



FACT SHEET

MISSION STATEMENT

LMI's mission is to drive value by consistently providing superior products, services and solutions.

VISION STATEMENT

LMI will be a leader in state-of-the-art mixing and technical solutions for polymeric compounds.

HISTORY

- 1994** Cambridge facility purchased by Lauren International
- 1997** Joint Venture Agreements for LMI Custom Mixing between Lauren International and Meteor Gummiwerke
- 1997** Building and construction began. Facility is the tallest commercial building in Cambridge, OH and includes the largest company sign in Guernsey County
- 1998** 1st mixing line completed. Plant capacity 20 million pounds
- 1998** 1st batch dropped
- 2006** In-line straining capabilities added
- 2007** 2nd mixing line completed. Plant capacity 40 million pounds
- 2014** Toyoda Gosei acquires Meteor Gummiwerke. LMI Joint Venture now between Lauren and TG-Meteor
- 2015** 18,200 ft² climate-controlled finished goods warehouse expansion
- 2016** 25,700 ft² climate-controlled 2-story raw material and production warehouse
- 2017** 3rd mixing line completed. Plant capacity 60 million pounds
- 2017** 7,500 ft² office addition

PLANT INFORMATION

- Total plant square footage: 110,000
- 50,000 square feet is NEW
- Approximately 200 people employed during construction

ORIGINAL CONSTRUCTION

- 1,400 cubic yards of concrete
- 2,940 tons of concrete
- 90 tons of concrete reinforcing rebar
- 10,000 feet of rebar
- 18,000 masonry units
- 350 tons of structural steel
- 750 tons of gravel under the concrete floors
- 1,200 gallons of paint (6.2 tons)
- 18 miles of control system cabling
- 37,110 feet (7 miles) of electrical conduit (19.87 tons)
- 249,500 feet (47.25 miles) of electrical wire
- 3,710 wire terminations
- 23,000 square feet of new roof
- 9,300 feet of water and steam piping
- 1,800 tons of limestone (parking lots and access road)

CONTROL SYSTEM

- Mesabi Controls (St. Paul, MN) computer control system
- Upgraded Windows 10 Platform
- Full scheduling and planning
- Inventory control system (bar coding of weights & lots)
- Recipe management system
- All Allen-Bradley PLC's
- All PLC's on plant-wide network
- Integrated with Macola business software



LMI CUSTOM MIXING, LLC

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VIDEO SYSTEM

- HikVision video system
- Mixing station monitors
- Continuous recording
- Internet-capable digital image formatting
- 26 cameras throughout the facility

COMPUTER NETWORK

- Computer controlled PM system
- 24 total computers, all networked
- Web address: www.lmimix.com

BULK FILLER SYSTEM

- Noltec (Lino Lakes, MN) bulk handling system
- Integrated storage, conveying and weighing of bulk fillers
- 3 Carbon black silos - 2,700 ft³ (each), 24,000 Lb/hr capacity
- 3 Mineral filler silos - 2,700 ft³ (each), 50,000 Lb/hr capacity
- System expandable to 9 silos
- Automatic weightment and mixer injection
- Plant-wide central vacuum unit
- One B.E.S.T. bulk supersack unloading station
- Bulk material testing equipment:
 - Titration unit (iodine absorption)
 - Wet sieve analysis (grit content)
 - Moisture analyzer (water content)
 - Carbon black fines
 - Carbon black pellet hardness

BULK OIL SYSTEM

- Five 750 gallon bulk tank system for oils and plasticizers
- Temperature controlled tanks with in-line filtering
- Budzar automatic weightment and mixer injection
- Two exterior 12,000 gallon bulk oil silos

MASTERBATCH SKID UNLOADER(S)

- VMI (Stow, OH) Masterbatch Cutter-Feeders
- Automatic cut and weightment
- Computer controlled
- Capability of cross blending materials

MINOR INGREDIENT SYSTEM

- TG Meteor proprietary chemical weightment system
- Fabricated by National Bulk Equipment (Holland, MI)
- 100-bin capability
- Infinitely expandable
- 1 gram weightment tolerance
- Individual ingredient verification
- Completely computer-controlled

MIXERS

- 3 IM 135 Intermesh Mixers (HF Mixing Group, Germany)
- 1,200 HP DC drive system (Mixer 1)
- 1,200 HP Hagglunds hydraulic drive system (Mixer 2)
- 1,200 HP AC drive system (Mixer 3)
- Budzar 3-zone mixer temperature control 50 F to 250 F
- Digit servo hydraulic system for charge door, drop door and ram control
- Minor ingredient verification and weight validation
- Polymer verification and weight validation
- Complete batch cycle trend reporting

MILLS

- Each mixing line equipped with two (2) RCM or HF hydraulic mills
- Each mill equipped with two (2) 200 horsepower hydraulic motors
- Independent speed adjustment on each roll
- Independent temperature control on each roll
- Digital gap adjustment
- Temperature range from 50 F to 250 F
- Control system downloads – roll speeds, gap settings, and temperature settings
- Data collection: computer-monitored temperature differential and GPM
- Strip mill overhead pneumatic material stock blenders

GEAR PUMP STRAINER

- 3 in-line gear pump extruders
- 60–180 mesh compound straining
- Fully integrated Allen Bradley control system
- Fully integrated Budzar temperature control system
- Complete breaker plate cleaning station

PELLETIZER

- Gala 7 (Eagle Rock, VA) Underwater Pelletizer
- Formation of uniform pellets for rubber or plastic compounds
- Capable of integration with straining equipment

BATCH-OFF UNIT

- Midlands Millroom Supply (Canton, OH) Cantilever Batch-Off Unit (Line 1)
- VMI (Netherlands) Cantilever Batch-Off Unit (Line 2)
- UMD Automation Systems Cantilever Batch Off Unit (Line 3)
- Integrated loop control with high speed fans for maximum cooling and drying
- Cut stock or wig-wag packaging

LABORATORY

- 3 Alpha MV-2000 Viscometers
- 3 Alpha PMDR-2000P Rheometers
- Alpha 2000M Volumetric Sample Cutter
- 18"x18" hydraulic lab curing press
- Alpha 10K Tensometer
- 2 Precision Scientific Lab Convection Ovens
- Konica Minolta Spectrophotometer
- 2 Zwick Durometer Testers
- Sartorius specific gravity tester
- Centralized computer network for QC data storage
- 4.25 Liter Reliable 260 Lab Mixer
- 18" Reliable Lab Mill
- Pilot Liquid Cure Medium (LCM) extrusion line
- Benz Block Oven
- UV Chamber
- Thermo Scientific FTIR
- Keyence digital lab microscope HFT 2000 DSC