UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

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

For the fiscal year ended December 26, 2020

OR

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

For the transition period from to Commission file number 1-6770



MUELLER INDUSTRIES, INC. (Exact name of registrant as specified in its charter)

Delaware

25-0790410

(State or other jurisdiction of incorporation or organization)

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

38017

(Zip Code)

150 Schilling Boulevard Suite 100 **Collierville** Tennessee (Address of principal executive offices)

Registrant's telephone number, including area code: (901) 753-3200

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

| Title of each class | Trading Symbol | Name of each exchange on which registered |
|--------------------------------|----------------|---|
| Common Stock, \$0.01 Par Value | MLI | New York Stock Exchange |

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

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

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

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

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

| Large accelerated filer | \boxtimes | Accelerated filer | |
|-------------------------|-------------|---------------------------|--|
| Non-accelerated filer | | Smaller reporting company | |
| Emerging growth company | | | |

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

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. Yes 🗵 No 🗆

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

The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the Registrant's most recently completed second fiscal quarter was \$1,346,053,993.

The number of shares of the Registrant's common stock outstanding as of February 19, 2021 was 57,115,648 excluding 23,067,356 treasury shares.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the following document are incorporated by reference into this Report: Registrant's Definitive Proxy Statement for the 2021 Annual Meeting of Stockholders, scheduled to be mailed on or about March 25, 2021 (Part III).

MUELLER INDUSTRIES, INC.

As used in this report, the terms "we," "us," "our," "Company," "Mueller," and "Registrant" mean Mueller Industries, Inc. and its consolidated subsidiaries taken as a whole, unless the context indicates otherwise.

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PART I

ITEM 1. BUSINESS

Introduction

Mueller Industries, Inc. (the Company) is a leading manufacturer of copper, brass, aluminum, and plastic products. The range of products we manufacture is broad: copper tube and fittings; line sets; PEX plastic tube and fittings; steel nipples; brass and copper alloy rod, bar, and shapes; aluminum and brass forgings; aluminum impact extrusions; compressed gas valves; refrigeration valves and fittings; fabricated tubular products; pressure vessels; coaxial heat exchangers; insulated flexible duct systems; brazed manifolds; headers; and distributor assemblies. We also resell brass and plastic plumbing valves, plastic fittings, malleable iron fittings, faucets, and plumbing specialty products. Our operations are located throughout the United States and in Canada, Mexico, Great Britain, South Korea, the Middle East, and China. The Company was incorporated in Delaware on October 3, 1990.

Each of our reportable segments is composed of certain operating segments that are aggregated primarily by the nature of products offered. These are the Piping Systems, Industrial Metals, and Climate segments.

Certain administrative expenses and expenses related primarily to retiree benefits at inactive operations are combined into the Corporate and Eliminations classification.

Financial information concerning segments and geographic information appears under "Note 3 – Segment Information" in the Notes to Consolidated Financial Statements, which is incorporated herein by reference.

New housing starts and commercial construction are important determinants of our sales to the heating, ventilation, and air-conditioning (HVAC), refrigeration, and plumbing markets because the principal end use of a significant portion of our products is in the construction of single and multi-family housing and commercial buildings. Repairs and remodeling projects are also important drivers of underlying demand for these products. In addition, our products are used in various transportation, automotive, and industrial applications.

Piping Systems Segment

The Piping Systems segment is composed of Domestic Piping Systems Group, Great Lakes Copper (Great Lakes), Pexcor Manufacturing Company and Heatlink Group Inc. (collectively, Heatlink Group), Die-Mold Tool Limited (Die-Mold), European Operations, Trading Group, and Jungwoo Metal Ind. Co., LTD (Jungwoo-Mueller).

The Domestic Piping Systems Group manufactures and distributes copper tube, fittings, line sets, and pipe nipples, and resells steel pipe, brass and plastic plumbing valves, malleable iron fittings and faucets, and plumbing specialties. These products are manufactured in the U.S., sold in the U.S., and exported to markets worldwide. Our copper tube ranges in size from 1/8 inch to 8 1/8 inch diameter and is sold in various straight lengths and coils. We are a market leader in the air-conditioning and refrigeration service tube markets and we also supply a variety of water tube in straight lengths and coils used for plumbing applications in virtually every type of construction project. Our copper fittings, line sets, and related components are produced for the plumbing and heating industry to be used in water distribution systems, heating systems, air-conditioning, and refrigeration applications, and drainage, waste, and vent systems.

Great Lakes manufactures copper tube and line sets in Canada and sells the products primarily in the U.S. and Canada. Heatlink Group manufactures a complete line of products for PEX plumbing and radiant systems in Canada and sells these products in Canada and the U.S. Die-Mold manufactures PEX and other plumbing-related fittings and plastic injection tooling in Canada and sells these products in Canada and the U.S. European Operations manufactures copper tube in the United Kingdom, which is sold throughout Europe. The Trading Group manufactures steel pipe nipples and resells brass and plastic plumbing valves, malleable iron fittings, faucets, and plumbing specialty products to plumbing wholesalers, distributors to the manufactured housing and recreational vehicle industries, and building materials retailers in North America. Jungwoo-Mueller, our South Korean joint venture, manufactures copper-based joining products that are sold worldwide.

We acquired a 60 percent equity interest in Jungwoo-Mueller on April 26, 2016, Heatlink Group on May 31, 2017, Die-Mold on March 31, 2018 and Kessler Sales and Distribution on August 2, 2020. These acquisitions complement our existing copper tube, line sets, copper fittings, and plastics businesses in the Piping Systems segment.

We disposed of Jiangsu Mueller-Xingrong Copper Industries Limited (Mueller-Xingrong), the Company's Chinese joint venture, on June 21, 2017. This business manufactured engineered copper tube primarily for air-conditioning applications in China.

The segment sells products to wholesalers in the plumbing and refrigeration markets, distributors to the manufactured housing and recreational vehicle industries, building material retailers, and air-conditioning original equipment manufacturers (OEMs). It markets primarily through its own sales and distribution organization, which maintains sales offices and distribution centers throughout the United States and in Canada, Mexico, Europe, China, and South Korea. Additionally, products are sold and marketed through a complement of agents, which, when combined with our sales organization, provide the Company broad geographic market representation.

The total amount of order backlog for the Piping Systems segment as of December 26, 2020 was not significant.

We compete with various companies, depending on the product line. In the U.S. copper tube business, domestic competition includes Cerro Flow Products LLC, and Cambridge-Lee Industries LLC (a subsidiary of Industrias Unidas S.A. de C.V.), as well as many actual and potential foreign competitors. In the European copper tube business, we compete with several European-based manufacturers of copper tube as well as other foreign-based manufacturers. In the Canadian copper tube business, our competitors include foreign-based manufacturers. In the copper fittings market, our domestic competitors include Elkhart Products Company (a subsidiary of Aalberts Industries N.V.) and NIBCO, Inc. We also compete with several foreign manufacturers. Additionally, our copper tube and fittings businesses compete with a large number of manufacturers of substitute products made from other metals and plastic.

Industrial Metals Segment

The Industrial Metals segment is composed of Brass Rod & Copper Bar Products, Impacts & Micro Gauge, and Brass Value-Added Products.

Brass Rod & Copper Bar Products manufactures a broad range of brass rod, copper bar, and copper alloy shapes, as well as a wide variety of end products including plumbing brass, valves, and fittings sold primarily to OEMs in the industrial, HVAC, plumbing, and refrigeration industries. We extrude brass, bronze, and copper alloy rod in sizes ranging from 3/8 inches to 4 inches in diameter. These alloys are used in applications that require a high degree of machinability, wear and corrosion resistance, as well as electrical conductivity.

Impacts & Micro Gauge manufactures cold-form aluminum and copper products for automotive, industrial, and recreational components, as well as high-volume machining of aluminum, steel, brass, and cast iron impacts and castings for automotive applications. It sells its products primarily to OEMs in the U.S., serving the automotive, military ordnance, aerospace, and general manufacturing industries. Typical applications for impacts are high strength ordnance, high-conductivity electrical components, builders' hardware, hydraulic systems, automotive parts, and other uses where toughness must be combined with varying complexities of design and finish.

Brass Value-Added Products manufactures brass and aluminum forgings; brass, aluminum, and stainless steel valves; fluid control solutions; and gas train assembles. Our forgings are used in a wide variety of products, including automotive components, brass fittings, industrial machinery, valve bodies, gear blanks, and computer hardware. Our valves, fluid control systems, and gas train assemblies are used in the compressed gas, pharmaceutical, construction, and gas appliance markets.

The segment sells its products primarily to domestic OEMs in the industrial, construction, HVAC, plumbing, and refrigeration markets. The total amount of order backlog for the Industrial Metals Segment as of December 26, 2020 was not significant.

Competitors, primarily in the brass rod market, include Wieland Chase, LLC, a subsidiary of Wieland-Werke AG and others, both domestic and foreign.

Climate Segment

The Climate segment is composed of Refrigeration Products, Fabricated Tube Products, Westermeyer Industries, Inc. (Westermeyer), Turbotec Products, Inc. (Turbotec), ATCO Rubber Products, Inc. (ATCO), Linesets, Inc., and Shoals Tubular, Inc. (Shoals).

Refrigeration Products designs and manufactures valves, protection devices, and brass fittings for various OEMs in the commercial HVAC and refrigeration markets. Fabricated Tube Products manufactures tubular assemblies and fabrications for



OEMs in the HVAC and refrigeration markets. Westermeyer designs, manufactures, and distributes high-pressure components and accessories for the air-conditioning and refrigeration markets. Turbotec manufactures coaxial heat exchangers and twisted tubes for the HVAC, geothermal, refrigeration, swimming pool heat pump, marine, ice machine, commercial boiler, and heat reclamation markets. ATCO manufactures and distributes insulated HVAC flexible duct systems. Shoals Tubular manufactures brazed manifolds, headers, and distributor assemblies.

We acquired ATCO on July 2, 2018 and Shoals on January 17, 2020. These acquisitions complement our existing businesses in the Climate segment.

The segment's sales are approximately evenly split between the OEM and wholesale channels in the HVAC and refrigeration markets in the U.S. The total amount of order backlog for the Climate segment as of December 26, 2020 was not significant.

Human Capital Resources

As of December 26, 2020, the Company employed approximately 5,007 employees, of which approximately 1,678 were represented by various unions. Those union contracts will expire as follows:

| Location | Expiration Date |
|--------------------------------------|--------------------|
| Port Huron, Michigan (Local 218 IAM) | May 7, 2023 |
| Wynne, Arkansas (MCTP) | November 30, 2024 |
| Port Huron, Michigan (Local 44 UAW) | June 26, 2022 |
| Wynne, Arkansas (B&K LLC) | June 28, 2021 |
| North Wales, Pennsylvania | July 31, 2021 |
| Belding, Michigan | September 17, 2021 |
| Fulton, Mississippi | October 2, 2021 |
| Waynesboro, Tennessee | November 3, 2021 |

The union agreements at the Company's U.K. and Mexico operations are renewed annually. The Company expects to renew its union contracts without material disruption to its operations. We consider our relationship with our employees to be good.

Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing, and integrating our existing and additional employees. The principal purposes of our equity incentive plans are to attract, retain, and motivate selected employees and directors through the granting of stock-based compensation awards. The health and safety of our employees is our high priority and in particular, in response to the COVID-19 pandemic. We have taken additional measures to limit possible infections at the workplace.

Furthermore, we expect that our employees and members of our Board of Directors will conduct themselves ethically and properly as a matter of course and comply with the guidelines set forth on our Code of Business Conduct and Ethics.

Raw Material and Energy Availability

A substantial portion of our base metal requirements (primarily copper) is normally obtained through short-term supply contracts with competitive pricing provisions (for cathode) and the open market (for scrap). Other raw materials used in the production of brass, including brass scrap, zinc, tin, and lead are obtained from zinc and lead producers, open-market dealers, and customers with brass process scrap. Raw materials used in the fabrication of aluminum and plastic products are purchased in the open market from major producers.

Adequate supplies of raw material have historically been available to us from primary producers, metal brokers, and scrap dealers. Sufficient energy in the form of natural gas, fuel oils, and electricity is available to operate our production facilities. While temporary shortages of raw material and fuels may occur occasionally, to date they have not materially hampered our operations.

Our copper tube facilities can accommodate both refined copper and certain grades of copper scrap as the primary feedstock. The Company has commitments from refined copper producers for a portion of its metal requirements for 2021. Adequate quantities of copper are currently available. While we will continue to react to market developments, resulting pricing volatility or supply disruptions, if any, could nonetheless adversely affect the Company.

Environmental Proceedings

Compliance with environmental laws and regulations is a matter of high priority for the Company. Mueller's provision for environmental matters related to all properties was \$4.2 million for 2020, \$1.7 million for 2019, and \$2.0 million for 2018. The reserve for environmental matters was \$24.0 million at December 26, 2020 and \$20.9 million at December 28, 2019. Environmental expenses related to non-operating properties are presented below operating income in the Consolidated Statements of Income, and costs related to operating properties are included in cost of goods sold. We currently anticipate that we will need to make expenditures of approximately \$4.3 million for compliance activities related to existing environmental matters during the next three fiscal years.

For a description of material pending environmental proceedings, see "<u>Note 14 – Commitments and Contingencies</u>" in the Notes to Consolidated Financial Statements, which is incorporated herein by reference.

Other Business Factors

Our business is not materially dependent on patents, trademarks, licenses, franchises, or concessions held. In addition, expenditures for Company-sponsored research and development activities were not material during 2020, 2019, or 2018. No material portion of our business involves governmental contracts.

Seasonality

Our net sales typically moderate in the fourth quarter as a result of the seasonal construction markets and customer shutdowns for holidays, year-end plant maintenance, and physical inventory counts. Also, our working capital typically increases in the first quarter in preparation for the construction season.

SEC Filings

We make available through our internet website our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the Securities and Exchange Commission (SEC). To retrieve any of this information, you may access our internet home page at www.muellerindustries.com, select Investors, and then select SEC Filings.

ITEM 1A. RISK FACTORS

The Company is exposed to risk as it operates its businesses. To provide a framework to understand our operating environment, we are providing a brief explanation of the more significant risks associated with our businesses. Although we have tried to identify and discuss key risk factors, others could emerge in the future. These risk factors should be considered carefully when evaluating the Company and its businesses.

Increases in costs and the availability of energy and raw materials used in our products could impact our cost of goods sold and our distribution expenses, which could have a material adverse impact on our operating margins.

Both the costs of raw materials used in our manufactured products (copper, brass, zinc, aluminum, and plastic resins) and energy costs (electricity, natural gas and fuel) have been volatile during the last several years, which has resulted in changes in production and distribution costs. For example, recent and pending climate change regulation and initiatives on the state, regional, federal, and international levels that have focused on reducing greenhouse gas (GHG) emissions from the energy and utility sectors may affect energy availability and costs in the near future. While we typically attempt to pass costs through to our customers or to modify or adapt our activities to mitigate the impact of increases, we may not be able to do so successfully. Failure to fully pass increases to our customers or to modify or adapt our activities to mitigate the impact could have a material adverse impact on our operating margins. Additionally, if we are for any reason unable to obtain raw materials or energy, our ability to manufacture our products would be impacted, which could have a material adverse impact on our operating margins.

The unplanned departure of key personnel could disrupt our business.

We depend on the continued efforts of our senior management. The unplanned loss of key personnel, or the inability to hire and retain qualified executives, could negatively impact our ability to manage our business.



Economic conditions in the housing and commercial construction industries, as well as changes in interest rates, could have a material adverse impact on our business, financial condition, and results of operations.

Our business is sensitive to changes in general economic conditions, particularly in the housing and commercial construction industries. Prices for our products are affected by overall supply and demand in the market for our products and for our competitors' products. In particular, market prices of building products historically have been volatile and cyclical, and we may be unable to control the timing and extent of pricing changes for our products. Prolonged periods of weak demand or excess supply in any of our businesses could negatively affect our revenues and margins and could result in a material adverse impact on our business, financial condition, and results of operations.

The markets that we serve, including, in particular, the housing and commercial construction industries, are significantly affected by movements in interest rates and the availability of credit. Significantly higher interest rates could have a material adverse effect on our business, financial condition, and results of operations. Our businesses are also affected by a variety of other factors beyond our control, including, but not limited to, employment levels, foreign currency exchange rates, unforeseen inflationary pressures, and consumer confidence. Since we operate in a variety of geographic areas, our businesses are subject to the economic conditions in each such area. General economic downturns or localized downturns in the regions where we have operations could have a material adverse effect on our business, financial condition, and results of operations.

The impact of economic conditions on the operations or liquidity of any party with which we conduct our business, including our suppliers and customers, may adversely impact our business.

Competitive conditions, including the impact of imports and substitute products and technologies, could have a material adverse effect on the demand for our products as well as our margins and profitability.

The markets we serve are competitive across all product lines. Some consolidation of customers has occurred and may continue, which could shift buying power to customers. In some cases, customers have moved production to low-cost countries such as China, or sourced components from there, which has reduced demand in North America for some of the products we manufacture. These conditions could have a material adverse impact on our ability to maintain margins and profitability. The potential threat of imports and substitute products is based upon many factors, including raw material prices, distribution costs, foreign exchange rates, production costs, and the development of emerging technologies and applications. The end use of alternative import and/or substitute products could have a material adverse effect on our business, material adverse effect on our business.

Our exposure to exchange rate fluctuations on cross border transactions and the translation of local currency results into U.S. dollars could have an adverse impact on our results of operations or financial position.

We conduct our business through subsidiaries in several different countries and export our products to many countries. Fluctuations in currency exchange rates could have a significant impact on the competitiveness of our products as well as the reported results of our operations, which are presented in U.S. dollars. A portion of our products are manufactured in or acquired from suppliers located in lower cost regions. Cross border transactions, both with external parties and intercompany relationships, result in increased exposure to foreign exchange fluctuations. The strengthening of the U.S. dollar could expose our U.S. based businesses to competitive threats from lower cost producers in other countries such as China. Lastly, our sales are translated into U.S. dollars for reporting purposes. The strengthening of the U.S. dollar could result in unfavorable translation effects when the results of foreign operations are translated into U.S. dollars. Accordingly, significant changes in exchange rates, particularly the British pound sterling, Mexican peso, Canadian dollar, and South Korean won, could have an adverse impact on our results of operations of financial position.

The exit by the United Kingdom (U.K.) from the European Union (EU) (Brexit) could adversely affect our business.

The U.K. left the EU on January 31, 2020 pursuant to the terms of a withdrawal agreement concluded between the UK government and the EU Council (Withdrawal Agreement). The Withdrawal Agreement allowed for a transition period during which the U.K.'s trading relationship with the EU remained largely unchanged while the future terms of that relationship were being negotiated. That transition period has now ended. On December 24, 2020, the U.K. and the EU announced that they had struck a new bilateral trade and cooperation deal governing the future relationship between the U.K. and the EU and the U.K. following the end of the transition period. The Trade and Cooperation Agreement was formally approved by the 27 Member States of the EU on December 29, 2020, and was formally approved by the U.K. Parliament on December 30, 2020. As of the date of this Annual



Report on Form 10-K, the European Commission has proposed to apply the Trade and Cooperation Agreement on a provisional basis for a limited time until February 28, 2021, by which time the Trade and Cooperation Agreement must be approved by the European Parliament.

The Trade and Cooperation Agreement provides clarity in respect of the intended shape of the future relationship between the U.K. and the EU and some detailed matters of trade and cooperation. However, as of the date of this Annual Report on Form 10-K, there remain unavoidable uncertainties related to Brexit, and the new relationship between the U.K. and EU, which will continue to be developed and defined.

As a result of Brexit, we may be negatively impacted by increased volatility in exchange rates and interest rates and disruptions affecting our relationships with our existing and future customers, suppliers and employees. Brexit and its implementation could also adversely affect European or worldwide political, regulatory, economic or market conditions and could contribute to instability in global political institutions, regulatory agencies and financial markets. Any of these effects of Brexit, and others we cannot anticipate, could adversely affect our business, results of operations and financial condition.

We are subject to claims, litigation, and regulatory proceedings that could have a material adverse effect on us.

We are, from time-to-time, involved in various claims, litigation matters, and regulatory proceedings. These matters may include contract disputes, personal injury claims, environmental claims and administrative actions, Occupational Safety and Health Administration inspections or proceedings, other tort claims, employment and tax matters and other litigation including class actions that arise in the ordinary course of our business. Although we intend to defend these matters vigorously, we cannot predict with certainty the outcome or effect of any claim or other litigation matter, and there can be no assurance as to the ultimate outcome of any litigation or regulatory proceeding. Litigation and regulatory proceedings may have a material adverse effect on us because of potential adverse outcomes, defense costs, the diversion of our management's resources, availability of insurance coverage and other factors.

A strike, other work stoppage or business interruption, or our inability to renew collective bargaining agreements on favorable terms, could impact our cost structure and our ability to operate our facilities and produce our products, which could have an adverse effect on our results of operations.

We have a number of employees who are covered by collective bargaining or similar agreements. If we are unable to negotiate acceptable new agreements with the unions representing our employees upon expiration of existing contracts, we could experience strikes or other work stoppages. Strikes or other work stoppages could cause a significant disruption of operations at our facilities, which could have an adverse impact on us. New or renewal agreements with unions representing our employees could call for higher wages or benefits paid to union members, which would increase our operating costs and could adversely affect our profitability. Higher costs and/or limitations on our ability to operate our facilities and manufacture our products resulting from increased labor costs, strikes or other work stoppages could have a material adverse effect on our results of operations.

In addition, unexpected interruptions in our operations or those of our customers or suppliers due to such causes as weather-related events or acts of God, such as earthquakes, could have an adverse effect on our results of operations. For example, the Environmental Protection Agency has found that global climate change would be expected to increase the severity and possibly the frequency of severe weather patterns such as hurricanes. Although the financial impact of such future events is not reasonably estimable at this time, should they occur, our operations in certain coastal and flood-prone areas or operations of our customers and suppliers could be adversely affected.

We are subject to environmental, health, and safety laws and regulations and future compliance may have a material adverse effect on our results of operations, financial position, or cash flows.

The nature of our operations exposes us to the risk of liabilities and claims with respect to environmental, health, and safety matters. While we have established accruals intended to cover the cost of environmental remediation at contaminated sites, the actual cost is difficult to determine and may exceed our estimated reserves. Further, changes to, or more rigorous enforcement or stringent interpretation of environmental or health and safety laws could require significant incremental costs to maintain compliance. Recent and pending climate change regulation and initiatives on the state, regional, federal, and international levels may require certain of our facilities to reduce GHG emissions. While not reasonably estimable at this time, this could require capital expenditures for environmental control facilities and/or the purchase of GHG emissions credits in the coming years. In addition, with respect to environmental matters, future claims may be asserted against us for, among other things, past acts or omissions at locations operated by predecessor entities, or alleging damage or injury or seeking other relief in connection with environmental matters associated with our operations. Future liabilities, claims, and compliance costs may

have a material adverse effect on us because of potential adverse outcomes, defense costs, diversion of our resources, availability of insurance coverage, and other factors. The overall impact of these requirements on our operations could increase our costs and diminish our ability to compete with products that are produced in countries without such rigorous standards; the long run impact could negatively impact our results and have a material adverse effect on our business.

If we do not successfully execute or effectively operate, integrate, leverage and grow acquired businesses, our financial results may suffer.

Our strategy for long-term growth, productivity and profitability depends in part on our ability to make prudent strategic acquisitions and to realize the benefits we expect when we make those acquisitions. In furtherance of this strategy, over the past several years, we have acquired businesses in Europe, Canada, South Korea, the Middle East, and the United States.

While we currently anticipate that our past and future acquisitions will enhance our value proposition to customers and improve our long-term profitability, there can be no assurance that we will realize our expectations within the time frame we have established, if at all, or that we can continue to support the value we allocate to these acquired businesses, including their goodwill or other intangible assets.

We may be subject to risks relating to our information technology systems.

We rely on information technology systems to process, transmit and store electronic information and manage and operate our business. The incidence of cyber attacks, computer hacking, computer viruses, worms, and other disruptive software, denial of service attacks, and other malicious cyber activities are on the rise worldwide. A breach of our information technology systems or those of our commercial partners could expose us, our customers, our suppliers, and our employees to risks of misuse or improper disclosure of data, business information (including intellectual property) and other confidential information. We operate globally, and the legal rules governing data storage and transfers are often complex, unclear, and changing. A breach could also result in manipulation and destruction of data, production downtimes and operations disruptions. Any such breaches or events could expose us to legal liability and adversely affect our reputation, competitive position, business or results of operations.

The novel coronavirus (COVID-19) and other possible pandemics and similar outbreaks, could result in material adverse effects on our business, financial position, results of operations and cash flows.

The novel coronavirus (COVID-19) pandemic, and the various governmental, industry and consumer actions related thereto, are having and could continue to have negative impacts on our business and have created or could create conditions in our other risk factors noted above. These impacts include, without limitation, potential significant volatility or decreases in the demand for our products, changes in customer and consumer behavior and preferences, disruptions in or closures of our manufacturing operations or those of our customers and suppliers, disruptions within our supply chain, limitations on our employees' ability to work and travel, potential financial difficulties of customers and suppliers, significant changes in economic or political conditions, and related financial and commodity volatility, including volatility in raw material and other input costs.

It is uncertain what the impact of various legislation and other responses being taken in the U.S. and other countries will have on the economy, international trade, our industries, our businesses and the businesses of our customers and suppliers.

Despite our efforts to manage the impacts, the degree to which COVID-19 and related actions ultimately impact our business, financial position, results of operations and cash flows will depend on factors beyond our control including the duration, spread and severity of the outbreak, the actions taken to contain COVID-19 and mitigate its public health effects, the impact on the U.S. and global economies and demand for our products, and how quickly and to what extent normal economic and operating conditions resume.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Information pertaining to our major operating facilities is included below. Except as noted, we own all of the principal properties. In addition, we own and/or lease other properties used as distribution centers and corporate offices. Our plants are in satisfactory condition and are suitable for the purpose for which they were designed and are now being used.

| <u>Piping Systems Segment</u> Fulton, MS New Market, VA Bilston, England Wynne, AR Yangju City, Gyeonggi Province, South Korea | 778,065 413,120 402,500 400,000 343,909 260,000 | Manufacturing, Packaging, & Distribution Manufacturing & Distribution Manufacturing Manufacturing & Distribution | Owned Owned Owned |
|---|--|---|-------------------------|
| Fulton, MS New Market, VA Bilston, England Wynne, AR | 413,120 402,500 400,000 343,909 | Manufacturing & Distribution Manufacturing | Owned |
| Bilston, England Wynne, AR | 402,500 400,000 343,909 | Manufacturing | |
| Wynne, AR | 400,000 343,909 | Manufacturing | Owned |
| • | 343,909 | Manufacturing & Distribution | O WIICU |
| Yangiu City, Gyeonogi Province, South Korea | , | | Owned |
| | 260.000 | Manufacturing | Owned |
| Cedar City, UT | 200,000 | Manufacturing & Distribution | Owned |
| Woodbridge, NJ | 247,000 | Distribution | Leased |
| London, Ontario, Canada | 200,400 | Manufacturing | Owned |
| North Wales, PA | 174,000 | Manufacturing | Owned |
| Covington, TN | 159,500 | Manufacturing | Owned |
| Monterrey, Mexico | 152,000 | Manufacturing | Leased |
| Monterrey, Mexico | 132,000 | Manufacturing | Leased |
| Ennis, TX | 109,700 | Distribution | Leased |
| University Park, IL | 90,100 | Distribution | Leased |
| Ansonia, CT | 89,396 | Manufacturing & Distribution | Owned |
| Kansas City, MO | 85,000 | Distribution | Leased |
| St Thomas, Ontario Canada | 73,124 | Warehouse | Leased |
| Shelby, OH | 61,750 | Distribution | Leased |
| Atlanta, GA | 60,293 | Distribution | Leased |
| Dallas, TX | 55,585 | Distribution | Leased |
| Ontario, CA | 54,209 | Distribution | Leased |
| Jacksonville, FL | 48,000 | Distribution | Leased |
| Glendale Heights, IL | 43,295 | Distribution | Leased |
| Calgary, Alberta, Canada | 22,084 | Manufacturing | Leased |
| Calgary, Alberta, Canada | 21,117 | Manufacturing | Leased |
| Georgetown, Ontario, Canada | 20,000 | Manufacturing | Leased |
| Calgary, Alberta, Canada | 20,000 | Office Space | Leased |
| Calgary, Alberta, Canada | 12,100 | Warehouse | Leased |
| Industrial Metals Segment | | | |
| Port Huron, MI | 450,000 | Manufacturing | Owned |
| Belding, MI | 293,068 | Manufacturing | Owned |
| Brooklyn, OH | 163,200 | Manufacturing | Leased |
| Marysville, MI | 81,500 | Manufacturing | Owned |
| Brighton, MI | 65,000 | Machining | Leased |
| Waynesboro, TN | 57,000 | Manufacturing | Leased |
| Middletown, OH | 55,000 | Manufacturing | Owned |
| Pittsburgh, PA | 5,760 | Office Space | Leased |
| Climate Segment | | | |
| Plainville, GA | 313,835 | Manufacturing & Distribution | Owned |



| | Building Space | | |
|-----------------------------------|----------------|------------------------------|----------------|
| Location of Facility | (Sq. Ft.) | Primary Use | Owned or Lease |
| Fort Worth, TX | 266,485 | Manufacturing | Owned |
| Cartersville, GA | 260,924 | Manufacturing | Owned |
| Phoenix, AZ | 250,250 | Manufacturing & Distribution | Owned |
| Tampa , FL | 202,614 | Manufacturing & Distribution | Owned |
| Crawsfordville, IN | 153,600 | Manufacturing & Distribution | Owned |
| Fort Worth, TX | 153,374 | Manufacturing | Owned |
| Vineland, NJ | 136,000 | Manufacturing & Distribution | Owned |
| Guadalupe, Mexico | 130,110 | Manufacturing | Leased |
| Sacramento, CA | 121,240 | Manufacturing & Distribution | Owned |
| Bluffs, IL | 107,000 | Manufacturing | Owned |
| Fort Worth, TX | 103,125 | Manufacturing & Distribution | Owned |
| Hickory, NC | 100,000 | Manufacturing | Owned |
| Hartsville, TN | 78,000 | Manufacturing | Owned |
| Houston, TX | 72,000 | Manufacturing & Distribution | Owned |
| Carthage, TN | 67,520 | Manufacturing | Owned |
| Baltimore, MD | 62,500 | Manufacturing & Distribution | Owned |
| Florence, AL | 62,000 | Manufacturing | Leased |
| Springdale, AR | 57,600 | Manufacturing & Distribution | Owned |
| Gordonsville, TN | 48,736 | Manufacturing | Leased |
| Lawrenceville, GA | 42,000 | Manufacturing | Leased |
| Xinbei District, Changzhou, China | 33,940 | Manufacturing | Leased |
| Kansas City, MO | 30,500 | Manufacturing | Leased |
| Ansonia, CT | 24,000 | Manufacturing | Leased |
| Carrollton, TX | 13,700 | Office | Leased |

ITEM 3. LEGAL PROCEEDINGS

The Company is involved in certain litigation as a result of claims that arose in the ordinary course of business. Additionally, we may realize the benefit of certain legal claims and litigation in the future; these gain contingencies are not recognized in the Consolidated Financial Statements.

For a description of material pending legal proceedings, see "Note 14 - Commitments and Contingencies" in the Notes to Consolidated Financial Statements, which is incorporated herein by reference.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II

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

Our common stock is listed on the New York Stock Exchange (NYSE) under the symbol "MLI." As of February 19, 2021, the number of holders of record of Mueller's common stock was 653.

During fiscal 2019 and 2020, we paid a quarterly cash dividend of \$0.10 per share of common stock.

Payment of dividends in the future is dependent upon the Company's financial condition, cash flows, capital requirements, earnings, and other factors.

Issuer Purchases of Equity Securities

The Company's Board of Directors has extended, until July 2021, the authorization to repurchase up to 20 million shares of the Company's common stock through open market transactions or through privately negotiated transactions. The Company may cancel, suspend, or extend the time period for the purchase of shares at any time. Any repurchases will be funded primarily through existing cash and cash from operations. The Company may hold any shares repurchased in treasury or use a portion of the repurchased shares for its stock-based compensation plans, as well as for other corporate purposes. From its initial authorization in 1999 through December 26, 2020, the Company has repurchased approximately 6.4 million shares under this authorization. Below is a summary of the Company's stock repurchases for the quarter ended December 26, 2020.

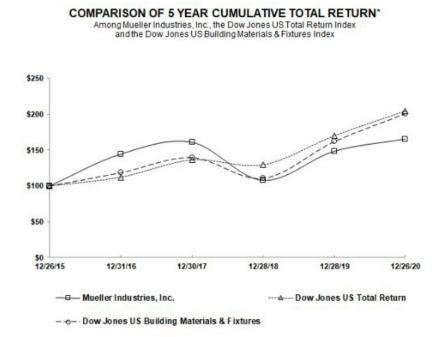
| | (a) Total Number of Shares Purchased ⁽¹⁾ | (b) Average Price Paid per Share | (c) Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs | (d) Maximum Number of Shares That May Yet Be Purchased Under the Plans or Programs ⁽²⁾ |
|---------------------------------------|---|--|---|--|
| September 27, 2020 – October 24, 2020 | — | _ | — | 13,575,058 |
| October 25, 2020 – November 21, 2020 | 8,150 | 34.11 | | 13,575,058 |
| November 22, 2020 – December 26, 2020 | 15,338 | 35.71 | — | 13,575,058 |
| Total | 23.488 | | | |

(1) Includes shares tendered to the Company by holders of stock-based awards in payment of the purchase price and/or withholding taxes upon exercise and/or vesting.

⁽²⁾ Shares available to be purchased under the Company's 20 million share repurchase authorization until July 2021. The extension of the authorization was announced on October 21, 2020.

Company Stock Performance

The following graph compares total stockholder return since December 26, 2015 to the Dow Jones U.S. Total Return Index (Total Return Index) and the Dow Jones U.S. Building Materials & Fixtures Index (Building Materials Index). Total return values for the Total Return Index, the Building Materials Index and the Company were calculated based on cumulative total return values assuming reinvestment of (i) regular quarterly dividends paid by the Company, (ii) the cash paid by the Company in conjunction with the special dividend and (iii) the proceeds of an assumed sale at par of the Debentures paid by the Company in connection with the special dividend.



*\$100 invested on 12/26/15 in stock or 12/31/15 in index, including reinvestment of dividends. Indexes calculated on month-end basis.

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| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|--------|--------|--------|--------|--------|--------|
| Mueller Industries, Inc. | 100.00 | 144.36 | 160.77 | 107.78 | 148.17 | 165.29 |
| Dow Jones U.S. Total Return Index | 100.00 | 112.25 | 136.38 | 129.60 | 169.96 | 204.63 |
| Dow Jones U.S. Building Materials & Fixtures Index | 100.00 | 118.45 | 139.59 | 110.61 | 161.86 | 200.83 |

ITEM 6. SELECTED FINANCIAL DATA

| (In thousands, except per share data) | 2020 | 2019 | 2018 | 2017 | 2016 |
|--|------------------------|-----------------|-----------------|-----------------|-----------------------|
| For the fiscal year: ⁽¹⁾ | | | | | |
| Net sales | \$ 2,398,043 | \$ 2,430,616 | \$ 2,507,878 | \$ 2,266,073 | \$ 2,055,622 |
| Operating income ⁽²⁾ | 245,838 | 191,403 | 172,969 | 150,807 | 154,401 |
| Net income attributable to Mueller Industries, Inc. | 139,493 ⁽³⁾ | 100,972 (4) | 104,459 (5) | 85,598 | 99,727 ⁽⁶⁾ |
| Diluted earnings per share | 2.47 | 1.79 | 1.82 | 1.49 | 1.74 |
| Cash dividends per share | 0.40 | 0.40 | 0.40 | 3.40 | 0.38 |
| At year-end: | | | | | |
| Total assets | 1,528,568 | 1,370,940 | 1,369,549 | 1,320,173 | 1,447,476 |
| Long-term debt | 286,593 | 378,724 | 489,597 | 448,592 | 213,709 |

(1) Includes activity of acquired businesses from the following purchase dates: Kessler Sales & Distribution, August 3, 2020; Shoals Tubular, Inc., January 17, 2020; ATCO Rubber Products, Inc., July 2, 2018; Die-Mold Tool Limited, March 31, 2018; Pexcor Manufacturing Company Inc. and Heatlink Group Inc., May 31, 2017; Jungwoo Metal Ind. Co., LTD, April 26, 2016.

(2) Adjusted retroactively to reflect adoption of ASU 2017-07 that occurred during 2018. The components of net periodic benefit cost (income) other than the service cost component are included in other income (expense), net in the Consolidated Statements of Income.

(3) Includes litigation settlement gain of \$22.1 million resulting from the Deepwater Horizon Economic and Property Damage Settlement, offset by charges o \$17.8 million resulting from the termination of the U.S. defined benefit pension plan, and pre-tax impairment charges of \$3.8 million on fixed assets.

⁽⁴⁾ Includes net expense of \$3.6 million resulting from the change in fair value of contingent consideration.

(5) Includes a pre-tax insurance recovery gain of \$3.7 million related to the losses incurred due to the 2017 fire at the brass rod mill in Port Huron, Michigan.

(6) Includes pre-tax impairment charges of \$6.8 million on fixed assets.

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

Management's discussion and analysis of financial condition and results of operations is contained under the caption "Financial Review" submitted as a separate section of this Annual Report on Form 10-K commencing on page <u>F-2</u>.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Quantitative and qualitative disclosures about market risk are contained under the caption "Financial Review" submitted as a separate section of this Annual Report on Form 10-K commencing on page <u>F-2</u>.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Financial Statements required by this item are contained in a separate section of this Annual Report on Form 10-K commencing on page-17.

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

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

The Company maintains disclosure controls and procedures designed to ensure information required to be disclosed in Company reports filed under the Securities Exchange Act of 1934, as amended (the Exchange Act), is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures are designed to provide reasonable assurance that information required to be disclosed in Company reports filed under the Exchange Act is accumulated and communicated to management, including the Company's Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

The Company's management, with the participation of the Company's Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the Company's disclosure controls and procedures pursuant to Rule 13a-15(e) of the Exchange Act as of December 26, 2020. Based on that evaluation, the Company's Chief Executive Officer and Chief Financial Officer have concluded that the Company's disclosure controls and procedures are effective as of December 26, 2020 to ensure that information required to be disclosed in Company reports filed under the Exchange Act is (i) recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms and (ii) accumulated and communicated to management, including the Company's principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

Management's Report on Internal Control over Financial Reporting

The Company's management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. Pursuant to the rules and regulations of the SEC, internal control over financial reporting is a process designed by, or under the supervision of, the Company's principal executive and principal financial officers, and effected by the Company's Board of Directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States and includes those policies and procedures that (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the Company's assets; (ii) 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 issuer are being made only in accordance with authorizations of the Company's management and directors; and (iii) 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. Due to inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Further, because of changes in conditions, effectiveness of internal control over financial reporting may vary over time.

The Company acquired Shoals Tubular, Inc. and Kessler Sales & Distribution during 2020 and has excluded these businesses from management's assessment of internal controls. The total value of assets for these businesses represents five percent of the Company's consolidated total assets at December 26, 2020. Net sales and operating income from the dates of acquisition represent three percent of the Company's consolidated net sales and less than one percent of operating income of the Company for 2020. Accordingly, these acquired businesses are not included in the scope of this report.

As required by Rule 13a-15(c) under the Exchange Act, the Company's management, with the participation of the Company's Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the Company's internal control over financial reporting as of December 26, 2020 based on the control criteria established in a report entitled *Internal Control—Integrated Framework*, (2013 Framework) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on such evaluation, management has concluded that our internal control over financial reporting was effective as of December 26, 2020.

Ernst & Young LLP, the independent registered public accounting firm that audited the Company's financial statements included in this Annual Report on Form 10-K, has issued an attestation report on the Company's internal control over financial reporting, which is included herein.

Changes in Internal Control Over Financial Reporting

There were no changes in the Company's internal control over financial reporting during the Company's fiscal quarter ended December 26, 2020, that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.



Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Mueller Industries, Inc.

Opinion on Internal Control over Financial Reporting

We have audited Mueller Industries, Inc.'s internal control over financial reporting as of December 26, 2020, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Mueller Industries, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 26, 2020, based on the COSO criteria.

As indicated in the accompanying Management's Report on Internal Control over Financial Reporting, management's assessment of and conclusion on the effectiveness of internal control over financial reporting did not include the internal controls of Shoals Tubular, Inc. and Kessler Sales & Distribution, which are included in the 2020 consolidated financial statements of the Company and constituted 5% of total assets as of December 26, 2020 and 3% and 0% of net sales and operating income, respectively, for the year then ended. Our audit of internal control over financial reporting of the Company also did not include an evaluation of the internal control over financial reporting of Shoals Tubular, Inc. and Kessler Sales & Distribution.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 26, 2020 and December 28, 2019, the related consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 26, 2020, and the related notes and financial statement schedule listed in the Index at Item 15(a) and our report dated February 24, 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 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.

Ernst + Young ILP

Memphis, Tennessee February 24, 2021

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS, AND CORPORATE GOVERNANCE

The information required by Item 10 is contained under the captions "Ownership of Common Stock by Directors and Executive Officers and Information about Director Nominees," "Corporate Governance," "Report of the Audit Committee of the Board of Directors," and "Section 16(a) Beneficial Ownership Compliance Reporting" in the Company's Proxy Statement for its 2021 Annual Meeting of Stockholders to be filed with the SEC on or about March 25, 2021, which is incorporated herein by reference.

The Company has adopted a Code of Business Conduct and Ethics that applies to its chief executive officer, chief financial officer, and other financial executives. We have also made the Code of Business Conduct and Ethics available on the Company's website at www.muellerindustries.com.

ITEM 11. EXECUTIVE COMPENSATION

The information required by Item 11 is contained under the caption "Compensation Discussion and Analysis," "Summary Compensation Table for 2020," "2020 Grants of Plan Based Awards Table," "Outstanding Equity Awards at Fiscal 2020 Year-End," "2020 Option Exercises and Stock Vested," "Potential Payments Upon Termination of Employment or Change in Control as of the End of 2020," "2020 Director Compensation," "Report of the Compensation Committee of the Board of Directors on Executive Compensation" and "Corporate Governance" in the Company's Proxy Statement for its 2021 Annual Meeting of Stockholders to be filed with the SEC on or about March 25, 2021, which is incorporated herein by reference.

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

Equity Compensation Plan Information

The following table discloses information regarding the securities to be issued and the securities remaining available for issuance under the Registrant's stock-based incentive plans as of December 26, 2020 (shares in thousands):

| Plan category | (a) Number of securities to be issued upon exercise of outstanding options, warrants, and rights | ex outs | (b) eighted average ercise price of standing options, rants, and rights | (c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) |
|--|--|------------|---|---|
| Equity compensation plans approved by security holders | 793 | \$ | 26.81 | 1,635 |
| Equity compensation plans not approved by security holders | | | | |
| Total | 793 | \$ | 26.81 | 1,635 |

Other information required by Item 12 is contained under the captions "Principal Stockholders" and "Ownership of Common Stock by Directors and Executive Officers and Information about Director Nominees" in the Company's Proxy Statement for



its 2021 Annual Meeting of Stockholders to be filed with the SEC on or about March 25, 2021, which is incorporated herein by reference.

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

The information required by Item 13 is contained under the caption "Corporate Governance" in the Company's Proxy Statement for its 2021 Annual Meeting of Stockholders to be filed with the SEC on or about March 25, 2021, which is incorporated herein by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by Item 14 is contained under the caption "Appointment of Independent Registered Public Accounting Firm" in the Company's Proxy Statement for its 2021 Annual Meeting of Stockholders to be filed with the SEC on or about March 25, 2021, which is incorporated herein by reference.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

- (a) The following documents are filed as part of this report:
- Financial Statements: the financial statements, notes, and report of independent registered public accounting firm described in Item 8 of this Annual Report on Form 10-K are contained in a separate section of this Annual Report on Form 10-K commencing on page <u>F-1</u>.
- 2. Financial Statement Schedule: the financial statement schedule described in Item 8 of this report is contained in a separate section of this Annual Report on Form 10-K commencing on page F-1.
- 3. Exhibits:

Certificate of Incorporation and Bylaws

- 3.a Restated Certificate of Incorporation of the Registrant dated February 8, 2007 (Incorporated herein by reference to Exhibit 3.1 of the Registrant's Annual Report on Form 10-K, dated February 28, 2007, for the fiscal year ended December 30, 2006).
- 3.b Amended and Restated By-laws of the Registrant, effective as of January 15, 2016 (Incorporated herein by reference to Exhibit 3.1 of the Registrant's Current Report on Form 8-K, dated January 19, 2016).

Long-Term Debt Instruments

- 4.1 Indenture, dated March 9, 2017, among the Registrant (as issuer) and Regions Bank (as trustee) (Incorporated herein by reference to Exhibit 4.1 of the Registrant's Current Report on Form 8-K, dated March 13, 2017).
- 4.2 Form of 6% Subordinated Debenture due 2027 (Incorporated herein by reference to Exhibit 4.1 of the Registrant's Current Report on Form 8-K, dated March 13, 2017).
- 4.3 Certain instruments with respect to long-term debt of the Registrant have not been filed as Exhibits to this Report since the total amount of securities authorized under any such instruments does not exceed 10 percent of the total assets of the Registrant and its subsidiaries on a consolidated basis. The Registrant agrees to furnish a copy of each such instrument upon request of the SEC.
- 4.4 Description of securities

Consulting, Employment, and Compensatory Plan Agreements

- 10.1
 Mueller Industries, Inc. 2002 Stock Option Plan Amended and Restated as of February 16, 2006 (Incorporated herein by reference to Exhibit 10.20 of the Registrant's Annual Report on Form 10-K, dated February 28, 2007, for the fiscal year ended December 30, 2006).
- 10.2 <u>Mueller Industries, Inc. 2009 Stock Incentive Plan (Incorporated by reference from Appendix I to the Company's 2009 Definitive Proxy</u> Statement with respect to the Company's 2009 Annual Meeting of Stockholders, as filed with the Securities and Exchange Commission on March 26, 2009).
- 10.3 <u>Mueller Industries, Inc. 2014 Stock Incentive Plan (Incorporated by reference from Appendix I to the Company's 2014 Definitive Proxy</u> <u>Statement with respect to the Company's 2014 Annual Meeting of Stockholders, as filed with the Securities and Exchange Commission on March 19,</u> 2014).
- 10.4 Amendment to the Mueller Industries, Inc. 2002 Stock Option Plan, dated July 11, 2011 (Incorporated herein by reference to Exhibit 10.16 of the Registrant's Annual Report on Form 10-K, dated February 28, 2012, for the fiscal year ended December 31, 2011).
- 10.5
 Amendment to the Mueller Industries, Inc. 2009 Stock Incentive Plan, dated July 11, 2011 (Incorporated herein by reference to Exhibit 10.17 of the Registrant's Annual Report on Form 10-K, dated February 28, 2012, for the fiscal year ended December 31, 2011).

| 10.6 | 2019 Incentive Plan (incorporated by reference to Annex 1 to the Company's definitive proxy statement filed with the SEC on March 28, 2019). |
|------------------|--|
| 10.7 | Mueller Industries, Inc. 2011 Annual Bonus Plan (Incorporated herein by reference to Exhibit 10.18 of the Registrant's Annual Report on Form 10-K, dated February 28, 2012, for the fiscal year ended December 31, 2011). |
| 10.8 | Summary description of the Registrant's 2021 incentive plan for certain key employees. |
| 10.9 | Change in Control Agreement, effective July 26, 2016 by and between the Registrant and Brian K. Barksdale (Incorporated herein by reference to Exhibit 10.3 of the Registrant's Quarterly Report on Form 10-Q, for the period ended July 2, 2016, dated July 28, 2016). |
| 10.10 | Change in Control Agreement, effective July 26, 2016 by and between the Registrant and Jeffrey A. Martin (Incorporated herein by reference to Exhibit 10.5 of the Registrant's Quarterly Report on Form 10-Q, for the period ended July 2, 2016, dated July 28, 2016). |
| 10.11 | Change in Control Agreement, effective July 26, 2016 by and between the Registrant and Mark Millerchip (Incorporated herein by reference to Exhibit 10.6 of the Registrant's Quarterly Report on Form 10-Q, for the period ended July 2, 2016, dated July 28, 2016). |
| 10.12 | Change in Control Agreement, effective July 26, 2016 by and between the Registrant and Nicholas W. Moss (Incorporated herein by reference to Exhibit 10.7 of the Registrant's Quarterly Report on Form 10-Q, for the period ended July 2, 2016, dated July 28, 2016). |
| 10.13 | Change in Control Agreement, effective July 26, 2016 by and between the Registrant and Steffen Sigloch (Incorporated herein by reference to Exhibit 10.8 of the Registrant's Quarterly Report on Form 10-Q, for the period ended July 2, 2016, dated July 28, 2016). |
| 10.14 | Change in Control Agreement, effective January 3, 2017 by and between the Registrant and Christopher J. Miritello (Incorporated herein by reference to Exhibit 10.25 of the Registrant's Annual Report on Form 10-K, dated March 1, 2017, for the fiscal year ended December 31, 2016). |
| 10.15 | Employment Agreement, dated as of March 15, 2018, by and between Mueller Industries, Inc. and Gregory L. Christopher (Incorporated herein by reference to Exhibit 10.1 of the Registrant's Current Report on Form 8-K, dated March 19, 2018). |
| <i>Financing</i> | Agreements |
| 10.16 | Credit Agreement, dated as of December 6, 2016 among the Registrant (as borrower), Bank of America (as agent), and certain lenders named therein (Incorporated herein by reference to Exhibit 10.1 of the Registrant's Current Report on Form 8-K, dated December 12, 2016). |
| 10.17 | Amendment No. 1 to Credit Agreement among the Registrant (as borrower), Bank of America, N.A. (as agent), and certainlenders named therein dated April 22, 2019 (Incorporated herein by reference to Exhibit 10.17 of the Registrant's Annual Report on Form 10-K, dated February 26, 2020, for the fiscal year ended December28, 2019). |
| Other Exh | <u>ibits</u> |
| 21.0 | Subsidiaries of the Registrant. |
| 23.0 | Consent of Independent Consent of Independent Registered Public Accounting Firm. |
| 31.1 | Certification of Chief Executive Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities Exchange Act of 1934, as amended. |
| 31.2 | Certification of Chief Financial Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Securities Exchange Act of 1934, as amended. |
| 32.1 | <u>Certification of Chief Executive Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u> |
| 32.2 | Certification of Chief Financial Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase |

101.INS XBRL Instance Document

101.LAB XBRL Taxonomy Extension Label Linkbase

101.PRE XBRL Presentation Linkbase Document

101.SCH XBRL Taxonomy Extension Schema

ITEM 16. Form 10-K Summary

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, on February 24, 2021.

MUELLER INDUSTRIES, INC.

<u>/s/ Gregory L. Christopher</u> Gregory L. Christopher, Chief Executive Officer (Principal Executive Officer) and Chairman of the Board

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

| Signature | Title | Date |
|---|--|-------------------|
| <u>/s/ Gregory L. Christopher</u> Gregory L. Christopher | Chief Executive Officer (Principal Executive Officer) and Chairman of the Board | February 24, 2021 |
| <u>/s/ Terry Hermanson</u> Terry Hermanson | Lead Independent Director | February 24, 2021 |
| <u>/s/ Elizabeth Donovan</u> Elizabeth Donovan | Director | February 24, 2021 |
| /s/ Gary S. Gladstein Gary S. Gladstein | Director | February 24, 2021 |
| <u>/s/ Gennaro J. Fulvio</u> Gennaro J. Fulvio | Director | February 24, 2021 |
| <u>/s/ Scott J. Goldman</u> Scott J. Goldman | Director | February 24, 2021 |
| <u>/s/ John B. Hansen</u> John B. Hansen | Director | February 24, 2021 |
| <u>/s/ Charles P. Herzog, Jr.</u> Charles P. Herzog, Jr. | Director | February 24, 2021 |

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

| Signature and Title | Date |
|--|-------------------|
| /s/ Jeffrey A. Martin | February 24, 2021 |
| Jeffrey A. Martin | |
| Chief Financial Officer and Treasurer | |
| (Principal Financial and Accounting Officer) | |
| /s/ Anthony J. Steinriede | February 24, 2021 |
| Anthony J. Steinriede | |
| Vice President – Corporate Controller | |



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FINANCIAL REVIEW

The Financial Review section of our Annual Report on Form 10-K consists of the following: Management's Discussion and Analysis of Results of Operations and Financial Condition (MD&A), the Consolidated Financial Statements, and Other Financial Information, all of which include information about our significant accounting policies, practices, and the transactions that impact our financial results. The following MD&A describes the principal factors affecting the results of operations, liquidity and capital resources, contractual cash obligations, and the critical accounting estimates of the Company. The discussion in the Financial Review section should be read in conjunction with the other sections of this Annual Report, particularly "Item 1: Business" and our other detailed discussion of risk factors included in this MD&A.

OVERVIEW

We are a leading manufacturer of copper, brass, aluminum, and plastic products. The range of products we manufacture is broad: copper tube and fittings; line sets; brass and copper alloy rod, bar, and shapes; aluminum and brass forgings; aluminum impact extrusions; PEX plastic tube and fittings; refrigeration valves and fittings; compressed gas valves; fabricated tubular products; pressure vessels; coaxial heat exchangers; steel nipples; insulated flexible duct systems; and brazed manifolds, headers, and distributor assemblies. We also resell brass and plastic plumbing valves, plastic fittings, malleable iron fittings, faucets and plumbing specialty products. Mueller's operations are located throughout the United States and in Canada, Mexico, Great Britain, South Korea, the Middle East, and China.

Each of the reportable segments is composed of certain operating segments that are aggregated primarily by the nature of products offered as follows:

- Piping Systems: The Piping Systems segment is composed of Domestic Piping Systems Group, Great Lakes Copper, Heatlink Group, Die-Mold, European Operations, Trading Group, and Jungwoo-Mueller (our South Korean joint venture). The Domestic Piping Systems Group manufactures and distributes copper tube, fittings, and line sets. These products are manufactured in the U.S., sold in the U.S., and exported to markets worldwide. Great Lakes Copper manufactures copper tube and line sets in Canada and sells the products primarily in the U.S. and Canada. Heatlink Group manufactures a complete line of products for PEX plumbing and radiant systems in Canada and sells these products in Canada and the U.S. Die-Mold manufactures PEX and other plumbing-related fittings and plastic injection tooling in Canada and sells these products in Canada and the U.S. European Operations manufacture copper tube in the United Kingdom, which is sold throughout Europe. The Trading Group manufactures pipe nipples and sources products for import distribution in North America. Jungwoo-Mueller manufactures copper-based joining products that are sold worldwide. The Piping Systems segment sells products to wholesalers in the plumbing and refrigeration markets, distributors to the manufactured housing and recreational vehicle industries, building material retailers, and air-conditioning original equipment manufacturers (OEMs).
- Industrial Metals: The Industrial Metals segment is composed of Brass Rod & Copper Bar Products, Impacts & Micro Gauge, and Brass Value-Added Products. The
 segment manufactures and sells brass and copper alloy rod, bar, and shapes; aluminum and brass forgings; aluminum impact extrusions; and gas valves and
 assemblies. The segment manufactures and sells its products primarily to domestic OEMs in the industrial, transportation, construction, heating, ventilation, and airconditioning, plumbing, refrigeration, and energy markets.
- Climate: The Climate segment is composed of Refrigeration Products, Fabricated Tube Products, Westermeyer, Turbotec, ATCO, Linesets, Inc., and Shoals. The
 segment manufactures and sells refrigeration valves and fittings, fabricated tubular products, high pressure components, coaxial heat exchangers, insulated HVAC
 flexible duct systems, line sets, brazed manifolds, headers, and distributor assemblies. The segment sells its products primarily to the heating, ventilation, airconditioning, and refrigeration markets in the U.S.

New housing starts and commercial construction are important determinants of our sales to the heating, ventilation, and air-conditioning, refrigeration, and plumbing markets because the principal end use of a significant portion of our products is in the construction of single and multi-family housing and commercial buildings. Repairs and remodeling projects are also important drivers of underlying demand for these products. In addition, our products are used in various transportation, automotive, and industrial applications.

According to the U.S. Census Bureau, actual housing starts in the U.S. were1.38 million in 2020, which compares to 1.29 million in 2019 and 1.25 million in 2018. Mortgage rates remain at historically low levels, as the average 30-year fixed mortgage rate was approximately 3.11 percent in 2020 and 3.94 percent in 2019. The private nonresidential construction sector,



includes offices, industrial, health care, and retail projects. According to the U.S. Census Bureau, the value of private nonresidential construction put in place was \$471.7 billion in 2020, \$486.3 billion in 2019, and \$465.5 billion in 2018.

Profitability of certain of our product lines depends upon the "spreads" between the cost of raw material and the selling prices of our products. The open market prices for copper cathode and copper and brass scrap, for example, influence the selling price of copper tube and brass rod, two principal products manufactured by the Company. We attempt to minimize the effects on profitability from fluctuations in material costs by passing through these costs to our customers; however margins of our businesses that account for inventory on a FIFO basis may be impacted in periods of significant fluctuations in material costs. Our earnings and cash flow are dependent upon these spreads that fluctuate based upon market conditions.

Earnings and profitability are also impacted by unit volumes that are subject to market trends, such as substitute products, imports, technologies, and market share. In our core product lines, we intensively manage our pricing structure while attempting to maximize profitability. From time-to-time, this practice results in lost sales opportunities and lower volume. For plumbing systems, plastics are the primary substitute product; these products represent an increasing share of consumption. For certain air-conditioning and refrigeration applications, aluminum-based systems are the primary substitution threat. We cannot predict the acceptance or the rate of switching that may occur. U.S. consumption of copper tube and brass rod is still predominantly supplied by U.S. manufacturers. In recent years, brass rod consumption in the U.S. has declined due to the outsourcing of many manufactured products from offshore regions.

RESULTS OF OPERATIONS

Consolidated Results

The following table compares summary operating results for 2020, 2019, and 2018:

| | | | _ | Percent C | hange |
|------------------|-----------------|-----------------|-----------------|---------------|---------------|
| (In thousands) | 2020 | 2019 | 2018 | 2020 vs. 2019 | 2019 vs. 2018 |
| Net sales | \$ 2,398,043 | \$ 2,430,616 | \$ 2,507,878 | (1.3)% | (3.1)% |
| Operating income | 245,838 | 191,403 | 172,969 | 28.4 | 10.7 |
| Net income | 139,493 | 100,972 | 104,459 | 38.2 | (3.3) |

The following are components of changes in net sales compared to the prior year:

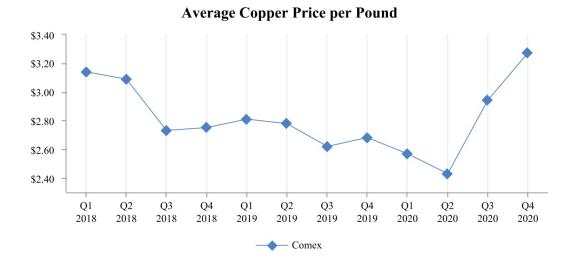
| | 2020 vs. 2019 | 2019 vs. 2018 | |
|---|---------------|---------------|--|
| | 1.60/ | | |
| Net selling price in core product lines | 1.6 % | (3.7)% | |
| Unit sales volume in core product lines | (5.4) | (4.4) | |
| Acquisitions | 2.8 | 4.2 | |
| Other | (0.3) | 0.8 | |
| | | | |
| | (1.3)% | (3.1)% | |

The decrease in net sales in 2020 was primarily due to lower unit sales volume of \$130.9 million in our core product lines, primarily brass rod and copper tube. Lower unit sales volume was due in part to the impacts of the COVID-19 pandemic on demand for our products, particularly in the second quarter of 2020. This decrease was partially offset by (i) sales of \$54.9 million recorded by Kessler, acquired in August 2020, (ii) higher net selling prices of \$38.1 million in our core product lines, primarily copper tube, and (iii) sales of \$12.2 million recorded by Shoals, acquired in January 2020.

The decrease in net sales in 2019 was primarily due to (i) lower unit sales volume of \$110.3 million in our core product lines, primarily brass rod and copper tube, and (ii) lower net selling prices of \$91.7 million in our core product lines. These decreases were partially offset by (i) incremental sales of \$100.1 million recorded by ATCO, acquired in July 2018, (ii) an increase in sales in our non-core product lines of \$22.4 million, and (iii) incremental sales of \$4.0 million of recorded by Die-Mold, acquired in March 2018.



Net selling prices generally fluctuate with changes in raw material costs. Changes in raw material costs are generally passed through to customers by adjustments to selling prices. The following graph shows the Comex average copper price per pound by quarter for the most recent three-year period:



The following tables compare cost of goods sold and operating expenses as dollar amounts and as a percent of net sales for 2020, 2019, and 2018:

| (In thousands) | 2020 | 2019 | 2018 |
|--|-----------------|-----------------|-----------------|
| Cost of goods sold | \$ 1,966,161 | \$ 2,035,610 | \$ 2,150,400 |
| Depreciation and amortization | 44,843 | 42,693 | 39,555 |
| Selling, general, and administrative expense | 159,483 | 162,358 | 148,888 |
| Litigation settlement, net | (22,053) | _ | _ |
| Gain on sale of assets, net | _ | (963) | (253) |
| Impairment charges | 3,771 | _ | _ |
| Insurance recovery | _ | (485) | (3,681) |
| | | | |
| Operating expenses | \$ 2,152,205 | \$ 2,239,213 | \$ 2,334,909 |

| | 2020 | 2019 | 2018 |
|--|--------|--------|--------|
| Cost of goods sold | 82.0 % | 83.7 % | 85.7 % |
| Depreciation and amortization | 1.9 | 1.8 | 1.6 |
| Selling, general, and administrative expense | 6.6 | 6.6 | 5.9 |
| Litigation settlement, net | (0.9) | — | — |
| Gain on sale of assets, net | — | — | |
| Impairment charges | 0.1 | — | — |
| Insurance recovery | — | — | (0.1) |
| | | | |
| Operating expenses | 89.7 % | 92.1 % | 93.1 % |

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The decrease in cost of goods sold in 2020 was primarily due to the decrease in sales volume in our core product lines. This was partially offset by the increase in sales volume resulting from the acquisitions of Kessler and Shoals and an increase in the average cost of copper, our principal raw material. Gross margin as a percentage of sales was 18.0 percent compared with 16.3 percent in the prior year. This improvement was primarily due to an increased mix of sales from higher margin products, lower manufacturing costs, and lower employee healthcare costs. The decrease in cost of goods sold in 2019 was primarily due to the decrease in sales volume in our core product lines and the decrease in the average cost of copper. This was partially offset by the increase in sales volume resulting from the acquisition of ATCO.

Depreciation and amortization increased in 2020 and 2019 as a result of long-lived assets of businesses acquired.

Selling, general, and administrative expenses decreased in 2020 primarily due to (i) expense for contingent consideration arrangements associated with businesses acquired of \$5.7 million recognized in the prior year, (ii) a decrease in travel and entertainment expense of \$3.9 million, (iii) a decrease in employment costs of \$3.0 million, and (iv) a decrease in lease expense of \$1.5 million. These decreases were partially offset by (i) expenses of \$7.4 million associated with Kessler and Shoals, (ii) income of \$2.1 million recognized in the prior year as a result of the reduction of contingent consideration arrangements associated with businesses acquired, (iii) an increase in bad debt expense of \$1.1 million, and (iv) plant consolidation costs of \$0.9 million. The increase in selling, general, and administrative expenses in 2019 was primarily due to (i) expense recognized for contingent consideration arrangements associated with businesses acquired of \$5.7 million, (ii) an increase in selling general, and administrative expenses in 2019 was primarily due to (i) expense recognized for contingent consideration arrangements associated with businesses acquired of \$5.7 million, (ii) an increase in employment costs, including employee healthcare, of \$4.9 million, (iii) incremental expenses of \$4.7 million associated with ATCO and Die-Mold, (iv) a reduction of \$3.5 million in fees received for services provided under certain third-party sales and distribution arrangements, and (v) an increase in product liability costs of \$1.6 million. These increases were partially offset by (i) income of \$2.1 million recognized as a result of the reduction of contingent consideration arrangements associated with businesses acquired, (ii) a decrease in legal and professional fees of \$1.4 million, (iii) higher foreign currency transaction gains of \$1.4 million, (iv) a reduction of \$0.8 million in fees received for services provided under certain equipment transfer and licensing agreements, and (v) a decrease in supplies and utilities

During 2020, we recognized a gain of \$22.1 million for the settlement of our claim under the Deepwater Horizon Economic and Property Damage Settlement Program and asset impairment charges of \$3.8 million related to production equipment that was idled.

During 2019, we recognized a net gain of \$1.0 million on the sale of real property. We also recognized an insurance recovery gain of \$0.5 million related to the losses incurred due to the 2017 fire at our brass rod mill in Port Huron, Michigan.

During 2018, we recognized a gain of \$2.7 million on the sale of real property and a gain of \$0.7 million on the sale of manufacturing equipment, which were offset by a loss of \$3.1 million on the sale of a corporate aircraft. We also recognized an insurance recovery gain of \$3.7 million related to the losses incurred due to the 2017 fire at our brass rod mill in Port Huron, Michigan.

Interest expense decreased in 2020 primarily as a result of lower principal outstanding and reduced interest rates associated with our unsecured \$350.0 million revolving credit facility. The increase in 2019 was primarily as a result of increased borrowing costs associated with our unsecured \$350.0 million revolving credit facility.

Environmental expense for our non-operating properties was higher in 2020 than in 2019 or 2018 primarily as a result of ongoing remediation activities.

During 2020, we recognized a \$17.8 million expense to terminate our U.S. defined benefit pension plan, which consisted of an \$11.6 million non-cash charge and \$6.2 million in federal excise tax on surplus assets returned to the Company.

Other income, net, was higher in 2020 primarily as a result of a curtailment gain related to our benefit plans, and lower in 2019 primarily as a result of lower net periodic benefit income for our benefit plans.

Income tax expense was \$55.3 million in 2020, representing an effective tax rate of 26.4 percent. This rate was higher than what would be computed using the U.S. statutory federal rate primarily due to (i) the provision for state and local income taxes, net of the federal benefit, of \$5.9 million, and (ii) the effect of foreign statutory rates different from the U.S. federal rate of \$2.8 million, and (iii) other adjustments of \$3.0 million. These increases were partially offset by the impact of investments in unconsolidated affiliates of \$0.4 million.

Income tax expense was \$35.3 million in 2019, representing an effective tax rate of 21.2 percent. This rate was higher than what would be computed using the U.S. statutory federal rate primarily due to (i) the provision for state and local income taxes,

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net of the federal benefit, of \$3.2 million, and (ii) the impact of investments in unconsolidated affiliates of \$0.5 million. These increases were partially offset by other adjustments of \$3.3 million.

Income tax expense was \$31.0 million in 2018, representing an effective tax rate of 20.6 percent. This rate was lower than what would be computed using the U.S. statutory federal rate primarily due to (i) a reduction of the calculation of federal tax on the Company's accumulated foreign earnings under the Tax Cuts and Jobs Act of \$4.4 million and (ii) a reduction for the impact of investments in unconsolidated affiliates of \$2.8 million. These reductions were partially offset by (i) the provision for state and local income taxes, net of the federal benefit, of \$3.5 million and (ii) other adjustments of \$3.1 million.

During 2020, we recognized losses of \$10.2 million on our investments in unconsolidated affiliates, net of foreign tax, compared to losses of \$24.6 million in 2019. The loss on these investments for 2020 included net losses of \$10.4 million for Tecumseh and net gains of \$0.2 million for Mueller Middle East. Our Tecumseh investment showed improvement in 2020 due to a pre-tax gain of \$11.6 million from a land sale and the early impacts of ongoing restructuring activities.

During 2019, we recognized losses of \$24.6 million on our investments in unconsolidated affiliates, net of foreign tax, compared to losses of \$12.6 million in 2018. The loss on these investments for 2019 included net losses of \$22.0 million for Tecumseh and net losses of \$2.6 million for Mueller Middle East. Included in the losses for Tecumseh were \$6.4 million of severance and restructuring expenses and a product liability settlement of \$3.4 million. These expenses were offset by a gain on the sale of land of \$1.8 million.

During 2018, we recognized losses of \$12.6 million on our investments in unconsolidated affiliates, net of foreign tax. The loss of these investments included net losses of \$14.0 million and charges of \$3.0 million related to certain labor claim contingencies, offset by a gain of \$7.0 million related to a settlement with the Brazilian Federal Revenue Agency for Tecumseh. It also includes net losses of \$2.6 million for Mueller Middle East.

Piping Systems Segment

The following table compares summary operating results for 2020, 2019, and 2018 for the businesses comprising our Piping Systems segment:

| | | | | Percent C | hange |
|------------------|-----------------|--------------|--------------|---------------|---------------|
| (In thousands) | 2020 | 2019 | 2018 | 2020 vs. 2019 | 2019 vs. 2018 |
| | | | | | |
| Net sales | \$ 1,583,002 | \$ 1,542,456 | \$ 1,645,633 | 2.6 % | (6.3)% |
| Operating income | 165,719 | 131,879 | 122,829 | 25.7 | 7.4 |

The following are components of changes in net sales compared to the prior year:

| | 2020 vs. 2019 | 2019 vs. 2018 |
|---|---------------|---------------|
| Net selling price in core product lines | 2.5 % | (4.4)% |
| Unit sales volume in core product lines | (3.2) | (2.3) |
| Acquisitions | 3.6 | 0.3 |
| Other | (0.3) | 0.1 |
| | | |
| | 2.6 % | (6.3)% |

The increase in net sales in 2020 was primarily attributable to (i) sales of \$54.9 million recorded by Kessler and (ii) higher net selling prices of \$38.1 million in the segment's core product lines, primarily copper tube. These increases were partially offset by lower unit sales volume of \$48.7 million in the segment's core product lines.

The decrease in net sales in 2019 was primarily attributable to (i) lower net selling prices of \$70.6 million in the segment's core product lines, primarily copper tube, and (ii) lower unit sales volume of \$37.3 million in the segment's core product lines. These decreases were partially offset by incremental sales of \$4.0 million recorded by Die-Mold.



The following tables compare cost of goods sold and operating expenses as dollar amounts and as a percent of net sales for 2020, 2019, and 2018:

| (In thousands) | | 2020 | 2019 | 2018 |
|--|----|-----------|--------------|--------------|
| Cost of goods sold | ¢ | 1,311,697 | \$ 1,313,980 | \$ 1,426,729 |
| 5 | Ф | | | , , |
| Depreciation and amortization | | 23,071 | 22,621 | 23,304 |
| Selling, general, and administrative expense | | 78,744 | 75,170 | 74,864 |
| Gain on sale of assets, net | | | (1,194) | (2,093) |
| Impairment charges | | 3,771 | — | — |
| | | | | |
| Operating expenses | \$ | 1,417,283 | \$ 1,410,577 | \$ 1,522,804 |

| | 2020 | 2019 | 2018 |
|--|--------|--------|--------|
| Cost of goods sold | 82.9 % | 85.2 % | 86.7 % |
| Depreciation and amortization | 1.5 | 1.5 | 1.4 |
| Selling, general, and administrative expense | 4.9 | 4.9 | 4.5 |
| Gain on sale of assets, net | | (0.1) | (0.1) |
| Impairment charges | 0.2 | _ | _ |
| | | | |
| Operating expenses | 89.5 % | 91.5 % | 92.5 % |

Gross margin as a percentage of sales was 17.1 percent compared with 14.8 percent in the prior year. This improvement was primarily due to an increased mix of sales from higher margin products, lower manufacturing costs, and lower employee healthcare costs. The decrease in cost of goods sold in 2019 was primarily due to the decrease in the average cost of copper and the decrease in sales volume in the segment's core product lines.

Depreciation and amortization increased in 2020 as a result of long-lived assets of businesses acquired. The decrease in 2019 was a result of several long-lived assets becoming fully depreciated.

Selling, general, and administrative expenses increased for 2020, primarily due to (i) expenses of \$5.5 million associated with Kessler, (ii)ncome of \$2.1 million recognized in the prior year as a result of the reduction of contingent consideration arrangements associated with businesses acquired, and (iii) higher foreign currency transaction losses of \$0.7 million. These increases were partially offset by (i) a reduction in employment costs of \$2.2 million, (ii) a decrease in travel and entertainment expense of \$2.0 million, (iii) a decrease in marketing expenses of \$0.9 million, and (iv) a decrease in supplies and utilities of \$0.6 million. The slight increase in 2019 was primarily due to (i) a reduction of \$3.5 million in fees received for services provided under certain third-party sales and distribution arrangements, (ii) higher employment costs, including employee healthcare, of \$0.9 million, and (iii) incremental expenses associated with Die-Mold of \$0.6 million. These increases were partially offset by (i) a reduction of \$0.6 million. These increases were partially offset by (i) a reduction of \$0.4 million, and (iii) higher create in the employment costs, including employee healthcare, of \$0.9 million, and (iii) incremental expenses associated with Die-Mold of \$0.6 million. These increases were partially offset by (i) income of \$2.1 million recognized as a result of the reduction of contingent consideration arrangements associated with businesses acquired, (ii) higher foreign currency transaction gains of \$1.4 million, and (iii) a decrease in supplies and utilities of \$0.6 million.

During 2020, we recognized asset impairment charges of \$3.8 million related to production equipment that was idled.

During 2019, we recognized a gain of \$1.2 million on the sale of real property.

During 2018, we recognized a gain of \$1.4 million on the sale of real property and a gain of \$0.7 million on the sale of manufacturing equipment.

Industrial Metals Segment

The following table compares summary operating results for 2020, 2019, and 2018 for the businesses comprising our Industrial Metals segment:



| | | | | | _ | Percent C | hange |
|------------------|---------------|----|---------|----|---------|---------------|---------------|
| (In thousands) | 2020 | | 2019 | | 2018 | 2020 vs. 2019 | 2019 vs. 2018 |
| Net sales | \$ 472,159 | \$ | 554,372 | \$ | 651,061 | (14.8)% | (14.9)% |
| Operating income | 54,065 | * | 61,724 | * | 75,607 | (12.4) | (18.4) |

The following are components of changes in net sales compared to the prior year:

| | 2020 vs. 2019 | 2019 vs. 2018 |
|---|---------------|---------------|
| | | |
| Net selling price in core product lines | % | (3.3)% |
| Unit sales volume in core product lines | (15.2) | (11.4) |
| Other | 0.4 | (0.2) |
| | | |
| | (14.8)% | (14.9)% |

The decrease in net sales in 2020 was primarily due to (i) lower unit sales volume of \$82.3 million in the segment's core product lines, primarily brass rod. Lower unit sales volume was due in part to the impacts of the COVID-19 pandemic on demand for our products, particularly in the second quarter of 2020.

The decrease in net sales during 2019 was primarily due to (i) lower unit sales volume of \$73.0 million and (ii) lower net selling prices of \$21.0 million in the segment's core product lines.

The following tables compare cost of goods sold and operating expenses as dollar amounts and as a percent of net sales for 2020, 2019, and 2018:

| (In thousands) | - | 20 | 20 | 2019 | 2018 |
|--|----|----|---------|---------------|---------------|
| Cost of goods sold | \$ | 5 | 398,000 | \$ 473,010 | \$ 559,367 |
| Depreciation and amortization | | | 7,528 | 7,489 | 7,568 |
| Selling, general, and administrative expense | | | 12,566 | 12,359 | 13,501 |
| Loss (gain) on sale of assets, net | | | _ | 275 | (1,301) |
| Insurance recovery | | | _ | (485) | (3,681) |
| | - | | | | |
| Operating expenses | \$ | 5 | 418,094 | \$ 492,648 | \$ 575,454 |

| | 2020 | 2019 | 2018 |
|--|--------|--------|--------|
| Cost of goods sold | 84.3 % | 85.3 % | 85.9 % |
| Depreciation and amortization | 1.6 | 1.4 | 1.2 |
| Selling, general, and administrative expense | 2.6 | 2.3 | 2.1 |
| Loss (gain) on sale of assets, net | — | _ | (0.2) |
| Insurance recovery | — | (0.1) | (0.6) |
| | | | |
| Operating expenses | 88.5 % | 88.9 % | 88.4 % |

The decrease in cost of goods sold in 2020 was primarily due to the decrease in sales volume in the segment's core product lines. The decrease in cost of goods sold in 2019 was primarily related to the decrease in sales volume in the segment's core product lines and the decrease in the average cost of copper.

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|--------------|---|
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| | |

Depreciation and amortization in 2020 was consistent with 2019 and 2018.

Selling, general, and administrative expense in 2020 was consistent with 2019. The decrease in 2019 was primarily due to lower employment costs, including incentive compensation, of \$0.7 million.

During 2019, we recognized a loss of \$0.3 million on the sale of real property and an insurance recovery gain of \$0.5 million related to the losses incurred due to the 2017 fire at our brass rod mill in Port Huron, Michigan.

During 2018, we recognized a gain of \$1.3 million on the sale of real property and an insurance recovery gain of \$3.7 million related to the losses incurred due to the 2017 fire at our brass rod mill in Port Huron, Michigan.

Climate Segment

The following table compares summary operating results for 2020, 2019, and 2018 for the businesses comprising our Climate segment:

| | | | _ | Percent Change | | |
|------------------|---------------|---------------|---------------|----------------|---------------|--|
| (In thousands) | 2020 | 2019 | 2018 | 2020 vs. 2019 | 2019 vs. 2018 | |
| | | | | | | |
| Net sales | \$ 370,131 | \$ 356,216 | \$ 229,069 | 3.9 % | 55.5 % | |
| Operating income | 56,802 | 42,727 | 24,118 | 32.9 | 77.2 | |

Net sales for 2020 increased primarily as a result of sales of \$12.2 million recorded by Shoals. Net sales for 2019 increased primarily as a result of incremental sales of \$100.1 million recorded by ATCO.

The following tables compare cost of goods sold and operating expenses as dollar amounts and as a percent of net sales for 2020, 2019, and 2018:

| (In thousands) | 2020 | 2019 | 2018 | |
|--|------------|------------|------------|--|
| Cost of goods sold | \$ 276,274 | \$ 273,850 | \$ 182,456 | |
| Depreciation and amortization | 10,249 | 9,298 | 5,569 | |
| Selling, general, and administrative expense | 26,806 | 30,385 | 16,926 | |
| Gain on sale of assets, net | _ | (44) | _ | |
| | | | | |
| Operating expenses | \$ 313,329 | \$ 313,489 | \$ 204,951 | |
| | | | | |
| _ | 2020 | 2019 | 2018 | |
| Cost of goods sold | 74.6 % | 76.9 % | 79.7 % | |
| Depreciation and amortization | 2.8 | 2.6 | 2.4 | |
| Selling, general, and administrative expense | 7.3 | 8.5 | 7.4 | |
| Gain on sale of assets, net | _ | _ | _ | |
| — | | | | |
| Operating expenses | 84.7 % | 88.0 % | 89.5 % | |

Cost of goods sold increased in 2020. Gross margin as a percentage of sales was 25.4 percent compared with 23.1 percent in the prior year. This improvement was primarily the result of improved spreads, an increased mix of sales from higher margin businesses, and lower operating costs. The increase in cost of goods sold in 2019 was related to the increase in volume and change in product mix within the segment primarily resulting from the ATCO acquisition. Depreciation and amortization increased in 2020 and 2019 primarily as a result of depreciation and amortization of the long-lived assets acquired at ATCO and Shoals. Selling, general, and administrative expenses decreased in 2020 as a result of expense of \$5.7 million for a contingent

consideration arrangement associated with an acquired business recognized in the prior year. This was partially offset by expenses associated with Shoals of \$1.9 million. Selling, general, and administrative expenses increased in 2019 as a result of (i) expense of \$5.7 million recognized for a contingent consideration arrangement associated with an acquired business, (ii) incremental expenses of \$4.6 million associated with ATCO, (iii) an increase in employment costs of \$1.7 million, (iv) an increase in agent commissions of \$0.5 million, and (v) an increase in supplies, utilities, and rent costs of \$0.4 million.

LIQUIDITY AND CAPITAL RESOURCES

The following table presents selected financial information for 2020, 2019, and 2018:

| (In thousands) | 2020 | 2019 | 2018 |
|---|--------------|-----------|-------------|
| Increase (decrease) in: | | | |
| Cash, cash equivalents, and restricted cash | \$ 29,334 | \$ 20,904 | \$ (49,425) |
| Property, plant, and equipment, net | 13,444 | (7,505) | 66,312 |
| Total debt | (58,378) | (110,444) | 31,626 |
| Working capital, net of cash and current debt | 38,855 | (35,231) | 11,228 |
| | | | |
| Net cash provided by operating activities | 245,073 | 200,544 | 167,892 |
| Net cash used in investing activities | (125,622) | (40,457) | (187,096) |
| Net cash used in financing activities | (92,264) | (139,694) | (28,269) |

Cash Provided by Operating Activities

During 2020, net cash provided by operating activities was primarily attributable to (i) consolidated net income of \$143.6 million, (ii) an increase in current liabilities of \$74.1 million, (iii) depreciation and amortization of \$45.2 million, (iv) a decrease in other assets of \$20.6 million, (v) a non-cash charge related to the termination of the U.S. pension plan of \$11.6 million, (vi) losses from unconsolidated affiliates of \$10.2 million, (vii) stock-based compensation expense of \$8.6 million, and (viii) a decrease in inventories of \$5.2 million. These cash increases were partially offset by an increase in accounts receivable of \$76.4 million.

During 2019, net cash provided by operating activities was primarily attributable to (i) consolidated net income of \$106.2 million, (ii) depreciation and amortization of \$43.0 million, (iii) a decrease in inventories of \$39.6 million, (iv) losses from unconsolidated affiliates of \$24.6 million, (v) stock-based compensation expense of \$8.7 million, and (vi) a decrease in accounts receivable of \$6.6 million. These cash increases were offset by (i) an increase in other assets of \$15.6 million, (ii) a decrease in other liabilities of \$7.9 million, and (iii) a decrease in current liabilities of \$7.1 million. The fluctuations in accounts receivable and inventories were primarily due to decreased selling prices and sales volume in certain businesses and changes in working capital needs in 2019.

During 2018, net cash provided by operating activities was primarily attributable to (i) consolidated net income of \$106.8 million, (ii) depreciation and amortization of \$39.9 million, (iii) a decrease in inventories of \$27.5 million, (iv) a decrease in other assets of \$14.4 million, (v) losses from unconsolidated affiliates of \$12.6 million, and (vi) stockbased compensation expense of \$8.0 million. These cash increases were offset by (i) a decrease in current liabilities of \$15.7 million, (ii) a decrease in other liabilities of \$14.8 million, and (iii) an increase in accounts receivable of \$11.1 million. The decrease in inventories was primarily driven by the use of excess inventory built at the end of 2017 due to a casting outage in our brass rod mill that impaired our ability to melt scrap returns. The fluctuations in accounts receivable and current liabilities are primarily due to increased selling prices and sales volume in certain businesses and additional working capital needs in 2018. The changes in other assets and liabilities are primarily attributable to the change in estimate of the one-time transition tax liability on accumulated foreign earnings under the the Tax Cuts and Jobs Act.

Cash Used in Investing Activities

The major components of net cash used in investing activities in 2020 included (i) the \$72.6 million for the purchases of Kessler and Shoals, net of cash acquired, (ii) capital expenditures of \$43.9 million, and (iii) the issuance of notes receivable of \$9.3 million.



The major components of net cash used in investing activities in 2019 included (i) capital expenditures of \$31.2 million and (ii) investments in our unconsolidated affiliates, Tecumseh and Mueller Middle East, of \$16.0 million. These uses of cash were offset by (i) the \$3.5 million working capital settlement received from the previous owners for the ATCO acquisition and (ii) proceeds on the sale of properties of \$3.2 million.

The major components of net cash used in investing activities in 2018 included (i) \$167.7 million for the purchases of ATCO and Die-Mold, net of cash acquired, and (ii) capital expenditures of \$38.5 million. These uses of cash were offset by proceeds on the sale of properties of \$18.7 million.

Cash Used in Financing Activities

For 2020, net cash used in financing activities consisted primarily of (i) \$245.0 million used to reduce the debt outstanding under our Credit Agreement, (ii) \$22.3 million used for the payment of regular quarterly dividends to stockholders of the Company, (iii) \$7.0 million used for payment of contingent consideration related to ATCO, and (iv) \$5.6 million used to repurchase common stock. These uses of cash were offset by the issuance of debt under our Credit Agreement of \$190.0 million.

For 2019, net cash used in financing activities consisted primarily of (i) \$205.0 million used to reduce the debt outstanding under our Credit Agreement, (ii) \$22.3 million used for the payment of regular quarterly dividends to stockholders of the Company, (iii) \$4.3 million used for repayment of debt by Jungwoo-Mueller, (iv) \$3.2 million used for the payment of contingent consideration related to ATCO, and (v) \$1.8 million used to repurchase common stock. These uses of cash were offset by the issuance of debt under our Credit Agreement of \$100.0 million.

For 2018, net cash used in financing activities consisted primarily of (i) \$165.0 million used to reduce the debt outstanding under our Credit Agreement, (ii) \$33.6 million used to repurchase common stock, (iii) \$22.7 million used for the payment of regular quarterly dividends to stockholders of the Company, and (iv) \$2.9 million used for repayment of debt by Jungwoo-Mueller. These uses of cash were offset by the issuance of debt under our Credit Agreement of \$200.0 million.

Liquidity and Outlook

We believe that cash provided by operations, funds available under the Credit Agreement, and cash on hand will be adequate to meet our liquidity needs, including working capital, capital expenditures, and debt payment obligations. Our current ratio was 2.4 to 1 as of December 26, 2020.

As of December 26, 2020, \$92.8 million of our cash and cash equivalents were held by foreign subsidiaries. The undistributed earnings of most of the foreign subsidiaries are considered to be permanently reinvested. These earnings could be remitted to the U.S. with a minimal tax cost. Accordingly, no additional income tax liability has been accrued with respect to these earnings or on any additional outside basis differences that may exist with respect to these entities.

We believe that cash held domestically, funds available through the Credit Agreement, and cash generated from U.S. based operations will be adequate to meet the future needs of our U.S. based operations.

Fluctuations in the cost of copper and other raw materials affect the Company's liquidity. Changes in material costs directly impact components of working capital, primarily inventories, accounts receivable, and accounts payable. The price of copper has fluctuated significantly and averaged approximately \$2.80 in 2020, \$2.72 in 2019, and \$2.93 in 2018.

We have significant environmental remediation obligations which we expect to pay over future years. Approximately \$1.1 million was spent during 2020 for environmental matters. As of December 26, 2020, we expect to spend \$2.7 million in 2021, \$0.8 million in 2022, \$0.8 million in 2023, \$0.9 million in 2024, \$0.8 million in 2025, and \$18.0 million thereafter for ongoing projects.

Cash used to fund pension and other postretirement benefit obligations was \$0.7 million in 2020 and \$0.8 million in 2019. We anticipate making contributions of approximately \$1.0 million to these plans in 2021.

The Company declared and paid a quarterly cash dividend of 10.0 cents per common share during each quarter of 2018, 2019, and 2020. Payment of dividends in the future is dependent upon our financial condition, cash flows, capital requirements, and other factors.



Capital Expenditures

During 2020 our capital expenditures were \$43.9 millior. We anticipate investing approximately \$30.0 million to \$40.0 million for capital expenditures in2021.

Long-Term Debt

The Company's Credit Agreement provides for an unsecured \$350.0 million revolving credit facility which matures on December 6, 2021. Funds borrowed under the Credit Agreement may be used for working capital purposes and other general corporate purposes. In addition, the Credit Agreement provides a sublimit of \$50.0 million for the issuance of letters of credit, a sublimit of \$25.0 million for loans and letters of credit made in certain foreign currencies, and a swing line loan sublimit of \$15.0 million. Outstanding letters of credit and foreign currency loans reduce borrowing availability under the Credit Agreement. Total borrowings under the Credit Agreement were \$35.0 million at December 26, 2020.

The Debentures distributed as part of our special dividend are subordinated to all other funded debt of the Company and are callable, in whole or in part, at any time at the option of the Company, subject to declining call premiums during the first five years. The Debentures also grant each holder the right to require the Company to repurchase such holder's Debentures in the event of a change in control at declining repurchase premiums during the first five years. Interest is payable semiannually on September 1 and March 1. Total Debentures outstanding as of December 26, 2020 were \$284.5 million.

Jungwoo-Mueller has several secured revolving credit arrangements with a total borrowing capacity of KRW 25.8 billion (or approximately \$23.5 million). Borrowings are secured by the real property and equipment of Jungwoo-Mueller and were bearing interest at a rate of 1.90 percent as of December 26, 2020. Total borrowings at Jungwoo-Mueller were \$5.8 million as of December 26, 2020.

As of December 26, 2020, the Company's total debt was \$327.9 million or 29.0 percent of its total capitalization.

Covenants contained in the Company's financing obligations require, among other things, the maintenance of minimum levels of tangible net worth and the satisfaction of certain minimum financial ratios. As of December 26, 2020, we were in compliance with all of our debt covenants.

Share Repurchase Program

The Company's Board of Directors has extended, until July 2021, its authorization to repurchase up to 20 million shares of the Company's common stock through open market transactions or through privately negotiated transactions. We may cancel, suspend, or extend the time period for the repurchase of shares at any time. Any repurchases will be funded primarily through existing cash and cash from operations. The Company may hold any shares repurchased in treasury or use a portion of the repurchased shares for stock-based compensation plans, as well as for other corporate purposes. From its initial authorization in 1999 through December 26, 2020, the Company had repurchased approximately 6.4 million shares under this authorization.

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CONTRACTUAL CASH OBLIGATIONS

The following table presents payments due by the Company under contractual obligations with minimum firm commitments as of December 26, 2020:

| | | Payments Due by Year | | | | | | | | | | |
|--|---------------|----------------------|-------|----|-----------|----|-----------|----|------------|--|--|--|
| (In millions) | Total | | 2021 | | 2022-2023 | | 2024-2025 | | Thereafter | | | |
| Total debt | \$ 328.1 | \$ | 41.3 | \$ | 0.4 | \$ | 0.4 | \$ | 286.0 | | | |
| Operating and capital leases | 34.7 | | 8.3 | | 12.6 | | 6.4 | | 7.4 | | | |
| Heavy machinery and equipment | 8.6 | | 8.6 | | _ | | _ | | _ | | | |
| Purchase commitments ⁽¹⁾ | 831.5 | | 830.7 | | 0.6 | | 0.2 | | _ | | | |
| Transition tax on accumulated foreign earnings | 1.9 | | _ | | _ | | 1.9 | | _ | | | |
| Interest payments ⁽²⁾ | 107.1 | | 17.6 | | 34.1 | | 34.1 | | 21.3 | | | |
| | | | | | | | | | | | | |
| Total contractual cash obligations | \$ 1,311.9 | \$ | 906.5 | \$ | 47.7 | \$ | 43.0 | \$ | 314.7 | | | |

(1) This includes contractual supply commitments totaling \$724.7 million at year-end prices; these contracts contain variable pricing based on Comex and the London Metals Exchange quoted prices. These commitments are for purchases of raw materials, primarily copper cathode and brass scrap, that are expected to be consumed in the ordinary course of business.

⁽²⁾ These payments represent interest on long-term debt based on balances and rates in effect at December 26, 2020.

The above obligations will be satisfied with existing cash, funds available under the Credit Agreement, and cash generated by operations. The Company has no off-balance sheet financing arrangements.

MARKET RISKS

The Company is exposed to market risks from changes in raw material and energy costs, interest rates, and foreign currency exchange rates. To reduce such risks, we may periodically use financial instruments. Hedging transactions are authorized and executed pursuant to policies and procedures. Further, we do not buy or sell financial instruments for trading purposes. A discussion of the Company's accounting for derivative instruments and hedging activities is included in "Note 1 - Summary of Significant Accounting Policies" in the Notes to Consolidated Financial Statements.

Cost and Availability of Raw Materials and Energy

Raw materials, primarily copper and brass, represent the largest component of the Company's variable costs of production. The cost of these materials is subject to global market fluctuations caused by factors beyond our control. Significant increases in the cost of metal, to the extent not reflected in prices for our finished products, or the lack of availability could materially and adversely affect our business, results of operations and financial condition.

The Company occasionally enters into forward fixed-price arrangements with certain customers. We may utilize futures contracts to hedge risks associated with these forward fixed-price arrangements. We may also utilize futures contracts to manage price risk associated with inventory. Depending on the nature of the hedge, changes in the fair value of the futures contracts will either be offset against the change in fair value of the inventory through earnings or recognized as a component of accumulated other comprehensive income (AOCI) in equity and reflected in earnings upon the sale of inventory. Periodic value fluctuations of the contracts generally offset the value fluctuations of the underlying fixed-price transactions or inventory. At December 26, 2020, we held open futures contracts to purchase approximately \$5.4 million of copper over the next 12 months related to fixed-price sales orders and to sell approximately \$49.4 million of copper over the next five months related to copper inventory.

We may enter into futures contracts or forward fixed-price arrangements with certain vendors to manage price risk associated with natural gas purchases. The effective portion of gains and losses with respect to positions are deferred in equity as a component of AOCI and reflected in earnings upon consumption of natural gas. Periodic value fluctuations of the futures contracts generally offset the value fluctuations of the underlying natural gas prices. There were no open futures contracts to purchase natural gas at December 26, 2020.



Interest Rates

The Company had variable-rate debt outstanding of \$41.1 million at December 26, 2020 and \$97.0 million at December 28, 2019. At this borrowing level, a hypothetical 10 percent increase in interest rates would have had an insignificant unfavorable impact on our pre-tax earnings and cash flows. The primary interest rate exposure on variable-rate debt is based on LIBOR.

Foreign Currency Exchange Rates

Foreign currency exposures arising from transactions include firm commitments and anticipated transactions denominated in a currency other than an entity's functional currency. The Company and its subsidiaries generally enter into transactions denominated in their respective functional currencies. We may utilize certain futures or forward contracts with financial institutions to hedge foreign currency transactional exposures. Gains and losses with respect to these positions are deferred in equity as a component of AOCI and reflected in earnings upon collection of receivables or payment of commitments. At December 26, 2020, we had open forward contracts with a financial institution to sell approximately 22.7 million Swedish kronor and 10.0 million Norwegian kroner through April 2021.

The Company's primary foreign currency exposure arises from foreign-denominated revenues and profits and their translation into U.S. dollars. The primary currencies to which we are exposed include the Canadian dollar, the British pound sterling, the Mexican peso, and the South Korean won. The Company generally views its investments in foreign subsidiaries with a functional currency other than the U.S. dollar as long-term. As a result, we generally do not hedge these net investments. The net investment in foreign subsidiaries translated into U.S. dollars using the year-end exchange rates was \$406.5 million at December 26, 2020 and \$397.1 million at December 28, 2019. The potential loss in value of the Company's net investment in foreign subsidiaries resulting from a hypothetical 10 percent adverse change in quoted foreign currency exchange rates at December 26, 2020 and December 28, 2019 amounted to \$40.7 million and \$39.7 million, respectively. This change would be reflected in the foreign currency translation component of AOCI in the equity section of our Consolidated Balance Sheets until the foreign subsidiaries are sold or otherwise disposed.

We have significant investments in foreign operations whose functional currency is the British pound sterling, the Mexican peso, the Canadian dollar, and the South Korean won. During 2020, the value of the British pound increased approximately four percent, the Mexican peso decreased approximately five percent, the Canadian dollar increased approximately two percent, and the South Korean won increased approximately five percent, relative to the U.S. dollar. The resulting net foreign currency translation gains were included in calculating net other comprehensive loss for the year ended December 26, 2020 and were recorded as a component of AOCI.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

The Company's accounting policies are more fully described in "<u>Note 1 - Summary of Significant Accounting Policies</u>" in the Notes to Consolidated Financial Statements. As disclosed in Note 1, the preparation of financial statements in conformity with general accepted accounting principles in the United States requires management to make estimates and assumptions about future events that affect amounts reported in the financial statements and accompanying notes. Actual results could differ significantly from those estimates. Management believes the following discussion addresses our most critical accounting policies, which are those that are most important to the portrayal of the Company's financial condition and results of operations and require management's most difficult, subjective, and complex judgments.

Inventory Valuation Reserves

Our inventories are valued at the lower-of-cost-or-market. The market price of copper cathode and scrap are subject to volatility. During periods when open market prices decline below net realizable value, the Company may need to provide an allowance to reduce the carrying value of its inventory. In addition, certain items in inventory may be considered excess or obsolete and, as such, we may establish an allowance to reduce the carrying value of those items to their net realizable value. Changes in these estimates related to the value of inventory, if any, may result in a materially adverse impact on our reported financial position or results of operations. The Company recognizes the impact of any changes in estimates, assumptions, and judgments in income in the period in which they are determined.

As of December 26, 2020 and December 28, 2019, our inventory valuation reserves were \$7.1 million and \$6.3 million, respectively. The expense recognized in each of these periods was immaterial to our Consolidated Financial Statements.



Impairment of Goodwill

As of December 26, 2020, we had \$167.8 million of recorded goodwill from our business acquisitions, representing the excess of the purchase price over the fair value of the net assets we have acquired. During 2020 we recorded \$13.7 million in additional goodwill associated with our Kessler and Shoals acquisitions.

Goodwill is subject to impairment testing, which is performed annually as of the first day of the fourth quarter unless circumstances indicate the need to accelerate the timing of the tests. These circumstances include a significant change in the business climate, operating performance indicators, competition, or sale or disposition of a significant portion of one of our businesses. In our evaluation of goodwill impairment, we perform a qualitative assessment at the reporting unit level that requires management judgment and the use of estimates to determine if it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative assessment is not conclusive, management compares the fair value of a reporting unit with its carrying amount and will recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value, not to exceed the total amount of goodwill allocated to the reporting unit.

We identify reporting units by evaluating components of our operating segments and combining those components with similar economic characteristics. Reporting units with significant recorded goodwill include Domestic Piping Systems, B&K LLC, Great Lakes, Heatlink Group, Die-Mold, European Operations, Jungwoo-Mueller, Westermeyer, Turbotec, ATCO, and Shoals.

The fair value of each reporting unit is estimated using a combination of the income and market approaches, incorporating market participant considerations and management's assumptions on revenue growth rates, operating margins, discount rates and expected capital expenditures. Estimates used by management can significantly affect the outcome of the impairment test. Changes in forecasted operating results and other assumptions could materially affect these estimates.

We evaluated each reporting unit during the fourth quarters of 2020 and 2019, as applicable. The estimated fair value of each of these reporting units exceeded its carrying values in 2020 and 2019, and we do not believe that any of these reporting units were at risk of impairment as of December 26, 2020.

Pension and Other Postretirement Benefit Plans

We sponsor several qualified and nonqualified pension and other postretirement benefit plans in the U.S. and certain foreign locations. We recognize the overfunded or underfunded status of the plans as an asset or liability in the Consolidated Balance Sheets with changes in the funded status recorded through comprehensive income in the year in which those changes occur. The obligations for these plans are actuarially determined and affected by assumptions, including discount rates, expected long-term return on plan assets for defined benefit pension plans, and certain employee-related factors, such as retirement age and mortality. We evaluate the assumptions periodically and makes adjustments as necessary.

The expected return on plan assets is determined using the market value of plan assets. Differences between assumed and actual returns are amortized to the market value of assets on a straight-line basis over the average remaining service period of the plan participants using the corridor approach. The corridor approach defers all actuarial gains and losses resulting from variances between actual results and actuarial assumptions. These unrecognized gains and losses are amortized when the net gains and losses exceed 10 percent of the greater of the market value of the plan assets or the projected benefit obligation. The amount in excess of the corridor is amortized over the average remaining service period for the pension plans was 11.5 years.

Environmental Reserves

We recognize an environmental reserve when it is probable that a loss is likely to occur and the amount of the loss is reasonably estimable. We estimate the duration and extent of our remediation obligations based upon reports of outside consultants, internal and third party estimates and analyses of cleanup costs and ongoing monitoring costs, communications with regulatory agencies, and changes in environmental law. If we were to determine that our estimates of the duration or extent of our environmental obligations were no longer accurate, we would adjust our environmental reserve accordingly in the period that such determination is made. Estimated future expenditures for environmental remediation are not discounted to their present value.

Environmental expenses that relate to ongoing operations are included as a component of cost of goods sold. Environmental expenses related to non-operating properties are presented below operating income in the Consolidated Statements of Income.



Income Taxes

We estimate total income tax expense based on domestic and international statutory income tax rates in the tax jurisdictions where we operate, permanent differences between financial reporting and tax reporting, and available credits and incentives.

Deferred income tax assets and liabilities are recognized for the future tax effects of temporary differences between the treatment of certain items for financial statement and tax purposes using tax rates in effect for the years in which the differences are expected to reverse. Realization of certain components of deferred tax assets is dependent upon the occurrence of future events.

Valuation allowances are recorded when, in the opinion of management, it is more likely than not that all or a portion of the deferred tax assets will not be realized. These valuation allowances can be impacted by changes in tax laws, changes to statutory tax rates, and future taxable income levels, and are based on our judgment, estimates, and assumptions. In the event we were to determine that we would not be able to realize all or a portion of the net deferred tax assets in the future, we would increase the valuation allowance through a charge to income tax expense in the period that such determination is made. Conversely, if we were to determine that we would be able to realize our deferred tax assets in the future, in excess of the net carrying amounts, we would decrease the recorded valuation allowance through a decrease to income tax expense in the period that such determination is made.

We record liabilities for known or anticipated tax issues based on our analysis of whether, and the extent to which, additional taxes will be due. These unrecognized tax benefits are retained until the associated uncertainty is resolved. Tax benefits for uncertaint tax positions that are recognized in the Consolidated Financial Statements are measured as the largest amount of benefit, determined on a cumulative probability basis, that is more likely than not to be realized upon ultimate settlement. To the extent we prevail in matters for which a liability for an uncertain tax position is established or are required to pay amounts in excess of the liability, our effective tax rate in a given period may be materially affected.

New Accounting Pronouncements

See "Note 1 – Summary of Significant Accounting Policies" in our Consolidated Financial Statements.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This Annual Report contains various forward-looking statements and includes assumptions concerning the Company's operations, future results, and prospects. These forward-looking statements are based on current expectations and are subject to risk and uncertainties, and may be influenced by factors that could cause actual outcomes and results to be materially different from those predicted. The forward-looking statements reflect knowledge and information available as of the date of preparation of the Annual Report, and the Company undertakes no obligation to update these forward-looking statements. We identify the forward-looking statements by using the words "anticipates," "believes," "expects," "intends" or similar expressions in such statements.

In connection with the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, the Company provides the following cautionary statement identifying important economic, political, and technological factors, among others, which could cause actual results or events to differ materially from those set forth in or implied by the forward-looking statements and related assumptions. In addition to those factors discussed under "Risk Factors" in this Annual Report on Form 10-K, such factors include: (i) the current and projected future business environment, including interest rates and capital and consumer spending; (ii) the domestic housing and commercial construction industry environment; (iii) availability and price fluctuations in commodities (including copper, natural gas, and other raw materials, including taxes; (vi) availability of financing; and (vii) continuation of the environment to make acquisitions, domestic and foreign, including regulatory requirements and market values of candidates.



MUELLER INDUSTRIES, INC. CONSOLIDATED STATEMENTS OF INCOME Years Ended December 26, 2020, December 28, 2019, and December 29, 2018

| (In thousands, except per share data) | 20 |)20 | 2019 | 2018 | |
|---|-----------|-----------|--------------|----------|---------|
| Net sales | \$ | 2,398,043 | \$ 2,430,616 | \$ 2,507 | 7,878 |
| Cost of goods sold | | 1,966,161 | 2,035,610 | 2.15 | 0,400 |
| Depreciation and amortization | | 44,843 | 42,693 | , | 9,555 |
| Selling, general, and administrative expense | | 159,483 | 162,358 | | 8,888 |
| Litigation settlement, net | | (22,053) | | | |
| Gain on sale of assets, net | | (,) | (963) | | (253) |
| Impairment charges | | 3,771 | | | |
| Insurance recovery | | | (485) | (3 | (3,681) |
| Operating income | | 245,838 | 191,403 | 172 | 2,969 |
| Interest expense | | (19,247) | (25,683) | (25 | 5,199) |
| Environmental expense | | (4,454) | (1,321) | (1 | (1,320) |
| Pension plan termination expense | | (17,835) | — | | — |
| Other income, net | | 4,887 | 1,684 | | 3,967 |
| Income before income taxes | | 209,189 | 166,083 | 150 | 0,417 |
| Income tax expense | | (55,321) | (35,257) | (30 | 0,952) |
| Loss from unconsolidated affiliates, net of foreign tax | | (10,219) | (24,594) | (12 | 2,645) |
| Consolidated net income | | 143,649 | 106,232 | 100 | 6,820 |
| Net income attributable to noncontrolling interests | | (4,156) | (5,260) | (2 | 2,361) |
| Net income attributable to Mueller Industries, Inc. | \$ | 139,493 | \$ 100,972 | \$ 104 | 4,459 |
| Weighted average shares for basic earnings per share | | 55,821 | 55,798 | 50 | 6,782 |
| Effect of dilutive stock-based awards | | 569 | 545 | | 487 |
| Adjusted weighted average shares for diluted earnings per share | | 56,390 | 56,343 | 57 | 7,269 |
| Basic earnings per share | <u>\$</u> | 2.50 | \$ 1.81 | \$ | 1.84 |
| Diluted earnings per share | <u>\$</u> | 2.47 | \$ 1.79 | \$ | 1.82 |
| Dividends per share | <u>\$</u> | 0.40 | \$ 0.40 | \$ | 0.40 |

See accompanying notes to consolidated financial statements.

MUELLER INDUSTRIES, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME Years Ended December 26, 2020, December 28, 2019, and December 29, 2018

| (In thousands) | | 2020 | | 2019 | | 2018 |
|---|----|---------|----------|---------|----------|----------|
| Consolidated net income | \$ | 143,649 | \$ | 106,232 | \$ | 106,820 |
| Other comprehensive income (loss), net of tax: | | | | | | |
| Foreign currency translation | | 10,350 | | 7,409 | | (16,876) |
| Net change with respect to derivative instruments and hedging activities, net of tax of \$(146), \$(195), and \$318 | | 508 | | 690 | | (1,173) |
| Net change in pension and postretirement obligation adjustments, net of tax of $(1,560)$, (671) , and 670 | | 4,652 | | 3,112 | | (3,339) |
| Attributable to unconsolidated affiliates, net of tax of \$38, \$244, and \$2,522 | | (132) | | (839) | | (8,686) |
| | | 15.250 | | 10.252 | | |
| Total other comprehensive income (loss), net | | 15,378 | | 10,372 | | (30,074) |
| Consolidated comprehensive income | | 159,027 | | 116,604 | | 76,746 |
| Comprehensive income attributable to noncontrolling interests | | (5,647) | | (4,610) | | (1,579) |
| | ¢ | 152 200 | <i>•</i> | 111.004 | <i>•</i> | 75.167 |
| Comprehensive income attributable to Mueller Industries, Inc. | \$ | 153,380 | \$ | 111,994 | \$ | 75,167 |

See accompanying notes to consolidated financial statements.

MUELLER INDUSTRIES, INC. CONSOLIDATED BALANCE SHEETS As of December 26, 2020 and December 28, 2019

| Asses S 119.075 S 979.44 Control assets 357.352 269.433 315.002 269.433 Internationation 357.352 269.433 315.002 269.103 Other current assets 337.752 357.778 706 269.107 269.107 Property, plant, and equipment, net 37.65.772 363.128 300.02 269.207 Property, plant, and equipment, net 37.67.772 363.128 300.02 269.207 Goodwill, net 167.76.772 363.128 300.02 269.200 More concerned sasts 110.77.76 160.082 300.02 269.200 More concerned sasts 11.37.76 45.530 2.539 7.530 1.63.28 2.539 Total carset isabilities: Current babilities: 1.1.370.940 | (In thousands, except share data) | | 2020 | | 2019 |
|--|---|----|-----------|----|---|
| Calitand cash equivalents \$ 119.075 \$ 97.944 Accounts receivable, less allowance for doubful accounts of \$1,538 in 2020 and \$770 in 2019 337.532 269.443 Inscentories 337.532 33.778 Other current assets 825.361 699.772 Poperty, plant, and equipment, net 376.572 361.128 Operating less right-of-tase assets 23.201 26.202 GodWill, net 167.764 153.276 Intragelie assets, net 77.077 60.082 Unvertinent in unconsolidated affiliates 37.976 48.363 Other courrent assets 1.4.387 25.307 Total current assets 1.3.285.68 5 1.3.0.940 Libbilities 1.4.387 25.307 5 5.3.0.940 Libbilities 1.4.387 25.307 5 5.3.0.940 Current priorio of dobt \$ 1.4.283 7.5.30 Accoreal wages and other employee costs 4.4.292 9.3.230 7.5.29 7.5.20 Current priorio of opeta rule solutionities 1.4.281 5.1.3.28 9.1.201 | Assets | | | | |
| Accounts receivable, less allowance for doubtful accounts of \$1,538 in 2020 and \$770 in 2019 357,532 289-943 Inventories 315,002 292,107 Other current assets \$35,752 33,778 Total current assets \$25,561 693,772 Poperty, plant, and equipment, net 376,572 364,128 Operating less right-of-sue assets 29,301 262,927 Goodwill, net 1167,764 1153,276 Intragible assets, net 77,207 60,852 Investment in unconsolidated affiliates 37,776 48,363 Other concurrent assets 21,528,568 \$ 1,370,040 Linbilities 2 14,283 \$ 7,530 Current portion of deht \$ 41,283 \$ 7,530 Accounds payable 46,299 41,673 Current portion of operating less right and the employee costs 46,299 44,673 Current portion of operating less right and the employee costs 46,299 44,673 Current portion of operating less right and the employee costs 13,552 9,164 Current inabilities 339,643 224,287 | | ¢ | 110.075 | ¢ | 07 044 |
| Inventries 315,002 292,107 Other current assets 33,752 33,778 Total current assets 282,561 693,772 Poperty, plant, and equipment, net 376,572 363,128 Operating lease right-of-use assets 29,301 26,222 Intragible assets, net 161,77,44 153,276 Intragible assets, net 77,207 60,082 Unevention if nuccosolidated affiliates 37,976 48,363 Other concosolidated affiliates 37,976 48,363 Other concosolidated affiliates 31,979,90 44,263 Current protion of debt \$ 41,283 \$ Current protion of debt \$ 41,283 \$ 7,530 Accourds payable \$ 41,283 \$ 7,530 Current protion of debt \$ 42,287 | | φ | , | φ | , |
| Other current assets 33,722 33,778 Total current assets 882,5,61 693,772 Property, plant, and equipment, net 376,572 303,128 Departing lease rightsof-sure assets 20,301 26,592 GoodWill, net 1167,764 153,276 Imagible assets, net 77,207 60,002 Investment in unconsolidated affiliates 37,976 48,563 Other noncurrent assets 113,779 60,002 Current protion of debt S 1,528,568 S 1,370,940 Liabilities Current protion of debt S 41,383 S 7,530 Current protion of debt S 41,283 S 7,530 Accounts payable 46,229 41,673 204,1283 S 7,530 Current protion of opening lease liabilities 6,259 5,250 98,061 94,190 98,061 94,190 Total current liabilities 13,552 9,126 9,126 98,061 94,190 Total current liabilities 13,328 113,522 | | | | | |
| Property, plant, and equipment, net 376,572 363,128 Operating lease right-of-use assets 93,01 26,522 Intangible assets, net 167,764 153,276 Intangible assets, net 77,207 60,008 Uvestment in unconsolidated affiliates 379,976 44,387 25,397 Total Assets S 1,528,568 \$ 1,370,940 Labilities Current liabilities: - - Current load on of operating lease liabilities 6,259 5,2390 Other current liabilities: - - - Current liabilities: - - - Current liabilities 6,259 5,230 - Current liabilities - - - Indicarrent liabilities - - - | | | , | | · · · · · · |
| Operating lease right-of-use assets 29.301 26.922 Intragible assets, net 167.764 153.276 Intragible assets, net 77.207 60.082 Investment in unconsolidated affiliates 37.976 48.353 Other noncurrent assets 14.387 25.397 Total Assets S 1.528.568 S 1.370.940 Lishiltice Current portion of debt S 41.283 7.530 Corrent portion of debt S 41.283 \$ 7.530 Accreate wages and other employee costs 46.299 41.673 Current portion of debt 6.259 5.250 Current portion of operating lease liabilities 6.259 5.250 3.98,643 224.287 Long-term debt, less current portion 286.593 3.78,724 19.972 Destretirement braibilities 13.522 9.126 19.972 Environmental reserves 21.266 19.972 10.313 Total current liabilities 727.508 708.804 10.842 22.1041 Noncurrent porting lease liabilities | Total current assets | | 825,361 | | 693,772 |
| Operating lease right-of-use assets 29.301 26.922 Intragible assets, net 167.764 153.276 Intragible assets, net 77.207 60.082 Investment in unconsolidated affiliates 37.976 48.353 Other noncurrent assets 14.387 25.397 Total Assets S 1.528.568 S 1.370.940 Lishiltice Current portion of debt S 41.283 7.530 Corrent portion of debt S 41.283 \$ 7.530 Accreate wages and other employee costs 46.299 41.673 Current portion of debt 6.259 5.250 Current portion of operating lease liabilities 6.259 5.250 3.98,643 224.287 Long-term debt, less current portion 286.593 3.78,724 19.972 Destretirement braibilities 13.522 9.126 19.972 Environmental reserves 21.266 19.972 10.313 Total current liabilities 727.508 708.804 10.842 22.1041 Noncurrent porting lease liabilities | Property plant and equipment net | | 376 572 | | 363 128 |
| Coole of the sasets, net 167,764 153,276 Intangible assets, net 77,207 660,082 Investment in unconsolidated affiliates 37,976 48,353 Other noncurrent assets 14,387 25,397 Total Assets 5 1,528,568 \$ 1,370,940 Liabilities Current liabilities: | | | | | |
| Intangible assets, net 77,207 60,082 Investment in unconsolidated affiliates 37,976 64,363 Other noncurrent assets 14,387 25,397 Total Assets \$ 1,528,568 \$ 1,370,940 Liabilities Current liabilities: * * * 7,530 Current portion of debt \$ 41,283 \$ 7,530 Accrued wages and other employee costs 46,299 41,673 * 7,530 Accrued wages and other employee costs 6,259 5,250 5,250 5,250 Other current liabilities 98,061 94,107 24,287 20,396,43 234,287 Long-term debt, less current portion 286,593 378,724 13,552 9,126 Posterietterent breaffs other than pensions 13,525 9,126 12,895 12,898 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 13,828 12,256 19,972 26,6 | | | | | |
| Investment in unconsolidated affiliates 37,976 48,363 Other noncurrent assets 14,387 25,397 Total Assets \$ 1,528,568 \$ 1,370,940 Labilitie Current liabilities: \$ 41,283 \$ 7,530 Current portion of debt \$ 41,283 \$ 7,530 Accounts payable 147,741 85,644 Accounts payable 46,299 41,673 Current liabilities 6,259 5,250 Other current liabilities 6,259 5,250 Other current liabilities 6,259 378,724 Persion liabilities 286,593 378,724 Posterimemet benefits other than pensions 13,289 13,882 Environmental reserves 21,256 19,972 Deferred income taxes 16,842 21,094 Noncurrent reserves 21,602 22,388 Other nouvernet liabilities 24,073 10,131 Total liabilities 29,002 22,880 Other nouvernet liabilities 21,002 22,388 Other ouvernet liabilities | | | | | |
| Other noncurrent assets 14,387 25,397 Total Assets \$ 1,528,568 \$ 1,370,940 Liabilities Current liabilities * Current portion of debt \$ 41,283 \$ 7,530 Accoudy ages and other employee costs 46,299 41,673 Current portion of operating lease liabilities 6,259 5,250 Other current liabilities 6,259 5,250 Other current liabilities 339,643 234,287 Long-term debt, less current portion 286,593 378,724 Pension liabilities 13,552 9,126 Postretiment benefits other than pensions 13,289 13,082 Environmental reserves 21,256 19,972 Deferred income taxes 16,842 21,094 Other noncurrent liabilities 727,508 708,804 Furitormental inserves 21,050 928,061 Doncurrent operating lease liabilities 727,508 708,804 Current liabilities 727,508 708,804 Puter berneweet benefts other than pensions 11,0131 10,131 < | | | , | | |
| LiabilitiesVCurrent liabilities:\$ 41,283 \$ 7,530Carrent portion of debt\$ 41,77,41Accounts payable147,741Accounts payable6,259Current liabilities6,259Other current liabilities98,06194,19094,190Total current liabilities339,643234,287234,287Long-term debt, less current portion286,59397,53013,5529,12690Postretirement benefits other than pensions13,5529,12690Postretirement benefits other than pensions13,2529,12690Postretirement benefits other than pensions13,2529,12690Postretirement benefits other than pensions13,2529,12691,262Postretirement benefits other than pensions13,2529,12691,226Postretirement backs21,60222,38800Other concurrent liabilities21,60292,388147,73110,131Total liabilities70 at liabilities21,60292,388147,73193,080421,60294,92,461201094,92,461201095,949,24612010,900,000; none outstanding97,987,432 in 2020 and 56,949,2461360,9197,8694,80398,183,004; outstanding 57,087,432 in 2020 and 56,949,2461280,05197,86941,91298,1061218,60899,10940,9 | | | | | |
| Current liabilities: S 41,283 S 7,530 Accounts payable 147,741 85,644 46,299 41,673 Current portion of operating lease liabilities 6,259 5,250 00ther current liabilities 98,061 94,190 Total current liabilities 939,643 224,287 234,287 Long-term debt, less current portion 286,593 378,724 Pension liabilities 13,552 9,126 Postretirement benefits other than pensions 13,552 9,126 Postretirement benefits other than pensions 13,289 13,082 Environmental reserves 21,256 19,972 Deferred income taxes 21,602 223,388 Other noncurrent liabilities 21,1602 22,388 Other noncurrent liabilities 21,256 19,972 Moncurrent operating lease liabilities 21,256 19,972 View noncurrent operating lease liabilities 21,256 19,972 Mueller Industries, Inc. stockholders' equity: 727,508 708,804 Preferrent dotex - \$1.00 par value; shares authorized 100,000,000; | Total Assets | \$ | 1,528,568 | \$ | 1,370,940 |
| Current liabilities: S 41,283 S 7,530 Accounts payable 147,741 85,644 46,299 41,673 Current portion of operating lease liabilities 6,259 5,250 00ther current liabilities 98,061 94,190 Total current liabilities 939,643 224,287 234,287 Long-term debt, less current portion 286,593 378,724 Pension liabilities 13,552 9,126 Postretirement benefits other than pensions 13,552 9,126 Postretirement benefits other than pensions 13,289 13,082 Environmental reserves 21,256 19,972 Deferred income taxes 21,602 223,388 Other noncurrent liabilities 21,1602 22,388 Other noncurrent liabilities 21,256 19,972 Moncurrent operating lease liabilities 21,256 19,972 View noncurrent operating lease liabilities 21,256 19,972 Mueller Industries, Inc. stockholders' equity: 727,508 708,804 Preferrent dotex - \$1.00 par value; shares authorized 100,000,000; | Liabilities | | | | |
| S 41,283 S 7,530 Accounts payable 147,741 85,644 Accounts gags and other employee costs 46,299 41,673 Current portion of operating lease liabilities 6,259 5,250 Other current liabilities 98,061 94,190 Total current liabilities 339,643 224,287 Long-term debt, less current portion 286,593 378,724 Pension liabilities 13,252 9,125 Postretirement benefits other than pensions 13,289 13,082 Environmental reserves 21,256 19,972 Deferred income taxes 16,842 21,004 Noncurrent operating lease liabilities 14,731 10,131 Total liabilities 727,508 708,804 Equity 144,731 10,131 10,131 Total liabilities 72,708 708,804 Soly49,246 in 2019 802 802 Additional paid-in capital 280,051 278,609 Realized carnings 1,019,604 903,070 Additiotal pai | | | | | |
| Accounts payable 147,741 85,644 Accounts payable 46,299 41,673 Current torino of operating lease liabilities 6,259 5,530 Other current liabilities 98,061 94,190 Total current potion 98,061 94,190 Total current liabilities 339,643 234,287 Long-term debt, less current portion 286,593 378,724 Pension liabilities 13,552 9,126 Dostretirement benefits other than pensions 13,589 13,082 Environmental reserves 21,256 19,972 Deferred income taxes 21,602 22,388 Other noncurrent liabilities 21,602 22,388 Other noncurrent liabilities 727,508 708,804 Equity 144,731 10,131 Total liabilities 727,508 708,804 Equity 980,61 290,051 278,609 Additional paid-in capital 280,051 278,609 Retained earnings 1,019,094 903,070 Accountal ot other comprehensive loss (54,883) (68,770) Treasury common stoc | | \$ | 41 283 | \$ | 7 530 |
| Accrued wages and other employee costs46.29941.673Current portion of operating lease liabilities6.2595.250Other current liabilities98.06194.190Total current liabilities339.643234.287Long-term debt, less current portion286.593378,724Pension liabilities13,5529,126Postreitrement benefits other than pensions13,28913,082Environmental reserves21,25619,972Deferred income taxes16,84221,094Noncurrent operating lease liabilities21,60222,388Other noncurrent liabilities727,508708,804Equity14,73110,13110,131Total liabilitiesCommon stock - \$01 par value; shares authorized 5,000,000; none outstandingCommon stock - \$01 par value; shares authorized 5,000,000; none outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609802Retained earnings1,019,694903,070Accumulat other comprehensive loss(54,883)(68,770)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity24,31518,668Total equity801,060662,136Commitments and contingencies | | Ψ | , | Ψ | · · · · · · |
| Current portion of operating lease liabilities $6,259$ $5,250$ Other current liabilities $98,061$ $94,190$ Total current liabilities $339,643$ $234,287$ Long-term debt, less current portion $286,593$ $378,724$ Pension liabilities $13,552$ $9,126$ Postretirement benefits other than pensions $13,289$ $13,082$ Environmental reserves $21,256$ $19,972$ Deferred income taxes $16,842$ $21,094$ Noncurrent operating lease liabilities $21,602$ $22,388$ Other noncurrent liabilities $21,602$ $22,388$ Other noncurrent liabilities $727,508$ $708,804$ Equity $727,508$ $708,804$ Mueller Industries, Inc. stockholders' equity: $ -$ Preferred stock - \$1.00 par value; shares authorized 50,000,000; none outstanding $ -$ Common stock - \$01 par value; shares authorized 50,000,000; sisued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019 802 Additional paid-in capital $280,051$ $278,609$ Retained earnings $10,19,694$ $903,070$ Accumulated other comprehensive loss $(45,483)$ $(68,770)$ Treasury common stock, at cost $(468,919)$ $(470,243)$ Total lubility intrests $776,745$ $643,468$ Noncontrolling intrests $24,315$ $18,668$ Total equity $801,060$ $662,136$ Commitments and contingencies $ -$ | | | | | |
| Other current liabilities98,06194,190Total current liabilities339,643234,287Long-term debt, less current portion286,593378,724Pension liabilities13,5529,126Postretirement benefits other than pensions13,28913,082Environmental reserves21,25619,972Deferred income taxes16,84221,094Noncurrent liabilities14,73110,131Total liabilities727,508708,804EquityMueller Industries, Inc. stockholders' equity:-Preferred stock - \$01 par value; shares authorized 5,000,000; none outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Retained earnings10,19,694903,070Accumulated other comprehensive loss(54,883)(68,770)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total Acuity801,060662,136Common stock, at cost24,31518,668Total equity | ÷ | | , | | |
| Total current liabilities339,643234,287Long-term debt, less current portion286,593378,724Pension liabilities13,5529,126Postretirement benefits other than pensions13,28913,082Environmental reserves21,25619,972Deferred income taxes16,84221,094Noncurrent operating lease liabilities21,60222,388Other noncurrent liabilities114,73110,131Total liabilities727,508708,804EquityMueller Industries, Inc. stockholders' equity:Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstandingCommon stock - \$010 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Total Mueller Industries, Inc. stockholders' equity(470,243)Total Mueller Industries, Inc. stockholders' equity10,19,694903,070(488,919)(470,243)Total Hueller Industries, Inc. stockholders' equity776,745643,46824,31518,668Total equity801,060662,136Common stock, at cost | | | | | |
| Long-term debt, less current portion286,593378,724Pension liabilities13,5529,126Postretirement benefits other than pensions13,28913,082Environmental reserves21,25619,972Deferred income taxes16,84221,094Noncurrent operating lease liabilities21,60222,388Other noncurrent liabilities21,60222,388Other noncurrent liabilities727,508708,804Equity710708,804Mueller Industries, Inc. stockholders' equity:Preferred stock - \$1.01 par value; shares authorized 5,000,000; insued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609802802Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(24,315)18,668Noncontrolling interests24,31518,668Total lueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Common stock, at cost24,31518,668Control equity801,060662,136 | | | <u> </u> | | <u>, </u> |
| Pension liabilities $13,552$ $9,126$ Postretirement benefits other than pensions $13,289$ $13,082$ Environmental reserves $21,256$ $19,972$ Deferred income taxes $16,842$ $21,094$ Noncurrent operating lease liabilities $21,602$ $22,388$ Other noncurrent liabilities $14,731$ $10,131$ Total liabilities $727,508$ $708,804$ Equity $727,508$ $708,804$ Mueller Industries, Inc. stockholders' equity: $ -$ Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding $ -$ Common stock - \$01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019 802 802 Additional paid-in capital $280,051$ $278,609$ $278,609$ Retained carnings $1,019,694$ $903,070$ Accumulated other comprehensive loss $(54,883)$ $(68,770)$ Total Mueller Industries, Inc. stockholders' equity $776,745$ $643,468$ Noncontrolling interests $24,315$ $18,668$ Total equity $801,060$ $662,136$ Commitments and contingencies $ -$ | Total current liabilities | | 339,643 | | 234,287 |
| Postretirement benefits other than pensions 13,289 13,082 Environmental reserves 21,256 19,972 Deferred income taxes 16,842 21,094 Noncurrent operating lease liabilities 21,602 22,388 Other noncurrent liabilities 21,7508 708,804 Equity 14,731 10,131 Total liabilities 727,508 708,804 Equity Mueller Industries, Inc. stockholders' equity: - - Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding - - Common stock - \$01 par value; shares authorized 5,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,245 (in 2019 802 802 Additional paid-in capital 280,051 278,609 802 Retained earnings 1,019,694 903,070 4(468,919) (470,233) Total Mueller Industries, Inc. stockholders' equity 776,745 643,468 643,468 Noncourtolling interests 24,315 18,668 143,468 Total quuly 801,060 662,136 - Commitments and contingencies | Long-term debt, less current portion | | 286,593 | | 378,724 |
| Environmental reserves21,25619,972Deferred income taxes16,84221,004Noncurrent operating lease liabilities21,60222,388Other noncurrent liabilities14,73110,131Total liabilities727,508708,804EquityMueller Industries, Inc. stockholders' equity: Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding 56,949,246 in 2019Common stock - \$01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies | Pension liabilities | | 13,552 | | 9,126 |
| Deferred income taxes16,84221,094Noncurrent operating lease liabilities21,60222,388Other noncurrent liabilities14,73110,131Total liabilities727,508708,804EquityMueller Industries, Inc. stockholders' equity: Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding 56,949,246 in 2019Common stock - \$010 par value; shares authorized 5,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609802Retained earnings1,019,694903,070Total Mueller Industries, Inc. stockholders' equity(54,883)(68,770)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies | Postretirement benefits other than pensions | | 13,289 | | 13,082 |
| Noncurrent operating lease liabilities21,60222,388Other noncurrent liabilities14,73110,131Total liabilities727,508708,804EquityPreferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding——Common stock - \$01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Environmental reserves | | 21,256 | | 19,972 |
| Other noncurrent liabilities14,73110,131Total liabilities727,508708,804EquityMueller Industries, Inc. stockholders' equity: Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding 56,949,246 in 2019Common stock - \$01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies | Deferred income taxes | | 16,842 | | 21,094 |
| Total liabilities727,508708,804EquityMueller Industries, Inc. stockholders' equity: Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding 56,949,246 in 2019——Common stock - \$01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Noncurrent operating lease liabilities | | 21,602 | | 22,388 |
| EquityMueller Industries, Inc. stockholders' equity:Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstandingCommon stock - \$0.1 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and56,949,246 in 2019Additional paid-in capitalRetained earnings1,019,694903,070Accumulated other comprehensive loss15,949,246 in 2019Common stock, at cost1,019,694903,070Accumulated other comprehensive loss1,019,694903,070Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies | Other noncurrent liabilities | | 14,731 | | 10,131 |
| Mueller Industries, Inc. stockholders' equity: — … <t< td=""><td>Total liabilities</td><td></td><td>727,508</td><td></td><td>708,804</td></t<> | Total liabilities | | 727,508 | | 708,804 |
| Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstandingCommon stock - \$.01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies | Equity | | | | |
| Common stock - \$01 par value; shares authorized 100,000,000; issued 80,183,004; outstanding 57,087,432 in 2020 and 56,949,246 in 2019802802Additional paid-in capital280,051278,609Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Mueller Industries, Inc. stockholders' equity: | | | | |
| 56,949,246 in 2019802802Additional paid-in capital280,051278,609Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Preferred stock - \$1.00 par value; shares authorized 5,000,000; none outstanding | | _ | | _ |
| Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | | | 802 | | 802 |
| Retained earnings1,019,694903,070Accumulated other comprehensive loss(54,883)(68,770)Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Additional paid-in capital | | 280,051 | | 278,609 |
| Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | | | 1,019,694 | | 903,070 |
| Treasury common stock, at cost(468,919)(470,243)Total Mueller Industries, Inc. stockholders' equity776,745643,468Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Accumulated other comprehensive loss | | (54,883) | | (68,770) |
| Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Treasury common stock, at cost | | (468,919) | | (470,243) |
| Noncontrolling interests24,31518,668Total equity801,060662,136Commitments and contingencies—— | Total Mueller Industries, Inc. stockholders' equity | | 776.745 | | 643,468 |
| Commitments and contingencies | | | | | |
| | Total equity | | 801,060 | | 662,136 |
| Total Liabilities and Equity \$ 1,528,568 \$ 1,370,940 | Commitments and contingencies | | — | | — |
| | Total Liabilities and Equity | \$ | 1,528,568 | \$ | 1,370,940 |

See accompanying notes to consolidated financial statements.

MUELLER INDUSTRIES, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS Years Ended December 26, 2020, December 28, 2019, and December 29, 2018

| (In thousands) | | 2020 | 2019 | | 2018 |
|---|----|-----------|------------|----------|-----------|
| Operating activities: | | | | | |
| Consolidated net income | \$ | 143,649 | \$ 106,232 | \$ | 106,820 |
| Reconciliation of consolidated net income to net cash provided by operating activities: | | | | | |
| Depreciation | | 38,715 | 37,337 | | 35,118 |
| Amortization of intangibles | | 6,128 | 5,356 | | 4,437 |
| Amortization of debt issuance costs | | 319 | 318 | | 318 |
| Loss from unconsolidated affiliates | | 10,219 | 24,594 | | 12,645 |
| Insurance proceeds - noncapital related | | — | 485 | | 2,306 |
| Change in the fair value of contingent consideration | | — | 3,625 | | — |
| Insurance recovery | | — | (485 | , | (3,681) |
| Stock-based compensation expense | | 8,570 | 8,744 | | 8,035 |
| Provision for doubtful accounts receivable | | 1,208 | (80 |) | (286) |
| Non-cash pension plan termination expense | | 11,642 | | | |
| Loss (gain) on disposals of assets | | 132 | (963 |) | (253) |
| Impairment charges | | 3,771 | | | — |
| Deferred income tax (benefit) expense | | (4,046) | (428 |) | 170 |
| Changes in assets and liabilities, net of effects of businesses acquired: | | | | | |
| Receivables | | (76,404) | 6,585 | | (11,056) |
| Inventories | | 5,207 | 39,561 | | 27,512 |
| Other assets | | 20,609 | (15,639 | , | 14,353 |
| Current liabilities | | 74,097 | (7,076 | <i>,</i> | (15,680) |
| Other liabilities | | (1,142) | (7,944 | | (14,769) |
| Other, net | | 2,399 | 322 | | 1,903 |
| Net cash provided by operating activities | | 245,073 | 200,544 | | 167,892 |
| Investing activities: | | | | | |
| Proceeds from sale of assets, net of cash transferred | | 181 | 3,240 | | 18,703 |
| Acquisition of businesses, net of cash acquired | | (72,648) | 3,465 | | (167,677) |
| Capital expenditures | | (43,885) | (31,162 |) | (38,481) |
| Issuance of notes receivable | | (9,270) | | | — |
| Insurance proceeds - capital related | | — | | | 1,968 |
| Investments in unconsolidated affiliates | | | (16,000 |) | (1,609) |
| Net cash used in investing activities | | (125,622) | (40,457 |) | (187,096) |
| Financing activities: | | | | | |
| Dividends paid to stockholders of Mueller Industries, Inc. | | (22,341) | (22,325 |) | (22,705) |
| Dividends paid to noncontrolling interests | | — | (846 | , | (592) |
| Issuance of long-term debt | | 190,038 | 100,658 | | 204,233 |
| Repayments of long-term debt | | (246,898) | (206,718 |) | (172,002) |
| Repayment of debt by consolidated joint ventures, net | | (259) | (4,305 |) | (2,915) |
| Repurchase of common stock | | (5,574) | (1,763 |) | (33,562) |
| Payment of contingent consideration | | (7,000) | (3,170 | | _ |
| Net cash used to settle stock-based awards | | (230) | (1,225 |) | (726) |
| Net cash used in financing activities | | (92,264) | (139,694 |) | (28,269) |
| Effect of exchange rate changes on cash | | 2,147 | 511 | | (1,952) |
| Increase (decrease) in cash, cash equivalents, and restricted cash | | 29.334 | 20.904 | _ | (49,425) |
| Cash, cash equivalents, and restricted cash at the beginning of the year | _ | 98,042 | 77,138 | | 126,563 |
| | \$ | 127,376 | \$ 98,042 | \$ | 77,138 |

See accompanying notes to consolidated financial statements.

MUELLER INDUSTRIES, INC. CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY Years Ended December 26, 2020, December 28, 2019, and December 29, 2018

| | 20 | 020 | | 20 | 19 | | 201 | 18 | |
|--|--------|-----|-----------|--------|----|----------|--------|----|----------|
| (In thousands) | Shares | | Amount | Shares | | Amount | Shares | | Amount |
| Common stock: | | | | | | | | | |
| Balance at beginning of year | 80,183 | \$ | 802 | 80,183 | \$ | 802 | 80,183 | \$ | 802 |
| Balance at end of year | 80,183 | \$ | 802 | 80,183 | \$ | 802 | 80,183 | \$ | 802 |
| Additional paid-in capital: | | | | | | | | | |
| Balance at beginning of year | | \$ | 278,609 | | \$ | 276,849 | | \$ | 274,585 |
| Issuance of shares under incentive stock option plans | | | (745) | | | (644) | | | (278) |
| Stock-based compensation expense | | | 8,570 | | | 8,744 | | | 8,035 |
| Issuance of restricted stock | | | (6,383) | | | (6,340) | | | (5,493) |
| Balance at end of year | | \$ | 280,051 | | \$ | 278,609 | | \$ | 276,849 |
| Retained earnings: | | | | | | | | | |
| Balance at beginning of year | | \$ | 903,070 | | \$ | 824,737 | | \$ | 743,503 |
| Net income attributable to Mueller Industries, Inc. | | | 139,493 | | | 100,972 | | | 104,459 |
| Dividends paid or payable to stockholders of Mueller Industries, Inc. | | | (22,869) | | | (22,639) | | | (23,009) |
| Reclassification of stranded effects of the Act | | | | | | — | | | (556) |
| Other adjustments | | | | | | | | | 340 |
| Balance at end of year | | \$ | 1,019,694 | | \$ | 903,070 | | \$ | 824,737 |
| Accumulated other comprehensive loss: | | | | | | | | | |
| Balance at beginning of year | | \$ | (68,770) | | \$ | (79,792) | | \$ | (51,056) |
| Total other comprehensive income (loss) attributable to Mueller Industries, Inc. | | | 13,887 | | | 11,022 | | | (29,292) |
| Reclassification of stranded effects of the Act | | | — | | | — | | | 556 |
| Balance at end of year | | \$ | (54,883) | | \$ | (68,770) | | \$ | (79,792) |

MUELLER INDUSTRIES, INC. CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY (continued) Years Ended December 26, 2020, December 28, 2019, and December 29, 2018

| | 20 | 2020 | | 201 | 19 | | 2018 | | | |
|---|--------|------|-----------|--------|----|-----------|--------|----|-----------|--|
| (In thousands) | Shares | | Amount | Shares | | Amount | Shares | | Amount | |
| Treasury stock: | | | | | | | | _ | | |
| Balance at beginning of year | 23,234 | \$ | (470,243) | 23,480 | \$ | (474,240) | 22,373 | \$ | (445,723) | |
| Issuance of shares under incentive stock option plans | (71) | | 515 | (94) | | 1,908 | (57) | | 1,136 | |
| Repurchase of common stock | 248 | | (5,574) | 162 | | (4,251) | 1,437 | | (35,146) | |
| Issuance of restricted stock | (315) | | 6,383 | (314) | | 6,340 | (273) | | 5,493 | |
| | | | | | | | | | | |
| Balance at end of year | 23,096 | \$ | (468,919) | 23,234 | \$ | (470,243) | 23,480 | \$ | (474,240) | |
| | | | | | | | | | | |
| Noncontrolling interests: | | | | | | | | | | |
| Balance at beginning of year | | \$ | 18,668 | | \$ | 14,904 | | \$ | 13,917 | |
| Dividends paid to noncontrolling interests | | | _ | | | (846) | | | (592) | |
| Net income attributable to noncontrolling interests | | | 4,156 | | | 5,260 | | | 2,361 | |
| Foreign currency translation | | | 1,491 | | | (650) | | | (782) | |
| | | | | | | <u>`</u> | | | | |
| Balance at end of year | | \$ | 24,315 | | \$ | 18,668 | | \$ | 14,904 | |

See accompanying notes to consolidated financial statements.

Notes to Consolidated Financial Statements

Note 1 - Summary of Significant Accounting Policies

Nature of Operations

The principal business of Mueller Industries, Inc. is the manufacture and sale of copper tube and fittings; line sets; PEX plastic tube and fittings; steel nipples; brass and copper alloy rod, bar, and shapes; aluminum and brass forgings; aluminum impact extrusions; compressed gas valves; refrigeration valves and fittings; fabricated tubular products; pressure vessels; coaxial heat exchangers; insulated flexible duct systems; brazed manifolds; headers; and distributor assemblies. The Company also resells brass and plastic plumbing valves, plastic fittings, malleable iron fittings, faucets, and plumbing specialty products. The Company markets its products to the HVAC, plumbing, refrigeration, hardware, and other industries. Mueller's operations are located throughout the United States and in Canada, Mexico, Great Britain, South Korea, the Middle East, and China.

Fiscal Years

The Company's fiscal year consists of 52 weeks ending on the last Saturday of December. These dates were December 26, 2020, December 28, 2019, and December 29, 2018.

Basis of Presentation

The Consolidated Financial Statements include the accounts of Mueller Industries, Inc. and its majority-owned subsidiaries. The noncontrolling interest represents a private ownership interest of 40 percent of Jungwoo Metal Ind. Co., LTD (Jungwoo-Mueller).

Revenue Recognition

Given the nature of the Company's business and product offerings, sales transactions with customers are generally comprised of a single performance obligation that involves delivery of the products identified in the contracts with customers. Performance obligations are generally satisfied at the point in time of shipment and payment is generally due within sixty days. Variable consideration is estimated for future rebates on certain product lines and product returns. The Company records variable consideration as an adjustment to the transaction price in the period it is incurred. Since variable consideration is settled within a short period of time, the time value of money is not significant. The cost of shipping product to customers is expensed as incurred as a component of cost of goods sold.

The Company's Domestic Piping Systems Group engages in certain transactions where it acts as an agent. Revenue from these transactions is recorded on a net basis.

See "Note 3 - Segment Information" for additional information on disaggregation of revenue from contracts with customers.

Acquisitions

Accounting for acquisitions requires the Company to recognize separately from goodwill the assets acquired and liabilities assumed at their acquisition date fair values. Goodwill is measured as the excess of the purchase price over the net amount allocated to the identifiable assets acquired and liabilities assumed. While management uses its best estimates and assumptions to accurately value assets acquired and liabilities assumed at the acquisition date, the estimates are inherently uncertain and subject to refinement. As a result, during the measurement period, which may be up to one year from the acquisition date, the Company may record adjustments to the assets acquired and liabilities assumed with the corresponding offset to goodwill. The operating results generated by the acquired businesses are included in the Consolidated Statements of Income from their respective dates of acquisition. Acquisition related costs are expensed as incurred. See "Note 2 – Acquisitions" for additional information.

Cash Equivalents and Restricted Cash

Temporary investments with original maturities of three months or less are considered to be cash equivalents. These investments are stated at cost. At December 26, 2020 and December 28, 2019, temporary investments consisted of money market mutual funds, commercial paper, bank repurchase agreements, and U.S. and foreign government securities totaling approximately \$13.3 million and \$0.5 million, respectively.



Amounts included in restricted cash relate to required deposits in brokerage accounts that facilitate the Company's hedging activities as well as imprest funds for the Company's self-insured workers' compensation program. See "Note 4 – Cash, Cash Equivalents, and Restricted Cash" for additional information.

Allowance for Doubtful Accounts

The Company routinely grants credit to many of its customers without collateral. The risk of credit loss in trade receivables is substantially mitigated by the credit evaluation process. The Company provides an allowance for receivables that may not be fully collected. In circumstances where the Company is aware of a customer's inability to meet their financial obligations (e.g., bankruptcy filings or substantial credit rating downgrades), it records an allowance for doubtful accounts against amounts due to reduce the net recognized receivable to the amount it believes most likely will be collected. For all other customers, the Company recognizes an allowance for doubtful accounts based on its historical collection experience and the impact of current economic conditions. If circumstances change (e.g., greater than expected defaults or an unexpected material change in a major customer's ability to meet their financial obligations), the Company could change its estimate of the recoverability of amounts due by a material amount. Historically, credit losses have been within management's expectations. The balance for uncollectible accounts was \$1.5 million and \$0.8 million as of December 26, 2020 and December 28, 2019, respectively.

Inventories

The Company's inventories are valued at the lower-of-cost-or-market. The material component of its U.S. copper tube and copper fittings inventories is valued on a LIFO basis and the non-material components of U.S. copper tube and copper fittings inventories are valued on a FIFO basis. The material component of its U.K. and Canadian copper tube inventories are valued on a FIFO basis. The material component of its brass rod and forgings inventories are valued on a FIFO basis. Certain inventories are valued on an average cost basis. Elements of cost in finished goods inventory in addition to the cost of material include depreciation, amortization, utilities, maintenance, production wages, and transportation costs.

The market price of copper cathode and scrap is subject to volatility. During periods when open market prices decline below net book value, the Company may need to provide an allowance to reduce the carrying value of its inventory. In addition, certain items in inventory may be considered obsolete and, as such, the Company may establish an allowance to reduce the carrying value of those items to their net realizable value. Changes in these estimates related to the value of inventory, if any, may result in a materially adverse impact on the Company's reported financial position or results of operations. The Company recognizes the impact of any changes in estimates, assumptions, and judgments in income in the period in which it is determined. See "Note 5 – Inventories" for additional information.

Leases

The Company leases certain manufacturing facilities, distribution centers, office space, and equipment. Leases with an initial term of twelve months or less are not recorded on the balance sheet; expense for these leases is recognized on a straight line-basis over the term of the lease. Most of the Company's leases include one or more options to renew up to five years and have remaining terms of one to 15 years. These options are not included in the Company's valuation of the right-of-use assets as the Company is not reasonably certain to exercise the options.

The Company has certain vehicle leases that are financing; however, these leases are deemed immaterial for disclosure. See "Note 8 - Leases" for additional information.

Property, Plant, and Equipment

Property, plant, and equipment is stated at cost less accumulated depreciation. Expenditures for major additions and improvements are capitalized, while minor replacements, maintenance, and repairs are charged to expense as incurred. Depreciation of buildings, machinery, and equipment is provided on the straight-line method over the estimated useful lives ranging from 20 to 40 years for buildings and five to 20 years for machinery and equipment. Leasehold improvements are amortized over the lesser of their useful life or the remaining lease term.

The Company continually evaluates these assets to determine whether events or changes in circumstances have occurred that may warrant revision of the estimated useful life or whether the remaining balance should be evaluated for possible impairment. See "Note 9 – Property, Plant, and Equipment, Net" for additional information.



Goodwill

Goodwill is recognized for the excess of the purchase price over the fair value of tangible and identifiable intangible net assets of businesses acquired. Several factors give rise to goodwill in business acquisitions, such as the expected benefit from synergies of the combination and the existing workforce of the acquired business. Goodwill is evaluated annually for possible impairment as of the first day of the fourth quarter unless circumstances indicate the need to accelerate the timing of the evaluation. In the evaluation of goodwill impairment, management performs a qualitative assessment to determine if it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the qualitative assessment is not conclusive, management compares the fair value of a reporting unit with its carrying amount and will recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value, not to exceed the total amount of goodwill allocated to the reporting unit.

Fair value for the Company's reporting units is determined using a combination of the income and market approaches (level 3 within the fair value hierarchy), incorporating market participant considerations and management's assumptions on revenue growth rates, operating margins, discount rates and expected capital expenditures. The market approach measures the fair value of a business through the analysis of publicly traded companies or recent sales of similar businesses. The income approach uses a discounted cash flow model to estimate the fair value of reporting units based on expected cash flows (adjusted for capital investment required to support operations) and a terminal value. This cash flow stream is discounted to its present value to arrive at a fair value for each reporting unit. Future earnings are estimated using the Company's most recent annual projections, applying a growth rate to future periods. Those projections are directly impacted by the condition of the markets in which the Company's businesses participate. The discount rate selected for the reporting units is generally based on rates of return available for comparable companies at the date of valuation. Fair value determinations may include both internal and third-party valuations. See "Note 10-Goodwill and Other Intangible Assets" for additional information.

Investments in Unconsolidated Affiliates

The Company owns a 50 percent interest in an unconsolidated affiliate that acquired Tecumseh Products Company (Tecumseh). The Company also owns a50 percent interest in a second unconsolidated affiliate that provides financing to Tecumseh. These investments are recorded using the equity method of accounting, as the Company can exercise significant influence but does not own a majority equity interest or otherwise control the respective entities. Under the equity method of accounting, these investments are stated at initial cost and are adjusted for subsequent additional investments and the Company's proportionate share of earnings or losses and distributions.

The Company records its proportionate share of the investees' net income or loss, net of foreign taxes, one quarter in arrears as income (loss) from unconsolidated affiliates, net of foreign tax, in the Consolidated Statements of Income. The Company's proportionate share of the investees' other comprehensive income (loss), net of income taxes, is recorded in the Consolidated Statements of Comprehensive Income and Consolidated Statements of Changes in Equity. The U.S. tax effect of the Company's proportionate share of Tecumseh's income or loss is recorded in income tax expense in the Consolidated Statements of Income. In general, the equity investment in unconsolidated affiliates is equal to the current equity investment plus the investees' net accumulated losses.

The Company also owns a 40 percent interest in Mueller Middle East BSC.

The investments in unconsolidated affiliates are assessed periodically for impairment and written down when the carrying amount is not considered fully recoverable. See "Note 11 – Investments in Unconsolidated Affiliates" for additional information.

Self-Insurance Accruals

The Company is primarily self-insured for workers' compensation claims and benefits paid under certain employee health care programs. Accruals are primarily based on estimated undiscounted cost of claims, which includes incurred but not reported claims, and are classified as accrued wages and other employee costs.

Pension and Other Postretirement Benefit Plans

The Company sponsors several qualified and nonqualified pension and other postretirement benefit plans in the U.S. and certain foreign locations. The Company recognizes the overfunded or underfunded status of the plans as an asset or liability in the Consolidated Balance Sheets with changes in the funded status recorded through comprehensive income in the year in which those changes occur. The obligations for these plans are determined by actuaries and affected by the assumptions, including



discount rates, expected long-term return on plan assets for defined benefit pension plans, and certain employee-related factors, such as retirement age and mortality. The Company evaluates its assumptions periodically and makes adjustments as necessary.

The expected return on plan assets is determined using the market value of plan assets. Differences between assumed and actual returns are amortized to the market value of assets on a straight-line basis over the average remaining service period of the plan participants using the corridor approach. The corridor approach defers all actuarial gains and losses resulting from variances between actual results and actuarial assumptions. These unrecognized gains and losses are amortized when the net gains and losses exceed 10 percent of the greater of the market value of the plan assets or the projected benefit obligation. The amount in excess of the corridor is amortized over the average remaining service period for the pension plans was 11.5 years. See "Note 13 – Benefit Plans" for additional information.

Environmental Reserves and Environmental Expenses

The Company recognizes an environmental liability when it is probable the liability exists and the amount is reasonably estimable. The Company estimates the duration and extent of its remediation obligations based upon reports of outside consultants, internal and third party estimates and analyses of cleanup costs and ongoing monitoring costs, communications with regulatory agencies, and changes in environmental law. If the Company were to determine that its estimates of the duration or extent of its environmental obligations were no longer accurate, it would adjust environmental liabilities accordingly in the period that such determination is made. Estimated future expenditures for environmental remediation are not discounted to their present value.

Environmental expenses that relate to ongoing operations are included as a component of cost of goods sold. Environmental expenses related to non-operating properties are presented below operating income in the Consolidated Statements of Income. See "Note 14 – Commitments and Contingencies" for additional information.

Earnings Per Share

Basic earnings per share is computed based on the weighted average number of common shares outstanding. Diluted earnings per share reflects the increase in weighted average common shares outstanding that would result from the assumed exercise of outstanding stock options and vesting of restricted stock awards calculated using the treasury stock method. There were approximately 10 thousand stock-based awards excluded from the computation of diluted earnings per share for the year ended December 26, 2020, because they were antidilutive. There were no awards excluded from the computation of diluted earnings per share for the year ended December 28, 2019.

Income Taxes

Deferred income tax assets and liabilities are recognized when differences arise between the treatment of certain items for financial statement and tax purposes. Realization of certain components of deferred tax assets is dependent upon the occurrence of future events. The Company records valuation allowances to reduce its deferred tax assets to the amount it believes is more likely than not to be realized. These valuation allowances can be impacted by changes in tax laws, changes to statutory tax rates, and future taxable income levels and are based on the Company's judgment, estimates, and assumptions regarding those future events. In the event the Company was to determine that it would not be able to realize all or a portion of the net deferred tax assets in the future, it would increase the valuation allowance through a charge to income tax expense in the period that such determination is made. Conversely, if it was to determine that it would be able to realize its deferred tax assets in the future, in excess of the net carrying amounts, the Company would decrease the recorded valuation allowance through a decrease to income tax expense in the period that such determination is made.

The Company provides for uncertain tax positions and the related interest and penalties, if any, based upon management's assessment of whether a tax benefit is more likely than not to be sustained upon examination by tax authorities. Tax benefits for uncertain tax positions that are recognized in the financial statements are measured as the largest amount of benefit, determined on a cumulative probability basis, that is more likely than not to be realized upon ultimate settlement. To the extent the Company prevails in matters for which a liability for an uncertain tax position is established or is required to pay amounts in excess of the liability, the Company's effective tax rate in a given financial statement period may be affected.

These estimates are highly subjective and could be affected by changes in business conditions and other factors. Changes in any of these factors could have a material impact on future income tax expense. See "Note 15 – Income Taxes" for additional information.



Taxes Collected from Customers and Remitted to Governmental Authorities

Taxes assessed by a governmental authority that are directly imposed on a revenue producing transaction between the Company and its customers, primarily value added taxes in foreign jurisdictions, are accounted for on a net (excluded from revenues and costs) basis.

Stock-Based Compensation

The Company has in effect stock incentive plans under which stock-based awards have been granted to certain employees and members of its Board of Directors. Stock-based compensation expense is recognized in the Consolidated Statements of Income as a component of selling, general, and administrative expense based on the grant date fair value of the awards. See "Note 17 – Stock-Based Compensation" for additional information.

Concentrations of Credit and Market Risk

Concentrations of credit risk with respect to accounts receivable are limited due to the large number of customers comprising the Company's customer base, and their dispersion across different geographic areas and different industries, including HVAC, plumbing, refrigeration, hardware, automotive, OEMs, and others.

The Company minimizes its exposure to base metal price fluctuations through various strategies. Generally, it prices an equivalent amount of copper raw material, under flexible pricing arrangements it maintains with its suppliers, at the time it determines the selling price of finished products to its customers.

Derivative Instruments and Hedging Activities

The Company's earnings and cash flows are subject to fluctuations due to changes in commodity prices, foreign currency exchange rates, and interest rates. The Company uses derivative instruments such as commodity futures contracts, foreign currency forward contracts, and interest rate swaps to manage these exposures.

All derivatives are recognized in the Consolidated Balance Sheets at their fair value. On the date the derivative contract is entered into, it is either a) designated as a hedge of (i) a forecasted transaction or the variability of cash flow to be paid (cash flow hedge) or (ii) the fair value of a recognized asset or liability (fair value hedge), or b) not designated in a hedge accounting relationship, even though the derivative contract was executed to mitigate an economic exposure (economic hedge), as the Company does not enter into derivative contracts for trading purposes. Changes in the fair value of a derivative that is qualified, designated, and highly effective as a cash flow hedge are recorded in stockholders' equity within accumulated other comprehensive income (AOCI), to the extent effective, until they are reclassified to earnings in the same period or periods during which the hedged transaction affects earnings. Changes in the fair value of undesignated derivative instruments executed as economic hedges are reported in current earnings.

The Company documents all relationships between derivative instruments and hedged items, as well as the risk-management objective and strategy for undertaking various hedge transactions. This process includes linking all derivative instruments that are designated as fair value hedges to specific assets and liabilities in the Consolidated Balance Sheets and linking cash flow hedges to specific forecasted transactions or variability of cash flow.

The Company also assesses, both at the hedge's inception and on an ongoing basis, whether the designated derivative instruments that are used in hedging transactions are highly effective in offsetting changes in cash flow or fair values of hedged items. When a derivative instrument is determined not to be highly effective as a hedge or the underlying hedged transaction is no longer probable of occurring, hedge accounting is discontinued prospectively in accordance with the derecognition criteria for hedge accounting.

The Company primarily executes derivative contracts with major financial institutions. These counterparties expose the Company to credit risk in the event of nonperformance. The amount of such exposure is limited to the fair value of the contract plus the unpaid portion of amounts due to the Company pursuant to terms of the derivative instruments, if any. If a downgrade in the credit rating of these counterparties occurs, management believes that this exposure is mitigated by provisions in the derivative arrangements which allow for the legal right of offset of any amounts due to the Company from the counterparties with any amounts payable to the counterparties by the Company. As a result, management considers the risk of loss from counterparty default to be minimal. See "Note 7 – Derivative Instruments and Hedging Activities" for additional information.



Fair Value of Financial Instruments

The carrying amounts for cash and cash equivalents, accounts receivable, and accounts payable approximate fair value due to the short-term maturity of these instruments.

The fair value of long-term debt at December 26, 2020 approximates the carrying value on that date. The estimated fair values were determined based on quoted market prices and the current rates offered for debt with similar terms and maturities. The fair value of long-term debt is classified as level 2 within the fair value hierarchy. This classification is defined as a fair value determined using market-based inputs other than quoted prices that are observable for the liability, either directly or indirectly.

Foreign Currency Translation

For foreign subsidiaries for which the functional currency is not the U.S. dollar, balance sheet accounts are translated at exchange rates in effect at the end of the year and income statement accounts are translated at average exchange rates for the year. Translation gains and losses are included in equity as a component of AOCI. Transaction gains and losses that arise from exchange rate fluctuations on transactions denominated in a currency other than the functional currency are recognized in selling, general, and administrative expense in the Consolidated Statements of Income. Included in the Consolidated Statements of Income were net transaction losses of \$0.5 million in 2020, gains of \$0.2 million in 2019, and losses of \$1.0 million in 2018.

Use of and Changes in Estimates

The preparation of financial statements in conformity with generally accepted accounting principles in the United States (U.S. GAAP) requires management to make estimates, assumptions, and judgments that affect the amounts reported in the financial statements and accompanying notes. Management makes its best estimate of the ultimate outcome for these items based on historical trends and other information available when the financial statements are prepared. Changes in estimates are recognized in accordance with the accounting rules for the estimate, which is typically in the period when new information becomes available to management. Areas where the nature of the estimate makes it reasonably possible that actual results could materially differ from amounts estimated include but are not limited to: pension and other postretirement benefit plan obligations, tax liabilities, loss contingencies, litigation claims, environmental reserves, and impairment assessments of long-lived assets (including goodwill).

Recently Adopted Accounting Standards

In June 2016, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2016-13, *Financial Instruments - Credit Losses (Topic 326):* Disclosure Framework- Measurement of Credit Losses on Financial Instruments. The ASU significantly changes the current incurred credit loss model under U.S. GAAP, which delays the recognition of credit losses until it is probable a loss has been incurred, to a current expected credit losses model which requires immediate recognition of management estimates of credit losses. The Company adopted the ASU during the first quarter of 2020 using a retrospective approach. The adoption of the ASU did not have a material impact on the Company's Consolidated Financial Statements.

In August 2018, the FASB issued ASU No. 2018-14, Compensation - Retirement Benefits - Defined Benefit Plans - General (Subtopic 715-20): Disclosure Framework - Changes to the Disclosure Requirements for Defined Benefit Plans. For employers that sponsor defined benefit pension and/or other postretirement benefit plans, the ASU eliminates requirements for certain disclosures that are no longer considered cost beneficial, requires new disclosures related to the weighted-average interest crediting rate for cash balance plans and explanations for significant gains and losses related to changes in benefit obligations, and clarifies the requirements for entities that provide aggregate disclosures for two or more plans. The Company adopted the ASU during the first quarter of 2020 using a retrospective approach. The adoption of the ASU did not have a material impact on the Company's Consolidated Financial Statements.

In August 2018, the FASB issued ASU No. 2018-13, Fair Value Measurement (Topic 820): Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement. The ASU eliminates requirements to disclose the amount and reasons for transfers between level 1 and level 2 of the fair value hierarchy, but requires public companies to disclose changes in unrealized gains and losses for the period included in other comprehensive income (OCI) for recurring level 3 fair value measurements. The Company adopted the ASU during the first quarter of 2020. The guidance on changes in unrealized gains and losses for the period included in other sin unrealized gains and losses for the period included in OCI for recurring level 3 measurements, the range and weighted average of significant unobservable inputs so for the period included in OCI for recurring level 3 measurements, the range and weighted average of significant unobservable inputs and losses for the period included in OCI for recurring level 3 measurements, the range and weighted average of significant unobservable inputs and losses for the period included in OCI for recurring level 3 measurements, the range and weighted average of significant unobservable inputs used to develop level 3 fair value



measurements, and the narrative description of measurement uncertainty is applied prospectively. All other amendments are applied retrospectively. The adoption of the ASU did not have a material impact on the Company's Consolidated Financial Statements.

Note 2 - Acquisitions

2020 Acquisitions

Kessler

On August 3, 2020, the Company entered into an asset purchase agreement with Wieland-Kessler LLC, whereby the Company purchased the Kessler distribution business, which included inventory, manufacturing equipment, and related assets. The total purchase price was \$57.2 million in cash paid at closing. The Company treated this as a business combination. The acquired business, Kessler Sales and Distribution, LLC (Kessler), is a distributor of residential and commercial plumbing products. It is reported within and complements the Company's existing businesses in the Piping Systems segment. For the year ended December 26, 2020, the Company's total net sales included \$55.0 million of revenue recognized by Kessler from the date of acquisition.

Shoals

On January 17, 2020, the Company entered into a stock purchase agreement pursuant to which the Company acquired all of the outstanding stock of Shoals Tubular, Inc. (Shoals) for approximately \$15.4 million in cash at closing, net of working capital adjustments. Shoals is a manufacturer of brazed manifolds, headers, and distributor assemblies used primarily by manufacturers of residential heating and air conditioning units. The acquired business is reported within and complements the Company's existing businesses in the Climate segment.

2018 Acquisitions

ATCO

On July 2, 2018, the Company entered into a stock purchase agreement pursuant to which the Company acquired all of the outstanding capital stock of ATCO Rubber Products, Inc. (ATCO) for approximately \$158.1 million, net of working capital adjustments. The total purchase price consisted of \$151.8 million in cash at closing and a contingent consideration arrangement which requires the Company to pay the former owner up to \$12.0 million based on EBITDA growth of the acquired business. ATCO is an industry leader in the manufacturing and distribution of insulated HVAC flexible duct systems and will support the Company's strategy to grow its Climate Products businesses to become a more valuable resource to its HVAC customers. The acquired business is reported in the Company's Climate segment.

For the years ended December 26, 2020 and December 28, 2019, ATCO had net sales of approximately \$196.5 million and \$190.1 million, respectively. For the year ended December 29, 2018, the Company's total net sales included \$90.0 million of revenue recognized by ATCO from the date of acquisition.

The following table presents condensed pro forma consolidated results of operations as if the ATCO acquisition has occurred at the beginning of 2018. The pro forma information does not purport to be indicative of the results that would have been obtained if the operations had actually been combined during the periods presented and is not necessarily indicative of operating results to be expected in future periods. The most significant pro forma adjustments to the historical results of operations relate to the application of purchase accounting and the financing structure.

| | For t | he Year Ended |
|---------------------------------------|-------|---------------|
| (In thousands, except per share data) | | 2018 |
| Net sales | \$ | 2,595,454 |
| Net income | | 111,482 |
| | | |
| Basic earnings per share | \$ | 1.96 |
| Diluted earnings per share | | 1.95 |

Die-Mold

On March 31, 2018, the Company entered into a share purchase agreement pursuant to which the Company acquired all of the outstanding shares of Die-Mold Tool Limited (Die-Mold) for approximately \$13.6 million, net of working capital adjustments. The total purchase price consisted of \$12.4 million in cash at closing and a contingent consideration arrangement which requires the Company to pay the former owner up to \$2.3 million based on EBITDA growth of the acquired business. Die-Mold, based out of Ontario, Canada, is a manufacturer of plastic PEX and other plumbing-related fittings and an integrated designer and manufacturer of plastic injection tooling. The business complements the Company's existing businesses within the Piping Systems segment.

Purchase Price Allocations

These acquisitions were accounted for using the acquisition method of accounting whereby the total purchase price was allocated to tangible and intangible assets acquired and liabilities assumed based on respective fair values.

The following table summarizes the allocation of the purchase price to acquire these businesses, which were financed by available cash balances, as well as the assets acquired and liabilities assumed at the respective acquisition dates. The purchase price allocations for Kessler and Shoals are provisional as of December 26, 2020 and subject to change upon the completion of the final valuation of long-lived assets during the measurement period.

| (In thousands) | 1 | Kessler | Shoals | | ATCO | Die-Mold |
|--|----|-----------------------|----------------------|----|-----------------------|--------------|
| Total consideration | \$ | 57,233 | \$ 15,415 | \$ | 158,100 | \$ 13,629 |
| Allocated to: | | | | | | |
| Accounts receivable | | | 660 | | 21,829 | 1,684 |
| Inventories | | 25,106 | 1,809 | | 31,666 | 1,833 |
| Other current assets | | | 26 | | 1,051 | 267 |
| Property, plant, and equipment | | 3,561 | 3,700 | | 83,080 | 3,278 |
| Operating lease right-of-use assets | | 10,526 | _ | | _ | _ |
| Goodwill | | 11,710 ⁽¹⁾ | 1,964 ⁽¹⁾ | | 17,236 ⁽¹⁾ | 4,239 |
| Intangible assets | | 15,140 | 7,480 | | 23,360 | 5,209 |
| Other assets | | _ | — | | 224 | _ |
| Total assets acquired | | 66,043 | 15,639 | | 178,446 | 16,510 |
| Accounts payable | | _ | 217 | | 8,093 | 710 |
| Current portion of operating lease liabilities | | 1,692 | _ | | _ | _ |
| Other current liabilities | | _ | 7 | | 10,187 | 173 |
| Long-term debt | | | _ | | 2,066 | _ |
| Noncurrent operating lease liabilities | | 7,118 | _ | | _ | _ |
| Other noncurrent liabilities | | _ | — | | — | 1,998 |
| Total liabilities assumed | | 8,810 | 224 | | 20,346 | 2,881 |
| Net assets acquired | | 57,233 | 15,415 | \$ | 158,100 | \$ 13,629 |
| (1) Tax daduatible goodwill | | | | - | | |

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⁽¹⁾ Tax-deductible goodwill

The following details the total intangible assets identified in the allocation of the purchase price at the respective acquisition dates:

| (In thousands) | Estimated Useful Life | Kessler | Shoals | ATCO | Die-Mold |
|----------------------------------|-----------------------|-----------|----------|-----------|----------|
| Intangible asset type: | | | | | |
| Customer relationships | 20 years | \$ 11,180 | \$ 4,290 | \$ 6,550 | \$ 3,077 |
| Non-compete agreements | 3-5 years | _ | 150 | _ | 70 |
| Patents and technology | 10-15 years | — | 2,620 | 10,570 | 1,512 |
| Trade names, licenses, and other | 5-10 years | 3,960 | 420 | 4,770 | 550 |
| Supply contracts | 5 years | _ | _ | 1,470 | _ |
| | | | | | |
| Total intangible assets | | \$ 15,140 | \$ 7,480 | \$ 23,360 | \$ 5,209 |

Note 3 –Segment Information

The Company's reportable segments are Piping Systems, Industrial Metals, and Climate. Each of the reportable segments is composed of certain operating segments that are aggregated primarily by the nature of products offered as follows:

Piping Systems

Piping Systems is composed of the following operating segments: Domestic Piping Systems Group, Great Lakes Copper, Heatlink Group, Die-Mold, European Operations, Trading Group, and Jungwoo-Mueller (the Company's South Korean joint venture). The Domestic Piping Systems Group manufactures and distributes copper tube, fittings, and line sets. These products are manufactured in the U.S., sold in the U.S., and exported to markets worldwide. Outside the U.S., Great Lakes Copper manufactures copper tube and line sets in Canada and sells the products primarily in the U.S. and Canada. Heatlink Group produces a complete line of products for PEX plumbing and radiant systems in Canada and sells these products in Canada and the U.S. Die-Mold manufactures PEX and other plumbing-related fittings and plastic injection tooling in Canada and sells these products in Canada and the U.S. European Operations manufacture copper tube in the U.K. which is sold primarily in Europe. The Trading Group manufactures pipe and resells brass and plastic plumbing valves, malleable iron fittings, faucets, and plumbing specialty products in the U.S. and Mexico. Jungwoo-Mueller manufactures copper-based joining products that are sold worldwide. The Piping Systems segment's products are sold primarily to plumbing, refrigeration, and air-conditioning wholesalers, hardware wholesalers and co-ops, building product retailers, and air-conditioning OEMs.

During 2020, the segment recognized fixed asset impairment charges for certain manufacturing equipment of \$3.8 million.

During 2019, the segment recognized a gain of \$1.2 million on the sale of real property.

During 2018, the segment recognized a gain of \$1.4 million on the sale of real property and a gain of \$0.7 million on the sale of manufacturing equipment.

Industrial Metals

Industrial Metals is composed of the following operating segments: Brass Rod & Copper Bar Products, Impacts & Micro Gauge, and Brass Value-Added Products. These businesses manufacture brass rod, impact extrusions, and forgings, as well as a wide variety of end products including plumbing brass, automotive components, valves, fittings, and gas assemblies. These products are manufactured in the U.S. and sold primarily to OEMs in the U.S., many of which are in the industrial, transportation, construction, heating, ventilation, and air-conditioning, plumbing, refrigeration, and energy markets.

During 2019, the segment recognized a loss of \$0.3 million on the sale of real property and an insurance recovery gain of \$0.5 million related to the losses incurred due to the 2017 fire at the brass rod mill in Port Huron, Michigan.

During 2018, the segment recognized a gain of \$1.3 million on the sale of real property and an insurance recovery gain of \$0.7 million related to the losses incurred due to the 2017 fire at the brass rod mill in Port Huron, Michigan.



Climate

Climate is composed of the following operating segments: Refrigeration Products, Fabricated Tube Products, Westermeyer, Turbotec, ATCO, Linesets, Inc. and Shoals. These domestic businesses manufacture and fabricate valves, assemblies, high pressure components, coaxial heat exchangers, insulated HVAC flexible duct systems, line sets, brazed manifolds, headers, and distributor assemblies primarily for the heating, ventilation, air-conditioning, and refrigeration markets in the U.S.

Performance of segments is generally evaluated by their operating income. Summarized product line, geographic, and segment information is shown in the following tables. Geographic sales data indicates the location from which products are shipped. Unallocated expenses include general corporate expenses, plus certain charges or credits not included in segment activity.

During 2020, 2019, and 2018, no single customer exceeded 10 percent of worldwide sales.

The following tables represent a disaggregation of revenue from contracts with customers, along with the reportable segment for each category:

| | For the Year Ended December 26, 2020 | | | | | | | | | | | |
|-----------------------------------|--------------------------------------|-------------|----|-------------------|----|---------|----|-----------|--|--|--|--|
| (In thousands) | | ing Systems | Ι | Industrial Metals | | Climate | | Total | | | | |
| | | | | | | | | | | | | |
| Tube and fittings | \$ | 1,232,724 | \$ | — | \$ | — | \$ | 1,232,724 | | | | |
| Brass rod and forgings | | — | | 356,547 | | — | | 356,547 | | | | |
| OEM components, tube & assemblies | | 56,176 | | 42,127 | | 138,551 | | 236,854 | | | | |
| Valves and plumbing specialties | | 294,102 | | _ | | — | | 294,102 | | | | |
| Other | | | | 73,485 | | 231,580 | | 305,065 | | | | |
| | | | | | | | | | | | | |
| | \$ | 1,583,002 | \$ | 472,159 | \$ | 370,131 | \$ | 2,425,292 | | | | |
| | | | | | | | | | | | | |
| Intersegment sales | | | | | | | | (27,249) | | | | |
| | | | | | | | | | | | | |
| Net sales | | | | | | | \$ | 2,398,043 | | | | |

| | For the Year Ended December 28, 2019 | | | | | | | | | | | |
|-----------------------------------|--------------------------------------|--------------|-------------------|---------|----|---------|----|-----------|--|--|--|--|
| (In thousands) | | oing Systems | Industrial Metals | | | Climate | | Total | | | | |
| | | | | | | | | | | | | |
| Tube and fittings | \$ | 1,271,558 | \$ | — | \$ | — | \$ | 1,271,558 | | | | |
| Brass rod and forgings | | _ | | 425,573 | | — | | 425,573 | | | | |
| OEM components, tube & assemblies | | 29,103 | | 48,104 | | 133,651 | | 210,858 | | | | |
| Valves and plumbing specialties | | 241,795 | | _ | | _ | | 241,795 | | | | |
| Other | | _ | | 80,695 | | 222,565 | | 303,260 | | | | |
| | | | | | | | | | | | | |
| | \$ | 1,542,456 | \$ | 554,372 | \$ | 356,216 | \$ | 2,453,044 | | | | |
| | | | | | | | | | | | | |
| Intersegment sales | | | | | | | | (22,428) | | | | |
| | | | | | | | | | | | | |
| Net sales | | | | | | | \$ | 2,430,616 | | | | |
| | | | | | | | | | | | | |

Disaggregation of revenue from contracts with customers (continued):

| | For the Year Ended December 29, 2018 | | | | | | | | |
|-----------------------------------|--------------------------------------|-------------|----|------------------|----|---------|----|-----------|--|
| (In thousands) | Pip | ing Systems | Ir | ndustrial Metals | | Climate | | Total | |
| | | | | | | | | | |
| Tube and fittings | \$ | 1,352,875 | \$ | — | \$ | — | \$ | 1,352,875 | |
| Brass rod and forgings | | _ | | 501,472 | | | | 501,472 | |
| OEM components, tube & assemblies | | 29,578 | | 53,581 | | 139,113 | | 222,272 | |
| Valves and plumbing specialties | | 263,180 | | _ | | | | 263,180 | |
| Other | | _ | | 96,008 | | 89,956 | | 185,964 | |
| | | | | | | | | | |
| | \$ | 1,645,633 | \$ | 651,061 | \$ | 229,069 | \$ | 2,525,763 | |
| | | | | | | | | | |
| Intersegment sales | | | | | | | | (17,885) | |
| | | | | | | | | | |
| Net sales | | | | | | | \$ | 2,507,878 | |
| | | | | | | | | | |

Summarized segment information is as follows:

| | For the Year Ended December 26, 2020 | | | | | | | |
|--|--------------------------------------|-----------|-------------------|---------|------------|-------------------------------|----|-----------|
| (In thousands) | Piping Systems | | Industrial Metals | | Climate | Corporate and Eliminations | | Total |
| Net sales | \$ | 1,583,002 | \$ | 472,159 | \$ 370,131 | \$ (27,249) | \$ | 2,398,043 |
| Cost of goods sold | | 1,311,697 | | 398,000 | 276,274 | (19,810) |) | 1,966,161 |
| Depreciation and amortization | | 23,071 | | 7,528 | 10,249 | 3,995 | | 44,843 |
| Selling, general, and administrative expense | | 78,744 | | 12,566 | 26,806 | 41,367 | | 159,483 |
| Litigation settlement, net | | | | | | (22,053) |) | (22,053) |
| Impairment charges | | 3,771 | | _ | | | | 3,771 |
| Operating income | | 165,719 | | 54,065 | 56,802 | (30,748) |) | 245,838 |
| Interest expense | | | | | | | | (19,247) |
| Pension plan termination expense | | | | | | | | (17,835) |
| Environmental expense | | | | | | | | (4,454) |
| Other income, net | | | | | | | | 4,887 |
| Income before income taxes | | | | | | | \$ | 209,189 |

Segment information (continued):

| | For the Year Ended December 28, 2019 | | | | | | | | | |
|--|--------------------------------------|-----------|-------------------|---------|----------|---------|-------------------------------|----------|----|-----------|
| (In thousands) | Piping Systems | | Industrial Metals | | Climate | | Corporate and Eliminations | | | Total |
| Net sales | \$ | 1,542,456 | \$ | 554,372 | \$ | 356,216 | \$ | (22,428) | \$ | 2,430,616 |
| Cost of goods sold | | 1,313,980 | | 473,010 | | 273,850 | | (25,230) | | 2,035,610 |
| Depreciation and amortization | | 22,621 | | 7,489 | | 9,298 | | 3,285 | | 42,693 |
| Selling, general, and administrative expense | | 75,170 | | 12,359 | | 30,385 | | 44,444 | | 162,358 |
| (Gain) loss on sale of assets, net | | (1,194) | | 275 | | (44) | | | | (963) |
| Insurance recovery | | | | (485) | <u> </u> | | | | | (485) |
| Operating income | | 131,879 | | 61,724 | | 42,727 | | (44,927) | | 191,403 |
| Interest expense | | | | | | | | | | (25,683) |
| Environmental expense | | | | | | | | | | (1,321) |
| Other income, net | | | | | | | | | | 1,684 |
| Income before income taxes | | | | | | | | | \$ | 166,083 |

| | For the Year Ended December 29, 2018 | | | | | | | | | |
|--|--------------------------------------|----------------|----|-------------------|----|---------|----|-------------------------------|----|-----------|
| (In thousands) | | Piping Systems | | Industrial Metals | | Climate | | Corporate and Eliminations | | Total |
| Net sales | \$ | 1,645,633 | \$ | 651,061 | \$ | 229,069 | \$ | (17,885) | \$ | 2,507,878 |
| Cost of goods sold | | 1,426,729 | | 559,367 | | 182,456 | | (18,152) | | 2,150,400 |
| Depreciation and amortization | | 23,304 | | 7,568 | | 5,569 | | 3,114 | | 39,555 |
| Selling, general, and administrative expense | | 74,864 | | 13,501 | | 16,926 | | 43,597 | | 148,888 |
| Gain on sale of assets, net | | (2,093) | | (1,301) | | _ | | 3,141 | | (253) |
| Insurance recovery | | — | | (3,681) | | — | | — | | (3,681) |
| Operating income | | 122,829 | | 75,607 | | 24,118 | | (49,585) | | 172,969 |
| Interest expense | | | | | | | | | | (25,199) |
| Environmental expense | | | | | | | | | | (1,320) |
| Other income, net | | | | | | | | | | 3,967 |
| Income before income taxes | | | | | | | | | \$ | 150,417 |

Summarized geographic information is as follows:

| (In thousands) | | 2020 | | 2019 | | 2018 |
|--|----------|-----------|----|-----------|----|-----------|
| Net sales: | | | | | | |
| United States | \$ | 1,765,810 | \$ | 1,775,321 | \$ | 1,820,857 |
| United Kingdom | | 207,754 | | 230,791 | | 245,458 |
| Canada | | 293,776 | | 285,720 | | 292,798 |
| Asia | | 58,256 | | 64,363 | | 59,730 |
| Mexico | | 72,447 | | 74,421 | | 89,035 |
| | \$ | 2,398,043 | \$ | 2,430,616 | \$ | 2,507,878 |
| (In thousands) | | 2020 | | 2019 | | 2018 |
| Long-lived assets: | | | | | | |
| United States | \$ | 289,508 | \$ | 286,727 | \$ | 295,735 |
| United Kingdom | | 30,872 | | 18,776 | | 16,313 |
| Canada | | 29,582 | | 31,429 | | 33,144 |
| Asia | | 26,107 | | 25,637 | | 24,930 |
| Mexico | | 503 | | 559 | | 511 |
| | \$ | 376,572 | \$ | 363,128 | \$ | 370,633 |
| (In thousands) | | 2020 | | 2019 | | 2018 |
| Expenditures for long-lived assets (including those resulting from business acquisitions): | | | | | | |
| Piping Systems | \$ | 39,209 | \$ | 15,505 | \$ | 31,362 |
| Industrial Metals | Ψ | 5,968 | Ψ | 9,101 | Ψ | 8,066 |
| Climate | | 5,521 | | 3,845 | | 85,471 |
| General Corporate | | 448 | | 2,711 | | 37 |
| | \$ | 51,146 | \$ | 31,162 | \$ | 124,936 |
| | | | | | | |
| Segment assets: | . | | • | | • | |
| Piping Systems | \$ | 977,937 | \$ | 796,262 | \$ | 818,303 |
| Industrial Metals | | 152,683 | | 161,904 | | 173,725 |
| Climate | | 258,668 | | 249,853 | | 246,851 |
| General Corporate | | 139,280 | | 162,921 | | 130,670 |
| | \$ | 1,528,568 | \$ | 1,370,940 | \$ | 1,369,549 |



Note 4 - Cash, Cash Equivalents, and Restricted Cash

| (In thousands) | 2020 | 2019 |
|--|------------------|--------|
| Cash & cash equivalents | \$ 119,075 \$ | 97,944 |
| Restricted cash included within other current assets | 8,198 | _ |
| Restricted cash included within other assets | 103 | 98 |
| | | |
| Total cash, cash equivalents, and restricted cash | \$ 127,376 \$ | 98,042 |

Note 5 – Inventories

| (In thousands) | 2020 | 2019 |
|----------------------------|---------------|---------------|
| Raw materials and supplies | \$ 85,927 | \$ 85,769 |
| Work-in-process | 49,361 | 48,814 |
| Finished goods | 186,785 | 163,842 |
| Valuation reserves | (7,071) | (6,318) |
| | | |
| Inventories | \$ 315,002 | \$ 292,107 |

Inventories valued using the LIFO method totaled \$17.3 million at December 26, 2020 and \$16.8 million at December 28, 2019. At December 26, 2020 and December 28, 2019, the approximate FIFO cost of such inventories was \$108.1 million and \$87.8 million, respectively. Additionally, the Company values certain inventories on an average cost basis.

At the end of 2020 and 2019, the FIFO value of inventory consigned to others was \$6.4 million and \$5.5 million, respectively.

Note 6 - Consolidated Financial Statement Details

Other Current Liabilities

Included in other current liabilities as of December 26, 2020 and December 28, 2019 were the following: (i) accrued discounts, allowances, and customer rebates of \$6.0 million and \$53.9 million, respectively, (ii) accrued interest of \$5.4 million and \$6.0 million, respectively, (iii) current taxes payable of \$6.3 million and \$4.7 million, respectively, (iv) current environmental liabilities of \$2.7 million and \$0.9 million, respectively, and (v) net loss positions on derivative contracts of \$6.3 million and \$0.2 million, respectively. In addition, as of December 26, 2020 and December 28, 2019 this included accruals for excise tax of \$6.4 million resulting from the termination of the U.S. defined benefit pension plan and contingent consideration arrangements associated with acquired businesses of \$7.0 million, respectively.

Other Income, Net

| (In thousands) | 2020 | 2019 | 2018 |
|-----------------------------|-------------|-------------|-------------|
| Net periodic benefit income | \$ 3,013 | \$ 465 | \$ 2,914 |
| Interest income | 1,101 | 722 | 624 |
| Other | 773 | 497 | 429 |
| | | | |
| Other income, net | \$ 4,887 | \$ 1,684 | \$ 3,967 |

Note 7 - Derivative Instruments and Hedging Activities

The Company's earnings and cash flows are subject to fluctuations due to changes in commodity prices, foreign currency exchange rates, and interest rates. The Company uses derivative instruments such as commodity futures contracts, foreign currency forward contracts, and interest rate swaps to manage these exposures.

Commodity Futures Contracts

Copper and brass represent the largest component of the Company's variable costs of production. The cost of these materials is subject to global market fluctuations caused by factors beyond the Company's control. The Company occasionally enters into forward fixed-price arrangements with certain customers; the risk of these arrangements is generally managed with commodity futures contracts. These futures contracts have been designated as cash flow hedges.

At December 26, 2020, the Company held open futures contracts to purchase approximately \$.4 million of copper over the next12 months related to fixed price sales orders. The fair value of those futures contracts was a \$1.2 million net gain position, which was determined by obtaining quoted market prices (level 1 within the fair value hierarchy). In the next 12 months, the Company will reclassify into earnings realized gains or losses relating to cash flow hedges. At December 26, 2020, this amount was approximately \$0.8 million of deferred net gains, net of tax.

The Company may also enter into futures contracts to protect the value of inventory against market fluctuations. At December 26, 2020, the Company held open futures contracts to sell approximately 49.4 million of copper over the next five months related to copper inventory. The fair value of those futures contracts was a 3.8 million net loss position, which was determined by obtaining quoted market prices (level 1 within the fair value hierarchy).

The Company presents its derivative assets and liabilities in the Consolidated Balance Sheets on a net basis by counterparty. The following table summarizes the location and fair value of the derivative instruments and disaggregates the net derivative assets and liabilities into gross components on a contract-by-contract basis:

| | | Asset Derivatives | | | | Liability Derivatives | | | | |
|------------------------------|---------------------------|-------------------|------------|----|-------|---------------------------|------------|---------|----|-------|
| | | | Fair Value | | | | Fair Value | | | |
| (In thousands) | Balance Sheet Location | | 2020 | | 2019 | Balance Sheet Location | | 2020 | | 2019 |
| Commodity contracts - gains | Other current assets | \$ | 1,213 | \$ | 1,435 | Other current liabilities | \$ | 68 | \$ | 50 |
| Commodity contracts - losses | Other current assets | | (8) | | (12) | Other current liabilities | | (5,863) | | (159) |
| Total derivatives (1) | | \$ | 1,205 | \$ | 1,423 | _ | \$ | (5,795) | \$ | (109) |

(1) Does not include the impact of cash collateral provided to counterparties.

The following table summarizes the effects of derivative instruments on the Consolidated Statements of Income:

| (In thousands) | Location | 2020 | 2019 |
|---|--------------------|---------------|----------|
| Undesignated derivatives: (Loss) gain on commodity contracts (nonqualifying) | Cost of goods sold | \$ (8,893) | \$ 2,443 |

The following tables summarize amounts recognized in and reclassified from AOCI during the period:

| | | Year Ended December 26, 2020 | | |
|---------------------|---|-------------------------------|----------------|--|
| (In thousands) | Loss Recognized in AOCI (Effective Portion), Net of Tax | Classification Gains (Losses) | fro (Effect | Reclassified m AOCI ive Portion), et of Tax |
| Cash flow hedges: | ¢ (1.570) | | 0 | 5 001 |
| Commodity contracts | \$ (4,579) | - | \$ | 5,091 |
| Other | (4) | Other | | |
| | | | | |
| Total | \$ (4,583) | Total | \$ | 5,091 |
| | | - | | |
| | | | | |
| | | Year Ended December 28, 2019 | | |
| (In thousands) | Gain Recognized in AOCI (Effective Portion), Net of Tax | Classification Gains (Losses) | fro (Effect | Reclassified m AOCI ive Portion), et of Tax |
| Cash flow hedges: | | | | |
| Commodity contracts | \$ 1,161 | Cost of goods sold | \$ | (486) |
| Other | 15 | Other | | |
| | | - | | |
| Total | \$ 1,176 | Total | \$ | (486) |

The Company enters into futures and forward contracts that closely match the terms of the underlying transactions. As a result, the ineffective portion of the qualifying open hedge contracts through December 26, 2020 was not material to the Consolidated Statements of Income.

The Company primarily enters into International Swaps and Derivatives Association master netting agreements with major financial institutions that permit the net settlement of amounts owed under their respective derivative contracts. Under these master netting agreements, net settlement generally permits the Company or the counterparty to determine the net amount payable for contracts due on the same date and in the same currency for similar types of derivative transactions. The master netting agreements generally also provide for net settlement of all outstanding contracts with the counterparty in the case of an event of default or a termination event. The Company does not offset fair value amounts for derivative instruments and fair value amounts recognized for the right to reclaim cash collateral. At December 26, 2020 and December 28, 2019, the Company had recorded restricted cash in other current assets of \$7.6 million and \$0.2 million, respectively, as collateral related to open derivative contracts under the master netting arrangements.

Note 8 - Leases

The Company leases certain facilities, vehicles, and equipment which expire on various dates through 2032. The following table includes supplemental information with regards to the Company's operating leases:

| (In thousands, except lease term and discount rate) | December 26, 2020 | December 28, 2019 |
|--|-------------------|-------------------|
| Operating lease right-of-use assets | \$ 29,301 | \$ 26,922 |
| Current portion of operating lease liabilities Noncurrent operating lease liabilities | 6,259 | 5,250 22,388 |
| Total operating lease liabilities | \$ 27,861 | \$ 27,638 |
| Weighted average discount rate | 3.91% | 5.82% |
| Weighted average remaining lease term (in years) | 5.99 | 8.35 |

Some of the Company's leases include variable lease costs such as taxes, insurance, etc. These costs are immaterial for disclosure.

The following table presents certain information related to operating lease costs and cash paid during the period:

| | | For the Y | ear Ended | | |
|--|-------|--------------|-----------|-------------|--|
| (In thousands) | Decem | ber 28, 2019 | Decembe | er 28, 2019 | |
| Operating lease costs | \$ | 7,039 | \$ | 6,818 | |
| Short term lease costs | ψ | 4,734 | φ | 4,951 | |
| | ¢ | 11 772 | ¢ | 11.7(0) | |
| Total lease costs | \$ | 11,773 | \$ | 11,769 | |
| Cash paid for amounts included in the measurement of lease liabilities | \$ | 7,040 | \$ | 6,703 | |

Maturities of the Company's operating leases are as follows:

| (In thousands) | Amount |
|------------------------------|----------------|
| 2021 | ф т ого |
| 2021 | \$ 7,353 |
| 2022 | 6,489 |
| 2023 | 4,553 |
| 2024 | 3,382 |
| 2025 | 2,376 |
| 2026 and thereafter | 7,254 |
| Total lease payments | 31,407 |
| Less imputed interest | (3,546) |
| Total lease obligations | 27,861 |
| Less current obligations | (6,259) |
| | |
| Noncurrent lease obligations | \$ 21,602 |

Note 9 - Property, Plant, and Equipment, Net

| (In thousands) | 2020 | | 2019 |
|-------------------------------------|--------|---------|-----------|
| Land and land improvements | \$ 33 | 602 \$ | 31,987 |
| Buildings | 218 | ,319 | 203,762 |
| Machinery and equipment | 658 | ,613 | 640,642 |
| Construction in progress | 28 | 631 | 18,920 |
| | | | |
| | 939 | ,165 | 895,311 |
| Less accumulated depreciation | (562 | 593) | (532,183) |
| | | | |
| Property, plant, and equipment, net | \$ 376 | ,572 \$ | 363,128 |

Depreciation expense for property, plant, and equipment was \$38.7 million in 2020, \$37.3 million in 2019, and \$35.1 million in 2018.

Note 10 - Goodwill and Other Intangible Assets

Goodwill

The changes in the carrying amount of goodwill by segment were as follows:

| (In thousands) | Piping S | ystems | Industrial Metals | | Climate | Total |
|--------------------------------|----------|----------|-------------------|----|---------|----------------|
| Goodwill | \$ | 168,700 | \$ 8,854 | \$ | 22,186 | \$ 199,740 |
| Accumulated impairment charges | | (40,552) | (8,853 |) | | (49,405) |
| Balance at December 29, 2018: | | 128,148 | 1 | | 22,186 | 150,335 |
| Additions ⁽¹⁾ | | 1.000 | | | | 1 000 |
| Reductions ⁽²⁾ | | 1,999 | | | (534) | 1,999 (534) |
| Currency translation | | 1,476 | | | | 1,476 |
| Balance at December 28, 2019: | | 131,623 | 1 | | 21,652 | 153,276 |
| Additions | | 11,710 | _ | | 1,964 | 13,674 |
| Currency translation | | 814 | | | | 814 |
| Balance at December 26, 2020: | | | | | | |
| Goodwill | | 184,699 | 8,854 | | 23,616 | 217,169 |
| Accumulated impairment charges | | (40,552) | (8,853 |) | | (49,405) |
| Goodwill, net | \$ | 144,147 | \$ 1 | \$ | 23,616 | \$ 167,764 |

 $^{(1)}$ Includes finalization of the purchase price allocation adjustment for Die-Mold of $\mathfrak{D}.0$ million.

⁽²⁾ Includes finalization of the purchase price allocation adjustment for ATCO of \$0.5 million.

Reporting units with recorded goodwill include Domestic Piping Systems Group, B&K LLC, Great Lakes, Heatlink Group, Die-Mold, European OperationsJungwoo-Mueller, Westermeyer, Turbotec, ATCO, and Shoals . Several factors give rise to goodwill in the Company's acquisitions, such as the expected benefit from synergies of the combination and the existing workforce of the acquired businesses. There were no impairment charges resulting from the 2020, 2019, or 2018 annual impairment tests as the estimated fair value of each of the reporting units exceeded its carrying value.

Other Intangible Assets

The carrying amount of intangible assets at December 26, 2020 was as follows:

| (In thousands) | | Gross Carrying Amount | | | | | | | |
|--------------------------|----|--------------------------|----|----------|----|--------|--|--|--|
| Customer relationships | \$ | 61,068 | \$ | (11,676) | \$ | 49,392 | | | |
| Non-compete agreements | | 2,689 | | (2,527) | | 162 | | | |
| Patents and technology | | 22,585 | | (5,672) | | 16,913 | | | |
| Trade names and licenses | | 14,631 | | (4,476) | | 10,155 | | | |
| Other | | 1,676 | | (1,091) | | 585 | | | |
| | | | | | | | | | |
| Other intangible assets | \$ | 102,649 | \$ | (25,442) | \$ | 77,207 | | | |
| | | | | | - | | | | |



The carrying amount of intangible assets at December 28, 2019 was as follows:

| (In thousands) | Gross Carrying Amount | | Accumulated Amortization | | Net Carrying Amount | |
|--------------------------|--------------------------|--------|-----------------------------|----------|------------------------|--------|
| Customer relationships | \$ | 44,832 | \$ | (8,773) | \$ | 36,059 |
| Non-compete agreements | | 2,499 | | (2,156) | | 343 |
| Patents and technology | | 19,804 | | (4,060) | | 15,744 |
| Trade names and licenses | | 10,155 | | (3,249) | | 6,906 |
| Other | | 1,676 | | (646) | | 1,030 |
| | | | | | _ | |
| Other intangible assets | \$ | 78,966 | \$ | (18,884) | \$ | 60,082 |

Amortization expense for intangible assets was \$6.1 million in 2020, \$5.4 million in 2019, and \$4.4 million in 2018. Future amortization expense is estimated as follows:

| (In thousands) | Amount | |
|-------------------------------|----------|------|
| 2021 | \$ 6,39 | 93 |
| 2022 | 6,31 | \$11 |
| 2023 | 6,00 | 000 |
| 2024 | 5,76 | /69 |
| 2025 | 5,74 | |
| Thereafter | 46,99 | 191 |
| | | |
| Expected amortization expense | \$ 77,20 | :07 |

Note 11 – Investments in Unconsolidated Affiliates

Tecumseh

The Company owns a 50 percent interest in an unconsolidated affiliate that acquired Tecumseh. The Company also owns a 50 percent interest in a second unconsolidated affiliate that provides financing to Tecumseh. Tecumseh is a global manufacturer of hermetically sealed compressors for residential and specialty air conditioning, household refrigerators and freezers, and commercial refrigeration applications, including air conditioning and refrigeration compressors, as well as condensing units, heat pumps, and complete refrigeration systems.

The following tables present summarized financial information derived from the Company's equity method investees' combined consolidated financial statements, which are prepared in accordance with U.S. GAAP.

| (In thousands) | 2020 | 20 | 019 |
|------------------------|--------|---------|----------|
| Current assets | \$ 167 | ,451 \$ | 198,559 |
| Noncurrent assets | 78 | ,241 | 87,218 |
| Current liabilities | 120 | ,202 | 147,801 |
| Noncurrent liabilities | 50 | ,020 | 51,219 |
| | | | |
| Net sales | \$ 384 | ,919 \$ | 488,270 |
| Gross profit | 50 | ,347 | 58,494 |
| Net loss | (20 | 892) | (44,053) |
| Gross profit | 50 | ,347 | 58,49 |

The Company's loss from unconsolidated affiliates, net of foreign tax, for 2020 and 2019 included net losses of \$10.4 million and \$22.0 million, respectively, for Tecumseh.

Mueller Middle East

On December 30, 2015, the Company entered into a joint venture agreement with Cayan Ventures and Bahrain Mumtalakat Holding Company to build a copper tube mill in Bahrain. The business operates and brands its products under the Mueller Industries family of brands. The Company has invested approximately \$5.0 million of cash to date and is the technical and marketing lead with a 40 percent ownership in the joint venture.

The Company's loss from unconsolidated affiliates, net of foreign tax, for 2020 and 2019 included net gains of \$0.2 million and net losses of \$2.6 million, respectively, for Mueller Middle East.

Mueller Middle East manufactures and sells copper coils to certain Mueller subsidiaries. For the year ended December 26, 2020, total sales to Mueller subsidiaries were approximately \$37.4 million.

Note 12 – Debt

| (In thousands) | 2020 | | 2019 |
|--|------|----------|---------------|
| Subordinated Debentures with interest at 6.00%, due 2027 | \$ | 284,479 | \$ 284,479 |
| Revolving Credit Facility with interest at 1.52%, due 2021 | | 35,000 | 90,000 |
| Jungwoo-Mueller credit facility with interest at 1.90%, due 2021 | | 5,811 | |
| Jungwoo-Mueller credit facility with interest at 2.55%, due 2020 | | _ | 5,768 |
| 2001 Series IRB's with interest at 1.14%, due 2021 | | 250 | 1,250 |
| Other | | 2,555 | 5,295 |
| | | 328,095 | 386,792 |
| | | | |
| Less debt issuance costs | | (219) | (538) |
| Less current portion of debt | | (41,283) | (7,530) |
| | | | |
| Long-term debt | \$ | 286,593 | \$ 378,724 |

Subordinated Debentures

On March 9, 2017, the Company distributed a special dividend of \$3.00 in cash and \$5.00 in principal amount of the Company's 6% Subordinated Debentures (Debentures) due March 1, 2027 for each share of common stock outstanding. Interest on the Debentures is payable semiannually on September 1 and March 1.

The Debentures are subordinated to all other funded debt of the Company and are callable, in whole or in part, at any time at the option of the Company, subject to declining call premiums during the first five years. The Debentures also grant each holder the right to require the Company to repurchase such holder's Debentures in the event of a change in control at declining repurchase premiums during the first five years. The Debentures may be redeemed, subject to the conditions set forth above, at

the following redemption price (expressed as a percentage of principal amount) plus any accrued but unpaid interest to, but excluding, the redemption date:

If redeemed during the 12-month period beginning March 9:

| Year | Redemption Price |
|---------------------|------------------|
| | |
| 2020 | 103% |
| 2021 | 102 |
| 2022 and thereafter | 100 |

Revolving Credit Facility

The Company's Credit Agreement provides for an unsecured \$350.0 million revolving credit facility (Revolving Credit Facility) that matures on December 6, 2021. Borrowings under the Revolving Credit Facility bear interest, at the Company's option, at LIBOR or Base Rate as defined by the Credit Agreement, plus a variable premium. LIBOR advances may be based upon the one, three, or six-month LIBOR. The variable premium is based upon the Company's debt to total capitalization ratio, and can range from 112.5 to 162.5 basis points for LIBOR based loans and 12.5 to 62.5 basis points for Base Rate loans. At December 26, 2020, the premium was 137.5 basis points for LIBOR loans and 37.5 basis points for Base Rate loans. Additionally, a commitment fee is payable quarterly on the total commitment less any outstanding loans or issued letters of credit, and varies from 15.0 to 30.0 basis points based upon the Company's debt to total capitalization ratio. Availability of funds under the Revolving Credit Facility is reduced by the amount of certain outstanding letters of credit, which are used to secure the Company's payment of insurance deductibles and certain retiree health benefits, totaling approximately \$19.4 million at December 26, 2020. Terms of the letters of credit are generally renewable annually.

Jungwoo-Mueller

Jungwoo-Mueller has several secured revolving credit arrangements with a total borrowing capacity of KRW25.8 billion (or approximately \$23.5 million). Borrowings are secured by the real property and equipment of Jungwoo-Mueller.

Covenants contained in the Company's financing obligations require, among other things, the maintenance of minimum levels of tangible net worth and the satisfaction of certain minimum financial ratios. At December 26, 2020, the Company was in compliance with all debt covenants.

Aggregate annual maturities of the Company's debt are as follows:

| (In thousands) | Amount |
|----------------|---------------|
| 2021 | \$ 41,283 |
| 2022 | 222 |
| 2023 | 222 |
| 2024 | 222 |
| 2025 | 167 |
| Thereafter | 285,979 |
| | |
| Long-term debt | \$ 328,095 |



Net interest expense consisted of the following:

| (In thousands) | 2020 | 2019 | 2018 |
|----------------------|--------------|--------------|--------------|
| Interest expense | \$ 19,510 | \$ 25,957 | \$ 25,349 |
| Capitalized interest | (263) | (274) | (150) |
| | | | |
| | \$ 19,247 | \$ 25,683 | \$ 25,199 |

Interest paid in 2020, 2019, and 2018 was \$19.8 million, \$25.4 million, and \$25.2 million, respectively.

Note 13 – Benefit Plans

Pension and Other Postretirement Plans

The Company sponsors several qualified and nonqualified pension plans and other postretirement benefit plans for certain employees. The following tables provide a reconciliation of the changes in the most significant plans' benefit obligations and the fair value of the plans' assets for 2020 and 2019, and a statement of the plans' aggregate funded status:

| | Pension Benefits | | | | | Other Benefits | | | |
|--|------------------|----|---------|----|----------|----------------|---------|--|--|
| (In thousands) | 2020 | | 2019 | | 2020 | | 2019 | | |
| Change in benefit obligation: | | | | | | | | | |
| Obligation at beginning of year | \$ 182,164 | \$ | 166,739 | \$ | 12,653 | \$ | 14,382 | | |
| Service cost | _ | | _ | | 212 | | 260 | | |
| Interest cost | 3,260 | | 5,972 | | 430 | | 609 | | |
| Actuarial loss (gain) | 10,790 | | 17,061 | | 422 | | (1,860 | | |
| Plan amendments | _ | | | | (26) | | | | |
| Benefit payments | (9,214) | | (9,883) | | (716) | | (832 | | |
| Curtailment | _ | | _ | | (183) | | _ | | |
| Settlement ⁽¹⁾ | (99,585) | | _ | | _ | | (198 | | |
| Foreign currency translation adjustment | 3,394 | | 2,275 | | (10) | | 292 | | |
| Obligation at end of year | 90,809 | | 182,164 | | 12,782 | | 12,653 | | |
| Change in fair value of plan assets: | | | | | | | | | |
| Fair value of plan assets at beginning of year | 183,486 | | 164,603 | | — | | _ | | |
| Actual return on plan assets | 13,313 | | 26,734 | | _ | | _ | | |
| Employer contributions | _ | | _ | | 716 | | 832 | | |
| Benefit payments | (9,214) | | (9,883) | | (716) | | (832 | | |
| Settlement ⁽¹⁾ | (99,585) | | _ | | _ | | | | |
| Surplus assets ⁽¹⁾ | (12,386) | | _ | | _ | | | | |
| Foreign currency translation adjustment | 2,866 | | 2,032 | | | | | | |
| Fair value of plan assets at end of year | 78,480 | | 183,486 | | | | _ | | |
| Funded (underfunded) status at end of year | \$ (12,329) | \$ | 1,322 | \$ | (12,782) | \$ | (12,653 | | |

(1) In November 2019, the Company's Board of Directors approved the termination of the U.S. defined benefit pension plan. There were no impacts to consolidated results for 2019. Settlement accounting criteria was met in Q4 2020, therefore, all resulting settlement charges occurred in 2020. The plan termination resulted in incremental benefit payments of approximately \$100.0 million and termination costs of \$17.8 million, which consisted of an \$11.6 million non-cash



settlement charge and \$6.2 million in federal excise tax on surplus assets returned to the Company of approximately \$12.4 million, as of December 26, 2020.

The following represents amounts recognized in AOCI (before the effect of income taxes):

| | Pension Benefits | | Other B | enefits | |
|--|------------------|--------|--------------|---------------|------------|
| (In thousands) | | 2020 | 2019 | 2020 | 2019 |
| | | | | | |
| Unrecognized net actuarial loss (gain) | \$ | 26,476 | \$ 36,195 | \$ (1,187) | \$ (1,609) |
| Unrecognized prior service credit | | | — | (2,401) | (5,485) |

The Company sponsors one pension plan in the U.K. which comprised100 and 43 percent of the above benefit obligation at December 26, 2020 and December 28, 2019, respectively, and 100 and 39 percent of the above plan assets at December 26, 2020 and December 28, 2019, respectively.

As of December 26, 2020, \$0.9 million of the actuarial net loss and the remainder of the prior service credit will, through amortization, be recognized as components of net periodic benefit cost in 2021.

The aggregate status of all overfunded plans is recognized as an asset and the aggregate status of all underfunded plans is recognized as a liability in the Consolidated Balance Sheets. The amounts recognized as a liability are classified as current or long-term on a plan-by-plan basis. Liabilities are classified as current to the extent the actuarial present value of benefits payable within the next 12 months exceeds the fair value of plan assets, with all remaining amounts classified as long-term.

As of December 26, 2020 and December 28, 2019, the total funded status of the plans recognized in the Consolidated Balance Sheets was as follows:

| | Pension Benefits | | | | | Other Benefits | | |
|-----------------------------------|------------------|----------|----|---------|----|----------------|------------|--|
| (In thousands) | | 2020 | | 2019 | | 2020 | 2019 | |
| Long-term asset | \$ | _ | \$ | 8,592 | \$ | — 9 | s — | |
| Current liability | Ψ | _ | Ψ | | Ψ | (948) | (1,013) | |
| Long-term liability | | (12,329) | | (7,270) | | (11,834) | (11,640) | |
| | | | | | | | | |
| Total (underfunded) funded status | \$ | (12,329) | \$ | 1,322 | \$ | (12,782) | 6 (12,653) | |

The components of net periodic benefit cost (income) are as follows:

| (In thousands) | _ | 2020 | 2019 | 2018 |
|--------------------------------------|----|---------|-------------|---------------|
| Pension benefits: | | | | |
| Service cost | \$ | | \$ — | \$ 88 |
| Interest cost | | 3,260 | 5,972 | 5,745 |
| Expected return on plan assets | | (5,704) | (8,103) | (9,522) |
| Amortization of net loss | | 2,305 | 1,950 | 1,151 |
| Settlement charge | | 11,642 | _ | |
| | | | | |
| Net periodic benefit cost (income) | \$ | 11,503 | \$ (181) | \$ (2,538) |
| | | | | |
| Other benefits: | | | | |
| Service cost | \$ | 212 | \$ 260 | \$ 235 |
| Interest cost | | 430 | 609 | 447 |
| Amortization of prior service credit | | (519) | (902) | (902) |
| Amortization of net (gain) loss | | (193) | (88) | 92 |
| Curtailment gain | | (2,591) | _ | _ |
| Settlement charge | | _ | (2) | 38 |
| | | | | |
| Net periodic benefit income | \$ | (2,661) | \$ (123) | \$ (90) |

During 2020, the Company recognized a curtailment gain of \$2.6 million related to one of its postretirement benefit plans.

The components of net periodic benefit cost (income) other than the service cost component are included in other income, net in the Consolidated Statements of Income.

The weighted average assumptions used in the measurement of the Company's benefit obligations are as follows:

| | Pension Ben | efits | Other Benefits | | |
|--|-------------|--------|----------------|--------|--|
| | 2020 2019 | | 2020 | 2019 | |
| | | | | | |
| Discount rate | 1.40 % | 1.93 % | 2.92 % | 3.70 % | |
| Expected long-term return on plan assets | 4.69 % | 3.84 % | N/A | N/A | |
| Rate of compensation increases | N/A | N/A | 5.00 % | 5.00 % | |
| Rate of inflation | 3.20 % | 3.20 % | N/A | N/A | |

The weighted average assumptions used in the measurement of the Company's net periodic benefit cost are as follows:

| | Pension Benefits | | | Other Benefits | | | | |
|-----------------------------------|------------------|--------|--------|----------------|--------|--------|--|--|
| | 2020 | 2019 | 2018 | 2020 | 2019 | 2018 | | |
| | | | | | | | | |
| Discount rate | 1.93 % | 3.72 % | 3.22 % | 3.70 % | 4.56 % | 3.89 % | | |
| Expected long-term return on plan | | | | | | | | |
| assets | 3.84 % | 5.05 % | 5.27 % | N/A | N/A | N/A | | |
| Rate of compensation increases | N/A | N/A | N/A | 5.00 % | 5.00 % | 5.00 % | | |
| Rate of inflation | 3.20 % | 3.40 % | 3.30 % | N/A | N/A | N/A | | |

The Company's Mexican postretirement plans use the rate of compensation increase in the benefit formulas. Past service in the U.K. pension plan will be adjusted for the effects of inflation. All other pension and postretirement plans use benefit formulas based on length of service.

The annual assumed rate of increase in the per capita cost of covered benefits (i.e., health care cost trend rate) is assumed to range from 4.3 to 8.7 percent for 2021, gradually decrease to 4.1 percent through 2040, and remain at that level thereafter. The health care cost trend rate assumption does not have a significant effect on the amounts reported.

Pension Assets

The weighted average asset allocation of the Company's pension fund assets are as follows:

| | Pension Plan | Assets |
|--|--------------|--------|
| Asset category | 2020 | 2019 |
| | | |
| Fixed income securities (includes fixed income mutual funds) | <u> </u> | 55 % |
| Equity securities (includes equity mutual funds) | 66 | 25 |
| Multi-asset securities | 24 | 9 |
| Cash and equivalents (includes money market funds) | 1 | 7 |
| Alternative investments | 9 | 4 |
| | | |
| Total | 100 % | 100 % |

At December 26, 2020, the long-term target allocation, by asset category, of assets of the Company's defined benefit pension plans was: (i) equity securities and multi-asset securities, including equity index funds – not less than 70 percent; and (ii) alternative investments – not more than 10 percent.

The pension plan obligations are long-term and, accordingly, the plan assets are invested for the long-term. Plan assets are monitored periodically. Based upon results, investment managers and/or asset classes are redeployed when considered necessary. None of the plans' assets are expected to be returned to the Company during the next fiscal year. The assets of the plans do not include investments in securities issued by the Company.

The estimated rates of return on plan assets are the expected future long-term rates of earnings on plan assets and are forward-looking assumptions that materially affect pension cost. Establishing the expected future rates of return on pension assets is a judgmental matter. The Company reviews the expected long-term rates of return on an annual basis and revises as appropriate. The expected long-term rate of return on plan assets was 4.69 percent for 2020 and 3.84 percent in 2019.

The Company's investments for its pension plans are reported at fair value. The following methods and assumptions were used to estimate the fair value of the Company's plan asset investments:

Cash and money market funds - Valued at cost, which approximates fair value.

Mutual funds - Valued at the net asset value of shares held by the plans at December 26, 2020 and December 28, 2019, respectively, based upon quoted market prices.

Limited partnerships – Limited partnerships include investments in various Cayman Island multi-strategy hedge funds. The plans' investments in limited partnerships are valued at the estimated fair value of the class shares owned by the plans based upon the equity in the estimated fair value of those shares. The estimated fair values of the limited partnerships are determined by the investment managers. In determining fair value, the investment managers of the limited partnerships utilize the estimated net asset valuations of the underlying investment entities. The underlying investment entities value securities and other financial instruments on a mark-to-market or estimated fair value basis. The estimated fair value is determined by the investment managers based upon, among other things, the type of investments, purchase price, marketability, current financial condition, operating results, and other information. The estimated fair values of substantially all of the investment of the underlying investment entities and may include securities for which prices are not readily available, are determined by the investment managers or management of the respective underlying investment entities and may not reflect amounts that could be realized upon immediate sale. Accordingly, the estimated fair values may differ significantly from the values that would have been used had a ready market existed for these investments.

The following table sets forth by level, within the fair value hierarchy, the assets of the plans at fair value:

| | | Fair Value Measurements at December 26, 2020 | | | | | | | | | | |
|--|-----------|--|-----------|---------------|------------|---------------|----|-------------------|--|--|--|--|
| (In thousands) | Leve | 11 | Level 2 | | Level 3 | | | Total | | | | |
| Cash and money market funds | \$ | 492 | \$ | _ | \$ | | \$ | 492 | | | | |
| Mutual funds (1) | | | | 71,084 | | _ | | 71,084 | | | | |
| Limited partnerships | | _ | | | | 6,904 | | 6,904 | | | | |
| Total | <u>\$</u> | 492 | \$ | 71,084 | \$ | 6,904 | \$ | 78,480 | | | | |
| | | | Fair Valı | ie Measuremer | its at Dec | ember 28, 201 | 9 | | | | | |
| (In thousands) | Leve | 11 |] | Level 2 | I | Level 3 | | Total | | | | |
| | | | | | | | | | | | | |
| Cash and money market funds | \$ | 12,318 | \$ | _ | \$ | _ | \$ | 12,318 | | | | |
| Cash and money market funds Mutual funds ⁽²⁾ | \$ | 12,318 | \$ | 163,253 | \$ | | \$ | 12,318 163,253 | | | | |
| • | \$ | 12,318 — — | \$ | | \$ | 7,915 | \$ | , | | | | |

(1) Approximately 76 percent of mutual funds are actively managed funds and approximately 24 percent of mutual funds are index funds. Additionally, 27 percent of the mutual funds' assets are invested in non-U.S. multi-asset securities and 73 percent in non-U.S. equities.

(2) Approximately 80 percent of mutual funds are actively managed funds and approximately 20 percent of mutual funds are index funds. Additionally, 10 percent of the mutual funds' assets are invested in non-U.S. multi-asset securities, 28 percent in non-U.S. equities, 62 percent in U.S. fixed income securities.

The table below reflects the changes in the assets of the plan measured at fair value on a recurring basis using significant unobservable inputs (level 3 of fair value hierarchy) during the year ended December 26, 2020:

| (In thousands) | Limite | d Partnerships |
|--------------------------------|--------|----------------|
| Balance, December 28, 2019 | \$ | 7,915 |
| Surplus assets | | (1,104) |
| Net appreciation in fair value | | 93 |
| | | |
| Balance, December 26, 2020 | \$ | 6,904 |



Contributions and Benefit Payments

The Company does not expect to contribute to the U.K. pension plan, other than to reimburse expenses, and expects to contribute \$0.0 million to its other postretirement benefit plans in 2021. The Company expects future benefits to be paid from the plans as follows:

| (In thousands) | Pension Bene | fits | Other Benefits |
|----------------|--------------|--------|----------------|
| 2021 | \$ 3, | 428 \$ | \$ 947 |
| 2022 | 2, | 945 | 942 |
| 2023 | 3, | 050 | 1,016 |
| 2024 | 3, | 160 | 977 |
| 2025 | 3, | 273 | 974 |
| 2026-2030 | 18, | 210 | 4,700 |
| | | | |
| Total | \$ 34, |)66 \$ | \$ 9,556 |

Multiemployer Plan

The Company contributes to the IAM National Pension Fund, National Pension Plan (IAM Plan), a multiemployer defined benefit plan. Participation in the IAM Plan was negotiated under the terms of two collective bargaining agreements in Port Huron, Michigan, the Local 218 IAM and Local 44 UAW that expire on May 7, 2023 and June 26, 2022, respectively. The Employer Identification Number for this plan is 51-6031295.

The risks of participating in multiemployer plans are different from single-employer plans in the following aspects: (i) assets contributed to the multiemployer plan by one employer may be used to provide benefits to employees of other participating employers; (ii) if a participating employer stops contributing to the plan, the underfunded obligations of the plan may be borne by the remaining participating employers; (iii) if the Company chooses to stop participating in the plan, the Company may be required to pay the plan an amount based on the underfunded status of the plan, referred to as a withdrawal liability.

The Company makes contributions to the IAM Plan trusts that cover certain union employees; contributions by employees are not permitted. Contributions to the IAM Plan were approximately \$1.2 million in 2020, \$1.2 million in 2019, and \$1.3 million in 2018. The Company's contributions are less than five percent of total employer contributions made to the IAM Plan indicated in the most recently filed Form 5500.

Under the Pension Protection Act of 2006, the IAM Plan's actuary must certify the plan's zone status annually. Plans in the red zone are generally less than 65 percent funded, plans in the yellow zone are less than 80 percent funded, and plans in the green zone are at least 80 percent funded. If a plan is determined to be in endangered status, red zone or yellow zone, the plan's trustees must develop a formal plan of corrective action, a Financial Improvement Plan and/or a Rehabilitation Plan. The IAM Plan remains well-funded at over 80 percent, for 2020, and has been certified in the green zone. In 2019, although the IAM Plan was well-funded at 89 percent, it was certified in the yellow zone due to a declining credit balance. However, as a result of a challenging investment environment and the decline of the IAM Plan's credit balance, the IAM National Pension Plan Board of Trustees voluntarily elected to place the IAM Plan in the red zone. The action was taken to protect the IAM Plan's participants' core retirement benefits and strengthen the IAM Plan's financial health over the long term.

401(k) Plans

The Company sponsors voluntary employee savings plans that qualify under Section 401(k) of the Internal Revenue Code of 1986. Compensation expense for the Company's matching contribution to the 401(k) plans was \$5.7 million in 2020, \$5.4 million in 2019, and \$5.1 million in 2018. The Company match is a cash contribution. Participants direct the investment of their account balances by allocating among a range of asset classes including mutual funds (equity, fixed income, and balanced funds) and money market funds. The plans do not allow direct investment in securities issued by the Company.

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UMWA Benefit Plans

In October 1992, the Coal Industry Retiree Health Benefit Act of 1992 (1992 Act) was enacted. The 1992 Act mandates a method of providing for postretirement benefits to the United Mine Workers of America (UMWA) current and retired employees, including some retirees who were never employed by the Company. In October 1993, beneficiaries were assigned to the Company and the Company began its mandated contributions to the UMWA Combined Benefit Fund, a multiemployer trust. Beginning in 1994, the Company was required to make contributions for assigned beneficiaries under an additional multiemployer trust created by the 1992 Act, the UMWA 1992 Benefit Plan. The ultimate amount of the Company's liability under the 1992 Act will vary due to factors which include, among other things, the validity, interpretation, and regulation of the 1992 Act, its joint and several obligation, the number of valid beneficiaries assigned, and the extent to which funding for this obligation will be satisfied by transfers of excess assets from the 1950 UMWA pension plan and transfers from the Abandoned Mine Reclamation Fund. Contributions to the plan were \$ 57 thousand, \$223 thousand, and \$153 thousand for the years ended 2020, 2019, and 2018, respectively.

Note 14 - Commitments and Contingencies

Environmental

The Company is subject to federal, state, local, and foreign environmental laws and regulations. For all properties, the Company has provided and charged to expense \$4.2 million in 2020, \$1.7 million in 2019, and \$2.0 million in 2018 for pending environmental matters. Environmental reserves totaled \$24.0 million at December 26, 2020 and \$20.9 million at December 28, 2019. As of December 26, 2020, the Company expects to spend \$2.7 million in 2021, \$0.8 million in 2022, \$0.8 million in 2023, \$0.9 million in 2024, \$0.8 million in 2025, and \$18.0 million thereafter for ongoing projects.

Non-operating Properties

Southeast Kansas Sites

The Kansas Department of Health and Environment (KDHE) has contacted the Company regarding environmental contamination at three former smelter sites in Kansas (Altoona, East La Harpe, and Lanyon). The Company is not a successor to the companies that operated these smelter sites, but is exploring possible settlement with KDHE and other potentially responsible parties (PRP) in order to avoid litigation.

Altoona. Another PRP conducted a site investigation of the Altoona site under a consent decree with KDHE and submitted a removal site evaluation report recommending a remedy. The remedial design plan, which covers both on-site and certain off-site cleanup costs, was approved by the KDHE in 2016. Construction of the remedy was completed in 2018.

East La Harpe. At the East La Harpe site, the Company and two other PRPs conducted a site study evaluation under KDHE supervision and prepared a site cleanup plan approved by KDHE. In 2016, the corporate parent (Peabody Energy) of a third party that the Company understands may owe indemnification obligations to one of the other PRPs (Blue Tee) in connection with the East La Harpe site filed for protection under Chapter 11 of the U.S. Bankruptcy Code. KDHE has extended the deadline for the PRPs to develop a repository design plan to allow for wetlands permitting to take place. In December 2018, KDHE provided a draft agreement which contemplates the use of funds KDHE obtained from two other parties (Peabody Energy and Blue Tee) to fund part of the remediation, and removes Blue Tee from the PRPs' agreement with KDHE. The Company is currently negotiating the terms of the draft agreement.

Lanyon. With respect to the Lanyon Site, in 2016, the Company received a general notice letter from the United States Environmental Protection Agency (EPA) asserting that the Company is a PRP, which the Company has denied. EPA issued an interim record of decision in 2017 and has been remediating properties at the site. The Company's reserve for its proportionate share of the remediation costs associated with these three Southeast Kansas sites is \$5.6 million.

Shasta Area Mine Sites

Mining Remedial Recovery Company (MRRC), a wholly owned subsidiary, owns certain inactive mines in Shasta County, California. MRRC has continued a program, begun in the late 1980s, of implementing various remedial measures, including sealing mine portals with concrete plugs in portals that were discharging water. The sealing program achieved significant reductions in the metal load in discharges from these adits; however, additional reductions are required pursuant to an order



issued by the California Regional Water Quality Control Board (QCB). In response to a 1996 QCB Order, MRRC completed a feasibility study in 1997 describing measures designed to mitigate the effects of acid rock drainage. In December 1998, the QCB modified the 1996 order extending MRRC's time to comply with water quality standards. In September 2002, the QCB adopted a new order requiring MRRC to adopt Best Management Practices (BMP) to control discharges of acid mine drainage, and again extended the time to comply with water quality standards until September 2007. During that time, implementation of BMP further reduced impacts of acid rock drainage; however, full compliance has not been achieved. The QCB is presently renewing MRRC's discharge permit and will concurrently issue a new order. It is expected that the new 10-year permit will include an order requiring continued implementation of BMP through 2030 to address residual discharges of acid rock drainage. At this site, MRRC spent approximately \$1.7 million from 2018 through 2020 for remediation, and currently estimates that it will spend between approximately \$3.9 million and \$18.0 million over the next 30 years and has accrued a reserve at the low end of this range.

Lead Refinery Site

U.S.S. Lead Refinery, Inc. (Lead Refinery), a non-operating wholly owned subsidiary of MRRC, has conducted corrective action and interim remedial activities (collectively, Site Activities) at Lead Refinery's East Chicago, Indiana site pursuant to the Resource Conservation and Recovery Act since December 1996. Although the Site Activities have been substantially concluded, Lead Refinery is required to perform monitoring and maintenance-related activities pursuant to a post-closure permit issued by the Indiana Department of Environmental Management effective as of March 2, 2013. Lead Refinery spent approximately \$0.6 million from 2018 through 2020 with respect to this site. Approximate costs to comply with the post-closure permit, including associated general and administrative costs, are estimated at between \$1.7 million and \$2.4 million over the next 16 years. The Company has recorded a reserve at the low end of this range.

On April 9, 2009, pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the U.S. Environmental Protection Agency (EPA) added the Lead Refinery site and surrounding properties to the National Priorities List (NPL). On July 17, 2009, Lead Refinery received a written notice from the EPA indicating that it may be a PRP under CERCLA due to the release or threat of release of hazardous substances including lead into properties surrounding the Lead Refinery NPL site. The EPA identified two other PRPs in connection with that matter. In November 2012, the EPA adopted a remedy for the surrounding properties and in September 2014, the EPA announced that it had entered into a settlement with the two other PRPs whereby they will pay approximately \$26.0 million to fund the cleanup of approximately 300 properties surrounding the Lead Refinery NPL site (zones 1 and 3 of operable unit 1) and perform certain remedial action tasks.

On November 8, 2016, the Company, its subsidiary Arava Natural Resources Company, Inc. (Arava), and Arava's subsidiary MRRC each received general notice letters from the EPA asserting that they may be PRPs in connection with the Lead Refinery NPL site. The Company, Arava, and MRRC have denied liability for any remedial action and response costs associated with the Lead Refinery NPL site. In June 2017, the EPA requested that Lead Refinery conduct, and the Company fund, a remedial investigation and feasibility study of operable unit 2 of the Lead Refinery NPL site pursuant to a proposed administrative settlement agreement and order on consent. The Company and Lead Refinery entered into that agreement in September 2017. The Company has made a capital contribution to Lead Refinery to conduct the remedial investigation and feasibility study with respect to operable unit 2 and has provided financial assurance in the amount of \$1.0 million. The remedial investigation and feasibility study remain ongoing. The EPA has also asserted its position that Mueller is a responsible party for the Lead Refinery NPL site, and accordingly is responsible for a share of remedial action and response costs at the site and in the adjacent residential area.

In January 2018, the EPA issued two unilateral administrative orders (UAOs) directing the Company, Lead Refinery, and four other PRPs to conduct soil and interior remediation of certain residences at the Lead Refinery NPL site (zones 2 and 3 of operable unit 1). The Company and Lead Refinery have reached agreement with the four other PRPs to implement these two UAOs, with the Company agreeing to pay, on an interim basis, (i) an estimated \$4.5 million (subject to potential change through a future reallocation process) of the approximately \$25.0 million the PRPs estimated it would cost to implement the UAOs, which estimate is subject to change, and (ii) \$2.0 million relating to past costs incurred by other PRPs for work conducted at the site, as well as the possibility of up to \$0.7 million in further payments for ongoing work by those PRPs. As of year-end, the Company has made payments of approximately \$7.2 million related to the aforementioned agreement with the UAOs upon the completion of the work required therein. In October 2017 and March 2018, separate groups of private plaintiffs sued the Company, Arava, MRRC, and Lead Refinery, along with other defendants, in two civil tort actions relating to the site. The Company, Arava, and MRRC have been voluntarily dismissed from both litigations without prejudice, but Lead Refinery remains a party to each. At this juncture, the Company is unable to determine the likelihood of a material adverse outcome or the amount or range of a potential loss in excess of the

current reserve with respect to any remedial action or litigation relating to the Lead Refinery NPL site, either at Lead Refinery's former operating site (operable unit 2) or the adjacent residential area (operable unit 1), including, but not limited to, EPA oversight costs for which EPA may attempt to seek reimbursement from the Company, and past costs for which other PRPs may attempt to seek contribution from the Company.

Bonita Peak Mining District

Following an August 2015 spill from the Gold King Mine into the Animas River near Silverton, Colorado, the EPA listed the Bonita Peak Mining District on the NPL. Said listing was finalized in September 2016. The Bonita Peak Mining District encompasses 48 mining sites within the Animas River watershed, including the Sunnyside Mine, the American Tunnel, and the Sunbank Group. On or about July 25, 2017, Washington Mining Company (Washington Mining) (a wholly-owned subsidiary of the Company's wholly-owned subsidiary, Arava), received a general notice letter from the EPA stating that Washington Mining may be a PRP under CERCLA in connection with the Bonita Peak Mining District site and therefore responsible for the remediation of certain portions of the site, along with related costs incurred by the EPA. Shortly thereafter, the Company received a substantively identical letter asserting that it may be a PRP at the site and similarly responsible for the cleanup of certain portions of the site. The general notice letters identify one other PRP at the site, and do not require specific action by Washington Mining or the Company at this time. At this juncture, the Company is unable to determine the likelihood of a materially adverse outcome or the amount or range of a potential loss with respect to any remedial action related to the Bonita Peak Mining District NPL site.

Operating Properties

Mueller Copper Tube Products, Inc.

In 1999, Mueller Copper Tube Products, Inc. (MCTP), a wholly owned subsidiary, commenced a cleanup and remediation of soil and groundwater at its Wynne, Arkansas plant to remove trichloroethylene, a cleaning solvent formerly used by MCTP. On August 30, 2000, MCTP received approval of its Final Comprehensive Investigation Report and Storm Water Drainage Investigation Report addressing the treatment of soils and groundwater from the Arkansas Department of Environmental Quality (ADEQ). The Company established a reserve for this project in connection with the acquisition of MCTP in 1998. Effective November 17, 2008, MCTP entered into a Settlement Agreement and Administrative Order by Consent to submit a Supplemental Investigation Work Plan (SIWP) and subsequent Final Remediation Work Plan (RWP) for the site. By letter dated January 20, 2010, ADEQ approved the SIWP as submitted, with changes acceptable to the Company. On December 16, 2011, MCTP entered into an amended Administrative Order by Consent to prepare and implement a revised RWP regarding final remediation for the Site. The remediation system was activated in February 2014. Costs to implement the work plans, including associated general and administrative costs, are estimated to approximate \$0.9 million to \$1.1 million over the next five years. The Company has recorded a reserve at the low end of this range.

United States Department of Commerce Antidumping Review

On December 24, 2008, the Department of Commerce (DOC) initiated an antidumping administrative review of the antidumping duty order covering circular welded non-alloy steel pipe and tube from Mexico for the November 1, 2007 through October 31, 2008 period of review. The DOC selected Mueller Comercial as a respondent in the review. On April 19, 2010, the DOC published the final results of the review and assigned Mueller Comercial an antidumping duty rate of 48.33 percent. On May 25, 2010, the Company appealed the final results to the U.S. Court of International Trade (CIT). On December 16, 2011, the CIT issued a decision remanding the Department's final results. While the matter was still pending, the Company and the United States reached an agreement to settle the appeal. Subject to the conditions of the agreement, the Company anticipated that certain of its subsidiaries would incur antidumping duties on subject imports made during the period of review and, as such, established a reserve for this matter. After the lapse of the statutory period of time during which U.S. Customs and Border Protection (CBP) was required, but failed, to liquidate the entries at the settled rate, the Company released the reserve. Between October 30, 2015 and November 27, 2015, CBP sent a series of invoices to Southland Pipe Nipples Co., Inc. (Southland), requesting payment of approximately \$3.0 million in duties and interest in connection with 795 import entries made during the November 1, 2007 through October 31, 2008 period. On January 26, 2016 and January 27, 2016, Southland filed protests with CBP in connection with these invoices, noting that CBP's asserted claims were not made in accordance with applicable law, including statutory provisions governing deemed liquidation. The Company believes in the merits of the legal objections raised in Southland's protests, and CBP's response to Southland's protests is currently pending. Given the procedural posture and issues raised by this legal dispute, the Company cannot estimate the am



Deepwater Horizon Economic and Property Damage Claim

During 2020, Mueller Copper Tube Company, a wholly owned subsidiary of the Company, collected approximately \$22.1 million related to its claim under the Deepwater Horizon Economic and Property Damage Settlement Program. The collected amount represent settlement proceeds received after the payment of fees and expenses.

Guarantees

Guarantees, in the form of letters of credit, are issued by the Company generally to assure the payment of insurance deductibles, certain retiree health benefits, and debt at certain unconsolidated affiliates. The terms of the guarantees are generally one year but are renewable annually as required. These letters are primarily backed by the Company's revolving credit facility. The maximum payments that the Company could be required to make under its guarantees at December 26, 2020 were \$22.3 million.

Other

The Company is involved in certain litigation as a result of claims that arose in the ordinary course of business, which management believes will not have a material adverse effect on the Company's financial position, results of operations, or cash flows. It may also realize the benefit of certain legal claims and litigation in the future; these gain contingencies are not recognized in the Consolidated Financial Statements.

Note 15 – Income Taxes

The components of income before income taxes were taxed under the following jurisdictions:

| (In thousands) | — | 2020 | 2019 | 2018 |
|----------------------------|----|---------|---------------|---------------|
| Domestic | \$ | 144,770 | \$ 112,812 | \$ 105,455 |
| Foreign | | 64,419 | 53,271 | 44,962 |
| | | | | |
| Income before income taxes | \$ | 209,189 | \$ 166,083 | \$ 150,417 |

Income tax expense consists of the following:

| (In thousands) | 2020 | | 2019 | | 2018 |
|---------------------------------|-------|---------|--|----------|---------|
| Current tax expense: | | | | | |
| Federal | \$ 3 | 7,964 | \$ 19,066 | \$ | 17,974 |
| Foreign | 1 | 6,221 | 12,727 | | 9,650 |
| State and local | | 5,182 | 3,892 | | 3,158 |
| 6 | - | 0.067 | 25 (05 | | 20.702 |
| Current tax expense | 5 | 9,367 | 35,685 | | 30,782 |
| Deferred tax (benefit) expense: | | | | | |
| Federal | (: | 5,991) | 1,725 | | (1,381) |
| Foreign | | 90 | (2,311) | | 551 |
| State and local | | 1,855 | 158 | | 1,000 |
| | | | | | |
| Deferred tax (benefit) expense | (| 4,046) | (428) | | 170 |
| | | 5 0 0 1 | • • • • • • • • • • • • • • • • • • • | <i>•</i> | 20.052 |
| Income tax expense | \$ 5. | 5,321 | \$ 35,257 | \$ | 30,952 |



The difference between the reported income tax expense and a tax determined by applying the applicable U.S. federal statutory income tax rate to income before income taxes is reconciled as follows:

| (In thousands) | | 2020 | 2019 | | 2018 |
|---|----|--------|-----------|----|---------|
| Expected income tax expense | ¢ | 43,930 | \$ 34,892 | ¢ | 31,588 |
| State and local income tax, net of federal benefit | φ | 5,949 | 3,234 | φ | 3,495 |
| Effect of foreign statutory rates different from U.S. and other foreign adjustments | | 2,783 | (771) | | 759 |
| Investment in unconsolidated affiliates | | (387) | 538 | | (2,776) |
| Effect of tax on accumulated foreign earnings | | | (111) | | (4,415) |
| Other, net | | 3,046 | (2,525) | | 2,301 |
| | | | | | |
| Income tax expense | \$ | 55,321 | \$ 35,257 | \$ | 30,952 |

The Tax Cuts and Jobs Act (the Act) was enacted on December 22, 2017. The Act required companies to pay a one-time transition tax on the accumulated earnings of certain foreign subsidiaries. The Company applied the guidance in Staff Accounting Bulletin No. 118 in accounting for the enactment date effects of the Act. During the fourth quarter of 2018, the Company completed its accounting for all of the enactment-date income tax effects of the Act, and following the completion of the analysis of the calculation of the transition tax, the Company recorded a reduction to income tax expense of \$4.4 million, or eight cents per diluted share, to reduce this liability. During 2019, the Treasury Department finalized regulation related to the calculation of the transition tax, the impact of which was immaterial to the Company's Consolidated Financial Statements. The Company continues to assert that the undistributed earnings of most of its foreign subsidiaries are permanently reinvested. No taxes have been accrued with respect to these undistributed earnings or any outside basis differences. The Company has elected to provide for the tax expense related to global intangible low-taxed income (GILTI) in the year the tax is incurred.

The Company includes interest and penalties related to income tax matters as a component of income tax expense, none of which was material in 2020, 2019, and 2018.

The statute of limitations is open for the Company's federal tax return for 2015 and for 2017 and all subsequent years. The statutes of limitations for most state returns are open for 2017 and all subsequent years, and some state and foreign returns are also open for some earlier tax years due to differing statute periods. The Internal Revenue Service is currently auditing the Company's 2015 and 2017 tax returns. While the Company believes that it is adequately reserved for possible audit adjustments, the final resolution of these examinations cannot be determined with certainty and could result in final settlements that differ from current estimates.

The tax effects of temporary differences that give rise to significant portions of the deferred tax assets and deferred tax liabilities are presented below:

| (In thousands) | 2020 | 2019 |
|---|---------------|---------------|
| Deferred tax assets: | | |
| Inventories | \$ 13,910 | \$ 12,247 |
| Other postretirement benefits and accrued items | 11,477 | 9,271 |
| Other reserves | 7,782 | 6,834 |
| Foreign tax attributes | 6,250 | 5,909 |
| State tax attributes, net of federal benefit | 21,178 | 22,395 |
| Stock-based compensation | 3,751 | 3,378 |
| Right of Use Liability | 6,034 | 5,965 |
| Basis difference in unconsolidated affiliates | 8,478 | 6,547 |
| | | |
| Total deferred tax assets | 78,860 | 72,546 |
| Less valuation allowance | (27,199) | (23,130) |
| | | |
| Deferred tax assets, net of valuation allowance | 51,661 | 49,416 |
| | | |
| Deferred tax liabilities: | | |
| Property, plant, and equipment | 48,990 | 47,791 |
| Pension | _ | 949 |
| Right of Use Asset | 6,157 | 5,967 |
| Other Liabilities | 638 | 311 |
| | | |
| Total deferred tax liabilities | 55,785 | 55,018 |
| | | |
| Net deferred tax liabilities | \$ (4,124) | \$ (5,602) |
| | | |

As of December 26, 2020, after consideration of the federal impact, the Company had state income tax credit carryforwards of \pounds .6 million, all of which expire by 2023, and other state income tax credit carryforwards of \$9.0 million with unlimited lives. The Company had state net operating loss (NOL) carryforwards with potential tax benefits of \$9.6 million, after consideration of the federal impact, expiring between 2021 and 2035. The state tax credit and NOL carryforwards are offset by valuation allowances totaling \$12.0 million.

As of December 26, 2020, the Company had other foreign tax attributes with potential tax benefits of \$4.6 million that have an unlimited life. These attributes were offset by a valuation allowance totaling \$3.4 million. The Company also had other foreign tax attributes of \$1.6 million, which have limited lives expiring between 2034 and 2040. The Company has also recorded a valuation allowance against deferred tax assets related to the book-tax differences in investments in unconsolidated affiliates.

Income taxes paid were approximately \$49.3 million in 2020, \$41.8 million in 2019, and \$38.1 million in 2018.

Note 16 - Equity

The Company's Board of Directors has extended, until July 2021, its authorization to repurchase up to20 million shares of the Company's common stock through open market transactions or through privately negotiated transactions. The Company has no obligation to purchase any shares and may cancel, suspend, or extend the time period for the purchase of shares at any time. Any purchases will be funded primarily through existing cash and cash from operations. The Company may hold any shares purchased in treasury or use a portion of the repurchased shares for its stock-based compensation plans, as well as for other corporate purposes. From its initial authorization in 1999 through December 26, 2020, the Company has repurchased approximately 6.4 million shares under this authorization.

Note 17 - Stock-Based Compensation

The Company has in effect stock incentive plans under which stock-based awards have been granted to certain employees and members of its Board of Directors. Under these existing plans, the Company may grant stock options, restricted stock awards, and performance stock awards. Approximately 1.6 million shares were available for future stock incentive awards at December 26, 2020.

During the years ended December 26, 2020, December 28, 2019, and December 29, 2018, the Company recognized stock-based compensation, as a component of selling, general, and administrative expense, in its Consolidated Statements of Income of \$8.6 million, \$8.7 million, and \$8.0 million, respectively.

The total compensation expense not yet recognized related to stock incentive awards at December 26, 2020 was \$0.8 million, with an average expense recognition period of 3.0 years.

The Company generally issues treasury shares when stock options are exercised, or when restricted stock awards or performance stock awards are granted. A summary of the activity and related information follows:

| | Stock O | Options | Restricted S | tock Awards | Performance | e Stock Awards |
|-----------------------|---------|------------------------------------|--------------|--|-------------|--|
| (Shares in thousands) | Shares | Weighted Average Exercise Price | Shares | Weighted Average Grant Date Fair Value | Shares | Weighted Average Grant Date Fair Value |
| Beginning of period | 939 | \$ 25.05 | 764 | \$ 31.44 | \$ 298 | \$ 31.08 |
| Granted | 28 | 24.33 | 120 | 29.00 | 197 | 29.61 |
| Exercised/Released | (158) | 15.55 | (176) | 31.93 | _ | _ |
| Forfeited | (16) | 31.63 | (2) | 32.36 | _ | _ |
| | | | | | | |
| End of period | 793 | \$ 26.81 | 706 | \$ 30.89 | 495 | \$ 30.50 |

Stock Options

Stock options are generally granted to purchase shares of common stock at an exercise price equal to the average of the high and low market price of the Company's stock on the grant date. Generally, the awards vest within five years from the grant date. Any unexercised options expire after not more than ten years. The fair value of each option is estimated as a single award and amortized into compensation expense on a straight-line or accrual basis over its vesting period based on its vesting schedule.

The Company estimates the fair value of all stock option awards as of the grant date by applying the Black-Scholes-Merton option pricing model. The use of this valuation model in the determination of compensation expense involves certain assumptions that are judgmental and/or highly sensitive including the expected life of the option, stock price volatility, risk-free interest rate, and dividend yield. Additionally, forfeitures are not estimated at the time of valuation; they are recognized as they occur. The weighted average of key assumptions used in determining the fair value of options granted and a discussion of the methodology used to develop each assumption are as follows:

| | | 2020 | 2019 | 2018 |
|---|----|-----------|-----------|-----------|
| Fair value of stock options on grant date | \$ | 6.81 \$ | 8.78 \$ | 9.64 |
| Expected term | Ψ | 7.9 years | 7.8 years | 7.6 years |
| Expected price volatility | | 31.9 % | 28.6 % | 27.2 % |
| Risk-free interest rate | | 0.6 % | 2.4 % | 2.9 % |
| Dividend yield | | 1.7 % | 1.4 % | 1.3 % |

Expected term – This is the period of time estimated based on historical experience over which the options granted are expected to remain outstanding. An increase in the expected term will increase compensation expense.

Expected price volatility – This is a measure of the amount by which a price has fluctuated or is expected to fluctuate. The Company uses actual historical changes in the market value of its stock to calculate the volatility assumption. Daily market value changes from the grant date over a past period representative of the expected term of the options are used. An increase in the expected price volatility rate will increase compensation expense.

Risk-free interest rate – This is the U.S. Treasury rate for the week of the grant, having a term representative of the expected term of the options. An increase in the risk-free rate will increase compensation expense.

Dividend yield – This rate is the annual dividends per share as a percentage of the Company's stock price. An increase in the dividend yield will decrease compensation expense.

The total intrinsic value of options exercised was \$2.4 million, \$1.6 million, and \$0.9 million in 2020, 2019, and 2018, respectively. The total fair value of options that vested was \$0.7 million, \$1.0 million, and \$1.0 million in 2020, 2019, and 2018.

At December 26, 2020, the aggregate intrinsic value of all outstanding options was \$6.4 million with a weighted average remaining contractual term of 5.3 years. Of the outstanding options, 568 thousand are currently exercisable with an aggregate intrinsic value of \$5.7 million, a weighted average exercise price of \$24.92, and a weighted average remaining contractual term of 4.6 years.

Restricted Stock Awards

The fair value of each restricted stock award equals the fair value of the Company's stock on the grant date and is amortized into compensation expense on a straight-line or accrual basis over its vesting period based on its vesting schedule. The weighted average grant-date fair value of awards granted during 2020, 2019, and 2018 was \$29.00, \$28.64, and \$31.95, respectively.

The aggregate intrinsic value of outstanding and unvested awards was \$24.7 million at December 26, 2020. The total fair value of awards that vested was \$5.6 million, \$5.6 million, and \$3.7 million in 2020, 2019, and 2018, respectively.

Performance Stock Awards

Performance stock awards require achievement of certain performance criteria which are predefined by the Compensation Committee of the Board of Directors at the time of grant. The fair value of each performance stock award equals the fair value of the Company's stock on the grant date.Performance stock awards are vested and released at the end of the performance period if the predefined performance criteria are achieved.

For all performance stock awards, in the event the certified results equal the predefined performance criteria, the Company will grant the number of shares equal to the target award. In the event the certified results exceed the predefined performance criteria, additional shares up to the maximum award will be granted. In the event the certified results fall below the predefined performance criteria but above the minimum threshold, a reduced number of shares will be granted. If the certified results fall below the minimum threshold, no shares will be granted.

In the period it becomes probable that the minimum threshold specified in the award will be achieved, the Company recognizes expense for the proportionate share of the total fair value of the performance stock awards related to the vesting period that has already lapsed for the shares expected to vest and be released. The remaining fair value of the shares expected to vest and be released is expensed on a straight-line basis over the balance of the vesting period. In the event the Company determines it is no longer probable that it will achieve the minimum threshold specified in the award, all of the previously recognized compensation expense is reversed in the period such a determination is made.

The weighted average grant-date fair value of awards granted during 2020, 2019, and 2018 was \$\$29.61, \$29.11, and \$\$32.28, respectively.

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The aggregate intrinsic value of outstanding and unvested awards was \$17.2 million at December 26, 2020.

Note 18 – Accumulated Other Comprehensive Income (Loss)

AOCI includes certain foreign currency translation adjustments from those subsidiaries not using the U.S. dollar as their functional currency, net deferred gains and losses on certain derivative instruments accounted for as cash flow hedges, adjustments to pension and other post-employment benefit liabilities, and other comprehensive income attributable to unconsolidated affiliates.

The following table provides changes in AOCI by component, net of taxes and noncontrolling interest (amounts in parentheses indicate debits to AOCI):

| (In thousands) | | Cumulative Translation Adjustment | Unrealized (Loss) Gain on Derivatives | Pension/ OPEB Liability Adjustment | Attributable to Unconsol. Affiliates | _ | Total |
|--|----|---|--|--|---|----|----------|
| Balance at December 29, 2018 | \$ | (54,257) | \$ (214) | \$ (24,967) | \$ (354) | \$ | (79,792) |
| | | | | | | | |
| Other comprehensive income (loss) before reclassifications | | 8,059 | 1,176 | 2,315 | (839) | | 10,711 |
| Amounts reclassified from AOCI | | | (486) | 797 | | | 311 |
| Balance at December 28, 2019 | | (46,198) | 476 | (21,855) | (1,193) | | (68,770) |
| Other comprehensive income (loss) before reclassifications | | 8,859 | (4,583) | (3,639) | (132) | | 505 |
| Amounts reclassified from AOCI | _ | | 5,091 | 8,291 | | | 13,382 |
| Balance at December 26, 2020 | \$ | (37,339) | <u>\$ 984</u> | \$ (17,203) | \$ (1,325) | \$ | (54,883) |

Reclassification adjustments out of AOCI were as follows:

| | Amount reclassified from AOCI | | | | | | | | |
|--|-------------------------------|---------|----|-------|----|-------|---|--|--|
| (In thousands) | | 2020 | | 2019 | | 2018 | Affected Line Item | | |
| Unrealized losses (gains) on derivatives: | | | | | | | | | |
| Commodity contracts | \$ | 6,337 | \$ | (587) | \$ | (429) | Cost of goods sold | | |
| | | (1,246) | | 101 | | 58 | Income tax (benefit) expense | | |
| | | | | | | | | | |
| | \$ | 5,091 | \$ | (486) | \$ | (371) | Net of tax and noncontrolling interests | | |
| | | | | | | | | | |
| Amortization of net loss (gain) and prior service cost on employee benefit plans | \$ | 11,642 | \$ | _ | \$ | _ | Pension plan termination expense | | |
| | | (998) | | 960 | | 341 | Other income, net | | |
| | | (2,353) | | (163) | | (38) | Income tax benefit | | |
| | | | - | | | | | | |
| | \$ | 8,291 | \$ | 797 | \$ | 303 | Net of tax and noncontrolling interests | | |

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Note 19 – Quarterly Financial Information (Unaudited) (1)

| (In thousands, except per share data) | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
|---|----------------------|-------------------|------------------|-------------------|
| 2020 | | | | |
| Net sales | \$ 602,919 | \$ 500,168 | \$ 619,105 | \$ 675,851 |
| Gross profit ⁽²⁾ | 94,204 | 97,009 | 118,325 | 122,344 |
| Consolidated net income ⁽³⁾ | 33,951 | 28,487 | 43,957 | 37,254 |
| Net income attributable to Mueller Industries, Inc. | 32,415 | 27,956 | 42,702 | 36,420 |
| Basic earnings per share | 0.58 | 0.50 | 0.77 | 0.65 |
| Diluted earnings per share | 0.57 | 0.50 | 0.76 | 0.64 |
| Dividends per share | 0.10 | 0.10 | 0.10 | 0.10 |
| 2019 | | | | |
| Net sales | \$ 611,781 | \$ 666,394 | \$ 608,602 | \$ 543,839 |
| Gross profit (2) | 100,388 | 102,446 | 97,814 | 94,358 |
| Consolidated net income | 17,139 | 28,676 | 30,444 | 29,973 |
| Net income attributable to Mueller Industries, Inc. | 15,723 | 27,986 | 29,093 | 28,170 |
| Basic earnings per share | 0.28 | 0.50 | 0.52 | 0.50 |
| Diluted earnings per share | 0.28 | 0.50 | 0.52 | 0.50 |
| Dividends per share | 0.10 | 0.10 | 0.10 | 0.10 |

(1) The sum of quarterly amounts may not equal the annual amounts reported due to rounding. In addition, the earnings per share amounts are computed independently for each quarter, while the full year is based on the weighted average shares outstanding.

⁽²⁾ Gross profit is net sales less cost of goods sold, which excludes depreciation and amortization.

(3) Includes income earned by Shoals Tubular, Inc., acquired during Q1 2020, and Kessler Sales and Distribution, acquired during Q3 2020.

Note 20 – Subsequent Events

On February 22, 2021, the Company announced that intends to issue on or about February 25, 2021 a notice of full redemption to the holders of it6% Subordinated Debentures due 2027.

On January 29, 2021, the Company entered into an asset purchase agreement with Hart & Cooley LLC, whereby the Company purchased the Hart & Cooley flexible duct business. The total purchase price was \$14.0 million in cash paid at closing. The acquisition will expand the Company's footprint in the air quality and climate control systems market and complement the existing flexible duct business within the Climate segment.



Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of Mueller Industries, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Mueller Industries, Inc. (the Company) as of December 26, 2020 and December 28, 2019, the related consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 26, 2020, and the related notes and financial statement schedule listed in the Index at Item 15(a) (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 26, 2020 and December 28, 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 26, 2020, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 26, 2020, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated February 24, 2021 expressed an unqualified opinion thereon.

Basis for Opinion

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

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

Critical Audit Matter

The critical audit 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 the critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the account or disclosures to which it relates.



Defined Benefit Pension Obligation

Description of the Matter

At December 26, 2020 the aggregate defined pension obligation was \$90.8 million and exceeded the fair value of pension plan assets of \$78.5 million, resulting in an underfunded defined pension obligation of \$12.3 million. As disclosed in Notes 1 and 13 to the consolidated financial statements, the Company recognizes the overfunded or underfunded status of the plans as an asset or liability in the consolidated balance sheets with changes in the funded status recorded through comprehensive income in the year in which those changes occur. The obligations for these plans are actuarially determined and affected by assumptions, including discount rates, expected long-term return on plan assets, and certain employee-related factors such as mortality.

Auditing the defined benefit pension obligation is complex and required the involvement of our actuarial specialists due to the highly judgmental nature of actuarial assumptions (e.g., discount rate, mortality rate, and expected return on plan assets) used in the measurement process. These assumptions have a significant effect on the projected benefit obligation.

How We Addressed the Matter in Our Audit

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls that address the measurement and valuation of the defined benefit pension obligation. For example, we tested controls over management's review of the defined benefit pension obligation, including the significant actuarial assumptions used by management and the related data inputs.

To test the defined benefit pension obligation, our audit procedures included, among others, evaluating the methodology used, the significant actuarial assumptions discussed above and testing the completeness and accuracy of the underlying data, including the participant data used by management.

We involved our actuarial specialist to assist with our procedures. For example, we compared the actuarial assumptions used by management to historical trends and evaluated the change in the defined benefit pension obligation from prior year due to the change in service cost, interest cost, actuarial gains and losses, benefit payments, contributions and other activities, including settlements. In addition, we evaluated management's methodology for determining the discount rate that reflects the maturity and duration of the benefit payments that is used to measure the defined benefit pension obligation. As part of this assessment, we compared management's selected discount rate to an independently developed range of reasonable discount rates. To evaluate the mortality rate assumption, we assessed whether the information is consistent with publicly available information, and whether any market data adjusted for entity-specific factors were applied. Lastly, to evaluate the expected return on plan assets, we assessed whether management's assumption was consistent with a range of returns for a portfolio of comparative investments.

Ernst + Young LLP

We have served as the Company's auditor since 1991.

Memphis, Tennessee February 24, 2021



MUELLER INDUSTRIES, INC. SCHEDULE II - VALUATION AND QUALIFYING ACCOUNTS Years Ended December 26, 2020, December 28, 2019, and December 29, 2018

| | | Additions | | | | | | | | |
|---|------------------------------|-----------|----------------------------------|-------|-----------------|-------|------------|-------|---------------------------|--------|
| (In thousands) | Balance at beginning of year | | Charged to costs and expenses | | Other additions | | Deductions | | Balance at end of year | |
| 2020 | | | | | | | | | | |
| Allowance for doubtful accounts | \$ | 770 | \$ | 1,208 | \$ | — | \$ | 440 | \$ | 1,538 |
| Environmental reserves | \$ | 20,866 | \$ | 4,242 | \$ | — | \$ | 1,107 | \$ | 24,001 |
| Valuation allowance for deferred tax assets | \$ | 23,130 | \$ | 2,317 | \$ | 1,898 | \$ | 146 | \$ | 27,199 |
| 2019 | | | | | | | | | | |
| Allowance for doubtful accounts | \$ | 836 | \$ | (81) | \$ | 263 | \$ | 248 | \$ | 770 |
| Environmental reserves | \$ | 23,619 | \$ | 1,659 | \$ | — | \$ | 4,412 | \$ | 20,866 |
| Valuation allowance for deferred tax assets | \$ | 25,311 | \$ | 2,919 | \$ | 290 | \$ | 5,390 | \$ | 23,130 |
| 2018 | | | | | | | | | | |
| Allowance for doubtful accounts | \$ | 980 | \$ | (286) | \$ | 220 | \$ | 78 | \$ | 836 |
| Environmental reserves | \$ | 28,004 | \$ | 1,981 | \$ | — | \$ | 6,366 | \$ | 23,619 |
| Valuation allowance for deferred tax assets | \$ | 30,316 | \$ | 1,209 | \$ | 150 | \$ | 6,364 | \$ | 25,311 |

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DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

As of February 19, 2021, Mueller Industries, Inc. had one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended: Common Stock, \$0.01 par value per share (the "Common Stock").

The following summary describes our Common Stock and the material provisions of our Restated Certificate of Incorporation, dated February 8, 2007 (the <u>Certificate of</u> <u>Incorporation</u>"), and our Amended and Restated By-laws, effective as of January 15, 2016 (the <u>Bylaws</u>"). Because the following is only a summary, it does not contain all of the information that may be important to you, and is qualified in its entirety by the full text of our Certificate of Incorporation and our Bylaws, copies of which are on file with the SEC and included as exhibits to our Annual Report on Form 10-K for the year ended December 31, 2019. You should refer to the text of these documents for a complete description. Unless the context requires otherwise, references in this exhibit to "Mueller," the "Company," "we," "us," and "our" refer to Mueller Industries, Inc. together with its consolidated subsidiaries.

We are authorized to issue 1,000,000 shares of capital stock, of which:

- 100,000,000 shares, par value \$0.01 per share, are designated as Common Stock; and
- 5,000,000 shares, par value \$1.00 per share, are designated as Preferred Stock

As of February 19, 2021, we had outstanding 57,115,648 shares of Common Stock, excluding 23,067,356 treasury shares, and no shares of Preferred Stock.

Common Stock

Voting Rights

Except as otherwise provided for in our Certificate of Incorporation, holders of our Common Stock are entitled to one (1) vote per share on all matters submitted to our stockholders for a vote. Our Common Stock does not have cumulative voting rights.

Dividends

Subject to the rights of holders of outstanding shares of Preferred Stock, the holders of Common Stock are entitled to receive dividends, if any, as may be declared from time to time by the Board of Directors in its discretion out of funds legally available for the payment of dividends.

Liquidation

Upon our liquidation, dissolution or winding-up, the holders of Common Stock shall be entitled to share ratably in all assets remaining after the payment of any liabilities and the liquidation preferences of any outstanding shares of Preferred Stock.

No Preemptive, Redemption or Conversion Rights

Our Common Stock is not subject to redemption or sinking fund provisions and does not have any conversion rights. Our Common Stock does not have preemptive or other rights to subscribe for additional shares of any class of our capital stock.

Voting Rights for the Election of Directors

Our Board of Directors is not classified. Our Bylaws provide that our Board of Directors may consist of one (1) or more members, and that, until such time as our Board of Directors determines otherwise, the number of directors shall be nine (9).

Our Bylaws provide that directors are elected at the annual meeting of the stockholders at which a quorum is present, and the persons receiving a plurality of the votes cast shall be so elected. Our Certificate of Incorporation does not provide for cumulative voting in the election of directors.

Our Board of Directors has the ability to fill vacancies on our Board of Directors.

Special Stockholder Meetings

Our Bylaws provide that special meetings of the stockholders may be called only by our Chairman or our Chief Executive Officer. Special meetings may be called by the Chairman only upon written request of a majority of the Entire Board of Directors (as defined below).

"Entire Board of Directors" means the total number of directors which the Company would have if there were no vacancies.

2021 INCENTIVE PLAN FOR CERTAIN KEY EMPLOYEES

The Company has a discretionary annual incentive program under which exempt salaried employees may earn cash payments based on a percentage of base annual salary. The actual percent is based on a variety of guidelines including performance levels of the respective business units primarily measured by operating income subject to certain adjustments.

The payment to an employee is based upon (i) their assigned grade level, (ii) actual company earnings achieved relative to a pre-determined target, which is adjusted upward if company performance exceeds target and reduced if company performance is less than target, and (iii) base salary paid during the fiscal year.

MUELLER INDUSTRIES, INC. List of Subsidiaries

| | State or Country | | | | | |
|---|------------------|--|--|--|--|--|
| Subsidiary* | of Incorporation | | | | | |
| | | | | | | |
| Shoals Tubular, Inc. | Alabama | | | | | |
| ATCO Rubber Products, Inc. | Michigan | | | | | |
| Mueller Brass Holding Company, Inc. | Delaware | | | | | |
| Mueller Brass Co. (Assumed name: Mueller Brass Products) | Michigan | | | | | |
| Extruded Metals, Inc. | Delaware | | | | | |
| Mueller Advanced Connections, LLC | Delaware | | | | | |
| Mueller Industrial Realty Co. | Michigan | | | | | |
| Itawamba Industrial Gas Company, Inc. | Mississippi | | | | | |
| Mueller Plastics Holding Company, Inc. | Ohio | | | | | |
| Mueller Plastics Corporation, Inc. | Delaware | | | | | |
| MPC Foundry, Inc. | Delaware | | | | | |
| MPC Machine Shop, Inc. | Delaware | | | | | |
| Mueller Brass Forging Company, Inc. | Delaware | | | | | |
| Mueller Copper Tube Company, Inc. | Delaware | | | | | |
| Mueller Fittings, LLC | Mississippi | | | | | |
| Mueller Fittings Company, Inc. | Michigan | | | | | |
| MCTC, LLC | Mississippi | | | | | |
| Mueller East, Inc. | Delaware | | | | | |
| Mueller Formed Tube Company, Inc. | Delaware | | | | | |
| Mueller Impacts Company, Inc. | Delaware | | | | | |
| Mueller Press Company, Inc. | Mississippi | | | | | |
| Mueller Refrigeration Products Company, Inc. | Delaware | | | | | |
| Mueller LBHC, Inc. | Delaware | | | | | |
| Lincoln Brass Works, Inc. (Assumed name: Mueller Gas Products) | Michigan | | | | | |
| Overstreet-Hughes, Co., Inc. (Assumed name: Fabricated Tube Products) | Tennessee | | | | | |
| Mueller Refrigeration LLC | Delaware | | | | | |
| Mucher Kenigeration Elec Mueller Refrigeration Holding Company, Inc. | Delaware | | | | | |
| Mueller Streamline Co. | Delaware | | | | | |
| Kessler Sales & Distribution LLC | Delaware | | | | | |
| | Delaware | | | | | |
| B&K, LLC (d/b/a BK Products) | Tennessee | | | | | |
| Heatlink Group USA, LLC (Incorporated 2/7/2019) | | | | | | |
| Precision Tube Company, LLC | Pennsylvania | | | | | |
| Mueller Southeast, Inc. | Pennsylvania | | | | | |
| Southland Pipe Nipples Company, Inc. | Texas | | | | | |
| Mueller Tool and Machine, Inc. | Delaware | | | | | |
| Mueller Casting Company, Inc. | Delaware | | | | | |
| Mueller Packaging, LLC | Mississippi | | | | | |
| Micro Gauge, Inc. | Michigan | | | | | |
| Microgauge Machining, Inc. | Michigan | | | | | |
| Propipe Technologies, Inc. (Assumed name: Mueller Gas Products) | Ohio | | | | | |
| WTC Holding Company | Michigan | | | | | |
| MA Industrial Secured Lending, LLC ⁽⁴⁾ | Delaware | | | | | |

Muellux Holding Company I SARL Muellux Holding Company II SARL Mueller Middle East B.S.C. (7) Mueller Europe Investment Company Ltd. Jungwoo Metal Ind. Co., Ltd. (5) Mueller Europe, Limited Westermeyer Industries, Inc. Sherwood Valve Products, Inc. Sherwood Valve LLC DENO Investment Company, Inc. Mueller de Mexico, S.A. de C.V. (1) DENO Holding Company, Inc. B & K Industries, Inc. Mueller Copper Tube Products, Inc. MCTP, LLC Howell Metal Company (d/b/a Precision Tube in VA 4/2019) Turbotec Products, Inc. Mueller Canada Holding Co. Ltd. Pexcor Manufacturing Co., Inc. Heatlink Group, Inc. Great Lakes Copper Ltd. Die-Mold Tool Limited Linesets, Inc. Climate Components, LLC Arava Natural Resources Company, Inc. United States Fuel Company King Coal Company Canco Oil & Gas Ltd. Aegis Oil and Gas Leasing Ltd. Bayard Mining Corp. Washington Mining Company Amwest Exploration Company USSRAM Exploration Company White Knob Mining Company Arava Exploration Company Summit Systems, Inc. Mining Remedial Recovery Company Carpentertown Coal & Coke Company U.S.S. Lead Refinery, Inc. Leon Water Enterprises, Inc. (50%) Macomber Construction Company Macomber, Incorporated Macomber Building and Land Corporation DENO Investment Company II, Inc. Tecumseh Products Holdings LLC (6) Tecumseh Products Co. MII Financial Corporation

State or Country

of Incorporation Luxembourg Luxembourg Bahrain United Kingdom South Korea United Kingdom Illinois Ohio Delaware Michigan Mexico Michigan Illinois Delaware Michigan Virginia Connecticut Alberta Alberta Alberta Nova Scotia Ontario Delaware Delaware Delaware Nevada Utah Alberta, Canada Alberta, Canada Delaware Maine Delaware Maine Idaho Colorado Delaware Delaware Pennsylvania Maine Texas Ohio Ohio Delaware Michigan Delaware Michigan Michigan

State or Country of Incorporation

| Subsidiary |
|---|
| Mueller Streamline Holding S.L.U. |
| WTC HoldCo I, LLC |
| WTC HoldCo II, LLC |
| Mueller Comercial de Mexico S. de R.L. de C.V. ⁽²⁾ |
| NICNA Mexico Servicios, S. de R.L. de C.V. ⁽³⁾ |
| NICNA Mexico Proyectos, S. de R.L. de C.V. ⁽³⁾ |
| Mueller Streamline II, LLC |
| Changzhou Mueller Refrigerant Valve Manufacturing Co., Ltd. |
| Mueller Industries Trading (Shanghai) Co., Ltd. |
| Mueller Streamline Trading, LLC |
| Mueller Streamline China, LLC |
| |

Spain Delaware Delaware Mexico Mexico Delaware China Delaware Delaware

*All subsidiaries are 100% owned, except as shown.

⁽¹⁾ Owned by DENO Investment Company, Inc. (99.94%) and Mueller Streamline Co. (.06%)

(2) Owned by Mueller Streamline Holding S.L.U. (99.983%), WTC HoldCo I, LLC (0.016%), and WTC HoldCo II, LLC (0.001%)

 $^{(3)}$ Less than 1% of the outstanding common stock is owned by WTC HoldCo I, LLC

⁽⁴⁾ Owned by WTC Holding Company (50%)

⁽⁵⁾ Owned by Muellux Europe Investment Company Ltd. (60%)

⁽⁶⁾ Owned by DENO Investment Company, Inc. (50%)

⁽⁷⁾ Owned by Muellux Holding Company II SARL (40%)

Consent of Independent Registered Public Accounting Firm

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

- 1) Form S-3 No. 333-182906 pertaining to the registration of 20,845,718 shares of Mueller Industries, Inc. common stock,
- 2) Form S-8 No. 333-232882 pertaining to the Mueller Industries, Inc. 2019 Incentive Plan,
- 3) Form S-8 No. 333-197609 pertaining to the Mueller Industries, Inc. 2014 Incentive Plan,
- 4) Form S-8 No. 333-160718 pertaining to the Mueller Industries, Inc. 2009 Stock Incentive Plan,
- 5) Form S-8 No. 333-138413 pertaining to the Mueller Industries, Inc. 2002 Stock Option Plan,
- 6) Form S-8 No. 333-91238 pertaining to the Mueller Industries, Inc. 2002 Stock Option Plan,

of our reports dated February 24, 2021, with respect to the consolidated financial statements of Mueller Industries, Inc. and the effectiveness of internal control over financial reporting of Mueller Industries, Inc., included in this Annual Report (Form 10-K) for the year ended December 26, 2020.

/s/ Ernst & Young LLP Ernst & Young LLP

Memphis, Tennessee February 24, 2021

CERTIFICATION

I, Gregory L. Christopher, certify that:

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1 I have reviewed this annual report on Form 10-K of Mueller Industries, Inc.;

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:

Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the 3 financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)), for the registrant and have:

- 4
 - Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our a) 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;
 - 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 b) external purposes in accordance with generally accepted accounting principles;
 - Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the c) effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most d) 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
- The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the 5 registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are a) reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 24, 2021

/s/ Gregory L. Christopher Gregory L. Christopher Chief Executive Officer

CERTIFICATION

I, Jeffrey A. Martin, certify that:

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- 1 I have reviewed this annual report on Form 10-K of Mueller Industries, Inc.;
 - 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;
- 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;

The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)), for the registrant and have:

- a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our
 - supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 24, 2021

<u>/s/ Jeffrey A. Martin</u> Jeffrey A. Martin 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 Mueller Industries, Inc. (the "Company") on Form 10-K for the period ending December 26, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Gregory L. Christopher, 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.

<u>/s/ Gregory L. Christopher</u> Gregory L. Christopher Chief Executive Officer Date: February 24, 2021

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 Mueller Industries, Inc. (the "Company") on Form 10-K for the period ending December 26, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Jeffrey A. Martin, 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.

<u>/s/ Jeffrey A. Martin</u> Jeffrey A. Martin Chief Financial Officer Date: February 24, 2021