsizing of facilities as part of the manufacturing transitions of the Company's force sensors products to facilities in India and China.

The following table summarizes the activity to date related to these programs in the accrued restructuring liability, which is comprised of the activity associated primarily with the employee termination costs. The accrued restructuring liability balance as of December 31, 2020 and 2019, respectively, is included in other accrued expenses in the accompanying consolidated balance sheets (in thousands):

	December 31,				
		2020		2019	
Balance at beginning of year	\$	604	\$	159	
Restructuring charges		918		1,559	
Adjustment for adoption of ASU 2016-02				(69)	
Cash payments		(1,458)		(1,064)	
Foreign currency translation		(1)		19	
Balance at end of year	\$	63		604	

#### Note 6 - Income Taxes

For financial reporting purposes, income before taxes includes the following components (in thousands):

	Years ended December 31,								
	2020		2019		2018				
Domestic	\$ (9,476)	\$	(7,405)	\$	(7,897)				
Foreign	27,785		33,845		41,886				
	\$ 18,309	\$	26,440	\$	33,989				

The expense (benefit) for income taxes is comprised of (in thousands):

	Yo	Years ended December 31,						
	2020		2019		2018			
Current:								
Federal	\$ 10	6 \$	453	\$	189			
State and local	(1	8)	(130)		162			
Foreign	6,26	8	6,378		8,982			
	6,35	6	6,701		9,333			
Deferred:								
Federal	1,71	8	(2,638)		197			
State and local	(42	2)	(123)		(35)			
Foreign	(14	3)	205		849			
	1,15	3	(2,556)		1,011			
Total income tax expense	\$ 7,50	9 \$	4,145	\$	10,344			

A reconciliation of income tax expense (benefit) at the U.S. federal statutory income tax rate to the actual income tax provision is as follows (in thousands):

	Years ended December 31,							
		2020		2019		2018		
Tax at statutory rate	\$	3,845	\$	5,553	\$	7,138		
State income taxes, net of U.S. federal tax benefit		(176)		(21)		89		
Effect of foreign operations		729		(109)		611		
Change in valuation allowance		2,448		(646)		498		
Change in unrecognized tax benefits, net		(32)		650		258		
Impairment of goodwill		507		_		525		
Specialty tax credits		(249)		(176)		(295)		
Statutory rate changes		(119)		(249)		272		
Effect of foreign exchange		(346)		(1,152)		321		
Loss of benefit of U.S. net operating loss (a)		1,064		967		_		
Excess tax benefits related to share based compensation (a)		(168)		(357)		_		
2017 Tax Act:								
Effects of U.S. tax reform		_		_		(135)		
Change in valuation allowance		_		_		945		
Other		6		(315)		117		
Total income tax expense	\$	7,509	\$	4,145	\$	10,344		

#### Note 6 – Income Taxes (continued)

On December 22, 2017, the SEC staff issued SAB 118 which provides for a measurement period of one year from the enactment date to finalize the accounting for effects of the 2017 Tax Act. Consistent with that guidance, the Company had provisionally determined the tax cost of the one-time transition tax under the 2017 Tax Act to be approximately \$2.2 million. In accordance with SAB 118, the financial reporting impact of the 2017 Tax Act was completed in the fourth quarter of 2018 resulting in a net \$0.8 million increase in tax expense caused by a decrease in the transition tax and an increase in the valuation allowance.

The 2017 Tax Act subjects a U.S. shareholder to tax on global intangible low-taxed income ("GILTI") earned by certain foreign subsidiaries. The FASB Staff Q&A, Topic 740, No. 5, Accounting for Global Intangible Low-Taxed Income, states that an entity can make an accounting policy election to either recognize deferred taxes for temporary basis differences expected to reverse as GILTI in the future years or provide for tax expense related to GILTI in the year the tax is incurred. The Company has elected to recognize tax expense related to GILTI in the year the tax is incurred.

The Company recognized approximately \$14.3 million and \$12.9 million of GILTI income for the years ended December 31, 2020 and 2019, respectively. The U.S. tax on the GILTI income was fully offset by foreign tax credits associated with GILTI and U.S. operating losses exclusive of GILTI. Any excess foreign tax credits associated with GILTI are lost and cannot be carried forward to future years. The Company would have generated a net operating loss for U.S. federal income tax purposes but for the effects of the GILTI provision.

Deferred income taxes represent the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts for income tax purposes.

Significant components of the Company's deferred tax assets and liabilities are as follows (in thousands):

	December 31,				
		2020		2019	
Deferred tax assets:					
Pension and other postretirement costs	\$	4,296	\$	3,770	
Inventories		2,327		2,095	
Net operating/capital loss and interest carryforwards		13,082		11,895	
Tax credit carryforwards		1,994		1,431	
Deferred compensation		2,930		2,865	
Other accruals and reserves		3,420		3,362	
Book over tax depreciation		93			
Total gross deferred tax assets		28,142		25,418	
Less: valuation allowance		(16,946)		(14,867)	
		11,196		10,551	
Deferred tax liabilities:					
Tax over book depreciation		_		(290)	
Investment in subsidiary		(1,927)		(1,845)	
Intangible assets, including tax deductible goodwill		(5,657)		(5,745)	
Total gross deferred tax liabilities		(7,584)		(7,880)	
Net deferred tax assets	\$	3,612	\$	2,671	

In 2015, the Company established a valuation allowance with respect to substantially all of its U.S. deferred tax assets due to uncertainty regarding the realization of these assets. Throughout 2019 and 2020, the Company reassessed its ability to realize its U.S. and other deferred tax assets by considering both positive and negative evidence regarding realization. The most significant negative evidence is continuing cumulative operating losses in the U.S. The impact of the acquisitions of Stress-Tek, Pacific Instruments and DSI was also considered in determining the realization of the U.S. deferred tax assets. Other aspects, such as operating results, additional interest expense and additional tax deductions related to the Stress-Tek acquisition, were also considered. The Company also considered positive evidence such as tax planning strategies and the projected benefits of our restructuring efforts. However, there was insufficient positive evidence to overcome the negative evidence.

<sup>(</sup>a) Amounts for 2018 are included in Other and fell below the 5% threshold.

#### Note 6 – Income Taxes (continued)

In November 2019, the Company acquired Dynamic Systems, Inc. ("DSI"), a U.S. company. DSI's opening balance sheet included \$17 million of gross deferred tax liabilities, including \$4.1 million of indefinite-lived liabilities. The acquisition contributed to a \$2.5 million net reduction in valuation allowance and current tax benefit for the Company in 2019. In the fourth quarter of 2020, the Company completed the purchase accounting for the acquisition of DSI, which resulted in the recognition of additional deferred tax assets of \$1.7 million and a corresponding increase in valuation allowance.

Overall, the cumulative losses and the acquisition impacts still indicate that realization of our U.S. deferred tax assets remains uncertain such that the Company cannot conclude that it is "more likely than not" that the deferred tax assets will be recoverable. We will continue to monitor the realization of U.S. deferred tax assets and reduce the valuation allowance if, and when, sufficient positive evidence of realization exists. At December 31, 2020 and 2019, the valuation allowance on U.S. deferred tax assets was approximately \$14.9 million and \$11.8 million, respectively. The net change in valuation allowance was approximately \$3.2 million.

The valuation allowance related to state taxes was \$0.7 million and \$0.8 million expense for the years ended December 31, 2020 and 2019, respectively.

The Company also has valuation allowances of \$2.0 million and \$3.1 million at December 31, 2020 and 2019, respectively, with respect to certain foreign net operating loss and capital loss carryforwards.

Significant valuation allowances are as follows (in thousands):

		ber 31,			
<u>Jurisdiction</u>		2020		2019	
U.S. federal	\$	5,816	\$	3,395	
U.S. state (net of U.S. federal tax benefit)		9,090		8,411	
Israel - capital losses		1,390		2,457	

December 21

The following table summarizes significant net operating losses and credit carryforwards as of December 31, 2020 (in thousands):

	Dec	ember 31,	
<u>Jurisdiction</u>		2020	Expiring
U.S. federal net operating losses	\$	5,548	No expiration
U.S. federal net operating loss		315	2036
U.S. federal interest expense carryover		5,191	No expiration
U.S. foreign tax credit		1,734	2026 - 2040
U.S. state net operating losses		102,090	2024 - 2040
Israel capital losses		6,042	No expiration

The U.S. federal net operating losses shown above are pre-acquisition losses of DSI. The utilization of these losses is limited to \$765 thousand per year pursuant to Internal Revenue Code ("IRC") Section 382. In addition, utilization of U.S. federal net operating losses is taken into account before the GILTI deduction allowable by IRC Section 250.

Undistributed earnings of the Company's foreign subsidiaries amounted to approximately \$178.2 million at December 31, 2020 compared to \$159.0 million at December 31, 2019. As a result of the 2017 Tax Act, in 2017 the Company had provided for a deferred tax liability of approximately \$1.8 million of withholding tax associated with a planned cash distribution of approximately \$25.5 million. As of December 31, 2020, other than the planned cash distribution of \$14.1 million, substantially all of the remaining undistributed earnings are considered to be indefinitely reinvested and accordingly no provision has been made with respect to these earnings for incremental foreign income taxes, state income taxes or foreign withholding taxes. If those earnings were distributed to the U.S., the Company could be subject to incremental foreign income taxes, state income taxes, and withholding taxes. Determination of the amount of unrecognized deferred tax liability is not practicable because of the uncertainty regarding the timing of any such distribution and the impact on existing valuation allowances. In addition to the \$1.5 million, additional withholding taxes of approximately \$18.0 million are estimated to be payable upon remittance of the remaining previously unremitted earnings as of December 31, 2020.

#### Note 6 – Income Taxes (continued)

Net income taxes paid were \$4.3 million, \$11.1 million, and \$7.3 million for the years ended December 31, 2020, 2019, and 2018, respectively.

The Company and its subsidiaries are subject to income taxes imposed by the U.S., various states, and the foreign jurisdictions in which we operate. Each jurisdiction establishes rules that set forth the years which are subject to examination by its tax authorities. While the Company believes the tax positions taken on its tax returns for each jurisdiction are supportable, they may still be challenged by the jurisdiction's tax authorities. In anticipation of such challenges, the Company has established reserves for tax-related uncertainties. These liabilities are based on the Company's best estimate of the potential tax exposures in each respective jurisdiction. It may take a number of years for a final tax liability in a jurisdiction to be determined, particularly in the event of an audit. If an uncertain matter is determined favorably, there could be a reduction in the Company's tax expense. An unfavorable determination could increase tax expense and could require a cash payment, including interest and penalties.

The following table summarizes changes in the Company's gross liabilities, excluding interest and penalties, associated with unrecognized tax benefits (in thousands):

	December 31,						
		2020		2019		2018	
Balance at beginning of year	\$	1,355	\$	912	\$	823	
Addition based on tax positions related to current year		51		144		189	
Addition based on tax positions related to prior years		_		668		182	
Reduction based on tax positions related to prior years		(57)		(32)		(98)	
Currency translation adjustments		92		3		(28)	
Reduction for settled tax examinations		(73)		_			
Reduction for payments made		(22)		(134)			
Reduction for lapses of statute of limitations		(102)		(206)		(156)	
Balance at end of year	\$	1,244	\$	1,355	\$	912	

The Company recognizes accrued interest and penalties related to unrecognized tax benefits as a component of income tax expense. Related to the unrecognized tax benefits noted above, for the years ended December 31, 2020, December 31, 2019 and December 31, 2018, the Company accrued total penalties and interest of \$0.0 million, \$0.0 million and \$0.1 million, respectively. As of December 31, 2020, December 31, 2019 and December 31, 2018, accrued penalties and interest were \$0.1 million, \$0.1 million and \$0.1 million, respectively.

Included in the balance of unrecognized tax benefits as of December 31, 2020, 2019, and 2018 is \$1.2 million, \$1.4 million, and \$0.9 million, respectively, of tax benefits that, if recognized, would impact the effective tax rate. The Company believes that it is reasonably possible that an increase in unrecognized tax benefits related to foreign exposures of between \$0.1 million and \$0.2 million may be necessary in 2020. As of December 31, 2020, the Company anticipates that it is reasonably possible that it will reverse less than \$0.1 million of its current unrecognized tax benefits within the next calendar year due to the expiration of the statute of limitations in certain jurisdictions. None of the unrecognized tax benefits the Company expects to reverse in 2021 due to statute lapses are covered by the Tax Matters Agreement.

The Company and its subsidiaries file U.S. federal income tax returns, as well as income tax returns in various state, local, and foreign jurisdictions. The Company files federal, state, and local income tax returns on a combined, unitary, or stand-alone basis. The statute of limitations in those jurisdictions generally ranges from 3 to 4 years. Additionally, the Company's foreign subsidiaries file income tax returns in the countries in which they have operations and the statutes of limitations in those jurisdictions generally range from 3 to 10 years.

During the fourth quarter of 2020, the Company concluded a tax examination in Israel for one of its subsidiaries covering 2015. The conclusion of the audit resulted in no significant change in tax and a release of \$0.1 million of reserves for uncertain tax positions for that year, including accrued interest.

During the second and third quarters of 2019, the Company concluded tax examinations in Taiwan and Belgium, respectively, for two of its subsidiaries, covering the years 2016 and 2017. The conclusion of the tax examinations resulted in no significant change in tax. During the fourth quarter of 2018, the Company concluded a tax examination in Germany for one of its subsidiaries, covering the years 2015 and 2016. The conclusion of the tax examination resulted in no significant change in tax.

The Company is subject to ongoing income tax audits, administrative appeals and judicial proceedings in India spanning a number of years.

#### Note 7 – Long-Term Debt

Long-term debt consists of the following (in thousands):

	December 31,				
	2020			2019	
2020 Credit Agreement - Revolving Facility	\$	41,000	\$	_	
2015 Credit Agreement - Revolving Facility		_		34,000	
2015 Credit Agreement - U.S. Closing Date Term Facility		_		2,038	
2015 Credit Agreement - U.S. Delayed Draw Term Facility		_		4,982	
2015 Credit Agreement - Canadian Term Facility		_		3,476	
Other debt		18		149	
Deferred financing costs		(374)		(112)	
		40,644		44,533	
Less: current portion		18		44,516	
	\$	40,626	\$	17	

#### 2020 Credit Agreement

On March 20, 2020, the Company entered into a Third Amended and Restated Credit Agreement (the "2020 Credit Agreement") among the Company, the lenders named therein, Citizens Bank, National Association and Wells Fargo Bank, National Association as joint lead arrangers and JPMorgan Chase Bank, National Association as agent for such lenders (the "Agent"), pursuant to which the terms of the Company's multi-currency, secured credit facility were revised to provide a secured revolving facility (the "2020 Revolving Facility") in an aggregate principal amount of \$75.0 million, with a sublimit of \$10.0 million which can be used for letters of credit for the account of the Company or its subsidiaries that are parties to the Credit Agreement. The proceeds of the 2020 Revolving Facility may be used for working capital and general corporate purposes, and a portion of such proceeds was used to refinance the Company's existing revolving credit facility in the amount of \$34.0 million and the Company's existing term loans as follows: (1) the "2015 U.S. Closing Date Term Facility" in an aggregate principal amount of \$2.0 million; and (2) the "2015 U.S. Delayed Draw Term Facility" in an aggregate principal amount of \$5.0 million. The aggregate principal amount of the 2020 Revolving Facility may be increased by a maximum of \$25.0 million upon the request of the Company, subject to the terms of the 2020 Credit Agreement. The 2020 Credit Agreement terminates on March 20, 2025. The 2020 Credit Agreement replaced the 2015 Credit Agreement.

Interest payable on amounts borrowed under the 2020 Revolving Facility is based upon, at the Company's option, (1) the greatest of: the Agent's prime rate, the Federal Funds rate, or a LIBOR floor (the "Base Rate"), or (2) LIBOR or CDOR plus a specified margin. An interest margin of 0.25% is added to Base Rate loans. Depending upon the Company's leverage ratio, an interest rate margin ranging from 1.50% to 2.75% per annum is added to the applicable LIBOR or CDOR rate to determine the interest payable on the LIBOR or CDOR loans. The Company is required to pay a quarterly fee of 0.25% per annum to 0.40% per annum on the unused portion of the 2020 Revolving Facility, which is determined based on the Company's leverage ratio each quarter. Additional customary fees apply with respect to letters of credit.

The obligations of the Company under the 2020 Credit Agreement are secured by pledges of stock in certain domestic and foreign subsidiaries, as well as guarantees by substantially all of the Company's domestic subsidiaries. The obligations of the Company and the guarantors under the 2020 Credit Agreement are secured by substantially all the assets (excluding real estate) of the Company and such guarantors. The 2020 Credit Agreement restricts the Company from paying cash dividends and requires the Company to comply with other customary covenants, representations, and warranties, including the maintenance of specific financial ratios. The financial maintenance covenants include an interest coverage ratio and a leverage ratio. The Company was in compliance with its financial maintenance covenants at December 31, 2020. If the Company is not in compliance with any of these covenant restrictions, the credit facility could be terminated by the lenders, and all amounts outstanding pursuant to the credit facility could become immediately payable.

#### Other Lines of Credit

In addition to the 2020 Revolving Facility discussed above, certain subsidiaries of the Company had committed short-term lines of credit with a foreign bank aggregating approximately \$3.0 million and \$3.0 million at December 31, 2020 and 2019, respectively. The Company had outstanding letters of credit under these short-term lines of credit of \$0.4 million and \$0.9 million at December 31, 2020 and 2019, respectively.

#### Note 7 – Long-Term Debt (continued)

#### Other Debt

Other debt consists of debt held by VPG's Japanese subsidiary and is payable monthly over the next 1 year at a zero interest rate

Aggregate annual maturities of long-term debt are as follows (in thousands):

2021	\$ 18
2022	_
2023	_
2024	
2025	41,000
Thereafter	

Interest paid on third-party debt was \$1.3 million, \$1.4 million, and \$1.6 million during the years ended December 31, 2020, 2019, and 2018, respectively.

#### Note 8 - Stockholders' Equity

The Company's Class B convertible common stock carries ten votes per share. The common stock carries one vote per share. Class B shares are transferable only to certain permitted transferees while the common stock is freely transferable. Class B shares are convertible on a one-for-one basis at any time into shares of common stock. Transfers of Class B shares other than to permitted transferees result in the automatic conversion of the Class B shares into common stock.

The Board of Directors may only declare dividends or other distributions with respect to the common stock or the Class B convertible common stock if it grants such dividends or distributions in the same amount per share with respect to the other class of stock. As discussed in Note 7, the Company is restricted from paying cash dividends. Stock dividends or distributions, on any class of stock, are payable only in shares of stock of that class. Shares of either common stock or Class B convertible common stock cannot be split, divided, or combined unless the other is also split, divided, or combined equally.

The Board of Directors is authorized, without further stockholder approval, to issue from time to time up to an aggregate of 1,000,000 shares of preferred stock in one or more series. The Board of Directors may fix or alter the designation, preferences, rights and any qualification, limitations, restrictions of the shares of any series, including the dividend rights, dividend rates, conversion rights, voting rights, redemption terms and prices, liquidation preferences and the number of shares constituting any series. No shares of the Company's preferred stock are currently outstanding.

#### Note 8 - Stockholders' Equity (continued)

#### Other Comprehensive Income (Loss)

The cumulative balance of each component of other comprehensive income (loss) and the income tax effects allocated to each component are as follows (in thousands):

	eginning Balance	Before- Tax mount	Tax Effect	Net-of- Tax Amount	Ending Balance
December 31, 2018					
Pension and other postretirement actuarial items	\$ (8,060)	\$ 1,392	\$ (18)	\$ 1,374	\$ (6,686)
Reclassification adjustment for recognition of actuarial items		685	(145)	540	540
Foreign currency translation adjustment	(27,390)	(3,857)	 (72)	(3,929)	(31,319)
	\$ (35,450)	\$ (1,780)	\$ (235)	\$ (2,015)	\$ (37,465)
December 31, 2019	,				
Pension and other postretirement actuarial items	\$ (6,146)	\$ (1,310)	\$ 194	\$ (1,116)	\$ (7,262)
Reclassification adjustment for recognition of actuarial items		359	(39)	320	320
Foreign currency translation adjustment	(31,319)	(290)	21	(269)	(31,588)
Reclassification adjustment for foreign currency translation		\$ 827		827	827
	\$ (37,465)	\$ (414)	\$ 176	\$ (238)	\$ (37,703)
December 31, 2020					
Pension and other postretirement actuarial items	\$ (6,942)	\$ (920)	\$ 319	\$ (601)	\$ (7,543)
Reclassification adjustment for recognition of actuarial items		537	(73)	464	464
Foreign currency translation adjustment	(30,761)	5,070	99	5,169	(25,592)
	\$ (37,703)	\$ 4,687	\$ 345	\$ 5,032	\$ (32,671)

In 2019, Reclassification of foreign currency translation adjustment for gain on liquidation of a subsidiary is included in other income (expense) other (See Note 15). Reclassifications of pension and other postretirement actuarial items out of accumulated other comprehensive income (loss) are included in the computation of net periodic benefit cost (See Note 9).

#### Note 9 – Pensions and Other Postretirement Benefits

#### **Defined Benefit Plans**

Employees of the Company participate in various defined benefit pension and other postretirement benefit plans.

#### U.S. Pension Plan

The Vishay Precision Group Non-Qualified Retirement Plan, like all nonqualified plans, is considered to be unfunded. The Company maintains a nonqualified trust, referred to as a "rabbi" trust, to fund benefits under this plan. Rabbi trust assets are subject to creditor claims under certain conditions and are not the property of employees. Therefore, they are accounted for as other noncurrent assets within the consolidated balance sheets. The assets held in the rabbi trust are invested in money market funds and company-owned life insurance policies. The consolidated balance sheets include assets held in trust related to the nonqualified pension plan of \$1.9 million at December 31, 2020 and \$1.7 million at December 31, 2019, and the related liabilities of \$2.7 million and \$2.4 million at December 31, 2020 and 2019, respectively.

The Vishay Precision Group Non-Qualified Retirement Plan is frozen. Accordingly, no new employees may participate in the plan, no further participant contributions are permitted, and no further benefits accrue. Benefits accumulated prior to the freezing of the U.S. pension plan will be paid to employees upon retirement, and the Company will likely need to make additional cash contributions to the rabbi trust to fund this accumulated benefit obligation.

#### Non-U.S. Pension Plans

The Company provides pension and similar benefits to employees of certain non-U.S. subsidiaries consistent with local practices. Pension benefits earned are generally based on years of service and compensation during active employment.

#### Note 9 – Pensions and Other Postretirement Benefits (continued)

In 2018, the Company undertook several measures to de-risk the UK pension plan. The first measure was to freeze the plan, with no new participants permitted and no further benefits accrue. The second measure was to execute an enhanced transfer value exercise to transfer pension benefits outside of the plan. As a result, the Company incurred \$0.7 million of expense related to these de-risking measures.

The following table sets forth a reconciliation of the benefit obligation, plan assets, and funded status related to pension plans (in thousands):

	<b>December 31, 2020</b>				December	r 31, 2019		
	U.S. Plans		Non-U.S. Plans		U.S. Plans		Non-U.S. Plans	
Change in benefit obligation:	 							
Benefit obligation at beginning of year	\$ 2,414	\$	24,857	\$	2,160	\$	21,762	
Service cost (adjusted for actual employee contributions)	_		402		_		336	
Interest cost	70		442		85		535	
Actuarial (gains) losses	338		1,863		248		1,922	
Benefits paid	(75)		(659)		(79)		(777)	
Curtailments and settlements	_		(95)		_		(25)	
Plan amendments and other	_		_		_		573	
Currency translation			1,278				531	
Benefit obligation at end of year	\$ 2,747	\$	28,088	\$	2,414	\$	24,857	
Change in plan assets:								
Fair value of plan assets at beginning of year	\$ 	\$	16,420	\$	_	\$	14,501	
Actual return on plan assets			734				1,338	
Company contributions	75		919		79		953	
Benefits paid	(75)		(659)		(79)		(777)	
Curtailments and settlements			_		_		(25)	
Currency translation	 		743				430	
Fair value of plan assets at end of year	\$ 	\$	18,157	\$		\$	16,420	
Funded status at end of year	\$ (2,747)	\$	(9,931)	\$	(2,414)	\$	(8,437)	

Actuarial losses incurred in 2020 related to our U.S. and non-U.S. plans are primarily the result of a decrease in the discount rate assumptions used to estimate the benefit obligations as of December 31, 2020 compared to December 31, 2019. Actuarial losses incurred in 2019 related to our U.S. and non-U.S. plans are primarily the result of a decrease in the discount rate assumptions used to estimate the benefit obligations as of December 31, 2019 compared to December 31, 2018.

Amounts recognized in the consolidated balance sheets consist of the following pre-tax amounts (in thousands):

	<b>December 31, 2020</b>				December 31, 2019			
		U.S. Non-U.S. Plans Plans			U.S. Plans	Non-U.S. Plans		
Other accrued expenses	\$	(105)	\$	(240)	\$ (98)	\$	(325)	
Accrued pension and other postretirement costs	\$	(2,642)	\$	(9,691)	\$ (2,316)	\$	(8,112)	
Accumulated other comprehensive loss	\$	823	\$	9,068	\$ 594	\$	5,969	
	\$	(1,924)	\$	(863)	\$ (1,820)	\$	(2,468)	

Unrecognized actuarial gains and losses arise from several factors, including experience and assumption changes with respect to the obligations and from the difference between expected returns and actual returns on plan assets. Actuarial items consist of the following (in thousands):

#### Note 9 - Pensions and Other Postretirement Benefits (continued)

	<b>December 31, 2020</b>				<b>December 31, 2019</b>			
	U.S. Non-U.S. Plans Plans			U.S. Plans		Non-U.S. Plans		
Unrecognized net actuarial loss	\$	823	\$	9,008	\$ 594	\$	5,906	
Unrecognized prior service cost		_		60	_		62	
Unamortized transition obligation							1	
	\$	823	\$	9,068	\$ 594	\$	5,969	

The following table sets forth additional information regarding the projected and accumulated benefit obligations for the pension plans (in thousands):

	<b>December 31, 2020</b>					
		U.S. Plans		Non-U.S. Plans		
Accumulated benefit obligation, all plans	\$	2,747	\$	25,148		
Plans for which the accumulated benefit obligation exceeds plan assets:						
Projected benefit obligation	\$	2,747	\$	25,107		
Accumulated benefit obligation	\$	2,747	\$	24,099		
Fair value of plan assets		_	\$	16,259		

	<b>December 31, 2019</b>					
		U.S. Plans	Non-U.S. Plans			
Accumulated benefit obligation, all plans	\$	2,414	\$	23,686		
Plans for which the accumulated benefit obligation exceeds plan assets:						
Projected benefit obligation	\$	2,414	\$	23,386		
Accumulated benefit obligation	\$	2,414	\$	22,743		
Fair value of plan assets			\$	14,983		

Unrecognized gains and losses are amortized into future net periodic pension cost using the 10% corridor method over the expected remaining service life of the employee group. The following table sets forth the components of net periodic cost of pension (in thousands):

					Ye	ars ended	Dece	ember 31,					
	2020					2019				2018			
		U.S. Plans	N	on-U.S. Plans		U.S. Plans		on-U.S. Plans		U.S. Plans		on-U.S. Plans	
Annual service cost	\$	_	\$	402	\$	_	\$	336	\$	_	\$	498	
Less: employee contributions						_						21	
Net service cost		_		402		_		336				477	
Interest cost		70		442		85		535		76		610	
Expected return on plan assets		_		(442)		_		(517)		_		(549)	
Amortization of actuarial losses		109		286		38		164		70		437	
Amortization of transition obligation		_		5		_		1		_		1	
Curtailment and settlement losses												708	
Net periodic benefit cost	\$	179	\$	693	\$	123	\$	519	\$	146	\$	1,684	

See Note 8 for the pre-tax, tax effect, and after tax amounts included in other comprehensive income during the years ended December 31, 2020, 2019, and 2018.

#### Note 9 - Pensions and Other Postretirement Benefits (continued)

The following weighted-average assumptions were used to determine benefit obligations at December 31 of the respective years:

	202	2020		
	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans
Discount rate	2.11 %	1.29 %	2.97 %	1.86 %
Rate of compensation increase	N/A	2.77%	N/A	1.20%
Expected return on plan assets	N/A	2.66 %	N/A	3.56 %

The following weighted-average assumptions were used to determine the net periodic pension costs for the years ended December 31, 2020 and 2019:

	202	20	2019			
	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans		
Discount rate	2.97 %	1.86 %	3.99 %	2.47 %		
Rate of compensation increase	N/A	1.20%	N/A	3.08 %		
Expected return on plan assets	N/A	3.56 %	N/A	2.70 %		

The plans' expected return on assets is based on management's expectation of long-term average rates of return to be achieved by the underlying investment portfolios. In establishing this assumption, management considers historical and expected returns for the asset classes in which the plans are invested, advice from pension consultants and investment advisors, and current economic and capital market conditions.

The investment mix between equity securities and fixed income securities is based upon achieving a desired return, balancing higher return, more volatile equity securities, and lower return, less volatile fixed income securities. The target allocation of plan assets approximates the actual allocation of plan assets at December 31, 2020 and 2019.

Plan assets are comprised of:

	December	r 31, 2020	<b>December 31, 2019</b>			
	U.S. Plans	Non-U.S. Plans	U.S. Plans	Non-U.S. Plans		
Equity securities	_	48 %	_	48 %		
Fixed income securities	_	39 %	_	42 %		
Cash and cash equivalents		13 %		10 %		
Total		100 %	_	100 %		

The Company maintains defined benefit retirement plans in certain of its subsidiaries. The assets of the plans are measured at fair value.

Equity securities held by the defined benefit retirement plans consist of equity securities that are valued based on quoted market prices on the last business day of the year. The fair value measurement of the equity securities is considered a Level 2 measurement within the fair value hierarchy.

Fixed income securities held by the defined benefit retirement plans consist of government bonds and corporate notes that are valued based on quoted market prices on the last business day of the year. The fair value measurement of the fixed income securities is considered a Level 2 measurement within the fair value hierarchy.

Cash held by the defined benefit retirement plans consists of deposits on account in various financial institutions. The carrying amount of the cash approximates its fair value. A summary of the Company's pension plan assets for each fair value hierarchy level are as follows for the periods presented (see Note 16 for further description of the levels within the fair value hierarchy (in thousands)):

As of December 31, 2020			r	rair value measurements at reporting date using:						
	T	otal Fair Value	Level 1 Inputs			Level 2 Inputs		Level 3 Inputs		
Defined benefit pension plan assets										
Equity securities	\$	8,779	\$	_	\$	8,779	\$	_		
Fixed income securities		7,700		_		7,700		_		
Cash and cash equivalents		1,678		1,678						
	\$	18,157	\$	1,678	\$	16,479	\$	_		

As of December 31, 2019		r	air value m	easu	rements at r using:	reporting date					
	 otal Fair Value		Level 1 Inputs	Level 2 Inputs			Level 3 Inputs				
Defined benefit pension plan assets											
Equity securities	\$ 7,796	\$	_	\$	7,796	\$					
Fixed income securities	7,703		_		7,703						
Cash and cash equivalents	 921		921								
	\$ 16,420	\$	921	\$	15,499	\$					

Estimated future benefit payments are as follows (in thousands):

	US Pension Plans		Non-US Plans
2021	\$ 10:	5 \$	1,068
2022	100	5	784
2023	13:	5	1,334
2024	134	1	853
2025	13:	5	1,358
2025 - 2028	75′	7	4,993

The Company anticipates making contributions to its funded and unfunded pension of approximately \$1.4 million during 2021.

#### Other Postretirement Benefit Plans

In the U.S., the Company maintains two unfunded non-pension other postretirement benefit plans ("OPEB") which are funded as costs are incurred. These plans provide medical and death benefits to retirees.

#### Note 9 – Pensions and Other Postretirement Benefits (continued)

The following table sets forth a reconciliation of the benefit obligation, plan assets, and funded status related to other postretirement benefit plans (in thousands):

	OPEB Plans				
	December 31,				
		2020		2019	
Change in benefit obligation:					
Benefit obligation at beginning of year	\$	4,633	\$	4,645	
Service cost (adjusted for actual employee contributions)		123		126	
Interest cost		133		180	
Contributions by participants		25		_	
Actuarial gains		(1,498)		(131)	
Benefits paid		(249)		(187)	
Plan amendments and other		410		_	
Benefit obligation at end of year	\$	3,577	\$	4,633	
Change in plan assets:					
Fair value of plan assets at beginning of year	\$		\$		
Company contributions		224		187	
Contributions by participants		25			
Benefits paid		(249)		(187)	
Fair value of plan assets at end of year	\$	_	\$	_	
Funded status at end of year	\$	(3,577)	\$	(4,633)	

Actuarial gains incurred in 2020 related to our post-retirement plans are primarily the result of a prior year adjustment of \$763, changes in medical claims and age variance assumptions, net of a decrease in the discount rate assumptions used to estimate the benefit obligations as of December 31, 2020 compared to December 31, 2019. Actuarial gains incurred in 2019 related to our post-retirement plans are primarily the result of a decrease in the discount rate assumptions used to estimate the benefit obligations as of December 31, 2019 compared to December 31, 2018.

Amounts recognized in the consolidated balance sheets consist of the following pre-tax amounts (in thousands):

December 31,				
	2020		2019	
\$	(266)	\$	(290)	
\$	(3,311)	\$	(4,343)	
\$	583	\$	1,808	
\$	(2,994)	\$	(2,825)	
	\$	Decer 2020 \$ (266) \$ (3,311) \$ 583	2020       \$ (266) \$       \$ (3,311) \$       \$ 583 \$	

OBED DI

Actuarial items consist of the following (in thousands):

		B Plans nber 31	
	2020 2019		
Unrecognized net actuarial loss	\$ 583	\$	1,808
	\$ 583	\$	1,808

Unrecognized gains and losses are amortized into future net periodic benefit cost using the 10% corridor method over the expected remaining service life of the employee group. The following table sets forth the components of net periodic benefit costs (in thousands):

#### **OPEB Plans**

	Years ended December 31,							
	2020	2019			2018			
	OPEB Plans		OPEB Plans		OPEB Plans			
Net service cost	123		126		108			
Interest cost	133		180		152			
Amortization of actuarial losses	 137		156		177			
Net periodic benefit cost	\$ 393	\$	462	\$	437			

See Note 8 for the pre-tax, tax effect, and after tax amounts included in other comprehensive income during the years ended December 31, 2020, 2019, and 2018.

The following weighted-average assumptions were used to determine benefit obligations at December 31 of the respective years:

OPEB Plans	
December 31,	
2020 201	019
1.99 %	2.97 %

The following weighted-average assumptions were used to determine the net periodic benefit costs for the years ended December 31, 2020 and 2019:

OPEB Pla	ins
December	31,
2020	2019
2.97 %	3.99 %
5.40 %	5.27 %

The health care trend ultimate rate is 4.04% per the terms of the plan. The impact of a one-percentage-point change in assumed health care cost trend rates on the net periodic benefit cost and postretirement benefit obligation is not material.

Estimated future benefit payments are as follows (in thousands):

	OPEB Plans
2021	\$ 266
2022	\$ 240
2023	\$ 197
2024	\$ 221
2025	\$ 210
2025 - 2028	\$ 1,044

As the plans are unfunded, the Company's anticipated contributions for 2021 are equal to the estimated benefit payment.

#### Note 9 – Pensions and Other Postretirement Benefits (continued)

#### Other Retirement Obligations

The Company participates in various other defined contribution plans based on local law or custom. The Company periodically makes contributions to these plans. At December 31, 2020 and 2019, the consolidated balance sheets include \$1.0 million and \$0.9 million, respectively, within accrued pension and other postretirement costs related to these plans.

Most of the Company's U.S. employees are eligible to participate in 401(k) savings plans which provide company matching under various formulas. The Company's matching expense for the plans was \$0.8 million, \$0.7 million, and \$0.7 million for the years ended December 31, 2020, 2019, and 2018, respectively. No material amounts are included in the consolidated balance sheets related to unfunded 401(k) contributions.

Certain key employees participate in a nonqualified deferred compensation plan, which allows these employees to defer a portion of their compensation until retirement, or elect shorter deferral periods. The accompanying consolidated balance sheets include a liability within other noncurrent liabilities related to these deferrals. The Company maintains a nonqualified trust, referred to as a "rabbi" trust, to fund payments under this plan. Rabbi trust assets are subject to creditor claims under certain conditions and are not the property of employees. Therefore, they are accounted for as other noncurrent assets within the consolidated balance sheets. The assets held in the rabbi trust are invested in money market funds and company-owned life insurance policies. The consolidated balance sheets include assets held in trust related to the nonqualified deferred compensation plan of \$3.7 million at December 31, 2020 and \$3.5 million at December 31, 2019, and the related liabilities of \$5.4 million and \$4.9 million at December 31, 2020 and 2019, respectively.

#### Note 10 - Share-Based Compensation

The Amended and Restated Vishay Precision Group, Inc. Stock Incentive Plan (as amended and restated, the "Plan") permits the issuance of up to 1,000,000 shares of common stock. At December 31, 2020, the Company had reserved 371,637 shares of common stock for future grant of equity awards (restricted stock, unrestricted stock, restricted stock units ("RSUs"), or stock options). If any outstanding awards are forfeited by the holder, the underlying shares would be available for future grants under the Plan.

#### Restricted Stock Units

Pursuant to the Plan, the Company issued RSUs to board members, executive officers, and certain employees of the Company during 2020. The amount of compensation cost related to share-based payment transactions is measured based on the grant-date fair value of the equity instruments issued. VPG determines compensation cost for RSUs based on the grant-date fair value of the underlying common stock. Compensation cost is recognized over the period that the participant provides service in exchange for the award. The Company recognizes compensation cost for RSUs that are expected to vest and for which performance criteria are expected to be met.

On March 5, 2020, VPG's three current executive officers were granted annual equity awards in the form of RSUs, of which 75% are performance-based. The awards have an aggregate target grant-date fair value of \$1.2 million were comprised of 44,269 RSUs. Twenty-five percent of these awards will vest on January 1, 2023, subject to the executives' continued employment. The performance-based portion of the RSUs will also vest on January 1, 2023, subject to the executives' continued employment and the satisfaction of certain performance objectives relating to three-year cumulative "adjusted free cash flow" and net earnings goals, each weighted equally. The awards issued in 2019 and 2018 have similar allocations and vesting criteria.

On March 16, 2020, certain VPG employees were granted annual equity awards in the form of RSUs, of which 75% are performance-based. The awards have an aggregate target grant-date fair value of \$0.4 million and were comprised of 18,940 RSUs. Twenty-five percent of these awards will vest on January 1, 2023 subject to the employees' continued employment. The performance-based portion of the RSUs will also vest on January 1, 2023, subject to the employee's continued employment and the satisfaction of certain performance objectives relating to three-year cumulative earnings goals and cash flow goals.

On May 21, 2020, the Board of Directors approved the issuance of an aggregate of 15,564 RSUs to the independent board members of the Board of Directors and to the non-executive Chairman of the Board of Directors. The awards have an aggregate grant-date fair value of \$0.3 million and will vest on the earlier of the 2021 Annual Stockholders meeting or May 21, 2021, subject to the directors' continued service on the Board of Directors.

Vesting of equity awards may be subject to acceleration under certain circumstances.

RSU activity is presented below (number of RSUs in thousands):

Voore	habna	December	. 31
rears	enaea	December	· DI.

_	2020 2019		19		2018				
	Number of RSUs	A Gr	eighted verage ant-date ir Value	Number of RSUs	(	Weighted Average Grant-date Fair Value	Number of RSUs	G	Veighted Average rant-date air Value
Outstanding:									
Beginning of year	212	\$	25.97	265	\$	17.64	417	\$	14.57
Granted	79		24.16	73		35.27	74		28.20
Vested	(81)		19.02	(75)		15.27	(86)		16.75
Forfeited	(5)		15.75	(51)		11.49	(140)		14.70
End of year	205	\$	28.23	212	\$	25.97	265	\$	17.64

The fair value of the RSUs vested during 2020 is \$2.3 million. Included in the 2020, 2019 and 2018 activity are RSU's forfeited as a result of performance objectives not being met. These awards are therefore available for future grants under the Plan.

RSUs with performance-based vesting criteria are expected to vest as follows (number of RSUs in thousands):

Vesting Date	Expected to Vest	Not Expected to Vest	Total
January 1, 2021	46	3	49
January 1, 2022	1	47	48
January 1, 2023	4	43	47

#### Share-Based Compensation Expense

The following table summarizes pre-tax share-based compensation expense recognized (in thousands):

	Year	s en	ded Decemb	er 3	l,
	 2020		2019		2018
units	\$ 1,387	\$	1,336	\$	1,799

Share-based compensation expense is recognized ratably over the vesting period of the awards and for RSUs with performance criteria, is recognized for RSU's that are expected to vest and for which performance criteria are expected to be met.

During the fourth quarter of 2020, a net adjustment reducing share-based compensation expense by \$0.1 million was recorded, based on the evaluation of performance objectives associated with awards granted in 2018, 2019 and 2020. It was determined that certain objectives were not likely to be fully met, necessitating a reversal of certain compensation expense associated with those awards. This was partially offset by additional share based compensation expense being recorded for certain objectives being fully met, which had been reversed in the prior year.

During 2019, it was determined that certain performance objectives associated with awards granted in 2017, 2018 and 2019 were not likely to be fully met, necessitating a reversal of certain compensation expense associated with those awards. As a net result, adjustments decreasing share based compensation expense totaling \$0.8 million were recorded during the year based on anticipated performance levels.

The deferred tax benefit on share-based compensation expense was \$0.0 million, \$0.1 million, and \$0.0 million for the years ended December 31, 2020, 2019, and 2018, respectively.

As of December 31, 2020, the Company had \$0.8 million of unrecognized share-based compensation expense related to share-based awards that will be recognized over a weighted-average period of approximately 1.3 years.

#### Note 11 - Commitments, Contingencies, and Concentrations

#### Litigation

The Company is subject to various legal proceedings that constitute ordinary, routine litigation incidental to its business. The Company is of the opinion that the disposition of these proceedings will not have a material adverse effect on its business or its financial condition, results of operations, and cash flows.

#### Note 11 – Commitments, Contingencies, and Concentrations (continued)

#### **Executive Employment Agreements**

The Company has employment agreements with its executive officers which outline base salary, incentive compensation, and equity-based compensation. The employment agreements with the Company's executive officers also provide for incremental compensation in the event of termination without cause or resignation for good reason.

#### Sources of Supplies

Although most materials incorporated in the Company's products are available from a number of sources, certain materials are available only from a relatively limited number of suppliers.

Some of the most highly specialized materials for the Company's sensors are sourced from a single vendor. The Company maintains a safety stock inventory of certain critical materials at its facilities.

Certain metals used in the manufacture of the Company's products are traded on active markets, and can be subject to significant price volatility.

#### **Market Concentrations**

No single customer comprises greater than 10% of net revenues.

The vast majority of the Company's products are used in the broad industrial market, with selected uses in military and aerospace, medical, agriculture, and construction. Within the broad industrial segment, the Company's products serve wide applications in the waste management, bulk hauling, logging, scale manufacturing, engineering systems, pharmaceutical, oil, chemical, steel, paper, and food industries.

#### Credit Risk Concentrations

Financial instruments with potential credit risk consist principally of cash and cash equivalents, accounts receivable, and notes receivable. The Company maintains cash and cash equivalents with various major financial institutions. Concentrations of credit risk with respect to receivables are generally limited due to the Company's large number of customers and their dispersion across many countries and industries. At December 31, 2020 and 2019, the Company had no significant concentrations of credit risk.

#### Geographic Concentrations

At December 31, 2020 and 2019, a significant percentage of the Company's cash and cash equivalents are held outside the United States. See the following table for the percentage of cash and cash equivalents by region at December 31, 2020 and December 31, 2019:

United States       10 %       7 %         Israel       26 %       28 %         Europe       16 %       14 %         United Kingdom       18 %       17 %         Canada       12 %       11 %		Decembe	r 31,
United States       10 %       7 %         Israel       26 %       28 %         Europe       16 %       14 %         United Kingdom       18 %       17 %         Canada       12 %       11 %		2020	2019
Israel       26 %       28 %         Europe       16 %       14 %         United Kingdom       18 %       17 %         Canada       12 %       11 %	Asia	18 %	23 %
Europe       16 %       14 %         United Kingdom       18 %       17 %         Canada       12 %       11 %	United States	10 %	7 %
United Kingdom       18 %       17 %         Canada       12 %       11 %	Israel	26 %	28 %
Canada <u>12 %</u> 11 %	Europe	16 %	14 %
<del></del>	United Kingdom	18 %	17 %
Total <u>100 %</u> 100 %	Canada	12 %	11 %
	Total	<u>100 %</u>	100 %

#### Note 12 - Leases

The Company primarily leases office and manufacturing facilities in addition to vehicles, which have remaining terms of less than one year to twelve years. The Company has no finance leases. In 2019, one of the Company's indirect wholly-owned subsidiaries entered into a lease agreement as tenant related to a property in Israel. The facility was made available to the Company during the second quarter of 2020, at which time the Company established an operating right of use asset and operating lease liability, with a lease term of 12.5 years, of \$14.4 million, in accordance with the terms of the lease agreement.

Leases recorded on the balance sheet consist of the following (in thousands):

Leases		ember 31, 2020	December 31, 2019	
Assets				
Operating lease right of use asset	\$	21,788	\$	8,691
Liabilities				
Operating lease - current	\$	4,011	\$	2,827
Operating lease - non-current	\$	19,504	\$	5,811
Other information related to lease term and discount rate is as follows:				
		]	Decembe	er 31, 2020
Operating leases weighted average remaining lease term (in years)				9.1 years
Operating leases weighted average discount rate				3.59 %

The components of lease expense are as follows (in thousands):

	Year Ended				
	December 31, 2020 December 31,				
Operating lease cost	\$	4,389	\$	3,376	
Variable lease cost		_		44	
Short-term lease cost		124		87	
Total lease cost	\$	4,513	\$	3,507	

Right of use assets obtained in exchange for new operating lease liability during 2020 were \$16.3 million and in 2019 were \$0.3 million. The Company paid \$4.0 million for its operating leases for the year ended December 31, 2020 and \$3.4 million for the year ended December 31, 2019, which are included in operating cash flows on the consolidated statements of cash flows.

Undiscounted maturities of operating lease payments as of December 31, 2020 are summarized as follows (in thousands):

2021	\$ 4,435
2022	3,704
2023	3,177
2024	2,617
2025	2,172
Thereafter	 11,132
Total future minimum lease payments	\$ 27,237
Less: amount representing interest	 (3,722)
Present value of future minimum lease payments	\$ 23,515

Rent expense on operating leases prior to adoption of ASC 842 was \$3.6 million for the year ended December 31, 2018.

#### Note 13 - Segment and Geographic Data

VPG reports in three product segments: the Foil Technology Products segment, the Force Sensors segment, and the Weighing and Control Systems segment. The Foil Technology Products reporting segment is comprised of the foil resistor and strain gage operating segments. The Force Sensors reporting segment is comprised of transducers, load cells, and modules. The Weighing and Control Systems reporting segment is comprised of complete systems which include load cells and instrumentation for weighing, force control and force measurement for a variety of uses such as process control and on-board weighing applications.

VPG evaluates reporting segment performance based on multiple performance measures including gross profits, revenues, and operating income, exclusive of certain items. Management believes that evaluating segment performance, excluding items such as restructuring and severance costs, and other items is meaningful because it provides insight with respect to the intrinsic operating results of VPG. The accounting policies of the segments are the same as those described in the summary of significant accounting policies (see Note 1). Reporting segment assets are the owned or allocated assets used by each segment. Products are transferred between segments on a basis intended to reflect, as nearly as practicable, the market value of the products.

### Note 13 - Segment and Geographic Data (continued)

The following table sets forth reporting segment information (in thousands):

2020	Foil Technology Products	Force Sensors	Weighing and Control Systems	Corporate/ Other	Total
2020	0 131 (45	0 52 524	o 04 442	0	0.260.012
Net third-party revenues	\$ 131,645	\$ 53,724	\$ 84,443	\$ —	\$ 269,812
Intersegment revenues	3,183	12 502	446	(3,629)	104 271
Gross profit	52,025	13,582	38,664	(20.727)	104,271
Segment operating income (loss)	29,870	4,756	18,768	(30,737)	22,657
Impairment of goodwill and indefinite-lived intangibles	2,440	_	_	_	2,440
Restructuring costs	572	108	156	82	918
Depreciation and amortization expense	5,840	2,367	2,964	1,336	12,507
Capital expenditures	22,032	1,211	1,071	13	24,327
Total assets	157,120	63,461	157,840	23,466	401,887
<u>2019</u>					
Net third-party revenues	\$ 131,803	\$ 64,357	\$ 87,798	\$ —	\$ 283,958
Intersegment revenues	4,067	1,068	463	(5,598)	_
Gross profit	53,292	18,022	40,303	_	111,617
Segment operating income (loss)	29,873	8,643	21,058	(30,926)	28,648
Acquisition costs	_	_	443	_	443
Executive severance costs	_	_	_	611	611
Restructuring costs	86	2,041	_	166	2,293
Depreciation and amortization expense	5,870	2,442	2,200	1,283	11,795
Capital expenditures	7,011	2,237	1,243	38	10,529
Total assets	116,920	75,885	158,597	19,011	370,413
2018					
Net third-party revenues	\$ 141,009	\$ 73,186	\$ 85,599	\$ —	\$ 299,794
Intersegment revenues	3,878	1,365	577	(5,820)	_
Gross profit	61,562	20,001	39,704	_	121,267
Segment operating income (loss)	38,404	10,514	20,508	(32,203)	37,223
Impairment of goodwill and indefinite-lived intangibles	2,820	_	_	_	2,820
Restructuring costs	_	289	_	_	289
Depreciation and amortization expense	5,173	2,323	2,121	1,014	10,631
Capital expenditures	9,239	2,483	1,370	147	13,239
Total assets	132,918	82,637	95,954	14,874	326,383

#### Note 13 - Segment and Geographic Data (continued)

The "Corporate/Other" column for segment operating income (loss) includes unallocated selling, general, and administrative expenses and certain items which management excludes from segment results when evaluating segment performance, as follows (in thousands):

Years ended December 31,					١,
	2020		2019		2018
\$	(27,379)	\$	(27,579)	\$	(29,094)
	_		(443)		_
	(2,440)		_		(2,820)
	_		(611)		
	(918)		(2,293)		(289)
\$	(30,737)	\$	(30,926)	\$	(32,203)
	\$	2020 \$ (27,379) — (2,440) — (918)	2020 \$ (27,379) \$ 	2020     2019       \$ (27,379)     \$ (27,579)       —     (443)       (2,440)     —       —     (611)       (918)     (2,293)	2020     2019       \$ (27,379)     \$ (27,579)     \$       — (443)     —       (2,440)     —     (611)       (918)     (2,293)

The following geographic data includes property and equipment based on physical location (in thousands):

		Decem	ber	31,		
Property and Equipment - Net	2020			2019		
United States	\$	11,036	\$	12,009		
United Kingdom		4,153		4,011		
Other Europe		1,813		1,498		
Israel		38,339		22,903		
Asia		17,953		19,118		
Canada and Other		1,722		1,731		
	\$	75,016	\$	61,270		

#### Note 14 - Earnings Per Share

Basic earnings per share are computed using the weighted average number of common shares outstanding during the periods presented. Diluted earnings per share is computed using the weighted average number of common shares outstanding, adjusted to include the potentially dilutive effect of stock options and restricted stock units (see Note 10), and other potentially dilutive securities.

The following table sets forth the computation of basic and diluted earnings per share attributable to VPG stockholders (in thousands, except earnings per share):

	Years ended December 31,				1,	
		2020	2019			2018
Numerator:				_		
Numerator for basic earnings per share:						
Net earnings attributable to VPG stockholders	\$	10,787	\$	22,188	\$	23,646
Adjustment to the numerator for net earnings:	Ψ	10,707	Ψ	22,100	Ψ	23,040
Interest savings assuming conversion of dilutive exchangeable notes, net of tax		_		_		6
Numerator for diluted earnings per share:						
Net earnings attributable to VPG stockholders	\$	10,787	\$	22,188	\$	23,652
Denominator:						
Denominator for basic earnings per share:						
Weighted average shares		13,566		13,515		13,439
Effect of dilutive securities:						
Exchangeable notes						22
Restricted stock units		57		82		74
Dilutive potential common shares		57		82		96
Denominator for diluted earnings per share:						
Adjusted weighted average shares		13,623		13,597		13,535
Basic earnings per share attributable to VPG stockholders	\$	0.80	\$	1.64	\$	1.76
Diluted earnings per share attributable to VPG stockholders	\$	0.79	\$	1.63	\$	1.75

#### Note 15 - Additional Financial Statement Information

The caption "Other" on the consolidated statements of operations consists of the following (in thousands):

	Years ended December 31,					
		2020		2019		2018
Foreign exchange loss	\$	(2,246)	\$	(1,638)	\$	(279)
Interest income		246		622		506
Pension expense		(738)		(643)		(1,682)
Other		(244)		958		(41)
	\$	(2,982)	\$	(701)	\$	(1,496)

#### Note 15 – Additional Financial Statement Information (continued)

Foreign currency exchange gains and losses represent the impact of changes in foreign currency exchange rates. The change in foreign exchange gains / (losses) during the period, as compared to the prior year period, is primarily due to fluctuations in the Israeli shekel. The change in the dollar-shekel exchange rate, particularly in the fourth quarter of 2020, resulted in an unfavorable foreign exchange impact primarily related to the shekel-denominated lease liability for a new Foil Technology Products facility in Israel.

Pension expense represents the net periodic benefit cost excluding the service cost. In 2018, the Company recognized a settlement loss of \$0.7 million related to measures taken to de-risk the UK pension schemes as discussed in Note 9 to the consolidated financial statements.

Included in Other for the year ended December 31, 2019, is a one-time \$0.8 million gain on liquidation of one of the Company's subsidiaries.

Other accrued expenses consist of the following (in thousands):

	December 31,			1,
		2020		2019
Customer advance payments	\$	2,873	\$	4,561
Accrued restructuring		63		604
Goods received, not yet invoiced		2,553		1,561
Accrued taxes, other than income taxes		1,223		1,167
Accrued commissions		2,144		2,149
Accrued professional fees		638		1,082
Other		4,349		5,002
	\$	13,843	\$	16,126

#### Israeli Severance Pay

The Israeli Severance Pay Law, 1963 ("Severance Pay Law"), specifies that employees of our Israeli subsidiary are entitled to severance payment, following the termination of their employment. Under the Severance Pay Law, the severance payment is calculated as one month salary for each year of employment, or a portion thereof.

Part of the subsidiary's liability for severance pay is covered by the provisions of Section 14 of the Severance Pay Law ("Section 14"). Under Section 14, employees are entitled to monthly deposits, at a rate of 8.33% of their monthly salary, contributed on their behalf to their insurance funds. Payments in accordance with Section 14 release the subsidiary from any future severance payments in respect of those employees. As a result, the Company does not recognize any liability for severance pay due to these employees and the deposits under Section 14 are not recorded as an asset in the Company's balance sheet.

For the subsidiary's employees in Israel who are not subject to Section 14, the Company calculated the liability for severance pay pursuant to the Severance Pay Law based on the most recent salary of these employees multiplied by the number of years of employment as of the balance sheet date. The Company recorded as expenses the increase in the severance liability, net of earnings (losses) from the related investment fund. The subsidiary's liability was partially funded by monthly payments deposited with insurers and the value of these deposits is recorded as an asset on the Company's balance sheet. Any unfunded amounts would be paid from operating funds and are covered by a provision established by the subsidiary. The accompanying consolidated balance sheets at December 31, 2020 and December 31, 2019 include a \$8.3 million and \$8.0 million liability, respectively, associated with Israeli severance requirements in other liabilities.

#### **Executive Severance**

During the second fiscal quarter of 2019, the Company recorded \$0.6 million of severance costs associated with the resignation of an executive officer of the Company. The severance costs consisted of payments and other benefits as specified in the executive officer's separation agreement.

#### Note 16 – Fair Value Measurements

Assets held in rabbi trusts

ASC Topic 820, *Fair Value Measurements and Disclosures*, establishes a valuation hierarchy of the inputs used to measure fair value. This hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. The following is a brief description of those three levels:

Level 1: Observable inputs such as quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2: Inputs other than quoted prices that are observable for the asset or liability, either directly or indirectly. These include quoted prices for similar assets or liabilities in active markets and quoted prices for identical or similar assets or liabilities in markets that are not active.

Level 3: Unobservable inputs that reflect the Company's own assumptions.

An asset or liability's classification within the hierarchy is determined based on the lowest level input that is significant to the fair value measurement.

The following tables provide the financial assets and liabilities carried at fair value measured on a recurring basis (in thousands):

Fair value measurements at reporting date

5.116 \$

As of December 31, 2020		using:		
	Total Fair Value	Level 1 Inputs	Level 2 Inputs	Level 3 Inputs
Assets:				
Assets held in rabbi trusts	\$ 5,601	\$ 61	\$ 5,540	<b>\$</b> —
As of December 31, 2019		Fair value m	neasurements at using:	reporting date
	Total Fair Value	Level 1 Inputs	Level 2 Inputs	Level 3 Inputs
Assets:				

The Company maintains nonqualified trusts, referred to as "rabbi" trusts, to fund payments under deferred compensation and nonqualified pension plans. Rabbi trust assets consist primarily of marketable securities, classified as available-for-sale money market funds at December 31, 2020 and December 31, 2019, and company-owned life insurance assets. The marketable securities held in the rabbi trusts are valued using quoted market prices on the last business day of the year. The company-owned life insurance assets are valued in consultation with the Company's insurance brokers using the value of underlying assets of the insurance contracts. The fair value measurement of the marketable securities held in the rabbi trust is considered a Level 1 measurement and the measurement of the company-owned life insurance assets is considered a Level 2 measurement within the fair value hierarchy.

5.169 \$

53 \$

\$

The fair value of the long-term debt, excluding capitalized deferred financing costs at December 31, 2020 and December 31, 2019 approximates its carrying value, as the revolving debt and term loans are reset monthly based on current market rates, plus a base rate as specified in the 2020 Credit Agreement. The fair value measurement of long-term debt is considered a Level 2 measurement.

The Company's financial instruments include cash and cash equivalents, accounts receivable, short-term notes payable, and accounts payable. The carrying amounts for these financial instruments reported in the consolidated balance sheets approximate their fair values.

#### Note 17 – Related Party Transactions

Until July 6, 2010, VPG was part of Vishay Intertechnology, and the assets and liabilities consisted of those that Vishay Intertechnology attributed to its precision measurement and foil resistor businesses. Following the spin-off on July 6, 2010, VPG is an independent, publicly-traded company, and Vishay Intertechnology does not retain any ownership interest in VPG, although a common group of stockholders control a significant portion of the voting power of each company and the companies have three common board members.

Subsequent to the spin-off, VPG and Vishay Intertechnology continue to share certain manufacturing locations. VPG owns one location in Japan at which it leases space to Vishay Intertechnology. Vishay Intertechnology owns one location in the United States, at which it leases space to VPG. Lease receipts and payments related to the shared facilities are immaterial.

#### Note 18 – Subsequent Events

#### Executive RSU grant

On March 4 2021, VPG's three current executive officers were granted annual equity awards in the form of RSUs, of which 50% are performance-based and 50% are time-based. The awards have an aggregate target grant-date fair value of \$1.7 million and were comprised of 52,486 RSUs. The time-based awards will vest on January 1, 2024, subject to the executives continued employment. The performance-based awards will also vest on January 1, 2024, subject to the executives continued employment and the satisfaction of certain performance objectives relating to three-year cumulative "adjusted free cash flow" and net earnings goals.

#### SUBSIDIARIES OF THE REGISTRANT

Note: Name of Subsidiaries are indented under name of its parent. Subsidiaries are wholly owned unless otherwise noted. (Director's or other share required by statute in foreign jurisdictions and totaling less than 1% of equity are omitted).

Vishay Precision Foil, Inc.

Vishay Precision Foil GmbH

Vishay Measurements Group GmbH

Powertron GmbH

Germany

Germany

Vishay Measurements Group, Inc. Delaware Vishay Transducers, Ltd. (a) Delaware Vishay Transducers India Private Limited India Pharos de Costa Rica, S.A. Costa Rica Vishay Celtron Technologies, Inc. Taiwan Vishay Precision España S.L. Spain Vishay Precision Asia Investments Pte., Ltd. Singapore Vishay Precision Measurement Trading (Shanghai) Co., Ltd. China Vishay Celtron (Tianjin) Technologies Co., Ltd. China Vishay Precision Foil K.K. Japan Alpha Electronics Corp. Japan

Pacific Instruments, Inc.

DSI Holdings DE Inc.

Dynamic Systems Inc.

DSI Europe GmbH

DSI Europe GmbH

Delaware

New York

Germany

Vishay Precision Israel Ltd. Israel

Vishay Measurements Group UK Ltd. England and Wales

Vishay Advanced Technologies Ltd.IsraelVishay Precision Transducers India Private LimitedIndiaVishay Measurements Group France S.A.S.France

SCI Vijafranc France
VPG Systems UK, Ltd. England and Wales

Vishay Precision Group Canada ULC (b)

Vishay PM Onboard (Ireland) Limited

Vishay Waste Collections Systems B.V.

Vishay Waste Collections Systems NV

Vishay PME France SARL

France

Vishay PM Onboard Limited England and Wales

Vishay Nobel AB
Vishay Nobel AS

Norway

<sup>(</sup>a) Registrant has a direct ownership interest of 62% in Vishay Transducers, Ltd.

<sup>(</sup>b) VPG Systems UK, Ltd. owns 80% and Vishay Transducers, Ltd. owns 20% of Vishay Precision Group Canada ULC

## CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement Nos. 333-168256, 333-187211 and 333-196245 on Form S-8 of our reports dated March 11, 2021, relating to the financial statements of Vishay Precision Group, Inc. (the "Company") and the effectiveness of the Company's internal control over financial reporting appearing in this Annual Report on Form 10-K for the year ended December 31, 2020.

Brightman Almagor Zohar & Co. A Firm in the Deloitte Global Network

Tel Aviv, Israel

March 11, 2021

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

We consent to the incorporation by reference in the following Registration Statements:

- 1) Registration Statement (Form S-8 No. 333-168256) pertaining to the Vishay Precision Group, Inc. 2010 Stock Incentive Program,
- 2) Registration Statement (Form S-8 No. 333-187211) pertaining to the Vishay Precision Group, Inc. Deferred Compensation Plan, and
- 3) Registration Statement (Form S-8 No. 333-196245) pertaining to the Vishay Precision Group, Inc. 2010 Stock Incentive Program (as amended);

of our report dated March 14, 2019, with respect to the consolidated financial statements of Vishay Precision Group, Inc. included in this Annual Report (Form 10-K) of Vishay Precision Group, Inc. for the year ended December 31, 2020.

/s/ Ernst & Young LLP

Philadelphia, Pennsylvania March 11, 2021

#### CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, Ziv Shoshani, certify that:

- 1. I have reviewed this Form 10-K of Vishay Precision Group, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's Board of Directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: March 11, 2021	/s/ Ziv Shoshani
	Ziv Shoshani
	Chief Executive Officer

#### CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, William M. Clancy, certify that:

- 1. I have reviewed this Form 10-K of Vishay Precision Group, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's Board of Directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: March 11, 2021
/s/ William M. Clancy
William M. Clancy
Chief Financial Officer

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Vishay Precision Group, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Ziv Shoshani, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: March 11, 2021	/s/ Ziv Shoshani
	Ziv Shoshani
	Chief Executive Officer

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Vishay Precision Group, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, William M. Clancy, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: March 11, 2021

/s/ William M. Clancy

William M. Clancy

Chief Financial Officer





### Vishay Precision Group, Inc.

Three Great Valley Parkway, Suite 150

Malvern, PA 19355 Phone: 484-321-5300

Fax: 484-321-5301