

**MAHLE**

*Driven by performance*

**MADE BY  
MAHLE**

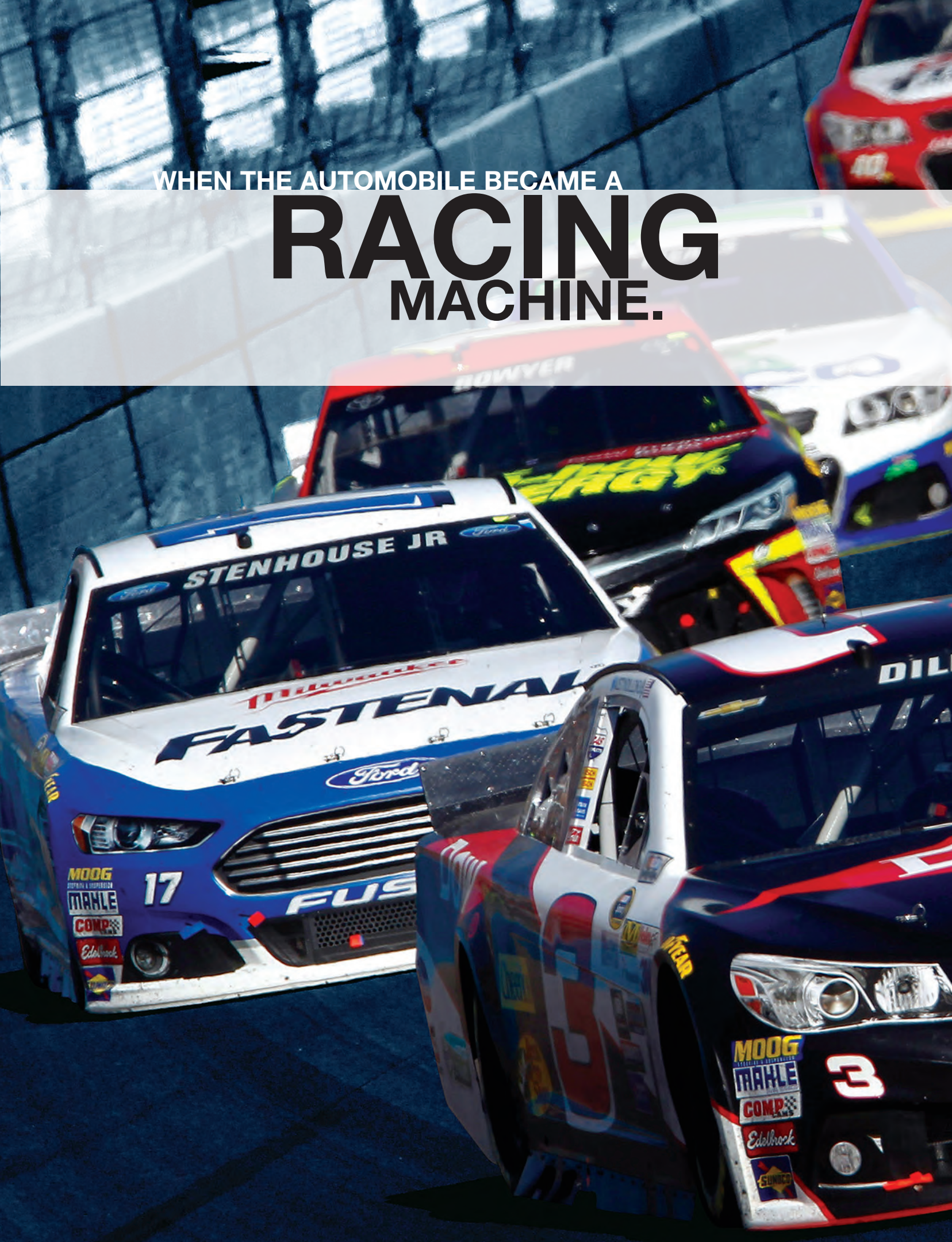
THE THINGS THAT KEEP US MOVING

AFTERMARKET



WHEN THE AUTOMOBILE BECAME A

# RACING MACHINE.



After the turn of the century, the automobile got up to speed. The first Indianapolis 500 was held in 1911, the first Italian grand prix was 1921 in Brescia and the first 24 hours of Le Mans raced in 1923. While the Nürburgring was opening in 1927, Englishman Henry Seagrave set the land speed record of 203.79 mph on the beach at Daytona. The same Daytona Beach that later emerged as the World Center of Racing as NASCAR raced to the forefront of North American Motorsports.

The competition to be the fastest was in full swing, meanwhile early engineers needed the parts to provide the horsepower to make them perform. In 1921, the light-alloy piston developed by the brothers Hermann and Ernst Mahle was produced in volume. Air and oil filters followed in order to protect the piston from dirt and dust.

The MAHLE success story begins with innovation and continues with cutting-edge technology leading to a first to market reputation that is still unrivaled. For example:

- 1904, Perfect Circle begins continuous piston ring production that remains today
- 1921, first volume production of light-alloy pistons in Europe
- 1944, first TriMetal™ cast-copper lead engine bearing introduced
- 1955, industry standard “98” chrome-plated oil ring with a new design dramatically reducing oil consumption is introduced

- 1976, low-pressure, die-cast aluminum engine blocks ready for volume production
- 1985, production of composite camshafts
- 1998, CP-20™ piston rings introduced
- 2000, pistons with cooled ring carriers enter volume production
- 2002, first plastic oil filter for passenger car diesel engines
- 2010, Perfect Circle combines to form a new MAHLE Original® piston ring brand dedicated to innovation, quality and service
- 2011, MAHLE Original® Turbochargers added to product offering
- 2013, acquisition of RTI Technologies, introducing workshop equipment under MAHLE
- 2013, a majority stake in Behr is acquired and a new MAHLE Original® thermostat line is announced
- 2014, a majority stake in the Slovenia-based electrical component manufacturer, Letrika, is acquired
- 2016, sealing product offering rebranded to MAHLE Original® gaskets

MAHLE is one of the world’s leading system partners of the automotive and engine industry with approximately 75,000 employees at 170 production sites worldwide. Over 5,000 engineers and technicians work in 13 major research and development facilities, designing new components for the internal combustion engines of tomorrow. MAHLE innovations have become the standard for vehicles today.





WHO SAID  
**OUTSIDE OF THE BOX**  
WAS TOO CLICHÉ?

All vehicle manufacturers worldwide seek quality made by MAHLE because of renowned competence in the internal combustion engine and its immediate environment. In NASCAR, NHRA, Formula 1, or in the 24 hours of Le Mans; teams equipped with MAHLE components win races again and again – year after year. These experiences are transferred from racing to parts development in both OE and aftermarket. MAHLE supplies state-of-the-art products that are in almost all OE models; and MAHLE translates to the same competence in the aftermarket, and is the name that engine builders and technicians associate with quality and innovation.

More than 140 renowned engine and vehicle manufacturers from A for Alfa Romeo to Z for Zetelmeyer equip their engines with MAHLE products as original equipment. Nameplates like Audi, BMW, Case New Holland, Caterpillar, Cummins, Ferrari, Fiat, Ford, General Motors, Harley Davidson, Honda, Hyundai, Isuzu, Jaguar, John Deere, Komatsu, Land Rover, Mack, Maserati,

Mazda, Mercedes-Benz, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Saab, Smart, Suzuki, Toyota, Volkswagen, and Volvo trust MAHLE innovation in the vehicles they produce.

MAHLE brings this OE knowledge base to the North American aftermarket featuring full coverage for stock applications, performance, or heavy duty. Whether the name on the outside of the box is Clevite or MAHLE Original, the parts inside the box are guaranteed to meet the demands of the most rigorous engine environments.

*The best known vehicle manufacturers in the world equip their vehicles with MAHLE products.*



OE BRAND,  
**OE QUALITY,**  
AFTERMARKET BOX

**MAHLE ORIGINAL**  
Oil Filter  
Filtro de aceite  
Filtre à huile  
Oil Filter  
OX 254 D2  
micro-star Eco  
MAHLE Products comply with the requirements of the original and longer maintenance intervals. Garantie: 24 mois/200.000 km. Original equipment quality. Quality guaranteed by MAHLE.

**CLEVITE**  
Cylinder kits  
Ensembles Equipos  
Equipos  
Cylinder kits  
Original equipment quality

**MAHLE ORIGINAL**  
Pistons  
Original equipment quality  
MAHLE  
MAHLE ORIGINAL  
Cylinder kits  
Original equipment quality

Do you know the difference between the quality of MAHLE products for the original equipment market and a MAHLE products for the aftermarket? The answer is nothing. The aftermarket offers a complete program of pistons and ring sets, cylinder liners, valves, engine bearings, gaskets, thermostats, turbochargers, and filters in original equipment quality. Original equipment standards also belong in the maintenance and repair market; it is as simple as that. With this successful strategy and the comprehensive product range — with the brands Clevite and MAHLE Original — MAHLE has been a respected partner of trade, garages, and engine repair shops worldwide for decades. The MAHLE Aftermarket sales team will assist in the right inventory in the right places.

Regarding reliability, flexibility, and meeting deadlines — original equipment customers and aftermarket partners receive the same treatment. As engines become more and more complicated, MAHLE offers aftermarket partners entire system solutions for an equally complex business environment.

#### MAHLE brands in North America



*Quality without a difference: the quality level of MAHLE production lines for original equipment and for products for the aftermarket is identical — only the packaging is different.*





MADE BY  
**MAHLE.**



MAHLE Aftermarket products go right to where it hurts the most: the test stands. Here, they are put under extreme conditions in heat, cold, pressure and continuous running to get a complete health check. Further critical testing is the NASCAR and NHRA tracks, or even grand prix racing of Formula 1. Stock products benefit from this as well because the knowledge gained in the top classes of motorsports is integrated into engine parts development.

### Engine components

The development and production of pistons and engine components is part of the traditional core business of MAHLE. This competence is also supplied to the Aftermarket — under the brand names of Clevite and MAHLE Original.

Whether diesel or gasoline engines, passenger cars or commercial vehicles, small or stationary engines — MAHLE can help. A comprehensive range including everything needed for repair and maintenance, such as fully finished pistons, rings, and assemblies in standard and oversize; cylinder liners for all internal combustion engines, as well as bearings and valves is available for the Aftermarket.

### Filters

MAHLE Original® brand filters are original equipment quality and provide a full range of products that meet or exceed the demands of repair shops and garages. In order to cover the numerous applications, MAHLE Original filters offer a complex product range from air, cabin air, oil, and fuel filters; available for passenger cars, motorcycles, commercial vehicles, agricultural and construction machinery as well as air-drying cartridges for commercial vehicles. The MAHLE Original filter program is constantly evolving with innovative products for a changing market, including ECO filters that can be completely incinerated.

### Rotating Electric

MAHLE Letrika, the Slovenia-based electrical component manufacturer, has been a part of the MAHLE group since 2014. After the acquisition of Letrika, the MAHLE product portfolio has expanded to include rotating electrical components and units, starters and alternators, electric drives, as well as electrical auxiliary components for modern vehicle designs. The Letrika brand of starters and alternators is distributed under the MAHLE Original brand.



*Letrika alternator, starter motor, and solenoid switch*





HIGHEST QUALITY

# PRODUCTS

## Gaskets

MAHLE Original® gaskets feature the largest range of coverage in the Aftermarket offering 1,250 exclusive numbers and a gasket for almost every OEM. For every gasket replacement project there is a MAHLE Original set with the same form, fit and function as the OE, including every part needed from start to finish. MAHLE Original gaskets are application engineered with the best seal in all conditions and the easiest installation for any project — making them the most trusted in the business.

## Thermostats

Behr's expertise combined with the high quality MAHLE name has culminated in a line of thermostats supplied by MAHLE Aftermarket. Combustion engines require the temperature to remain constant and thermostats regulate this temperature with coolant. Innovative design methods have led Behr to pioneer the popular map-controlled thermostat — that legacy is now being led by MAHLE. Over 100 million VIO's are offered to North America by MAHLE to the automotive aftermarket with the same quality without compromise.

## Turbochargers

MAHLE Original® turbochargers are new to the Aftermarket, but crafted with the same expertise and precision as any other MAHLE product. Turbochargers are a key technology to enhance performance, reduce fuel consumption, and lower exhaust emissions. The MAHLE Original turbocharger product offering has grown in breadth

of offering including a range of sizes and types to fit many OEMs. MAHLE Original turbochargers are crafted for greater balancing precision, optimized speed stability, reduced running noise, and are built for extreme conditions providing greater longevity.

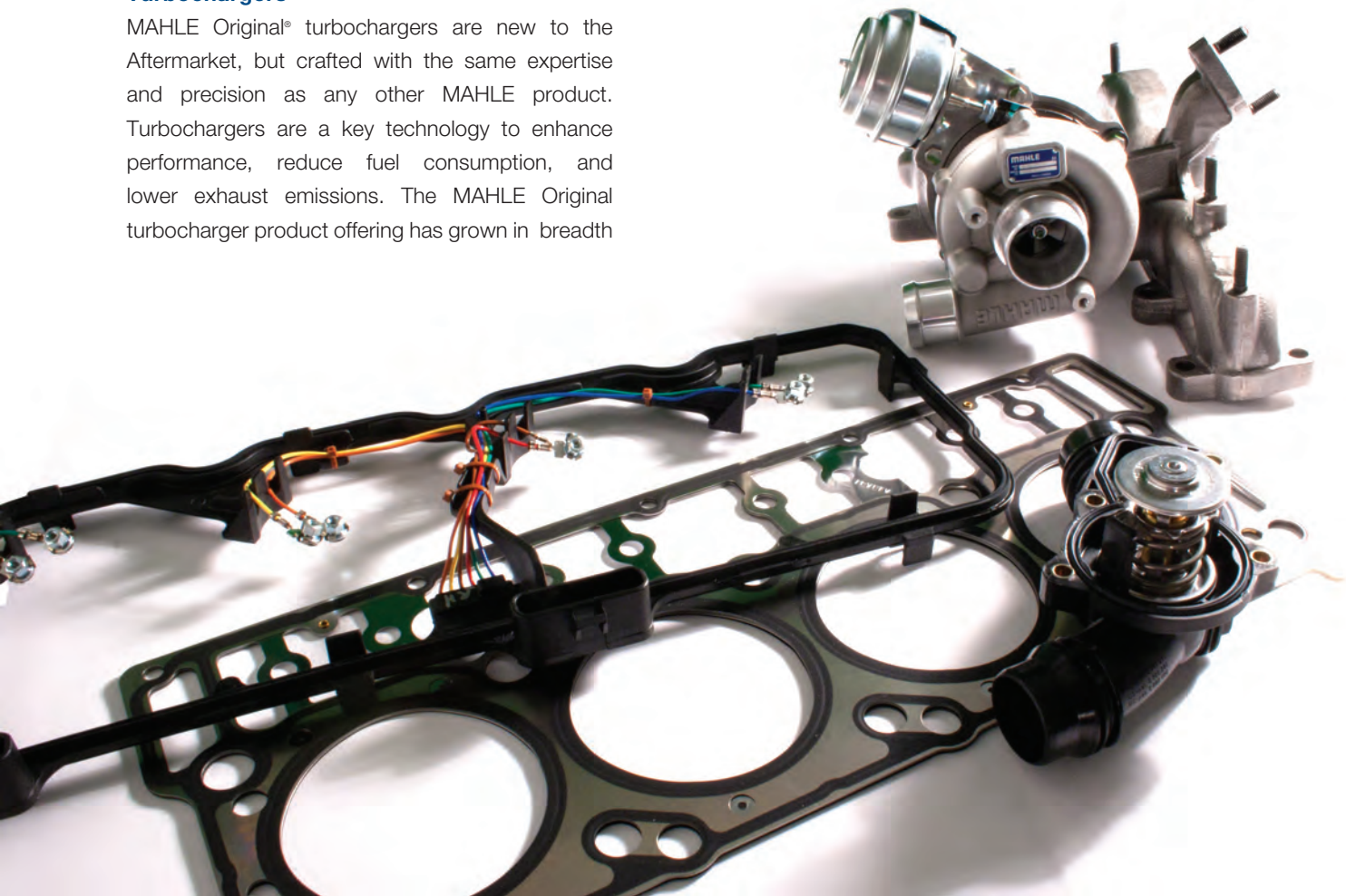
## Shop Equipment

MAHLE Service Solutions, a division of MAHLE Aftermarket Inc., specializes in the development and manufacturing of automotive tools and equipment. MAHLE brands like ArcticPRO® A/C service equipment, FluidPRO® fluid exchange equipment, NitroPRO® nitrogen tire inflation systems, and the TechPRO® diagnostic scan tool are all backed by the added value of an array of customer care solutions including nationwide service centers, and factory setup and training.

From development to production, people at MAHLE work passionately; with a great deal of dedication on innovative components and systems in line with modern shop techniques. Our commitment to technology and quality drives us to produce innovative solutions for the most productive technicians in the world.



*The MAHLE Service Solutions ACX1280 is a new R1234yf recovery machine certified to meet all applicable performance and safety standards — the stringent SAE J2843 standard.*





PERFECTION IS

**PRECISION**

IN THE DETAIL.

Thanks to consistent quality and project management, MAHLE ranks in the 30 largest global suppliers of the automotive industry. All MAHLE production sites are certified according to internationally accepted standards; standards that also must be met in the aftermarket. This is verified by numerous citations awarded to MAHLE for outstanding quality and delivery performance and by many satisfied customers.

MAHLE guarantees the complete replacement parts program fast and reliably anywhere in North America. Thanks to the flagship master distribution center in Olive Branch, Mississippi, and the capable crew that keeps it running – customers can be assured orders arrive complete and on time.

The Olive Branch facility boasts some impressive statistics. The building itself is 266,370 square feet, and while the climate-controlled warehouse takes up a huge percentage of that space, the facility is

also home to the MAHLE Aftermarket technical and customer service teams. The complex is 33 feet tall; it sports seven dock bay doors for shipping and an additional seven for receiving. The warehouse racks are 16 and 20 feet tall, while the aisle width for bulk goods is seven feet, and 10 feet for finished goods, respectively.

Augmented by a network of company owned Customer Care Centers throughout North America, MAHLE is the preeminent leader in order fulfillment for the aftermarket.





WE FULFILL WHAT YOU

**PROMISE YOUR  
CUSTOMERS.**

MAHLE Aftermarket customers also receive first-rate service to match; information is available worldwide, 24 hours a day. Customers can get up-to-the-minute data regarding products, news, catalogs and brochures, as well as a dealer lookup tool to help locate distributors anywhere in the world at mahle-aftermarket.com.

Our website, mahleorder.com offers customers easy ordering options online in a dynamic, user-friendly interface. Users are able to view invoices, check the status of orders, track their orders, and even check inventory at the Customer Care Center nearest them. Users can also view images of the parts they're searching for. As an added feature, this website also utilizes multiple shopping carts in case the user wants to place different orders or prepare quotes.

The MAHLE eLearning™ program for the Aftermarket covers core products including Clevite® engine bearings, MAHLE Original® gaskets, and MAHLE® Original filters. The courses generally consist of six separate chapters, covering history, features and benefits, choosing the proper product, installation tips and procedures, and an explanation of the catalog and how to use it. Since it's free and available on the Web, customers and the public can take advantage of the classes.

MAHLE Aftermarket - the technology leader in both products and electronic support materials - announces the expansion of it's electronic catalog. These are a few of the features to make searching cyberspace for parts easier than ever:

- Interactive search capabilities
- New part data updated daily
- Real-time visibility of new products and added coverage
- Immediate updating of product images and specification data
- Access to online parts ordering through mahleorder.com (Account required)
- All products sold by MAHLE Aftermarket are visible in one search
- Competitive part number interchanges
- The Customer Trade Area notifies customers and also allows them to download the latest price lists, marketing materials, reports, and more



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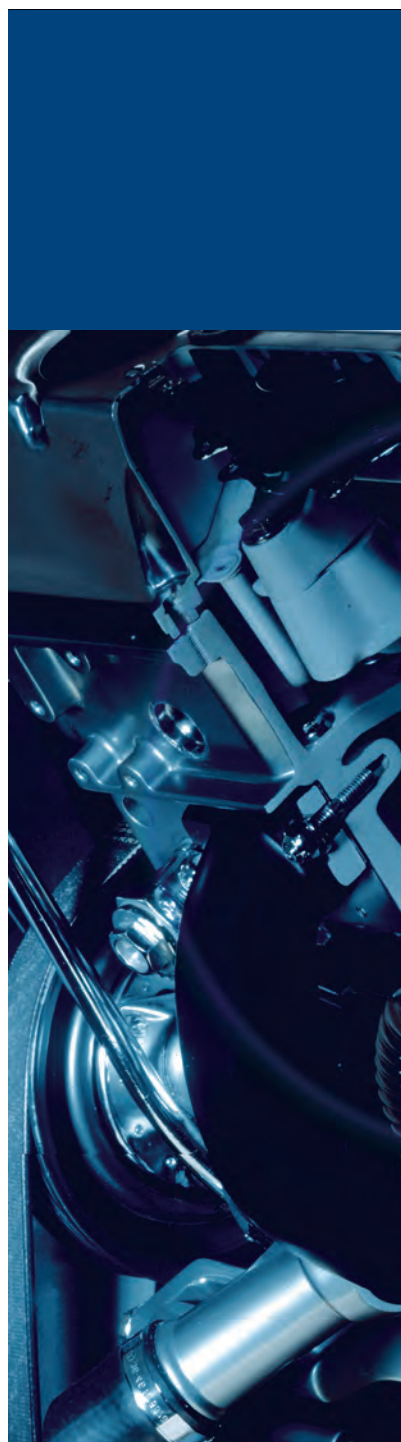
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