

CORE MOLDING TECHNOLOGIES INC

Form 10-K

March 18, 2019

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

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

For the fiscal year ended December 31, 2018

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 001 12505

CORE MOLDING TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

Delaware 31-1481870

(State or other jurisdiction
incorporation or organization) (I.R.S. Employer Identification No.)

800 Manor Park Drive, Columbus, Ohio 43228-0183

(Address of principal executive office) (Zip Code)

Registrant's telephone number, including area code: (614) 870-5000

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

Title of each class	Name of each exchange on which registered
Common Stock, par value \$0.01	NYSE American LLC
Preferred Stock purchase rights, par value \$0.01	NYSE American LLC

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

None

(Title of class)

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes No

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

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Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer <input type="checkbox"/>	Accelerated filer <input checked="" type="checkbox"/>	Non-accelerated filer <input type="checkbox"/>	Smaller reporting company <input checked="" type="checkbox"/>
	(Do not check if a smaller reporting company)		Emerging growth company <input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. Yes No

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

As of June 30, 2018, the aggregate market value of the registrant's voting and non-voting common equity held by non-affiliates of the registrant was approximately \$65,146,916, based upon the closing sale price of \$14.28 on the NYSE American LLC on June 30, 2018, the last business day of registrant's most recently completed second fiscal quarter. As of the close of business on March 15, 2019, the number of shares of registrant's common stock outstanding was 8,145,366.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's 2019 definitive Proxy Statement to be filed with the Securities and Exchange Commission no later than 120 days after the end of the registrant's fiscal year are incorporated herein by reference in Part III of this Form 10-K.

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PART I

ITEM 1. BUSINESS

HISTORICAL DEVELOPMENT OF BUSINESS OF CORE MOLDING TECHNOLOGIES, INC.

In 1996, RYMAC Mortgage Investment Corporation (“RYMAC”) incorporated Core Molding Technologies, Inc. (“Core Molding Technologies” or the “Company”), formerly known as Core Materials Corporation before changing its name on August 28, 2002, for the purpose of acquiring the Columbus Plastics unit of Navistar, Inc. (“Navistar”), formerly known as International Truck & Engine Corporation. On December 31, 1996, RYMAC merged with and into the Company, with the Company as the surviving entity. Immediately after the merger, the Company acquired substantially all the assets and liabilities of the Columbus Plastics unit from Navistar in return for a secured note, which has been repaid, and 4,264,000 shares of newly issued common stock of the Company. On July 18, 2007, the Company entered into a stock repurchase agreement with Navistar, pursuant to which the Company repurchased 3,600,000 shares of the Company’s common stock, from Navistar. On August 16, 2013, Navistar sold its remaining 664,000 shares of common stock in a series of open market sales.

In 1998, the Company opened a second compression molding plant located in Gaffney, South Carolina as part of the Company’s growth strategy to expand its customer base. This facility provided the Company with additional capacity and a strategic location to serve both current and prospective customers.

In October 2001, the Company incorporated Core Composites Corporation as a wholly owned subsidiary under the laws of the State of Delaware. This entity was established for the purpose of holding and establishing operations for Airshield Corporation’s assets, which the Company acquired on October 16, 2001 (the “Airshield Asset Acquisition”) as part of the Company’s diversified growth strategy. Airshield Corporation was a privately held manufacturer and marketer of fiberglass reinforced plastic parts primarily for the truck and automotive aftermarket industries. The Company purchased substantially all of the assets of Airshield Corporation through the United States Bankruptcy Court as Airshield Corporation had been operating under Chapter 11 bankruptcy protection since March 2001.

In conjunction with establishment of operations for the assets acquired in the Airshield Asset Acquisition, the Company established a Mexican subsidiary and leased a production facility in Mexico. In October 2001, the Company (5% owner) and Core Composites Corporation (95% owner) incorporated Corecomposites de Mexico, S. de R.L. de C.V. (“Corecomposites”) in Matamoros, Mexico. Corecomposites was organized to operate under a maquiladora program whereby substantially all products produced are exported back to Core Composites Corporation which sells such products to United States based external customers. In June of 2009, the Company completed construction and took occupancy of a new production facility in Matamoros, Mexico that replaced its leased facility.

In August 2005, the Company formed Core Composites Cincinnati, LLC, (“Core Composites Cincinnati”) a Delaware limited liability company and wholly owned subsidiary of the Company. This entity was formed for the purpose of establishing operations and holding assets acquired from the Cincinnati Fiberglass Division of Diversified Glass Inc., which the Company acquired in August, 2005. The Cincinnati Fiberglass Division of Diversified Glass, Inc. was a privately held manufacturer and distributor of fiberglass reinforced plastic components supplied primarily to the heavy-duty truck market. As a result of this acquisition, the Company leases a manufacturing facility in Batavia, Ohio.

In March 2015, the Company acquired substantially all of the assets of CPI Binani, Inc., a Minnesota based manufacturer and producer of direct long fiber thermoplastic (“D-LFT”) products, and a wholly owned subsidiary of Binani Industries Limited, located in Winona, Minnesota (“CPI”). The purpose of the acquisition was to increase the Company’s process capabilities and diversify the Company’s customer base.

On January 16, 2018, 1137925 B.C Ltd., subsequently renamed Horizon Plastics International Inc., a wholly owned subsidiary of the Company, entered into an Asset Purchase Agreement (the "Agreement") with Horizon Plastics International Inc., 1541689 Ontario Inc., 2551024 Ontario Inc. and Horizon Plastics de Mexico, S.A. de C.V. (collectively "Horizon Plastics"). Pursuant to the terms of the Agreement the Company acquired substantially all of the assets and assumed certain liabilities of Horizon Plastics. Horizon Plastics is a custom low-pressure structural plastic molder, which utilizes both structural foam and structural web process technologies, operating within two manufacturing facilities located in Cobourg, Canada and Escobedo, Mexico. The purpose of the acquisition was to increase the Company's process capabilities to include structural foam and structural web molding, expand its geographical footprint, and diversify the Company's customer base.

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DESCRIPTION OF BUSINESS OF CORE MOLDING TECHNOLOGIES, INC.

Certain statements under this caption of this Annual Report on Form 10-K constitute forward-looking statements within the meaning of the federal securities laws. As a general matter, forward-looking statements are those focused upon future plans, objectives or performance as opposed to historical items and include statements of anticipated events or trends and expectations and beliefs relating to matters not historical in nature. Such forward-looking statements involve known and unknown risks and are subject to uncertainties and factors relating to Core Molding Technologies' operations and business environment, all of which are difficult to predict and many of which are beyond Core Molding Technologies' control. Words such as "may," "will," "could," "would," "should," "anticipate," "predict," "potentially," "continue," "expect," "intend," "plans," "projects," "believes," "estimates," "encouraged," "confident" and similar expressions identify these forward-looking statements. These uncertainties and factors could cause Core Molding Technologies' actual results to differ materially from those matters expressed in or implied by such forward-looking statements.

Core Molding Technologies believes that the following factors, among others, could affect its future performance and cause actual results to differ materially from those expressed or implied by forward-looking statements made in this Annual Report on Form 10-K: business conditions in the plastics, transportation, marine and commercial product industries (including slowdown in demand for truck production); federal and state regulations (including engine emission regulations); general economic, social, regulatory (including foreign trade policy) and political environments in the countries in which Core Molding Technologies operates; safety and security conditions in Mexico and Canada; dependence upon certain major customers as the primary source of Core Molding Technologies' sales revenues; efforts of Core Molding Technologies to expand its customer base; the ability to develop new and innovative products and to diversify markets, materials and processes and increase operational enhancements; the actions of competitors, customers, and suppliers; failure of Core Molding Technologies' suppliers to perform their obligations; the availability of raw materials; inflationary pressures; new technologies; regulatory matters; labor relations; the loss or inability of Core Molding Technologies to attract and retain key personnel; the Company's ability to successfully identify, evaluate and manage potential acquisitions and to benefit from and properly integrate any completed acquisitions, including the recent acquisition of Horizon Plastics; the risk that the integration of Horizon Plastics may be more difficult, time-consuming or costly than expected; expected revenue synergies and cost savings from acquisition of Horizon Plastics may not be fully realized within the expected timeframe; revenues following the acquisition of Horizon Plastics may be lower than expected; customer and employee relationships and business operations may be disrupted by the acquisition of Horizon Plastics; federal, state and local environmental laws and regulations; the availability of capital; the ability of Core Molding Technologies to provide on-time delivery to customers, which may require additional shipping expenses to ensure on-time delivery or otherwise result in late fees; risk of cancellation or rescheduling of orders; management's decision to pursue new products or businesses which involve additional costs, risks or capital expenditures; inadequate insurance coverage to protect against potential hazards; equipment and machinery failure; product liability and warranty claims; and other risks identified from time to time in Core Molding Technologies' other public documents on file with the Securities and Exchange Commission, including those described in Item 1A of this Annual Report on Form 10-K.

Core Molding Technologies and its subsidiaries operate in the composites market in a family of products known as "structural composites." Structural composites are combinations of resins and sometimes reinforcing fibers (typically glass or carbon) that are molded to shape. Core Molding Technologies is a manufacturer of sheet molding compound ("SMC") and molder of thermoset and thermoplastic products. The Company specializes in large-format moldings and offers a wide range of processes, including compression molding of SMC, glass mat thermoplastics ("GMT"), bulk molding compounds ("BMC") and direct long fiber thermoplastics ("D-LFT"), spray-up, hand-lay-up, resin transfer molding ("RTM"), structural foam and structural web injection molding ("SIM"), and reaction injection molding ("RIM"), utilizing dicyclopentadiene technology.

Structural composites compete largely against metals and have the strength to function well during prolonged use. Management believes that structural composite components offer many advantages over metals, including:

- heat resistance;
- corrosion resistance;
- lighter weight;
- lower cost;
- greater flexibility in product design;
- part consolidation for multiple piece assemblies;
- lower initial tooling costs for lower volume applications;
- high strength-to-weight ratio; and
- dent-resistance in comparison to steel or aluminum.

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The largest markets for structural composites are transportation (automotive and truck), agriculture, construction, marine, and industrial applications. As of December 31, 2018, the Company operated seven production facilities in Columbus, Ohio; Batavia, Ohio; Gaffney, South Carolina; Winona, Minnesota; Matamoros and Escobedo, Mexico; and Cobourg, Canada, which produce structural composite products. Our manufacturing facilities utilize various production processes; however, end products are similar and are not unique to a facility or customer base. Operating decision makers (officers of the Company) are headquartered in Columbus, Ohio and oversee all manufacturing operations for all products as well as oversee customer relationships with all customers. The Company supplies structural composite products to truck manufacturers, automotive suppliers, and manufacturers of marine and other commercial products. In general, product growth and diversification are achieved in several different ways: (1) resourcing of existing structural composite product from another supplier by an original equipment manufacturer (“OEM”); (2) obtaining new structural composite products through a selection process in which an OEM solicits bids; (3) successful marketing of structural composite products for previously non-structural composite applications; (4) successful marketing of structural composite products to OEMs outside of our traditional markets; (5) developing of new materials, technology and processes to meet current or prospective customer requirements; and (6) acquiring an existing business. The Company's efforts continue to be directed towards all six areas.

MAJOR COMPETITORS

The Company believes that it is one of the largest compounders and molders of structural composites using the SMC, spray-up, hand-lay-up, RTM, SIM, and D-LFT molding processes in North America. The Company faces competition from a number of other molders including, most significantly, Molded Fiber Glass Companies, Continental Structural Plastics, Ashley Industrial Molding, Sigma Industries, and The Composites Group. The Company believes that it is well positioned to compete based primarily on manufacturing capability and location, product quality, engineering capability, cost, and delivery. However, the industry remains highly competitive and some of the Company's competitors have greater financial resources, research and development facilities, design engineering, manufacturing, and marketing capabilities.

MAJOR CUSTOMERS

The Company had four major customers, Navistar, Volvo Group (“Volvo”), PACCAR Inc. (“PACCAR”), and Universal Forest Products (“UFP”), in 2018. Major customers are defined as customers whose current year sales individually consist of more than ten percent of total sales during any annual or interim reporting period in the current year. The loss of a significant portion of sales to one of these customers would have a material adverse effect on the business of the Company.

The North American truck market in which Navistar, Volvo, and PACCAR compete is highly competitive and the demand for heavy and medium-duty trucks is subject to considerable volatility as it moves in response to cycles in the overall business environment and is particularly sensitive to the industrial sector, which generates a significant portion of the freight tonnage hauled. Truck demand also depends on general economic conditions, among other factors.

UFP supplies forestry-based products to three market segments: retail, industrial, and construction. This is a highly-competitive business, with suppliers competing for a share of available shelf space at large “big box” retailers and independent contractors. As a discretionary product category, suppliers must also strive continuously to differentiate their products with unique designs, colors, and features, in addition to maintaining a constant focus on cost reduction. Demand for these products is driven by residential and commercial construction and general economic conditions, among other influences.

Relationship with Navistar

The Company has historically had a Comprehensive Supply Agreement with Navistar that provides for the Company to be the primary supplier of Navistar's original equipment and service requirements for fiberglass reinforced parts, as long as the Company remains competitive in cost, quality, and delivery. The Company's current Comprehensive Supply Agreement with Navistar is effective through November 2, 2021.

The Company makes products for Navistar's Springfield, Ohio; Tulsa, Oklahoma; and Escobedo, Mexico assembly plants, as well as aftermarket products for service distribution centers. The Company works closely on new product development with Navistar's engineering and research personnel. Products sold to Navistar include hoods, roofs, air deflectors, cab extenders, fender extensions, splash panels, and other components. Sales to Navistar amounted to approximately 20%, 25% and 24% of total sales for 2018, 2017, and 2016, respectively.

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Relationship with Volvo

The Company makes products for Volvo's New River Valley (Dublin, Virginia) and Macungie, Pennsylvania assembly plants, as well as aftermarket products for service distribution centers. The Company works closely on new product development with Volvo's engineering and research teams. Products sold to Volvo include hoods, roofs, sunvisors, air deflectors, cab extenders and other components. Sales to Volvo amounted to approximately 17%, 22%, and 29% of total sales for 2018, 2017, and 2016, respectively.

Relationship with PACCAR

The Company makes products for PACCAR's Chillicothe, Ohio; Denton, Texas; Renton, Washington; St. Therese (Canada); and Mexicali, Mexico assembly plants, as well as aftermarket products for service distribution centers. The Company also works closely on new product development with PACCAR's engineering and research personnel. Products sold to PACCAR include hoods, roofs, back panels, air deflectors, air fairings, fenders, splash panels, cab extenders, and other components. Sales to PACCAR amounted to approximately 16%, 18%, and 16% of total sales for 2018, 2017, and 2016, respectively.

Relationship with UFP

The Company manufactures a line of outdoor living and home decor products as part of UFP's broad offerings to "big box" retailers. These products are labeled and packaged for direct placement onto retail shelves, and are shipped to UFP distribution facilities primarily throughout North America. The Company works directly with UFP on innovative product advances that reduce cost and extend the appeal of the products to consumers. Sales to UFP amounted to approximately 10%, 0%, and 0% of total sales for 2018, 2017, and 2016, respectively.

OTHER CUSTOMERS

The Company also produces products for other truck manufacturers, the automotive industry, marine industry, commercial product industries, automotive aftermarket industries, and various other customers and industries. Sales to these customers individually were all less than 10% of total sales for interim and annual reporting during 2018. Sales to these customers amounted to approximately 37%, 35% and 31% of total sales for 2018, 2017, and 2016, respectively.

GEOGRAPHIC INFORMATION

Substantially all of the Company's products are sold in U.S. dollars. The following table provides information related to the Company's sales by country, based on the ship to location of customers' production facilities, for the years ended December 31:

	2018	2017	2016
United States	\$ 181,207,000	\$ 103,513,000	\$ 119,018,000
Mexico	74,029,000	52,496,000	51,389,000
Canada	12,494,000	5,664,000	4,475,000
Other	1,755,000	—	—
Total	\$ 269,485,000	\$ 161,673,000	\$ 174,882,000

The following table provides information related to the location of the Company's property, plant and equipment, net, as of December 31:

	2018	2017
United States	\$ 37,778,000	\$ 40,594,000
Mexico	34,155,000	28,037,000

Canada	8,724,000	—
Total	\$80,657,000	\$68,631,000

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PRODUCTS

Sheet Molding Compound (“SMC”)

SMC is primarily a combination of resins, fiberglass, fillers, and catalysts compounded and cured in sheet form, which is then used to manufacture compression-molded products, as discussed below. The Company also sells SMC to other molders.

The Company incorporates a sophisticated computer program in the process of compounding various complex SMC formulations tailored to meet customer needs. The program provides for the control of information during various production processes and data for statistical batch controls.

Closed Molded Products

The Company manufactures plastic products using compression molding, resin transfer molding, and injection molding. As of December 31, 2018, the Company owned 74 molding presses in its Columbus, Ohio facility (16); Matamoros, Mexico facility (21); Cobourg, Canada facility (19); Gaffney, South Carolina facility (10); Winona, Minnesota facility;(4) and Escobedo, Mexico (4). The Company's molding presses range in size from 250 to 5,000 tons.

Compression Molding of SMC - Compression molding is a process whereby SMC is molded to form by matched die steel molds through which a combination of heat and pressure are applied via a molding press. This process produces high quality, dimensionally consistent products. This process is typically used for high volume products. Higher volumes justify the customer's investment in matched die steel molds.

Large platen, high tonnage presses (2,000 tons or greater) provide the ability to mold very large reinforced plastic parts. The Company believes that it possesses a significant portion of the large platen, high tonnage molding capacity in the industry. To enhance the surface quality and the paint finish of our products, the Company uses both in-mold coating and vacuum molding processes.

In-mold coating is the process of injecting a liquid over the molded part surface and then applying pressure at elevated temperatures during an extended molding cycle. The liquid coating serves to fill and/or bridge surface porosity as well as provide a barrier against solvent penetration during subsequent top-coating operations.

Vacuum molding is the removal of air during the molding cycle for the purpose of reducing the amount of surface porosity. The Company believes that it is among the industry leaders in in-mold coating and vacuum molding applications, based on the size and complexity of parts molded.

Resin Transfer Molding (“RTM”) - This process employs two molds, typically a core and a cavity, similar to matched die molding. The composite is produced by placing glass mat, chopped strand, or continuous strand fiberglass in the mold cavity in the desired pattern. Parts used for cosmetic purposes typically have a gel coat applied to the mold surface. The core mold is then fitted to the cavity, and upon a satisfactory seal, a vacuum is applied. When the proper vacuum is achieved, the resin is injected into the mold to fill the part. Finally, the part is allowed to cure and is then removed from the mold and trimmed to shape. Fiberglass reinforced products produced from the RTM process exhibit a high quality surface on both sides of the part and excellent part thickness. The multiple insert tooling technique can be utilized in the RTM process to improve throughput based upon volume requirements.

Structural Foam and Web Injection Molding (“SIM”) - Structural foam and structural web are low-pressure injection molding processes that develop high-strength, rigid parts at low weight. This is accomplished by mixing a foaming

agent (usually, nitrogen gas) with the melted polymer (structural foam process), or by injecting nitrogen gas into the mold cavity immediately after the plastic resin is injected (structural web molding). Structural foam produces a cellular interior structure that can provide twice the rigidity of a solid plastic molding. The structural web process pushes the plastic out to the mold cavity walls, uniformly packing out the entire mold and hollowing out thicker sections to create products of varying wall thicknesses. As a result, structural web molded parts have a smoother, glossier finish than other low pressure parts. Both processes give part designers flexibility when designing products that need strength and stiffness at low weight.

Direct Long-Fiber Thermoplastics ("D-LFT") - D-LFT molding employs two molds, typically a core and a cavity, similar to matched die molding. This is a process for compounding and molding thermoplastic materials with "long" fibers (typically, 0.5 inch or longer). Engineered thermoplastic pellets and performance additives are compounded in a screw extruder, to which chopped reinforcements (typically, glass fibers) are added and further extruded. A "charge" of material is cut to a precise weight, and this "charge" is directly moved to a compression or injection-transfer process, where it is molded into a finished part. The process

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allows for direct processing of the compounded material, bypassing the expense and delay of producing an intermediate product (pellets or sheets) as is used in other fiber-reinforced thermoplastic molding processes. The D-LFT process is an attractive option for products that have complex geometry, require high strength and stiffness, and benefit from the recyclability of a thermoplastic resin.

Reaction Injection Molding (“RIM”) - This is a process whereby a composite is produced through the injection of a two-component thermoset resin system utilizing dicyclopentadiene (“DCPD”) technology. DCPD technology involves injecting a liquid compound into matched die aluminum molds to form the part. In this process the mold is prepared, closed and the liquid compound is injected into the tool then cured. Additional finishing is required when the part is designated for top coat painting. The RIM process is an alternative to other closed mold processes for mid-volume parts that require a high level of impact resistance.

Open Molded Products

The Company produces reinforced plastic products using both the hand lay-up and spray-up methods of open molding at our Batavia, Ohio and Matamoros, Mexico locations. Part sizes weigh from a few pounds to several hundred pounds with surface quality tailored for the end use application.

Hand Lay-Up - This process utilizes a shell mold, typically the cavity, where glass cloth, either chopped strand or continuous strand glass mat, is introduced into the cavity. Resin is then applied to the cloth and rolled out to achieve a uniform wet-out from the glass and to remove any trapped air. The part is then allowed to cure and is removed from the mold. After removal, the part typically undergoes trimming to achieve the shape desired. Parts used for cosmetic purposes typically have a gel coat applied to the mold surface prior to the lay-up to improve the surface quality of the finished part. Parts produced from this process have a smooth outer surface and an unfinished or rough interior surface. These fiberglass-reinforced products are typically non-cosmetic components or structural reinforcements that are sold externally or used internally as components of larger assemblies.

Spray-Up - This process utilizes the same type of shell mold as hand-lay-up, but instead of using glass cloth to produce the composite part, a chopper/spray system is employed. Glass rovings and resin feed the chopper/spray gun. The resin coated, chopped glass is sprayed into the mold to the desired thickness. The resin coated glass in the mold is then rolled out to ensure complete wet-out and to remove any trapped air. The part is then allowed to cure, is removed from the mold, and is then trimmed to the desired shape. Parts used for cosmetic purposes typically have a gel coat applied to the mold surface prior to the resin-coated glass being sprayed into the mold to improve the surface quality of the finished part. Parts produced from this process have a smooth outer surface and an unfinished or rough interior surface.

Assembly, Machining, and Paint Products

Many of the products molded by the Company are assembled, machined, and prime painted or topcoat painted to result in a completed product used by the Company's customers.

The Company has demonstrated manufacturing flexibility that accommodates a range of low volume hand assembly and machining work, to high volume, highly automated assembly and machining systems. Robotics are used as deemed productive for material handling, machining, and adhesive applications. In addition to conventional machining methods, water-jet cutting technology is also used where appropriate. The Company also utilizes paint booths and batch ovens in its facilities. The Company generally contracts with outside providers for higher volume applications that require top coat paint.

RAW MATERIALS

The principal raw materials used in the Company's processes are unsaturated polyester; vinyl ester; polyethylene, polypropylene and dicyclopentadiene resins; fiberglass; and filler. Other significant raw materials include adhesives for assembly of molded components, in-mold coating, gel-coat, prime paint for preparation of cosmetic surfaces, and hardware (primarily metal components). Many of the raw materials used by the Company are crude oil based, natural gas based and downstream components, and therefore, the costs of certain raw materials can be affected by changes in costs of these underlying commodities. Due to fluctuating commodity prices, suppliers are typically reluctant to enter into long-term contracts. The Company generally has supplier alternatives for each raw material, and regularly evaluates its supplier base for certain supplies, repair items, and components to improve its overall purchasing position.

BACKLOG

The Company relies on production schedules provided by its customers to plan and implement production. These schedules are normally provided on a weekly basis and typically considered firm for approximately four weeks. Some customers update these

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schedules daily for changes in demand, allowing them to run their inventories on a “just in time” basis. The ordered backlog of four weeks of expected shipments was approximately \$22.7 million (all of which the Company shipped during the first month of 2019) and \$13.2 million at December 31, 2018 and 2017, respectively.

CAPACITY CONSTRAINTS

Capacity utilization is measured based on standard cycle times and a standard work week, which can range from five days per week, three-shifts per day to seven days per week, three-shifts per day, depending on the facility and molding process. During times when demand exceeds the standard five day, three-shift capacity, the Company will work weekends to create additional capacity, which can provide capacity utilization percentages greater than 100%. During 2018, the Company has used various methods from overtime to a weekend manpower crew to support the customers' production requirements.

The approximate SMC production line capacity utilization was 77% and 54% for the years ended December 31, 2018 and 2017, respectively.

The Company measures facility capacity in terms of its large molding presses (2,000 tons or greater) for the Columbus, Ohio, Gaffney, South Carolina, Winona, Minnesota and the SMC molding at the Matamoros, Mexico facility. The Company owned 27 large molding presses at these facilities at December 31, 2018. The combined approximate large press capacity utilization in these production facilities was 91% and 63% for the years ended December 31, 2018 and 2017, respectively. The increased utilization mainly resulted from increase demand from customers in the heavy truck and marine markets.

The Company measures facility capacity in terms of its large molding presses (750 tons or greater) for the Cobourg, Canada facility. The Company owned 8 large molding presses at this facility at December 31, 2018. The combined approximate large press capacity utilization in this facility was 52% for the year ended December 31, 2018.

CAPITAL EXPENDITURES AND RESEARCH AND DEVELOPMENT

Capital expenditures totaled approximately \$5.8 million, \$4.3 million and \$2.9 million in 2018, 2017, and 2016 respectively. These capital expenditures primarily consisted of building and equipment improvements and additional production equipment to manufacture parts.

The Company continuously engages in product development. Research and development activities focus on developing new material formulations, new structural composite products, new production capabilities and processes, and improving existing products and manufacturing processes. The Company does not maintain a separate research and development organization or facility, but uses its production equipment, as necessary, to support these efforts and cooperates with its customers and its suppliers in research and development efforts. Likewise, manpower to direct and advance research and development is integrated with the existing manufacturing, engineering, production, and quality organizations. Management of the Company has estimated that costs related to research and development were approximately \$1,032,000, \$848,000 and \$965,000 in 2018, 2017, and 2016, respectively.

ENVIRONMENTAL COMPLIANCE

The Company's manufacturing operations are subject to federal, state, and local environmental laws and regulations, which impose limitations on the discharge of hazardous and non-hazardous pollutants into the air and waterways. The Company has established and implemented standards for the treatment, storage, and disposal of hazardous waste. The Company's policy is to conduct its business with due regard for the preservation and protection of the environment. The Company's environmental waste management process involves the regular auditing of hazardous waste

accumulation points, hazardous waste activities, authorized treatment, and storage and disposal facilities. As part of the Company's environmental policy, all manufacturing employees are trained on waste management and other environmental issues.

The Company holds various environmental operating permits for its production facilities in the U.S., Mexico, and Canada as required by U.S., Mexican and Canadian state and federal regulations. The Company has substantially complied with all requirements of these operating permits.

EMPLOYEES

As of December 31, 2018, the Company employed a total of 2,190 employees, which consists of 886 employees in its United States operations, 1,033 employees in its Mexico operations and 271 employees in its Canada operation. Of these 2,190 employees, 372 employees at the Company's Columbus, Ohio facility are covered by a collective bargaining agreement with the International Association of Machinists and Aerospace Workers ("IAM"), which extends to August 10, 2019; 876 employees at the Company's

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Matamoros, Mexico facility are covered by a collective bargaining agreement with Sindicato de Jornaleros y Obreros, which extends to December 31, 2019; 221 employees at the Company's Cobourg, Canada facility are covered by a collective bargaining agreement with United Food & Commercial Workers Canada ("UFCW"), which extends to November 1, 2021; and 26 employees at the Company's Escobedo, Mexico facility are covered by a collective bargaining agreement with Sindicato de trabajadores de la industria metalica y del comercio del estado de Nuevo Leon Presidente Benito Juarez Garcia C.T.M., which extends to February 2020.

PATENTS, TRADE NAMES, AND TRADEMARKS

The Company will evaluate, apply for, and maintain patents, trade names, and trademarks where it believes that such patents, trade names, and trademarks are reasonably required to protect its rights in its products. The Company has increased its activity related to trademark protection in recent years, including the federal registration of the trademarks N-sulGuard®, Featherlite®, Airilite®, FeatherliteXL®, Econolite®, and Hydrilite®. However, the Company does not believe that any single patent, trade name, or trademark or related group of such rights is materially important to its business or its ability to compete.

SEASONALITY & BUSINESS CYCLE

The Company's business is affected annually by the production schedules of its customers. Certain of the Company's customers typically shut down their operations on an annual basis for a period of one to several weeks during the Company's third quarter. Certain customers also typically shut down their operations during the last week of December. As a result, demand for the Company's products typically decreases during the third and fourth quarters. Demand for medium and heavy-duty trucks, marine, automotive, and commercial products also fluctuates on an economic, cyclical and seasonal basis, causing a corresponding fluctuation for demand of the Company's products.

AVAILABLE INFORMATION

We maintain a website at www.coremt.com. Annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, all amendments to those reports, and other information about us are available free of charge through this website as soon as reasonably practicable after the reports are electronically filed with the SEC. These materials are also available from the SEC's website at www.sec.gov.

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ITEM 1A. RISK FACTORS

The following risk factors describe various risks that may affect our business, financial condition, and operations. References to “we,” “us,” and “our” in this “Risk Factors” section refer to Core Molding Technologies and its subsidiaries, unless otherwise specified or unless the context otherwise requires.

Our business has concentration risks associated with significant customers.

Sales to four customers constituted approximately 65% of our 2018 total sales. No other customer accounted for more than 10% of our total sales for this period. The loss of any significant portion of sales to any of our significant customers could have a material adverse effect on our business, results of operations, and financial condition.

Accounts receivable balances with four customers accounted for 64% of accounts receivable at December 31, 2018. The Company performs ongoing credit evaluations of its customers’ financial condition and maintains reserves for potential bad debt losses. If the financial conditions of any of these customers were to deteriorate, impacting their ability to pay their receivables, our reserves may not be adequate which could have a material adverse effect on our business, results of operations, or financial condition.

We are continuing to engage in efforts intended to strengthen and expand our relations with significant customers, as well as provide support for our entire customer base. We have supported our position with customers through direct and active contact through our sales, quality, engineering, and operational personnel. We cannot make any assurances that we will maintain or improve our customer relationships, whether these customers will continue to do business with us as they have in the past or whether we will be able to supply these customers or any of our other customers at current levels.

Our business is affected by the cyclical and overall nature of the industries and markets that we serve.

The North American heavy and medium-duty truck industries are highly cyclical. In 2018, approximately 56% of our product sales were in these industries. These industries and markets fluctuate in response to factors that are beyond our control, such as general economic conditions, interest rates, federal and state regulations (including engine emissions regulations, tariffs, import regulations, and other taxes), consumer spending, fuel costs, and our customers’ inventory levels and production rates. Our manufacturing operations have a significant fixed cost component. Accordingly, during periods of changing demands, including an increase or slowdown in truck demand, the profitability of our operations may change proportionately more than revenues from operations. In addition, our operations are typically seasonal as a result of regular customer maintenance shutdowns, which typically vary from year to year based on production demands and occur in the third and fourth quarter of each calendar year. This seasonality may result in decreased net sales and profitability during the third and fourth fiscal quarters of each calendar year. Weakness in overall economic conditions or in the markets that we serve, or significant reductions by our customers in their inventory levels or future production rates, could result in decreased demand for our products and could have a material adverse effect on our business, results of operations, or financial condition.

Price increases in raw materials and availability of raw materials could adversely affect our operating results and financial condition.

We purchase resins and fiberglass for use in production as well as hardware and other components for product assembly. The prices for purchased materials are affected by the prices of material feed stocks such as crude oil, natural gas, and downstream components, as well as processing capacity versus demand. We attempt to reduce our exposure to increases by working with suppliers, evaluating new suppliers, improving material efficiencies, and when necessary through sales price adjustments to customers. If we are unsuccessful in developing ways to mitigate these

raw material increases we may not be able to improve productivity or realize savings from cost reduction programs sufficiently to help offset the impact of these increased raw material costs. As a result, higher raw material costs could result in declining margins and operating results.

Cost reduction and quality improvement initiatives by original equipment manufacturers could have a material adverse effect on our business, results of operations, or financial condition.

We are primarily a components supplier to the heavy and medium-duty truck industries, which are characterized by a small number of original equipment manufacturers (“OEMs”) that are able to exert considerable pressure on components suppliers to reduce costs, improve quality, and provide additional design and engineering capabilities. Given the fragmented nature of the industry, OEMs continue to demand and receive price reductions and measurable increases in quality through their use of competitive selection processes, rating programs, and various other arrangements. We may be unable to generate sufficient production cost savings in the future to offset such price reductions. OEMs may also seek to save costs by purchasing components from suppliers that are geographically closer to their production facilities or relocating production to locations with lower cost structures and

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purchasing components from suppliers with lower production costs. These decisions by OEMs could require us to shift production between our facilities, move production lines between our facilities, or open new facilities to remain competitive. Shifting production, moving production lines, or opening new locations could result in significant costs required for capital investment, transfer expenses, and operating costs. Additionally, OEMs have generally required component suppliers to provide more design engineering input at earlier stages of the product development process, the costs of which have, in some cases, been absorbed by the suppliers. To the extent that the Company does not meet the quality standards or demands of quality improvement initiatives sought by OEMs, or does not match the quality of suppliers of comparable products, OEMs may choose to purchase from these alternative suppliers, and as a result the Company may lose existing or new business with OEMs. Future price reductions, increased quality standards, and additional engineering capabilities required by OEMs may reduce our profitability and have a material adverse effect on our business, results of operations, or financial condition.

We may be subject to product liability claims, recalls or warranty claims, which could have a material adverse effect on our business, results of operations, or financial condition.

As a components supplier to OEMs, we face a business risk of exposure to product liability claims in the event that our products malfunction and result in personal injury or death. Product liability claims could result in significant losses as a result of expenses incurred in defending claims or the award of damages. In addition, we may be required to participate in recalls involving components sold by us if any prove to be defective, or we may voluntarily initiate a recall or make payments related to such claims in order to maintain positive customer relationships. While we do maintain product liability insurance, it may not be sufficient to cover all product liability claims, and as a result, any product liability claim brought against us could have a material adverse effect on our results of operations. Further, we warrant the quality of our products under limited warranties, and as such, we are subject to risk of warranty claims in the event that our products do not conform to our customers' specifications. Such warranty claims may result in costly product recalls, significant repair costs, and damage to our reputation, all of which would adversely affect our results of operations.

We operate in highly competitive markets, and if we are unable to effectively compete it may negatively impact future operating results, sales, and earnings.

The markets in which we operate are highly competitive. We compete with a number of other manufacturers that produce and sell similar products. Our products primarily compete on the basis of capability, product quality, cost, and delivery. Some of our competitors have greater financial resources, research and development facilities, design engineering, manufacturing, and marketing capabilities. If we are unable to develop new and innovative products, diversify the markets, materials, and processes we utilize and increase operational enhancements, we may fall behind competitors or lose the ability to achieve competitive advantages. In the highly competitive market in which we operate, this may negatively impact our ability to retain existing customers or attract new customers, and if that occurs, it may negatively impact future operating results, sales, and earnings.

We may be subject to additional shipping expense or late fees if we are not able to meet our customers' on-time demand for our products.

We must continue to meet our customers' demand for on-time delivery of our products. Factors that could result in our inability to meet customer demands include a failure by one or more of our suppliers to supply us with the raw materials and other resources that we need to operate our business effectively and an unforeseen spike in demand for our products, which would create capacity constraints, among other factors. If this occurs, we may be required to incur additional shipping expenses to ensure on-time delivery or otherwise be required to pay late fees, which could have a material adverse effect on our business, results of operations, or financial condition.

If we fail to attract and retain key personnel our business could be harmed.

Our success largely depends on the efforts and abilities of our key personnel. Their skills, experience, and industry contacts significantly benefit us. The inability to retain key personnel could have a material adverse effect on our business, results of operations, or financial condition. Our future success will also depend in part upon our continuing ability to attract and retain highly qualified personnel.

Work stoppages or other labor issues at our facilities or at our customers' facilities could adversely affect our operations.

As of December 31, 2018, unions at our Columbus, Ohio, Matamoros, Mexico, Cobourg Canada and Escobedo, Mexico facilities represented approximately 68% of our entire workforce. As a result, we are subject to the risk of work stoppages and other labor-relations matters. The current Columbus, Ohio, Matamoros and Escobedo, Mexico, and Cobourg, Canada union contracts extend through August 10, 2019, December 31, 2019, February 2020 and November 1, 2021, respectively. Any prolonged work stoppage or

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strike at either our Columbus, Ohio, Matamoros, Mexico, Cobourg, Canada or Escobedo, Mexico unionized facilities could have a material adverse effect on our business, results of operations, or financial condition. Any failure by us to reach a new agreement upon expiration of such union contracts may have a material adverse effect on our business, results of operations, or financial condition.

In addition, if any of our customers or suppliers experience a material work stoppage, that customer may halt or limit the purchase of our products or that supplier may interrupt supply of our necessary production components. This could cause us to shut down production facilities relating to these products, which could have a material adverse effect on our business, results of operations, or financial condition.

Changes in the legal, regulatory, and social responses to climate change, including any possible effect on energy prices, could adversely affect our business and reduce our profitability.

It is possible that various proposed legislative or regulatory initiatives related to climate changes, such as cap-and-trade systems, increased limits on emissions of greenhouse gases and fuel efficiency standards, or other measures, could in the future have a material impact on us, our customers, or the markets we serve, thereby resulting in a material adverse effect on our financial condition or results of operation. For example, customers in the transportation (automotive and truck) industry could be required to incur greater costs in order to comply with such initiatives, which could have an adverse impact on their profitability or viability. This could in turn lead to further changes in the structure of the transportation industry that could reduce demand for our products. We are also reliant on energy to manufacture our products, with our operating costs being subject to increase if energy costs rise. During periods of higher energy costs we may not be able to recover our operating cost increases through production efficiencies and price increases. While we may hedge our exposure to higher prices via future energy purchase contracts, increases in energy prices for any reason (including as a result of new initiatives related to climate change) will increase our operating costs and likely reduce our profitability.

Our foreign operations in Mexico and Canada subject us to risks that could negatively affect our business.

We operate a manufacturing facilities in Matamoros and Escobedo, Mexico and Cobourg, Canada. As a result, a significant portion of our business and operations is subject to the risk of changes in economic conditions, tax systems, consumer preferences, social conditions, safety and security conditions, and political conditions inherent in Mexico and Canada, including changes in the laws and policies that govern foreign investment, as well as changes in United States laws and regulations relating to foreign trade and investment. Changes in laws and regulations related to foreign trade and investment may have an adverse effect on our results of operations, financial condition, or cash flows.

Fluctuations in foreign currency exchange rates could adversely affect our results of operations, cash flow, liquidity, or financial condition.

Because of our international operations, we are exposed to risk associated with value changes in foreign currencies, which may adversely affect our business. Historically, our reported net sales, earnings, cash flow, and financial condition have been subjected to fluctuations in foreign exchange rates. Our primary exchange rate exposure is with the Canadian dollar and the Mexican peso against the U.S. dollar. While we actively manage the exposure of our foreign currency risk as part of our overall financial risk management policy, we believe we may experience losses from foreign currency exchange rate fluctuations, and such losses could adversely affect our sales, earnings, cash flow, liquidity, or financial condition.

Our business is subject to risks associated with manufacturing equipment and infrastructure.

We convert raw materials into molded products through a manufacturing process at each production facility. While we maintain insurance covering our manufacturing and production facilities, including business interruption insurance, a catastrophic loss of the use of all or a portion of our facilities due to accident, fire, explosion, or natural disaster, whether short or long-term, could have a material adverse effect on our business, results of operations, or financial condition.

Unexpected failures of our equipment and machinery may result in production delays, revenue loss, and significant repair costs, as well as injuries to our employees. Any interruption in production capability may require us to make large capital expenditures to remedy the situation, which could have a negative impact on our profitability and cash flows. Our business interruption insurance may not be sufficient to offset the lost revenues or increased costs that we may experience during a disruption of our operations. Because we supply our products to OEMs, a temporary or long-term business disruption could result in a permanent loss of customers. If this were to occur, our future sales levels and therefore our profitability could be materially adversely affected.

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Our business is subject to risks associated with new business awards. In order to recognize profit from new business, we must accurately estimate product costs as part of the quoting process and implement effective and efficient manufacturing processes.

The success of our business relies on our ability to produce products which meet the quality, performance, and price expectations of our customers. Our ability to recognize profit is largely dependent upon accurately identifying the costs associated with the manufacturing of our products, and executing the manufacturing process in a cost effective manner. There can be no assurance that all costs will be accurately identified during the Company's quoting process or that the expected level of manufacturing efficiency will be achieved. As a result we may not realize the anticipated operating results related to new business awards.

Our insurance coverage may be inadequate to protect against the potential hazards incident to our business.

We maintain property, business interruption, stop loss for healthcare and workers' compensation, director and officer, product liability, and casualty insurance coverage, but such insurance may not provide adequate coverage against potential claims, including losses resulting from war risks, terrorist acts, or product liability claims relating to products we manufacture. Consistent with market conditions in the insurance industry, premiums and deductibles for some of our insurance policies have been increasing and may continue to increase in the future. In some instances, some types of insurance may become available only for reduced amounts of coverage, if at all. In addition, there can be no assurance that our insurers would not challenge coverage for certain claims. If we were to incur a significant liability for which we were not fully insured or that our insurers disputed, it could have a material adverse effect on our financial position.

We face various risks arising from our recent acquisition of Horizon Plastics. We may fail to realize growth opportunities and other benefits from the acquisition of Horizon Plastics and we may fail to successfully integrate the Horizon Plastics business with our existing business, either of which could adversely affect our financial condition and results of operations.

We may fail to realize growth opportunities and other benefits from the acquisition of Horizon Plastics, which we acquired on January 16, 2018. We have no prior experience operating manufacturing operations in Canada, and we may not be as successful in operating and growing this business in Canada as we have been in the United States and elsewhere. We may be unable to continue existing, or to develop new vendor and customer relationships, and enhance our position in Canada. Further, our operations in Canada are subject to the various risks and uncertainties to which our United States and Mexican operations are subject.

Our ability to successfully integrate Horizon Plastics is subject to risks, including delays or difficulties in completing integration and incurring higher than expected costs. In connection with the integration efforts, our management's attention and our resources could be diverted from other business concerns. The integration process is underway and we expect integration to continue throughout 2019. However, if integration difficulties arise, the diversion of attention and resources may be increased. Horizon Plastics' production facilities are located in Canada and Mexico and sells products to customers in the United States, Canada, and Mexico. While a majority of Horizon Plastics' sales are denominated in the United States Dollar, the entity is subject to currency risk associated with certain operating costs in Canada and Mexico. Additionally, Horizon Plastics' operations are subject to the risk of changes in economic conditions, tax systems, consumer preferences, social conditions, safety and security conditions, and political conditions inherent in Canada and Mexico. Any of these may adversely affect our financial condition and results of operations.

In addition to Horizon Plastics, we have made acquisitions and may make acquisitions in the future. We may not realize the operating results that we anticipate from these acquisitions or from acquisitions we may make in the future,

and we may experience difficulties in integrating the acquired businesses or may inherit significant liabilities related to such businesses.

We explore opportunities to acquire businesses that we believe are related to our core competencies from time to time, some of which may be material to us. We expect such acquisitions will produce operating results consistent with our other operations; however, we cannot provide assurance that this assumption will prove correct with respect to any acquisition.

Any acquisitions, including the recent acquisition of Horizon Plastics, may present significant challenges for our management due to the increased time and resources required to properly integrate management, employees, information systems, accounting controls, personnel, and administrative functions of the acquired business with those of ours and to manage the combined company on a going forward basis. The diversion of management's attention and any delays or difficulties encountered in connection with the integration of these businesses could adversely impact our business, results of operations, and liquidity, and the benefits we anticipate may never materialize.

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Expected future sales from business awards may not materialize. We may not realize the sales or operating results that we anticipate from new business awards, and we may experience difficulties in meeting the production demands of new business awards.

We will continue to pursue, and may be awarded, new business from existing or new customers. The Company may make capital investments, which may be material to the Company, in order to meet the expected production requirements of existing or new customers related to these business awards, and to support the potential production demands which may result from continued sales growth. The anticipated impact on the Company's sales and operating results related to these business awards, for various reasons, may not materialize. Any delays or production difficulties encountered in connection with these business awards, and any change in customer demand, could adversely impact our business, results of operations, and liquidity, and the benefits we anticipate may never materialize.

If we are unable to meet future capital requirements, our business may be adversely affected.

As we grow our business, we may have to incur significant capital expenditures. We may make capital investments to, among other things, build new or upgrade our facilities, purchase leased facilities and equipment, and enhance our production processes. We cannot assure you that we will have, or be able to obtain, adequate funds to make all necessary capital expenditures when required, or that the amount of future capital expenditures will not be materially in excess of our anticipated or current expenditures. If we are unable to make necessary capital expenditures we may not have the capability to support our customer demands, which in turn could reduce our sales and profitability and impair our ability to satisfy our customers' expectations. In addition, even if we are able to invest sufficient resources, these investments may not generate net sales that exceed our expenses, generate any net sales at all, or result in any commercially acceptable products.

Our failure to comply with our debt covenants could have a material adverse effect on our business, financial condition, or results of operations.

Our debt agreements contain certain covenants. A breach of any of these covenants could result in a default under the applicable agreement. If a default were to occur, we would likely seek a waiver of that default, attempt to reset the covenant, or refinance the instrument and accompanying obligations. If we were unable to obtain this relief, the default could result in the acceleration of the total due related to that debt obligation. If a default were to occur, we may not be able to pay our debts or borrow sufficient funds to refinance them. Any of these events, if they occur, could materially adversely affect our results of operations, financial condition, and cash flows.

We may not achieve expected efficiencies related to the proximity of our customers' production facilities to our manufacturing facilities, or with respect to existing or future production relocation plans.

Certain facilities are located in close proximity to our customers in order to minimize both our customers' and our own costs. If any of our customers were to move or if nearby facilities are closed, that may impact our ability to remain competitive. Additionally, our competitors could build a facility that is closer to our customers' facilities which may provide them with a geographic advantage. Any of these events might require us to move closer to our customers, build new facilities, or shift production between our current facilities to meet our customers' needs, resulting in additional cost and expense.

Our products may be rendered obsolete or less attractive if there are changes in technology, regulatory requirements, or competitive processes.

Changes in technology, regulatory requirements, and competitive processes may render certain products obsolete or less attractive. Future chemical regulations may restrict our ability to manufacture products, cause us to incur substantial expenditures to comply with them, and subject us to liability for adverse environmental or health effects linked to the manufacture of our products. Failure to comply with future regulations may subject us to penalties or other enforcement actions. Our ability to anticipate changes in these areas will be a significant factor in our ability to remain competitive. If we are unable to identify or compensate for any one of these changes it may have a material adverse effect on our business, results of operations, or financial condition.

Our stock price can be volatile.

Our stock price can fluctuate widely in response to a variety of factors. Factors include actual or anticipated variations in our quarterly operating results, our relatively small public float, changes in securities analysts' estimates of our future earnings, and the loss of major customers, or significant business developments relating to us or our competitors, and other factors, including those described in this "Risk Factors" section. Our common stock also has a low average daily trading volume, which limits a

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person's ability to quickly accumulate or quickly divest themselves of large blocks of our stock. In addition, a low average trading volume can lead to significant price swings even when a relatively few number of shares are being traded.

We are subject to environmental, occupational health and safety rules and regulations that may require us to make substantial expenditures or expose us to financial or other obligations including substantial damages, penalties, fines, civil or criminal sanctions, and remediation costs that could adversely affect our results.

Our operations, facilities, and personnel are subject to extensive and evolving laws and regulations pertaining to air emissions, wastewater discharges, the handling and disposal of solid and hazardous materials and wastes, health and safety, the investigation and remediation of contamination, and the protection of the environment and natural resources. It is difficult to predict the future interpretations and developments of environmental and health and safety laws and regulations or their impact on our future results and cash flows. Continued compliance could result in significant increases in capital expenditures and operating costs. In addition, we may be exposed to obligations or involved from time to time in administrative or legal proceedings relating to environmental, health and safety or other regulatory matters, and may incur financial and other obligations relating to such matters.

Certain senior management employees have entered into potentially costly severance arrangements with us if terminated by the employee for good reason.

We have entered into executive employment agreements with executive officers that provide for significant severance payments in the event such employee's employment with us is terminated by the employee for good reason (as defined in the employment agreement). Good reason includes one or more of the following occurring within one year of a change in control: (i) a material reduction in base salary, (ii) a material diminution in the executive's position and/or duties, (iii) a material breach of the employment agreement by the person or other entity then controlling the Company, or (iv) a disavowal of the employment agreement by the person or other entity then controlling the Company. A change in control occurs when (a) one person (as defined in the employment agreement), or more than one person acting as a group, acquires ownership of stock of the Company that, together with the stock held by such person or group, constitutes more than 50% of the total fair market value or total voting power of the stock of the Company, (b) a majority of the members of the Company's Board of Directors (the "Board") are replaced during any twelve-month period by directors whose appointment or election is not endorsed by a majority of the Board before the date of appointment or election, or (c) the sale of all or substantially all of the Company's assets. These agreements would make it costly for the employment of certain of our senior management employees to be terminated and such costs may also discourage potential acquisition proposals, which may negatively affect our stock price.

Economic conditions and disruptions in the financial markets could have an adverse effect on our business, financial condition, and results of operations.

Disruptions in the financial markets could have a material adverse effect on our liquidity and financial condition if our ability to borrow money from our existing lenders were to be impaired. Disruptions in the financial markets may also have a material adverse impact on the availability and cost of credit in the future. Our ability to pay our debt or refinance our obligations will depend on our future performance, which could be affected by, among other things, prevailing economic conditions. Disruptions in the financial markets may also have an adverse effect on the U.S. and world economies, which would have a negative impact on demand for our products. In addition, tightening of credit markets may have an adverse impact on our customers' ability to finance the sale of new trucks or our suppliers' ability to provide us with raw materials, either of which could adversely affect our business and results of operations.

Our provision for income tax, adverse tax audits, or changes in tax policy could have an adverse effect on our business, financial condition, and results of operations.

We are subject to income taxes in the United States and Mexico and, beginning in 2018, Canada. Our provision for income taxes and cash flow related to taxes may be negatively impacted by: (1) changes in the mix of earnings taxable in jurisdictions with different statutory rates, (2) changes in tax laws and accounting principles, (3) changes in the valuation of our deferred tax assets and liabilities, (4) discovery of new information during the course of tax return preparation, (5) increases in nondeductible expenses, or (6) difficulties in repatriating earnings held abroad in a tax efficient manner.

Tax audits may also negatively impact our business, financial condition, and results of operations. We are subject to continued examination of our income tax returns, and tax authorities may disagree with our tax positions and assess additional tax. We regularly evaluate the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes. There can be no assurance that the outcomes from examinations will not have a negative impact on our future financial condition and operating results.

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Our ability to maintain effective internal control over financial reporting may be insufficient to allow us to accurately report our financial results or prevent fraud, and this could cause our financial statements to become materially misleading and adversely affect the trading price of our common stock.

We require effective internal control over financial reporting in order to provide reasonable assurance with respect to our financial reports and to effectively prevent fraud. Internal control over financial reporting may not prevent or detect misstatements because of its inherent limitations, including the possibility of human error, the circumvention or overriding of controls, or fraud. Therefore, even effective internal controls can provide only reasonable assurance with respect to the preparation and fair presentation of financial statements. If we cannot provide reasonable assurance with respect to our financial statements and effectively prevent fraud, our financial statements could become materially misleading, which could adversely affect the trading price of our common stock.

If we are not able to maintain the adequacy of our internal control over financial reporting, including any failure to implement required new or improved controls or if we experience difficulties in their implementation, our business, financial condition, and operating results could be harmed. Any material weakness could affect investor confidence in the accuracy and completeness of our financial statements. As a result, our ability to obtain any additional financing, or additional financing on favorable terms, could be materially and adversely affected. This, in turn, could materially and adversely affect our business, financial condition, and the market value of our stock and require us to incur additional costs to improve our internal control systems and procedures. In addition, perceptions of the Company among customers, suppliers, lenders, investors, securities analysts, and others could also be adversely affected. We cannot assure that any material weaknesses will not arise in the future due to our failure to implement and maintain adequate internal control over financial reporting.

Security breaches and other disruptions could compromise our information and expose us to liability, which would cause our business and reputation to suffer.

In the ordinary course of our business, we collect and store sensitive data, including intellectual property, our proprietary business information and that of our customers, suppliers, and business partners, and personally identifiable information of our employees, in our data centers and on our networks. The secure maintenance of this information is critical to our operations. Despite our security measures, our information technology and infrastructure may be vulnerable to attacks by hackers or breached due to employee error, malfeasance, or other disruptions. Any such breach could compromise our networks and the information stored there could be accessed, publicly disclosed, lost, or stolen. Any such access, disclosure, or other loss of information could result in legal claims or proceedings, liability under laws that protect the privacy of personal information, regulatory penalties, disruption of our operations, damage to our reputation, and cause a loss of confidence in our products, which could adversely affect our business, revenues, and competitive position.

Our manufacturing capacity, labor force, and operations may not be appropriate for future levels of demand and may materially adversely affect our gross margins and operating results.

When market demand increases, we must have available manufacturing capacity and must increase our labor force to meet increases in customer demand. We have continued to experience a significant ramp up in overall demand in the heavy-duty truck market, along with the launch of several new programs. Given the current high demand levels, the Company has experienced asset capacity constraints and difficulty hiring, training and retaining labor in a tightening labor market, which has resulted in increased manufacturing inefficiencies and the inability to consistently meet customer delivery and quality requirements, including for several of the Company's major customers. Additional expenses that we have realized in 2018 as a result of these inefficiencies include increased hiring, training, wages, overtime, non-local third party contract labor, including travel and local lodging, scrap, rework, expedited premium shipping, returns, customer charges and repairs and maintenance.

If we continue to experience manufacturing inefficiencies, we may continue to incur additional expenses as described above and may reduce demand through the possible temporary or permanent move of business (which may include major customers' business) to other manufacturers, which would adversely affect our gross margins and operating results.

Ongoing difficulty in hiring, training, and retaining skilled labor could result in increased cost overruns, an inability to satisfy customer demands, and otherwise adversely affect our business.

We depend on skilled labor in the manufacturing of our products. Given the current high demand levels in 2018, we have experienced difficulty hiring, training, and retaining labor in a tightening labor market, which has resulted in increased manufacturing inefficiencies and the inability to consistently meet customer delivery and quality requirements, including for several of the Company's major customers. Recent difficulties in securing skilled labor have resulted in increased hiring and training costs, increased overtime to meet demand, increased wage rates to attract and retain operators, the use of non-local third

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party contract labor, and higher scrap and rework costs due to inexperienced workers. Continuation of such difficulties in securing labor could result in increased cost, an inability to satisfy customer demands, and an inability to maintain or increase production rates which would adversely affect our business.

In the event we engage in any restructuring of our manufacturing operations to address operational efficiencies, such actions may be disruptive to our business and may not result in anticipated cost savings.

Management continuously evaluates our facilities and operations in an effort to make our business more efficient. During 2018, we have continued to experience asset capacity constraints and difficulty hiring, training, and retaining labor in a tightening labor market, which has resulted in increased manufacturing inefficiencies and the inability to consistently meet customer delivery and quality requirements, including for several of the Company's major customers. As management continues to evaluate our facilities and operations in an effort to make our business more efficient, as well as whether to move certain customers' business in order to minimize production constraints, we may incur additional costs, asset impairments, and restructuring charges in connection with changes to operations, that to the extent incurred in the future could adversely affect our future earnings and cash flows. Such actions may be disruptive to our business. Furthermore, we may not realize the cost savings that we expect to realize as a result of such actions.

We incurred an impairment charge as of December 31, 2018 that eliminated all of the carrying value of our goodwill associated with our traditional business reporting unit; in the future we may be required to incur additional impairment charges on a portion or all of the carrying value of our goodwill or other intangible assets associated with our reporting units, which may adversely affect our financial condition and results of operations.

Each year, and more frequently on an interim basis if appropriate, we are required by ASC Topic 350, "Intangibles--Goodwill and Other," to assess the carrying value of our indefinite lived intangible assets and goodwill to determine whether the carrying value of those assets is impaired. Such assessment and determination involves significant judgments to estimate the fair value of our reporting units, including estimating future cash flows, near term and long term revenue growth, and determining appropriate discount rates, among other assumptions. As part of the Company's annual impairment assessment at December 31, 2018, we concluded that the carrying value of the goodwill associated with our traditional business reporting unit was greater than fair value, which resulted in a goodwill impairment charge of \$2,403,000, representing all of the goodwill related to our traditional business reporting unit. See Note 2. Summary of Significant Accounting Policies and Note 7. Goodwill and Intangibles, within the notes to our accompanying consolidated financial statements for further discussion regarding goodwill impairment. The Company concluded that goodwill assigned to the HPI reporting unit was not impaired as of December 31, 2018 as the fair value was 23% above the carrying value. The Company will continue to evaluate the HPI reporting unit goodwill on an annual basis as required by ASC Topic 350. If operating earnings consistently fall below forecasted operating earnings, we would perform an interim or annual goodwill impairment analysis. Should that analysis conclude that the reporting unit's fair value were to be below carrying value a goodwill impairment charge would be necessary. Any such charges could materially adversely affect our financial results in the periods in which they are recorded.

We have substantial debt and may incur substantial additional debt, which could adversely affect our financial health, reduce our profitability, limit our ability to obtain financing in the future and pursue certain business opportunities and reduce the value of your investment.

As of December 31, 2018, we had an aggregate principal amount of \$58.4 million of outstanding debt. In fiscal year 2018, we incurred \$2.4 million of interest expense, net of the impact of interest rate swaps, related to this debt. The amount of our debt or such other obligations could have important consequences for holders of our common stock, including, but not limited to: a substantial portion of our cash flow from operations must be dedicated to the

payment of principal and interest on our indebtedness, thereby reducing the funds available to us for other purposes; our ability to obtain additional financing for working capital, capital expenditures, acquisitions, debt service requirements or general corporate purposes and other purposes may be impaired in the future; we are exposed to the risk of increased interest rates because a portion of our borrowings is at variable rates of interest; we may be at a competitive disadvantage compared to our competitors with less debt or with comparable debt at more favorable interest rates and that, as a result, may be better positioned to withstand economic downturns; our ability to refinance indebtedness may be limited or the associated costs may increase; our ability to engage in acquisitions without raising additional equity or obtaining additional debt financing may be impaired in the future; it may be more difficult for us to satisfy our obligations to our creditors, resulting in possible defaults on and acceleration of such indebtedness; we may be more vulnerable to general adverse economic and industry conditions; and our flexibility to adjust to changing market conditions and our ability to withstand competitive pressures could be limited, or we may be prevented from making capital investments that are necessary or important to our operations in general, growth strategy and efforts to improve operating margins of our business units.

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If our cash flow and capital resources are insufficient to fund our debt service obligations, we may be forced to reduce or delay capital expenditures, sell assets, seek to obtain additional equity capital or refinance our debt. We cannot make assurances that we will be able to refinance our debt on terms acceptable to us, or at all. In the future, our cash flow and capital resources may not be sufficient for payments of interest on and principal of our debt, and such alternative measures may not be successful and may not permit us to meet our scheduled debt service obligations. We cannot make assurances that we will be able to refinance any of our indebtedness, or obtain additional financing, particularly because of our high levels of debt and the debt incurrence restrictions imposed by the agreements governing our debt, as well as prevailing market conditions. We could face substantial liquidity problems and might be required to dispose of material assets or operations to meet our debt service and other obligations. Subject to certain exceptions, our Term Loans and Revolving Loans, which we have defined in “Note 9. Debt and Leases” to our consolidated financial statements, restrict our ability to dispose of assets and how we use the proceeds from any such dispositions. We cannot make assurances that we will be able to consummate those dispositions, or if we do, what the timing of the dispositions will be or whether the proceeds that we realize will be adequate to meet our debt service obligations, when due.

Cybersecurity attacks may threaten our confidential information, disrupt operations and result in harm to our reputation and adversely impact our business and financial performance.

Cybersecurity attacks across industries, including ours, are increasing in sophistication and frequency and may range from uncoordinated individual attempts to measures targeted specifically at us. These attacks include but are not limited to, malicious software or viruses, attempts to gain unauthorized access to, or otherwise disrupt, our information systems, attempts to gain unauthorized access to business, proprietary or other confidential information, and other electronic security breaches that could lead to disruptions in critical systems, unauthorized release of confidential or otherwise protected information and corruption of data. Cybersecurity failures may be caused by employee error, malfeasance, system errors or vulnerabilities, including vulnerabilities of our vendors, suppliers, and their products. We have been subject to cybersecurity attacks in the past. Based on information known to date, past attacks have not had a material impact on our financial condition or results of operations. We may experience such attacks in the future, potentially with more frequency or sophistication.

Failures of our IT systems as a result of cybersecurity attacks or other disruptions could result in a breach of critical operational or financial controls and lead to a disruption of our operations, commercial activities or financial processes. Cybersecurity attacks or other disruptions impacting significant customers and/or suppliers could also lead to a disruption of our operations or commercial activities. Despite our attempts to implement safeguards on our systems and mitigate potential risks, there is no assurance that such actions will be sufficient to prevent cyberattacks or security breaches that manipulate or improperly use our systems or networks, compromise confidential or otherwise protected information, destroy or corrupt data, or otherwise disrupt our operations. The occurrence of such events could have a material adverse effect on our business financial condition and results of operations.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

The Company owned four production facilities as of December 31, 2018 that are situated in Columbus, Ohio; Gaffney, South Carolina; Winona, Minnesota; and Matamoros, Mexico, and leases production facilities in Batavia, Ohio; Cobourg, Canada; and Escobedo, Mexico; and a distribution center in Brownsville, Texas.

The Columbus, Ohio plant is located at 800 Manor Park Drive on approximately 28 acres of land. The Company acquired the property at 800 Manor Park Drive in 1996 as a result of the Asset Purchase Agreement with Navistar. The Company added approximately 6,000 square feet to the Columbus plant during 2014 in connection with its SMC

capacity expansion. The current 338,000 square feet of available floor space at the Columbus, Ohio plant is comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	322,000
Office	16,000
Total	338,000

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The Gaffney, South Carolina plant, which was opened in 1998, is located at 24 Commerce Drive, Meadow Creek Industrial Park on approximately 21 acres of land. The Company added approximately 28,800 square feet to the Gaffney plant during 2016. The approximate 139,800 square feet of available floor space at the Gaffney, South Carolina plant is comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	134,800
Office	5,000
Total	139,800

The Winona, Minnesota plant which was acquired in 2015 is located at 1700 Wilkie Drive. The facility consists of approximately 87,000 square feet on approximately 7 acres comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	81,000
Office	6,000
Total	87,000

The Matamoros, Mexico plant which was opened in 2009 is located at Guillermo Gonzalez Camarena y Thomas Alva Edison Manzana, Matamoros, Tamaulipas, Mexico. The facility consists of approximately 478,000 square feet on approximately 22 acres comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	463,000
Office	15,000
Total	478,000

The Columbus, Ohio; Gaffney, South Carolina; Winona, Minnesota; and Matamoros, Mexico properties are subject to liens and security interests as a result of the properties being pledged by the Company as collateral for its debt as described in Note 9 of the "Notes to Consolidated Financial Statements" in Part II, Item 8 of this Annual Report on Form 10-K.

The Company leases a production plant in Batavia, Ohio located at 4174 Half Acre Road on approximately 9 acres of land. The current 7-year operating lease agreement expires in July 2019. The approximate 108,000 square feet of available floor space at the Batavia, Ohio plant is comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	104,000
Office	4,000
Total	108,000

The Company leases a production plant in Cobourg, Canada located at 3 West Street on approximately 10 acres of land. The current lease agreement expires in June 2019. The Company has the option to extend the lease up to 10 years. The approximate 247,000 square feet of available floor space at the Cobourg, Canada plant is comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	241,000
Office	6,000

Total 247,000

The Company leases a production plant in Escobedo, Mexico located at Avenida Internacional #220, Parque Industrial VYNMSA Escobedo, C.P. 66053, Escobedo, Nuevo Leon, Mexico on approximately 3 acres of land. The current lease agreement expires in

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March 2021. The approximate 61,000 square feet of available floor space at the Escobedo, Mexico plant is comprised of the following:

	Approximate Square Feet
Manufacturing/Warehouse	59,000
Office	2,000
Total	61,000

The Company leases a warehouse and distribution center in Brownsville, Texas located at 1385 Cheers Street on approximately 2 acres of land. The current lease agreement expires in October 2022, with an option to extend the lease for 36 months. The approximate 42,000 square feet of available floor space at the Brownsville, Texas location is comprised of the following:

	Approximate Square Feet
Warehouse/Distribution	39,000
Office	3,000
Total	42,000

ITEM 3. LEGAL PROCEEDINGS

From time to time, the Company is involved in litigation incidental to the conduct of its business. The Company is presently not involved in any legal proceedings which in the opinion of management are likely to have a material adverse effect on the Company's consolidated financial position or results of operations.

ITEM 4. MINE SAFETY DISCLOSURE

None.

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PART II

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

The Company's common stock is traded on the NYSE American LLC under the symbol "CMT".

The table below sets forth the high and low sale prices of the Company for each full quarterly period within the two most recent fiscal years for which such stock was traded.

Core Molding Technologies, Inc.	High	Low
Fourth Quarter 2018	\$8.60	\$6.37
Third Quarter 2018	15.32	6.58
Second Quarter 2018	18.09	13.53
First Quarter 2018	22.36	16.47
Fourth Quarter 2017	\$23.85	\$19.74
Third Quarter 2017	24.50	18.85
Second Quarter 2017	22.83	16.38
First Quarter 2017	18.19	14.42

The Company's common stock was held by 351 holders of record on March 15, 2019.

The Company ended the \$0.05 per share quarterly dividend after the May 2018 declaration. The Company made payments of \$792,000 and \$786,000 for cash dividends during 2018 and 2017, respectively. The Company made no payments for cash dividends in 2016.

Equity Compensation Plan Information

The following table shows certain information concerning our common stock to be issued in connection with our equity compensation plans as of December 31, 2018:

Plan Category	Number of Shares to be Issued Upon Exercise of Outstanding Options or Vesting of Restricted Grants	Weighted Average Exercise Price of Outstanding Options or Restricted Grants	Number of Shares Remaining Available for Future Issuance
Equity compensation plans approved by stockholders	349,885	\$ 10.62	1,078,671

There were no stock repurchases during the three months ended December 31, 2018.

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ITEM 6. SELECTED FINANCIAL DATA

The following selected financial data is derived from the audited consolidated financial statements of the Company. The information set forth below should be read in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations," the consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K.

(In thousands, except per share data)	Years Ended December 31,				
	2018	2017	2016	2015	2014
Operating Data:					
Product sales	\$256,217	\$148,623	\$146,624	\$189,103	\$169,744
Tooling sales	13,268	13,050	28,258	9,965	5,460
Net sales	269,485	161,673	174,882	199,068	175,204
Gross margin	27,141	24,631	27,906	36,252	30,186
Operating income	(3,100)	7,941	11,527	18,498	14,647
Net income	(4,782)	5,459	7,411	12,050	9,634
Earnings Per Share Data:					
Net income per common share:					
Basic	\$(0.62)	\$0.71	\$0.97	\$1.59	\$1.28
Diluted	\$(0.62)	\$0.70	\$0.97	\$1.58	\$1.28
Balance Sheet Data:					
Total assets	\$201,198	\$138,578	\$133,455	\$139,803	\$117,715
Working capital	40,111	40,369	38,590	31,534	23,244
Long-term debt	55,159	3,750	6,750	9,750	714
Stockholders' equity	98,929	101,893	96,766	88,733	76,146
Return on beginning equity	(5)%	6 %	8 %	16 %	14 %
Book value per share	\$12.72	\$13.21	\$12.67	\$11.68	\$10.07

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

Certain statements under this caption of this Annual Report on Form 10-K constitute forward-looking statements within the meaning of the federal securities laws. As a general matter, forward-looking statements are those focused upon future plans, objectives or performance as opposed to historical items and include statements of anticipated events or trends and expectations and beliefs relating to matters not historical in nature. Such forward-looking statements involve known and unknown risks and are subject to uncertainties and factors relating to Core Molding Technologies' operations and business environment, all of which are difficult to predict and many of which are beyond Core Molding Technologies' control. Words such as "may," "will," "could," "would," "should," "anticipate," "predict," "potentially," "continue," "expect," "intend," "plans," "projects," "believes," "estimates," "confident" and similar expressions are used to identify these forward-looking statements. These uncertainties and factors could cause Core Molding Technologies' actual results to differ materially from those matters expressed in or implied by such forward-looking statements.

Core Molding Technologies believes that the following factors, among others, could affect its future performance and cause actual results to differ materially from those expressed or implied by forward-looking statements made in this Annual Report on Form 10-K: business conditions in the plastics, transportation, marine and commercial product industries (including slowdown in demand for truck production); federal and state regulations (including engine emission regulations); general economic, social, regulatory (including foreign trade policy) and political environments in the countries in which Core Molding Technologies operates; safety and security conditions in Mexico and Canada; dependence upon certain major customers as the primary source of Core Molding Technologies' sales revenues; efforts of Core Molding Technologies to expand its customer base; the ability to develop new and innovative products and to diversify markets, materials and processes and increase operational enhancements; the actions of competitors, customers, and suppliers; failure of Core Molding Technologies' suppliers to perform their obligations; the availability of raw materials; inflationary pressures; new technologies; regulatory matters; labor relations; the loss or inability of Core Molding Technologies to attract and retain key personnel; the Company's ability to successfully identify, evaluate and manage potential acquisitions and to benefit from and properly integrate any completed acquisitions, including the recent acquisition of Horizon Plastics; the risk that the integration of Horizon Plastics may be more difficult, time-consuming or costly than expected; expected revenue synergies and cost savings from acquisition of Horizon Plastics may not be fully realized within the expected timeframe; revenues following the acquisition of Horizon Plastics may be lower than expected; customer and employee relationships and business operations may be disrupted by the acquisition of Horizon Plastics; federal, state and local environmental laws and regulations; the availability of capital; the ability of Core Molding Technologies to provide on-time delivery to customers, which may require additional shipping expenses to ensure on-time delivery or otherwise result in late fees; risk of cancellation or rescheduling of orders; management's decision to pursue new products or businesses which involve additional costs, risks or capital expenditures; inadequate insurance coverage to protect against potential hazards; equipment and machinery failure; product liability and warranty claims; and other risks identified from time to time in Core Molding Technologies' other public documents on file with the Securities and Exchange Commission, including those described in Item 1A of this Annual Report on Form 10-K.

DESCRIPTION OF THE COMPANY

Core Molding Technologies is a manufacturer of sheet molding compound ("SMC") and molder of thermoset and thermoplastic products. The Company specializes in large-format moldings and offers a wide range of fiberglass processes, including compression molding of SMC, glass mat thermoplastics ("GMT"), bulk molding compounds ("BMC"), and direct long-fiber thermoplastics ("D-LFT"); spray-up, hand-lay-up, and resin transfer molding ("RTM"). Additionally, the Company offers structural foam and structural injection molding ("SIM") and reaction injection molding ("RIM"), utilizing dicyclopentadiene technology. Core Molding Technologies serves a wide variety of markets, including the medium and heavy-duty truck, marine, automotive, agriculture, construction, and other

commercial products. Product sales to medium and heavy-duty truck markets accounted for 56% of the Company's sales for the year ended December 31, 2018 and 68% for the years ended December 31, 2017 and 2016, respectively. The demand for Core Molding Technologies' products is affected by economic conditions in the United States, Mexico, and Canada. Core Molding Technologies' manufacturing operations have a significant fixed cost component. Accordingly, during periods of changing demand, the profitability of Core Molding Technologies' operations may change proportionately more than revenues from operations.

In 1996, Core Molding Technologies acquired substantially all of the assets and assumed certain liabilities of Columbus Plastics, a wholly owned operating unit of Navistar's truck manufacturing division since its formation in late 1980. Columbus Plastics, located in Columbus, Ohio, was a compounder and compression molder of SMC. In 1998, Core Molding Technologies began operations at its second facility in Gaffney, South Carolina, and in 2001, Core Molding Technologies added a production facility in Matamoros, Mexico by acquiring certain assets of Airshield Corporation. As a result of this acquisition, Core Molding

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Technologies expanded its fiberglass molding capabilities to include the spray up, hand-lay-up open mold processes and RTM closed molding. In 2004, Core Molding Technologies acquired substantially all the operating assets of Keystone Restyling Products, Inc., a privately held manufacturer and distributor of fiberglass reinforced products for the automotive-aftermarket industry. In 2005, Core Molding Technologies acquired certain assets of the Cincinnati Fiberglass Division of Diversified Glass, Inc., a Batavia, Ohio-based, privately held manufacturer and distributor of fiberglass reinforced plastic components supplied primarily to the heavy-duty truck market. In 2009, the Company completed construction of a new production facility in Matamoros, Mexico that replaced its leased facility. In March 2015, the Company acquired substantially all of the assets of CPI Binani, Inc., a wholly owned subsidiary of Binani Industries Limited, located in Winona, Minnesota ("CPI"), which expanded the Company's process capabilities to include D-LFT and diversified the customer base. In January 2018, the Company acquired substantially all the assets of Horizon Plastics, which has manufacturing operations in Cobourg, Ontario and Escobedo, Mexico. This acquisition expanded the Company's customer base, geographic footprint, and process capabilities to include structural foam and structural web molding.

BUSINESS OVERVIEW

General

The Company's business and operating results are directly affected by changes in overall customer demand, operational costs and performance and leverage of our fixed cost and selling, general and administrative ("SG&A") infrastructure.

Product sales fluctuate in response to several factors including many that are beyond the Company's control, such as general economic conditions, interest rates, government regulations, consumer spending, labor availability, and our customers' production rates and inventory levels. Product sales consist of demand from customers in many different markets with different levels of cyclical and seasonality. The North American truck market, which is highly cyclical, accounted for 56% and 68% of the Company's product revenue for the years ended December 31, 2018 and 2017, respectively.

Operating performance is dependent on the Company's ability to manage changes in input costs for items such as raw materials, labor, and overhead operating costs. Performance is also affected by manufacturing efficiencies, including items such as on time delivery, quality, scrap, and productivity. Market factors of supply and demand can impact operating costs. In periods of rapid increases or decreases in customer demand, the Company is required to ramp operations activity up or down quickly which may impact manufacturing efficiencies more than in periods of steady demand.

Operating performance is also dependent on the Company's ability to effectively launch new customer programs, which are typically extremely complex in nature. The start of production of a new program is the result of a process of developing new molds and assembly equipment, validation testing, manufacturing process design, development and testing, along with training and often hiring employees. Meeting the targeted levels of manufacturing efficiency for new programs usually occurs over time as the Company gains experience with new tools and processes. Therefore, during a new program launch period, start-up costs and inefficiencies can affect operating results.

Results of 2018 Overview

Core Molding Technologies recorded a net loss in 2018 of \$4,782,000, or \$(0.62) per basic and diluted share, compared with net income of \$5,459,000, or \$0.71 per basic and \$0.70 per diluted share in 2017. Product sales in 2018 increased 72% from 2017, and operating income declined 139%. New sales from the acquisition of Horizon Plastics and higher demand from our truck customers were the primary drivers of the sales increase, while the decrease in operating income was largely due to increased manufacturing inefficiencies at several of the Company's facilities, a goodwill impairment charge, and higher operating and SG&A costs.

As discussed above in Part I, Item 1, “Business,” on January 16, 2018 the Company acquired substantially all of the assets and assumed certain liabilities of Horizon Plastics, in exchange for approximately \$63,005,000 in cash. Horizon Plastics is a custom low-pressure structural composite molder, which utilizes both structural foam and structural web process technologies operating within two manufacturing facilities located in Cobourg, Canada and Escobedo, Mexico. The acquisition was funded through a combination of available cash on hand and borrowings under an Amended and Restated Credit Agreement entered into with KeyBank National Association, as further described below under “Liquidity and Capital Resources.” The integration process for Horizon Plastics is underway and management expects integration of business and financial systems to continue throughout 2019.

Looking forward, the Company anticipates that 2019 product sales levels will increase as compared to 2018, due to higher demand from heavy duty truck customers and additional sales from new programs. Heavy duty truck customers as well as industry analysts are forecasting increases in Class 8 truck sales of approximately 5% in 2019 compared to 2018.

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2018 compared to 2017

Net sales for 2018 totaled \$269,485,000, which was an increase from the \$161,673,000 reported for 2017. Included in total sales were tooling project sales of \$13,268,000 for 2018 and \$13,050,000 for 2017. Tooling project sales result primarily from customer approval and acceptance of molds and assembly equipment specific to their products as well as other non-production services. These sales are sporadic in nature and fluctuate in regard to scope and related revenue on a period-to-period basis. Total product sales for 2018, excluding tooling project sales, totaled \$256,217,000, representing a 72% increase from the \$148,623,000 reported for 2017. The increase in product sales is primarily the result of new sales from the acquisition of Horizon Plastics totaling \$62,603,000 and higher demand from truck customers of \$44,991,000.

Gross margin was approximately 10.1% of sales in 2018 and 15.2% in 2017. The gross margin decrease, as a percent of sales, was due to unfavorable product mix and production inefficiencies of 8.1%, net changes in selling price and material costs of 1.1% and unfavorable sales returns of 0.6%, offset by higher leverage of fixed costs of 2.5% and favorable impact of 2.0% from the Horizon Plastic acquisition.

Selling, general and administrative expense ("SG&A") totaled \$27,838,000 in 2018, compared to \$16,690,000 in 2017. The increase in SG&A expense primarily resulted from additional ongoing SG&A costs of \$3,681,000 related to Horizon Plastics, higher professional and outside services of \$2,292,000, higher intangible amortization of \$1,819,000, higher labor and benefit costs of \$994,000, one-time severance costs of \$858,000 and one-time acquisition fees of \$693,000.

Goodwill impairment totaled \$2,403,000 in 2018, based on the Company's annual goodwill impairment assessment for the Core Traditional reporting unit, see Note 2, Summary of Significant Accounting Policies, for further details.

Net interest expense totaled \$2,394,000 for the year ended December 31, 2018, compared to net interest expense of \$245,000 for the year ended December 31, 2017. The increase in interest expense was primarily due to a higher average outstanding debt balance in 2018.

Income tax expense was approximately 12% of total income before income taxes in 2018 and 30% in 2017. The change in effective income tax rate primary relates to the net effect of taxable losses in a lower statutory rate tax jurisdictions being offset by taxable income in higher statutory rate tax jurisdictions.

Net loss for 2018 was \$4,782,000 or \$(0.62) per basic and diluted share, compared with net income of \$5,459,000 or \$0.71 per basic and \$0.70 per diluted share for 2017.

Comprehensive loss totaled \$4,735,000 in 2018, compared to comprehensive income of \$4,953,000 in 2017. The decrease was primarily related to lower net income of \$10,241,000 and a change in hedging derivatives of \$418,000 offset by a change in net actuarial adjustments of \$971,000 for other post-retirement benefit obligations. In 2018, the Company recorded a net actuarial gain of \$910,000 compared to an actuarial loss of \$417,000 in 2017. The 2018 gain and the 2017 loss were primarily due to a change in discount rate.

2017 compared to 2016

Net sales for 2017 and 2016 totaled \$161,673,000 and \$174,882,000, respectively. Included in total sales were tooling project sales of \$13,050,000 and \$28,258,000 for 2017 and 2016, respectively. These sales are sporadic in nature and fluctuate in regard to scope and related revenue on a period-to-period basis. Product sales, excluding tooling project sales, for 2017 were approximately \$148,623,000 compared to \$146,624,000 for 2016. In 2017, product sales were positively impacted by a change in demand from customers in the heavy truck and marine markets of \$5,671,000, partially offset by a change in demand from customers in the automotive market of \$3,378,000.

Gross margin was approximately 15.2% of sales for 2017, compared with 16.0% for 2016. The gross margin decrease, as a percent of sales, was due to unfavorable net changes in selling price and material costs of 1.3% and lower leverage of fixed costs of 0.4%. These decreases were offset by favorable product mix and production efficiencies of 0.6% and favorable foreign currency exchange effects of 0.3%.

Selling, general and administrative expense (“SG&A”) was \$16,690,000 for 2017 compared to \$16,379,000 for 2016. The increase in SG&A expense primarily resulted from higher professional and outside services of \$880,000 of which \$596,000 is associated with the fees incurred with the Horizon Plastics acquisition, and higher labor and benefit expenses of \$441,000, partially offset by lower profit sharing expense of \$1,203,000.

Net interest expense totaled \$245,000 for 2017, compared to net interest expense of \$298,000 for 2016. The decrease in interest expense was primarily due to a lower average outstanding debt balance in 2017.

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Income tax expense was approximately 30% of total income before income taxes in 2017 and 34% in 2016. The decrease primary resulted from net benefits from adjustments associated with provisions for the impact of The Tax Cut and Jobs Act of \$185,000 and tax benefits from vesting of restricted stock for \$126,000.

Net income for 2017 was \$5,459,000 or \$0.71 per basic and \$0.70 per diluted share, compared with net income of \$7,411,000 or \$0.97 per basic and diluted share for 2016.

Comprehensive Income totaled \$4,953,000 in 2017, compared to \$7,180,000 in 2016. The decrease was primarily related to lower net income of \$1,952,000 and a change in net actuarial adjustments of \$737,000 for other post-retirement benefit obligations. In 2017 the Company recorded a net actuarial loss of \$417,000, which was primarily driven by a change in discount rate, compared to recording an actuarial gain of \$320,000 in 2016, which was primarily associated with a change in census and mortality.

LIQUIDITY AND CAPITAL RESOURCES

Cash Flow

The Company's primary sources of funds have been cash generated from operating activities and borrowings from third parties. Primary cash requirements are for operating expenses, capital expenditures, repayments of debt, and acquisitions.

Cash used in operating activities totaled \$6,528,000 for the year ended December 31, 2018. Net loss of \$4,782,000 negatively impacted operating cash flows. Non-cash deductions of depreciation and amortization, and goodwill impairment charge included in net income amounted to \$9,384,000 and \$2,403,000, respectively. Increased working capital resulted in cash used in operating activities of \$13,312,000. Changes in working capital primarily related to increases in accounts receivable and inventory, due to an increase in sales volume.

Cash used in investing activities totaled \$68,806,000 for the year ended December 31, 2018, primarily related to the acquisition of Horizon Plastics totaling \$63,005,000. The Company also invested \$5,801,000 related to purchases of property, plant and equipment for new programs, equipment improvements, and capacity expansion at the Company's production facilities. The Company anticipates spending approximately \$12,000,000 during 2019 on property, plant and equipment purchases for all of the Company's operations. The Company anticipates using cash from operations and its revolving line of credit to finance this capital investment. At December 31, 2018, purchase commitments for capital expenditures in progress were approximately \$3,461,000.

Cash provided by financing activities totaled \$50,445,000 for the year ended December 31, 2018. Cash activity primarily consisted of new term loan borrowings of \$45,000,000 and net borrowings on revolving loans of \$17,375,000, offset by the payoff of a previous term loan of \$6,750,000, net scheduled repayments of principal on outstanding term loans of \$3,375,000, payment of cash dividends of \$792,000 and payment of deferred loan costs of \$763,000.

At December 31, 2018, the Company had cash on hand of \$1,891,000 and an available revolving line of credit of \$22,625,000. If a material adverse change in the financial position of the Company should occur, or if actual sales or expenses are substantially different than what has been forecasted, the Company's liquidity and ability to obtain further financing to fund future operating and capital requirements could be negatively impacted.

Debt and Credit Facilities

On January 16, 2018, the Company entered into an A/R Credit Agreement with KeyBank National Association as administrative agent and various financial institutions party thereto as lenders (the "Lenders"). Pursuant to the terms of

the A/R Credit Agreement (i) the Company may borrow revolving loans in the aggregate principal amount of up to \$40,000,000 (the "US Revolving Loans") from the Lenders and term loans in the aggregate principal amount of up to \$32,000,000 from the Lenders, (ii) the Company's wholly-owned subsidiary, Horizon Plastics International, Inc., (the "Subsidiary") may borrow revolving loans in an aggregate principal amount of up to \$10,000,000 from the Lenders (which revolving loans shall reduce the availability of the US Revolving Loans to the Company on a dollar-for-dollar basis) and term loans in an aggregate principal amount of up to \$13,000,000 from the Lenders, (iii) the Company obtained a Letter of Credit Commitment of \$250,000, of which \$160,000 has been issued and (iv) the Company repaid the outstanding term loan balance of \$6,750,000. The Credit Agreement is secured by a guarantee of each U.S. and Canadian subsidiary of the Company, and by a lien on substantially all of the present and future assets of the Company and its U.S. and Canadian subsidiaries, except that only 65% of the stock issued by Corecomposites de Mexico, S. de R.L. de C.V. has been pledged.

Concurrent with the closing of the A/R Credit Agreement the Company borrowed the \$32,000,000 term loan and \$2,000,000 from the US Revolving loan and the Subsidiary borrowed the \$13,000,000 term loan and \$2,500,000 from revolving loans to provide \$49,500,000 of funding for the acquisition of Horizon Plastics.

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On March 14, 2019, the Company entered into the first amendment (“First Amendment”) to the A/R Credit Agreement with the Lenders. Pursuant to the terms of the First Amendment, the Company and Lenders agreed to modify certain terms of the A/R Credit Agreement. These modifications included (1) implementation of an availability block on the U.S. Revolving Loans reducing availability from \$40,000,000 to \$32,500,000, (2) modification to the definition of EBITDA to add back certain one-time expenses, (3) waiver of non-compliance with the leverage covenant as of December 31, 2018 and modification of the leverage ratio definition and covenant to eliminate testing of the leverage ratio until December 31, 2019, (4) waiver of non-compliance with the fixed charge covenant as of December 31, 2018 and modification of the fixed charge coverage ratio definition and covenant requirement, (5) implementation of a capital expenditure spend limit of \$7,500,000 during the first six months of 2019 and \$12,500,000 for the full year 2019, (6) an increase of the applicable interest margin spread for existing term and revolving loans, and (7) an increase in the commitment fees on any unused U.S. Revolving Loans.

Bank Covenants

The Company is required to meet certain financial covenants included in the Amended A/R Credit Agreement with respect to leverage ratios, fixed charge ratios, and capital expenditures, as well as other customary affirmative and negative covenants. As of December 31, 2018, the Company was not in compliance with its financial covenants associated with the loans made under the A/R Credit Agreement, but on March 14, 2019 entered into the First Amendment to the A/R Credit Agreement which waived the non-compliance as of December 31, 2018 and established new covenant levels. While management believes it will be able to meet its future covenants as established in the First Amendment, the ability to meet these covenants relies on certain operational and financial improvements consistent with our planned turn around and expected timetable. Should these improvements not materialize in the time frame planned, it could impact our ability to meet future covenants.

Shelf Registration

On November 14, 2017 the Company filed a universal shelf Registration Statement on Form S-3 (the “Registration Statement”) with the SEC in accordance with the Securities Act of 1933, as amended, which became effective on November 20, 2017. The Registration Statement registered common stock, preferred stock, debt securities, warrants, depositary shares, rights, units, and any combination of the foregoing, for a maximum aggregate offering price of up to \$50 million, which may be sold from time to time. The terms of any securities offered under the Registration Statement and intended use of proceeds will be established at the times of the offerings and will be described in prospectus supplements filed with the SEC at the times of the offerings. The Registration Statement has a three year term.

CONTRACTUAL OBLIGATIONS AND OFF-BALANCE SHEET TRANSACTIONS

The Company has the following minimum commitments under contractual obligations, including purchase obligations, as defined by the SEC. A “purchase obligation” is defined as an agreement to purchase goods or services that is enforceable and legally binding on the Company and that specifies all significant terms, including: fixed or minimum quantities to be purchased; fixed, minimum, or variable price provisions; and the approximate timing of the transaction. Other long-term liabilities are defined as long-term liabilities that are reflected on the Company’s balance sheet under accounting principles generally accepted in the United States. Based on this definition, the table below includes only those contracts which include fixed or minimum obligations. It does not include normal purchases, which are made in the ordinary course of business.

The following table provides aggregated information about the maturities of contractual obligations and other long-term liabilities as of December 31, 2018:

	2019	2020	2021	2022	2023 and after	Total
Long-term debt	\$3,375,000	\$4,500,000	\$5,625,000	\$5,625,000	\$22,500,000	\$41,625,000
Interest ^(A)	3,337,000	2,020,000	1,778,000	1,510,000	—	8,645,000

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Operating lease obligations	1,579,000	1,387,000	1,128,000	1,055,000	1,425,000	6,574,000
Contractual commitments for capital expenditures ^(B)	3,461,000	—	—	—	—	3,461,000
Post retirement benefits	1,157,000	440,000	471,000	487,000	5,521,000	8,076,000
Total	\$12,909,000	\$8,347,000	\$9,002,000	\$8,677,000	\$29,446,000	\$68,381,000

^(A) Variable interest rates were as of December 31, 2018.

^(B) Includes \$871,000 recorded on the balance sheet in accounts payable at December 31, 2018.

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As of December 31, 2018, the Company had no significant off-balance sheet arrangements.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Management's Discussion and Analysis of Financial Condition and Results of Operations discuss the Company's consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these consolidated financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. On an on-going basis, management evaluates its estimates and judgments, including those related to accounts receivable, inventories, goodwill and other long-lived assets, self-insurance, post retirement benefits, and income taxes. Management bases its estimates and judgments on historical experience and on various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Management believes the following critical accounting policies, among others, affect its more significant judgments and estimates used in the preparation of its consolidated financial statements.

Accounts Receivable Allowances

Management maintains allowances for doubtful accounts for estimated losses resulting from the inability of its customers to make required payments. If the financial condition of the Company's customers were to deteriorate, resulting in an impairment of their ability to make payments, additional allowances may be required. The Company has determined that a \$25,000 allowance for doubtful accounts is needed at December 31, 2018 and no allowance was needed at December 31, 2017. Management also records estimates for customer returns and deductions, discounts offered to customers, and for price adjustments. Should customer returns and deductions, discounts, and price adjustments fluctuate from the estimated amounts, additional allowances may be required. The Company had an allowance for estimated chargebacks of \$2,344,000 at December 31, 2018 and \$857,000 at December 31, 2017. There have been no material changes in the methodology of these calculations.

Inventories

Inventories, which include material, labor and manufacturing overhead, are valued at the lower of cost or net realizable value. The inventories are accounted for using the first-in, first-out (FIFO) method of determining inventory costs. Inventory quantities on-hand are regularly reviewed, and where necessary, provisions for excess and obsolete inventory are recorded based on historical and anticipated usage. The Company has recorded an allowance for slow moving and obsolete inventory of \$957,000 at December 31, 2018 and \$624,000 at December 31, 2017.

Long-Lived Assets

Long-lived assets consist primarily of property, plant and equipment and finite-lived intangibles. The Company acquired substantially all of the assets of Horizon Plastics on January 16, 2018, which resulted in approximately \$16,770,000 of finite-lived intangibles and \$12,994,000 of property, plant and equipment, all of which were recorded at fair value. The recoverability of long-lived assets is evaluated by an analysis of operating results and consideration of other significant events or changes in the business environment. The Company evaluates, whether impairment exists for long-lived assets on the basis of undiscounted expected future cash flows from operations before interest. There was no impairment of the Company's long-lived assets for the years ended December 31, 2018, 2017 and 2016.

Goodwill

The purchase consideration of acquired businesses have been allocated to the assets and liabilities acquired based on the estimated fair values on the respective acquisition dates. Based on these values, the excess purchase consideration

over the fair value of the net assets acquired was allocated to goodwill. The Company accounts for goodwill in accordance with FASB ASC Topic 350, Intangibles - Goodwill and Other. FASB ASC Topic 350 prohibits the amortization of goodwill and requires these assets be reviewed for impairment at each reporting unit. As a result of the Horizon Plastics acquisition on January 16, 2018 and the status of its integration, the Company established two reporting units, Core Traditional and Horizon Plastics.

The annual impairment tests of goodwill may be completed through qualitative assessments, however the Company may elect to bypass the qualitative assessment and proceed directly to a quantitative impairment test for any reporting unit in any period. The Company may resume the qualitative assessment for any reporting unit in any subsequent period.

Under a qualitative and quantitative approach, the impairment test for goodwill consists of an assessment of whether it is more-likely-than-not that a reporting unit's fair value is less than its carrying amount. As part of the qualitative assessment, the Company considers relevant events and circumstances that affect the fair value or carrying amount of the Company. Such events and circumstances could include macroeconomic conditions, industry and market conditions, cost factors, overall financial

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performance, reporting unit specific events and capital markets pricing. The Company places more weight on the events and circumstances that most affect the Company's fair value or carrying amount. These factors are all considered by management in reaching its conclusion about whether to perform step one of the impairment test. If the Company elects to bypass the qualitative assessment for any reporting unit, or if a qualitative assessment indicates it is more-likely-than-not that the estimated carrying value of a reporting unit exceeds its fair value, the Company proceeds to a quantitative approach.

As part of the quantitative assessment, the Company determines fair values for each reporting unit using a combination of the market approach and the income approach. The Company assesses the valuation methodology based upon the relevance and availability of the data at the time of the valuation. If multiple valuation methodologies are used, the results are weighted appropriately. Valuations using the market approach are derived from metrics of publicly traded companies or historically completed transactions of comparable businesses. Under the income approach, fair value is determined based on the present value of estimated future cash flows, discounted at an appropriate risk-adjusted rate. We use our internal forecasts to estimate future cash flows and include an estimate of long-term future growth rates based on our most recent views of the long-term outlook for each reporting unit. Determining the fair value of a reporting unit requires judgment and involves the use of significant estimates and assumptions. The Company based its fair value estimates on assumptions that it believes are reasonable, but are uncertain and subject to changes in market conditions.

The Company's annual impairment assessment at December 31, 2018 consisted of a quantitative analysis for both reporting units. It concluded that the carrying value of Core Traditional was greater than the fair value, which resulted in a goodwill impairment charge of \$2,403,000, representing all the goodwill related to the Core Traditional reporting unit. The analysis of the Company's other reporting unit, Horizon Plastics, indicated no goodwill impairment charge as the excess of the estimated fair value over the carrying value of its invested capital was approximately 23% of the book value of its net assets.

There was no impairment of the Company's goodwill for the years ended December 31, 2017 and 2016.

Self-Insurance

The Company is self-insured with respect to its Columbus and Batavia, Ohio; Gaffney, South Carolina; Winona, Minnesota; and Brownsville, Texas medical, dental, and vision claims and Columbus and Batavia, Ohio workers' compensation claims, all of which are subject to stop-loss insurance thresholds. The Company has recorded an estimated liability for self-insured medical, dental and vision claims incurred but not reported and worker's compensation claims incurred but not reported at December 31, 2018 and December 31, 2017 of \$960,000 and \$862,000, respectively.

Post Retirement Benefits

Management records an accrual for post retirement costs associated with the health care plan sponsored by the Company for certain employees. Should actual results differ from the assumptions used to determine the reserves, additional provisions may be required. In particular, increases in future healthcare costs above the assumptions could have an adverse effect on the Company's operations. The effect of a change in healthcare costs is described in Note 12 of the Notes to Consolidated Financial Statements. Core Molding Technologies had a liability for post retirement healthcare benefits based on actuarially computed estimates of \$8,076,000 at December 31, 2018 and \$9,050,000 at December 31, 2017.

Revenue Recognition

The Company historically has recognized revenue from two streams, product revenue and tooling revenue. Product revenue is earned from the manufacture and sale of sheet molding compound and thermoset and thermoplastic products. Revenue from product sales is generally recognized as products are shipped, as the Company transfers control to the customer and is entitled to payment upon shipment. In limited circumstances, the Company recognizes revenue from product sales when products are produced and the customer takes control at our production facility.

Tooling revenue is earned from manufacturing multiple tools, molds and assembly equipment as part of a tooling program for a customer. Given that the Company is providing a significant service of producing highly interdependent component parts of the tooling program, each tooling program consists of a single performance obligation to provide the customer the capability to produce a single product. Based on the arrangement with the customer, the Company recognizes revenue either at a point in time or over time. When the Company does not have an enforceable right to payment, the Company recognizes tooling revenue at a point in time. In such cases, the Company recognizes revenue upon customer acceptance, which is when the customer has legal title to the tools. The Company historically recognized all tooling revenue at a point in time, upon customer acceptance, before the adoption of ASU 2014-09.

Certain tooling programs include an enforceable right to payment. In those cases, the Company recognizes revenue over time based on the extent of progress towards completion of its performance obligation. The Company uses a cost-to-cost measure of progress for such contracts because it best depicts the transfer of value to the customer and also correlates with the amount of consideration to which the entity expects to be entitled in exchange for transferring the promised goods or services to the customer.

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Under the cost-to-cost measure of progress, progress towards completion is measured based on the ratio of costs incurred to date to the total estimated costs at completion of the performance obligation. Revenues are recorded proportionally as costs are incurred.

Income Taxes

Management assesses the need for a valuation allowance to reduce its deferred tax assets to the amount that it believes is more likely than not to be realized. The Company has considered future taxable income in assessing the need for a valuation allowance and has not recorded a valuation allowance due to anticipating it being more likely than not that the Company will realize these benefits.

An analysis is performed to determine the amount of the deferred tax asset that will be realized. Such analysis is based upon the premise that deferred tax benefits will be realized through the generation of future taxable income. Management reviews all available evidence, both positive and negative, to assess the long-term earnings potential of the Company using a number of alternatives to evaluate financial results in economic cycles at various industry volume conditions. Other factors considered are the Company's relationships with its major customers, and any recent customer diversification efforts. The projected availability of taxable income to realize the tax benefits from the reversal of temporary differences before expiration of these benefits are also considered. Management believes that, with the combination of available tax planning strategies and the maintenance of its relationships with its key customers, earnings are achievable in order to realize the net deferred tax asset.

Management recognizes the financial statement effects of a tax position when it is more likely than not the position will be sustained upon examination.

Recent Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2014-09, Revenue from Contracts with Customers (Topic 606), which supersedes the revenue recognition requirements in ASC 605, Revenue Recognition. ASC Topic 606 is based on the principle that revenue is recognized to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. ASC Topic 606 also requires additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. The effective date for ASC Topic 606, as updated by ASU No. 2015-14, is the first quarter of fiscal year 2018. ASU 2014-09 affects the timing of certain revenue-related transactions primarily resulting from the earlier recognition of the Company's tooling sales and costs. The Company adopted this update as required through a cumulative adjustment to equity and contract assets of \$1,069,000 on January 1, 2018. The transitional practical expedient related to contract modifications has been applied and the Company has not retrospectively restated contracts that were modified prior to January 1, 2018. Therefore, the comparative information has not been adjusted and continues to be reported under Topic 605. See Note 2, Summary of Significant Accounting Policies, for the Company's policy on Revenue Recognition and Note 16, Changes in Accounting Policies, for further discussion on the effect of the adoption of ASC Topic 606 on the Company's Consolidated Financial Statements.

In February 2016, the FASB issued ASU No. 2016-02, Leases (Topic 842). This update requires organizations to recognize lease assets and lease liabilities on the balance sheet and also disclose key information about leasing arrangements. This ASU is effective for annual reporting periods beginning on or after December 15, 2018, and interim periods within those annual periods. Earlier application is permitted for all entities as of the beginning of an interim or annual period.

In accordance with ASU 2016-02, we plan to elect not to recognize lease assets and lease liabilities for leases with a term of twelve months or less. The ASU requires a modified retrospective transition method, or a transition method

option under ASU 2018-11, with the option to elect a package of practical expedients that permits the Company to: a.) not reassess whether expired or existing contracts contain leases, b.) not reassess lease classification for existing or expired leases and c.) not consider whether previously capitalized initial direct costs would be appropriate under the new standard. We expect to elect the 'package of practical expedients', which permits us not to reassess under the new standard our prior conclusions about lease identification, lease classification and initial direct costs. We do not expect to elect the use-of hindsight.

The Company is finalizing its assessment of the impact of this pronouncement and revised guidance and anticipates it will impact the presentation of our lease assets and liabilities and associated disclosures related to the recognition of lease assets and liabilities that are not included in the Consolidated Balance Sheets under existing accounting guidance. The adoption of pronouncement will have a significant impact on our consolidated balance sheet, but is not expected to have a significant impact on our consolidated statement of income or statement of cash flows. We will adopt this new accounting standard on its effective date of January 1, 2019 and apply its provisions beginning on the effective date. We anticipate the dollar impact of recording leases on our consolidated balance sheet to be within a range of \$6,000,000 to \$7,000,000.

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In January 2017, FASB issued ASU No. 2017-04, Intangible - Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment. The amendments in this update eliminate the second step of the goodwill impairment test that require a hypothetical purchase price allocation. The ASU requires that, if a reporting unit's carrying value exceeds its fair value, an impairment charge would be recognized for the excess amount, not to exceed the carrying amount of goodwill. We early adopted this ASU during the fourth quarter of 2018. See Note 2, Summary of Significant Accounting Policies, for discussion of our 2018 goodwill impairment charge.

In March 2017, FASB issued ASU No. 2017-07, Compensation - Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost ("ASU 2017-07"). The amendments in this update require that an employer disaggregate the service cost component from the other components of net periodic cost (benefit) and report that component in the same line item as other compensation costs arising from services rendered by employees during the period. The other components of net periodic cost (benefit) are required to be presented in the statement of operations separately from the service cost component and outside of operating earnings. The amendment also allows for the service cost component of net periodic cost (benefit) to be eligible for capitalization when applicable. The guidance was effective for the Company on January 1, 2018 and interim periods within that reporting period. The income statement presentation of the components of net periodic cost (benefit) was applied retrospectively, while limiting the capitalization of net periodic cost (benefit) in assets to the service cost component was applied prospectively. The Company adopted this standard update as required on January 1, 2018 and the impact of adoption resulted in a reclassification of all components of net periodic benefit from operating earnings to other income in the amount of \$48,000, \$49,000 and \$18,000 for the years ended December 31, 2018, 2017 and 2016, respectively.

In August 2018, the SEC adopted the final rule under SEC Release No. 33-10532, Disclosure Update and Simplification, amending certain disclosure requirements that were redundant, duplicative, overlapping, outdated or superseded. In addition, the amendments expanded the disclosure requirements on the analysis of stockholders' equity for interim financial statements. Under the amendments, an analysis of changes in each caption of stockholders' equity presented in the balance sheet must be provided in a note or separate statement. The analysis should present a reconciliation of the beginning balance to the ending balance of each period for which a statement of comprehensive income is required to be filed. This final rule was effective on November 5, 2018. The adoption of SEC Release No. 33-10532 does not result in a material change to the Company's disclosures.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Core Molding Technologies' primary market risk results from changes in the price of commodities used in its manufacturing operations. Core Molding Technologies is also exposed to fluctuations in interest rates and foreign currency fluctuations associated with the Mexican Peso and Canadian Dollar. Core Molding Technologies does not hold any material market risk sensitive instruments for trading purposes.

Core Molding Technologies has the following three items that are sensitive to market risks at December 31, 2018: (1) Revolving Loans and the Term Loan under the Credit Agreement which bears a variable interest rate; (2) foreign currency purchases in which the Company purchases Mexican Pesos or Canadian Dollars with United States dollars to meet certain obligations that arise due to operations at the facilities located in Mexico or Canada; and (3) raw material purchases in which Core Molding Technologies purchases various resins and fiberglass for use in production. The prices and availability of these materials are affected by the prices of crude oil and natural gas as well as processing capacity versus demand.

Assuming a hypothetical 10% change in short-term interest rates, interest paid on the Company's Revolving Loan and Term Loan would impact the interest paid by the Company, as the interest rate on these loans is based upon LIBOR; however, it would not have a material effect on earnings before taxes.

Assuming a hypothetical 10% decrease in the United States dollar to Mexican Peso or Canadian Dollar exchange rates, the Company would be impacted by an increase in operating costs, which would have an adverse effect on operating margins. To mitigate risk associated with foreign currency exchange, the Company from time to time will enter into forward contracts to exchange a fixed amount of U.S. dollars for a fixed amount of Mexican Pesos or Canadian Dollars, which will be used to fund future Mexican Peso or Canadian Dollar cash flows, see Note 14.

Assuming a hypothetical 10% increase in commodity prices, Core Molding Technologies would be impacted by an increase in raw material costs, which would have an adverse effect on operating margins.

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Shareholders and the Board of Directors of Core Molding Technologies, Inc. and Subsidiaries
Columbus, Ohio

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Core Molding Technologies, Inc. and Subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of income (loss), comprehensive income (loss), stockholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2018, and the related notes and Schedule II (collectively referred to as the "financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework: (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 2018 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control - Integrated Framework: (2013) issued by COSO.

Basis for Opinions

The Company's management is responsible for these financial statements, 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 financial statements and an opinion on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the financial statements 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. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. As permitted, the Company has excluded the operations of Horizon Plastics International Inc. acquired during 2018, which is described in Note 7 of the consolidated financial statements, from

the scope of management's report on internal control over financial reporting. As such, it has also been excluded from the scope of our audit of internal control over financial reporting. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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.

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

/s/ Crowe LLP

We have served as the Company's auditor since 2009.

Columbus, Ohio
March 18, 2019

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Core Molding Technologies, Inc. and Subsidiaries
Consolidated Statements of Income (Loss)

	Years Ended December 31,		
	2018	2017	2016
Net sales:			
Products	\$256,217,000	\$148,623,000	\$146,624,000
Tooling	13,268,000	13,050,000	28,258,000
Total net sales	269,485,000	161,673,000	174,882,000