



MacLean-Fogg
COMPONENT SOLUTIONS

MACLEAN-FOGG COMPONENT SOLUTIONS

COMPANY OVERVIEW

OCT2021

MACLEAN-FOGG COMPANY OVERVIEW

MacLean-Fogg Company is a group of global enterprises which partner with key customers to engineer, manufacture, and distribute products for the automotive and power utility marketplaces worldwide.



1925 **Our Beginning**

Founded in 1925, MacLean-Fogg offered one lock nut to North America's railroads.



3,600 **Our Employees**

MacLean-Fogg's worldwide workforce consists of more than 3,200 dedicated employees.



2 Businesses **Our Divisions**

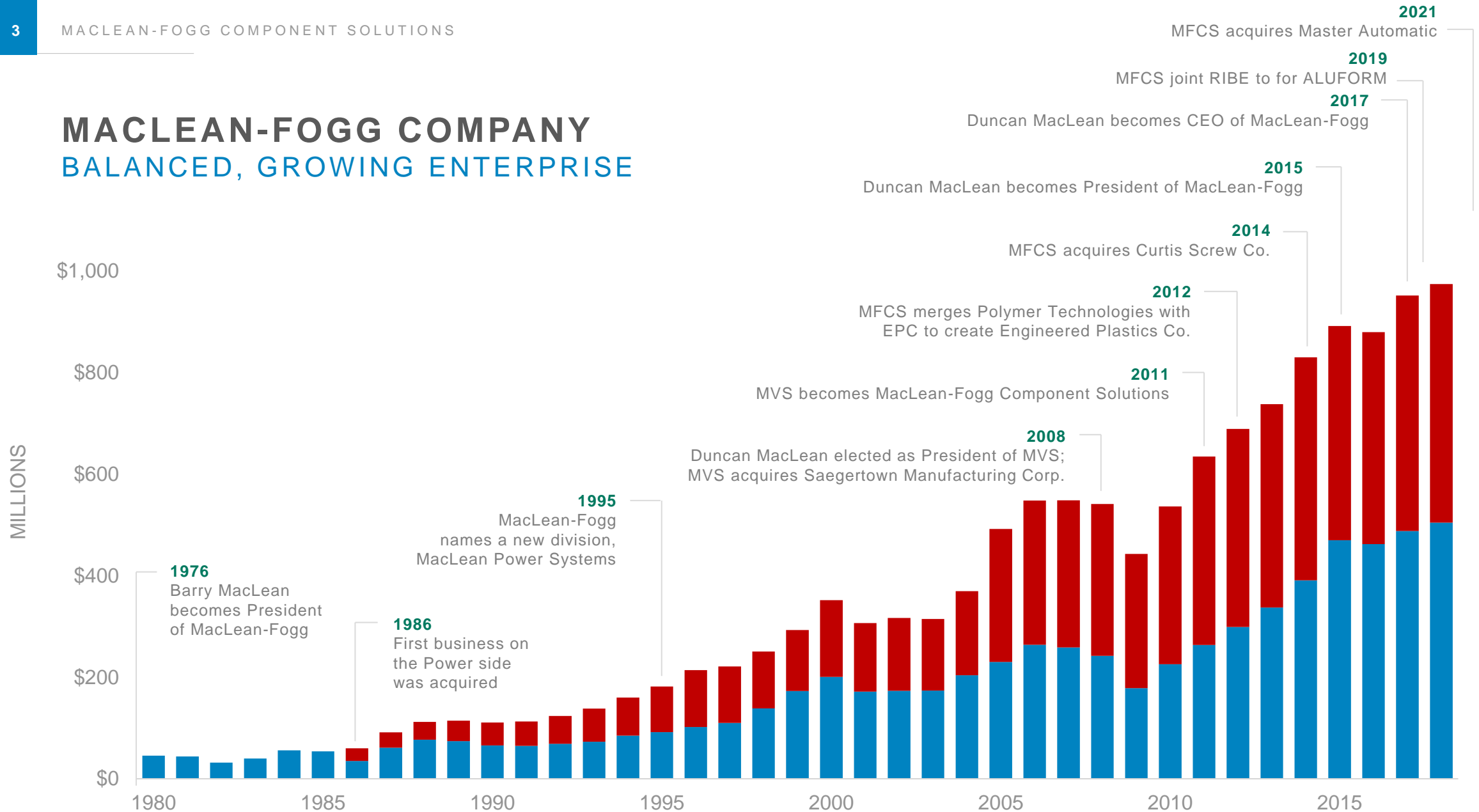
MacLean-Fogg is comprised of two primary businesses:
MacLean-Fogg Component Solutions
& MacLean Power Systems



28 **Our Facilities**

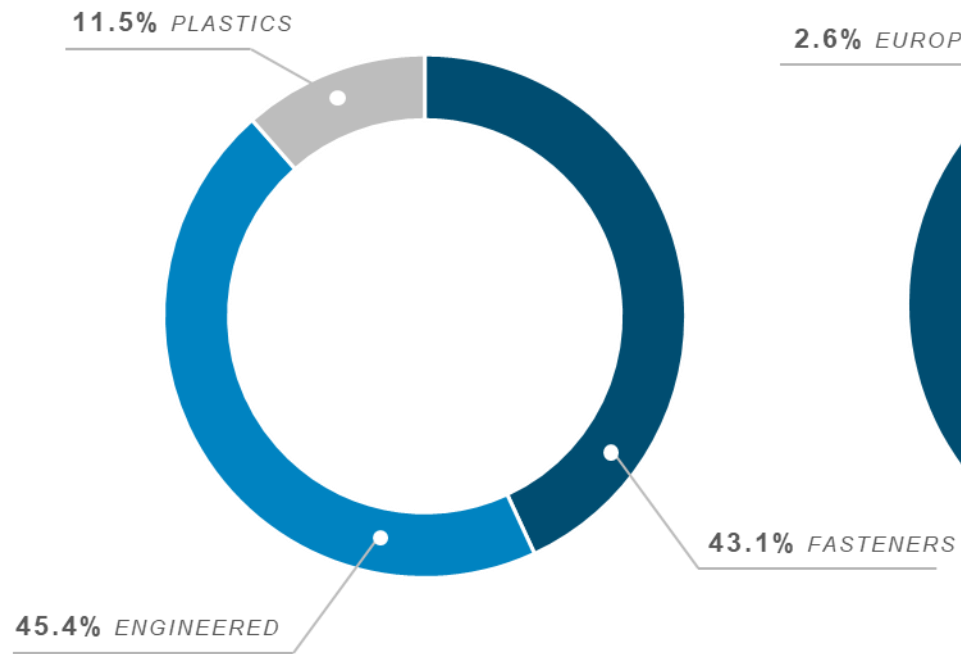
MacLean-Fogg has 26 manufacturing facilities throughout North America, Europe and Asia.

MACLEAN-FOGG COMPANY BALANCED, GROWING ENTERPRISE

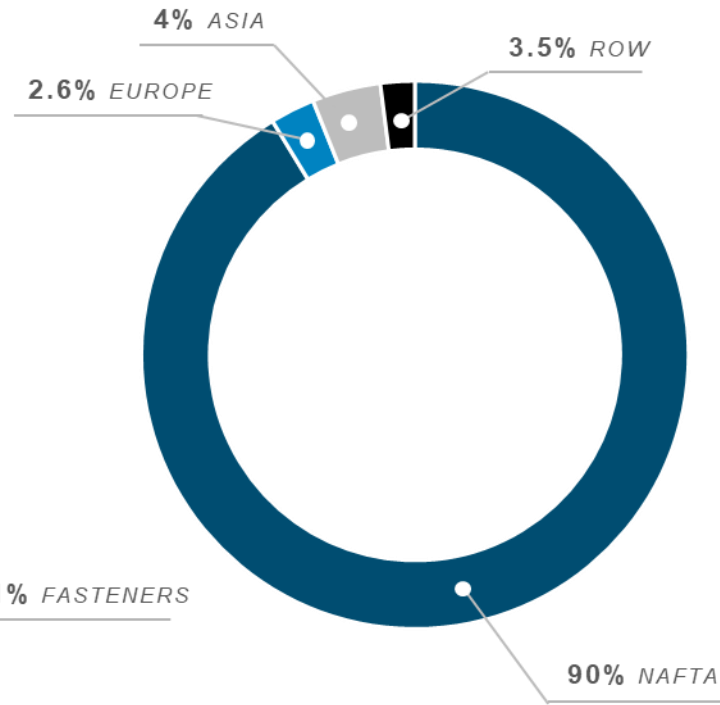


2020 MFCS REVENUE

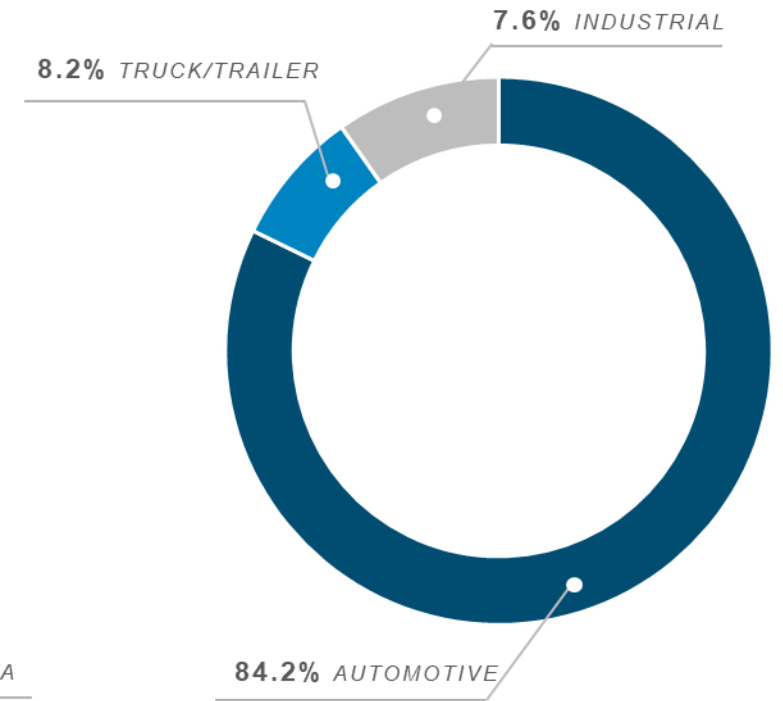
BY DIVISION



BY REGION

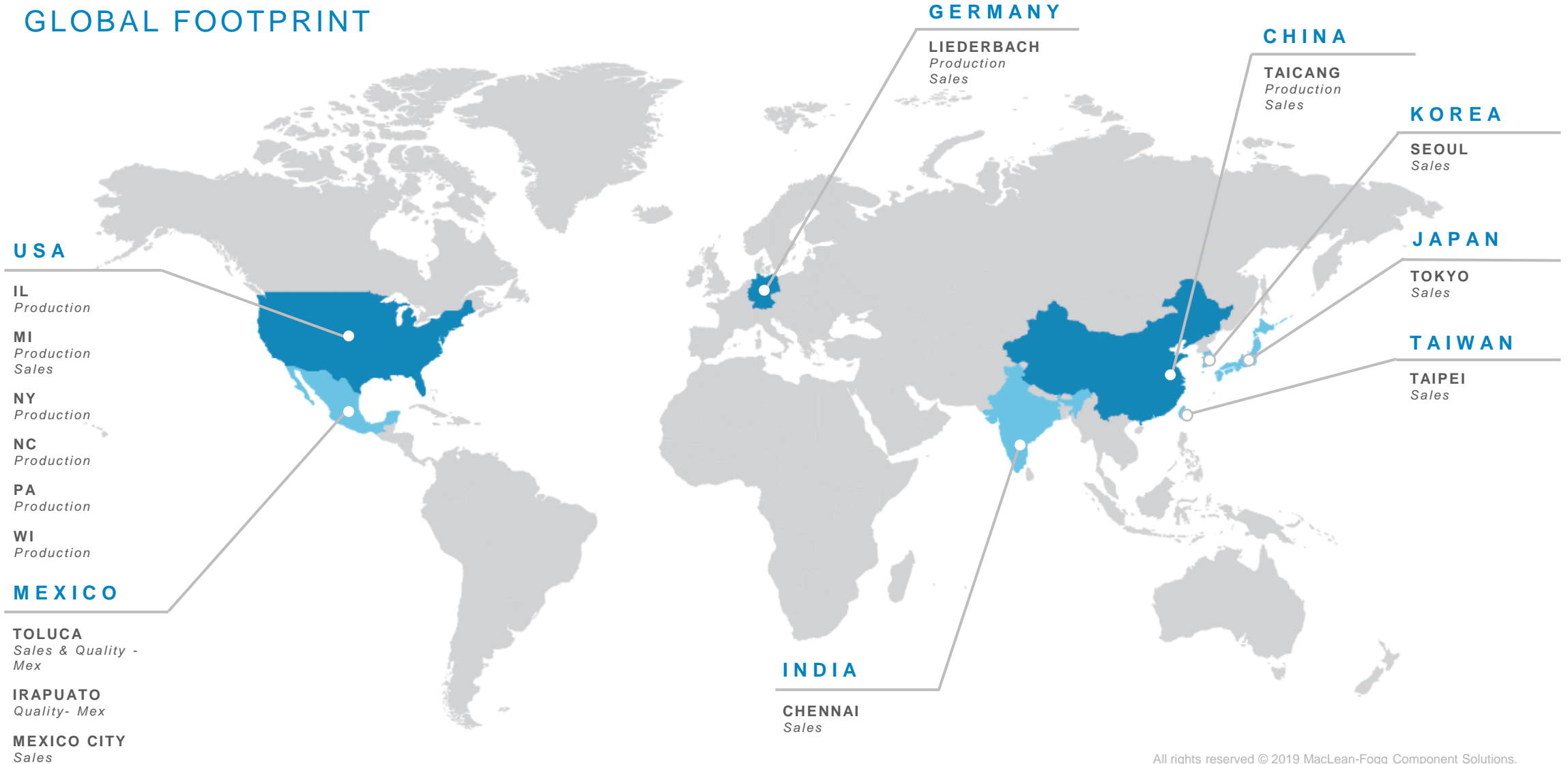


BY MARKET

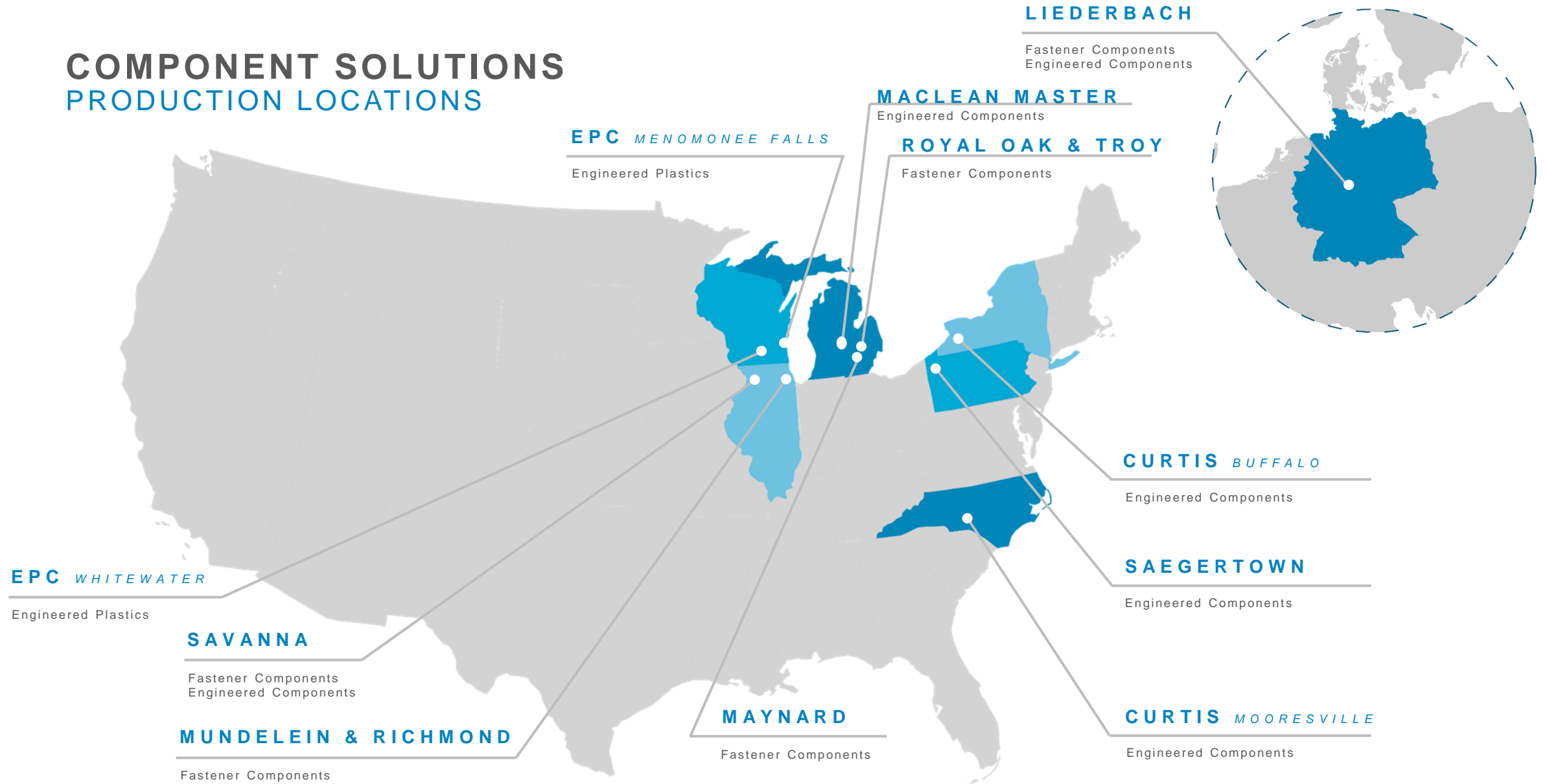


\$400.6M TOTAL SALES

COMPONENT SOLUTIONS GLOBAL FOOTPRINT



COMPONENT SOLUTIONS PRODUCTION LOCATIONS



CERTIFICATIONS, ORGANIZATIONS & AWARDS



ISO
9001:2015

TS
16949:2016

ISO
14001:2015

ISO
17025:2005



MAPP PMPA



MFCS NAMED A
TOP 100 SUPPLIER
IN NORTH AMERICA BY
AUTOMOTIVE NEWS
ONCE AGAIN



GENERAL MOTORS
SUPPLIER
of the
YEAR

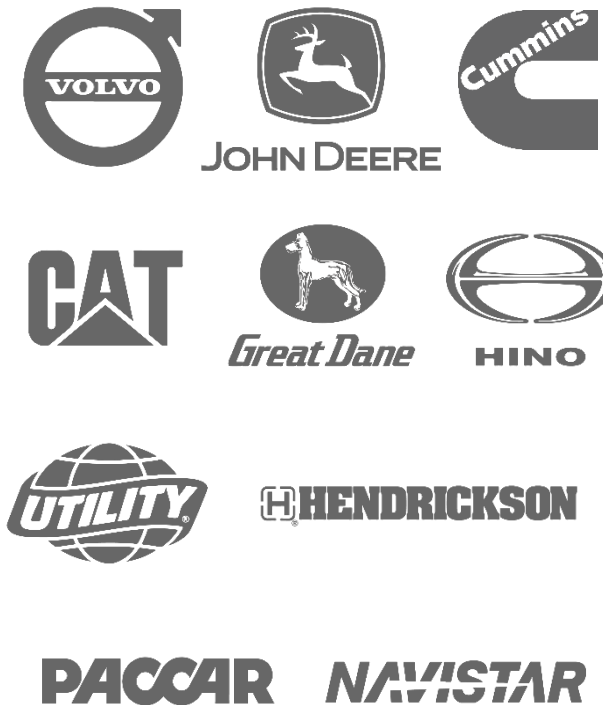


A FEW OF OUR CUSTOMERS

AUTOMOTIVE



H.D. TRUCK & OFF-HIGHWAY



INDUSTRIAL



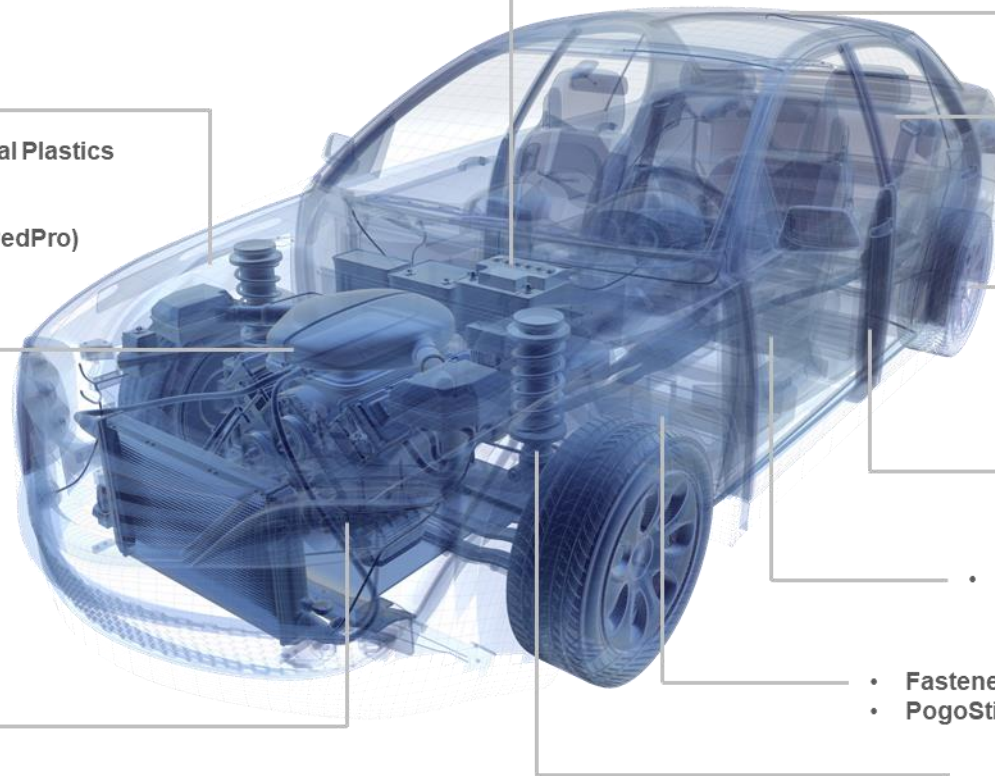
AUTOMOTIVE APPLICATIONS

- Connection, Plugs and Fittings
- Driveline Fasteners
- Parking Lock Components
- Transmission Gear Blanks

- Injection Molded Underhood Functional Plastics
- Insert Molded Brackets
- Insert Molded Hood Levelers
- Pedestrian Protection Hood Leveler (PedPro)

- Exhaust Manifold Fasteners
- Fluid Plugs
- Turbocharger Fasteners

- Headlight Adjustment Linkages
- OBJ/SBJ Ball Studs



- Aluminum Spin Weld Nuts

- Insert Molded Spare Tire Tie Downs

- Decorative Wheel Bolts
- Decorative Wheel Nuts

- Exhaust System Fasteners

- Nut Inserts for Molded Components

- Fasteners
- PogoStick Stabilizer Linkage

- Shock Rings & Extensions

PRODUCT OFFERINGS



FASTENER COMPONENTS

Wide range of internally and externally threaded fasteners for specialized applications



ENGINEERED COMPONENTS

Value-added, unique, application specific components for automotive, appliance, heavy duty, mining, hand tool & industrial applications



MACLEAN MASTER

With over 75 years of experience, MacLean Master's range of capabilities, technology and products make us a leader in the precision machining industry.



ENGINEERED PLASTICS

Close tolerance engineered functional plastics for a variety of applications

ALUFORM USA
A RIBE & MACLEAN-FOGG COMPANY

HIGH STRENGTH ALUMINUM BOLTS



MacLean-Fogg
COMPONENT SOLUTIONS

RIBE

ALUFORM USA
Aluminum Fasteners

CORE TECHNOLOGIES



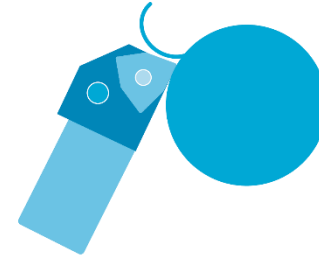
COLD FORMING



WARM FORMING



HOT FORGING



**CNC & SCREW
MACHINING**



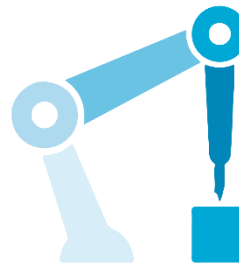
HEAT TREAT



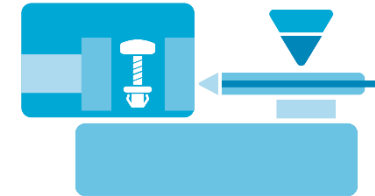
THREAD TAPPING



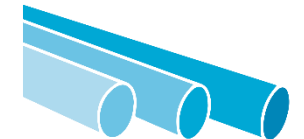
DEEP DRAWING



**AUTOMATED
ASSEMBLY**



**INJECTION & INSERT
MOLDING**



**ENGINEERED &
EXOTIC MATERIALS**

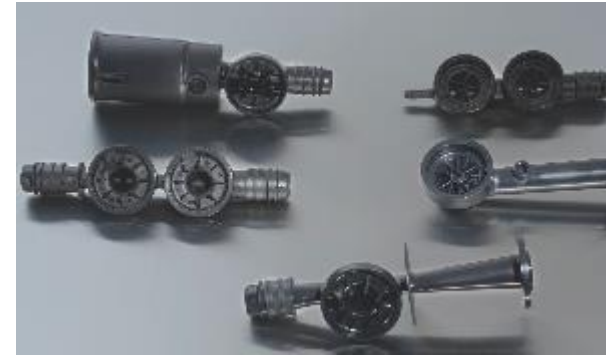
FASTENER COMPONENTS



ENGINEERED COMPONENTS



ENGINEERED PLASTICS



MACLEAN MASTER RANGE

STEERING & CLIMATE CONTROL COMPONENTS



STEERING COMPONENTS



DRIVETRAIN & POWERTRAIN COMPONENTS



TRANSMISSION CLUTCH RACES & GEAR BLANKS



Rack & Pinion Components



MACHINED FORGINGS



COMPLEX ASSEMBLIES

TRANSMISSION VALVES, SLEEVES & PLUGS

Master currently manufactures more than 100 different transmission components.



COMPLEX ASSEMBLIES

PRESSURE RELIEF ASSEMBLY



DOG CLUTCH #1691



SENSOR ASSEMBLY



DIGITAL SAMPLE CASE

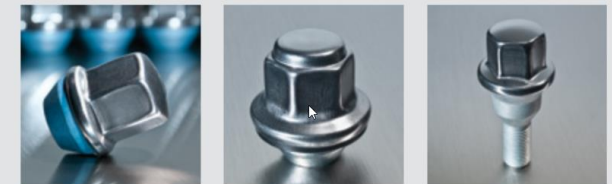
Click on the link to see the sample case:



Mundelein – [PRODUCTS](#)



Maynard – [PRODUCTS](#)



Royal Oak – [PRODUCTS](#)



Engineered Solutions – [PRODUCTS](#)



What do the top global
OEMs have in common?
MFCS components.



MFCS AUTOMOTIVE OEM/TIER SUPPLY FURTHER GLANCE



- **Machining** – We have capability to *Hot Forging, Warm & Cold Forming* and **machine over 200 million pieces a year**. #1 machined product line is 8/9/10 speed transmission gear blanks for ZF, FCA, Ford, Toyota, Aisin, and GM among others. We also machine smaller safety critical transmission components, engine timing components and machined fasteners. We also hot forge and cold form net shape components.
- **Fasteners** – We make over **1.25 billion fasteners/year**. **M6-M30+** locknuts, wheel fasteners and high-temp/high vibration specialty fasteners are our key niches. On the high temp/high vibe applications, that is our strongest niche and our products are truly the best in the world (20% of our sales are exported to China).
- **Plastics** – We have a growing engineered plastics business based in Wisconsin. **Functional black plastics** is their focus. Great track record in helping customers take expensive, heavy metal components and converting them to plastic components. We've won two Society of Plastics Engineers awards in the past three years. Key supplier to innovative products from Magna, Dayco, Stackpole and JCI.
- **Stamping** – MFCS **stamp about 250 million pieces of 436 and 304 stainless steel a year on ICOP presses**. We're looking to expand that technical competence to other areas beyond wheel fasteners.



MacLean-Fogg
COMPONENT SOLUTIONS

THANK YOU

FOR MORE INFORMATION, CONTACT
MECS@MACLEANFOGG.COM

MEXICO SALES OFFICE

OZIEL HERNANDEZ | REGIONAL SALES
MANAGER

OHERNANDEZ@MACLEANFOGG.COM

BENITO JUAREZ 1001 - 107 | METEPEC,
MÉXICO

MOBILE +52 (722) 822 1199