



# PRODUCT **COMPETENCE**

**PRODUCTS FOR UTILITY VEHICLES  
AND OFF-HIGHWAY VEHICLES**

## MOTORSERVICE GROUP

### QUALITY AND SERVICE FROM A SINGLE SOURCE

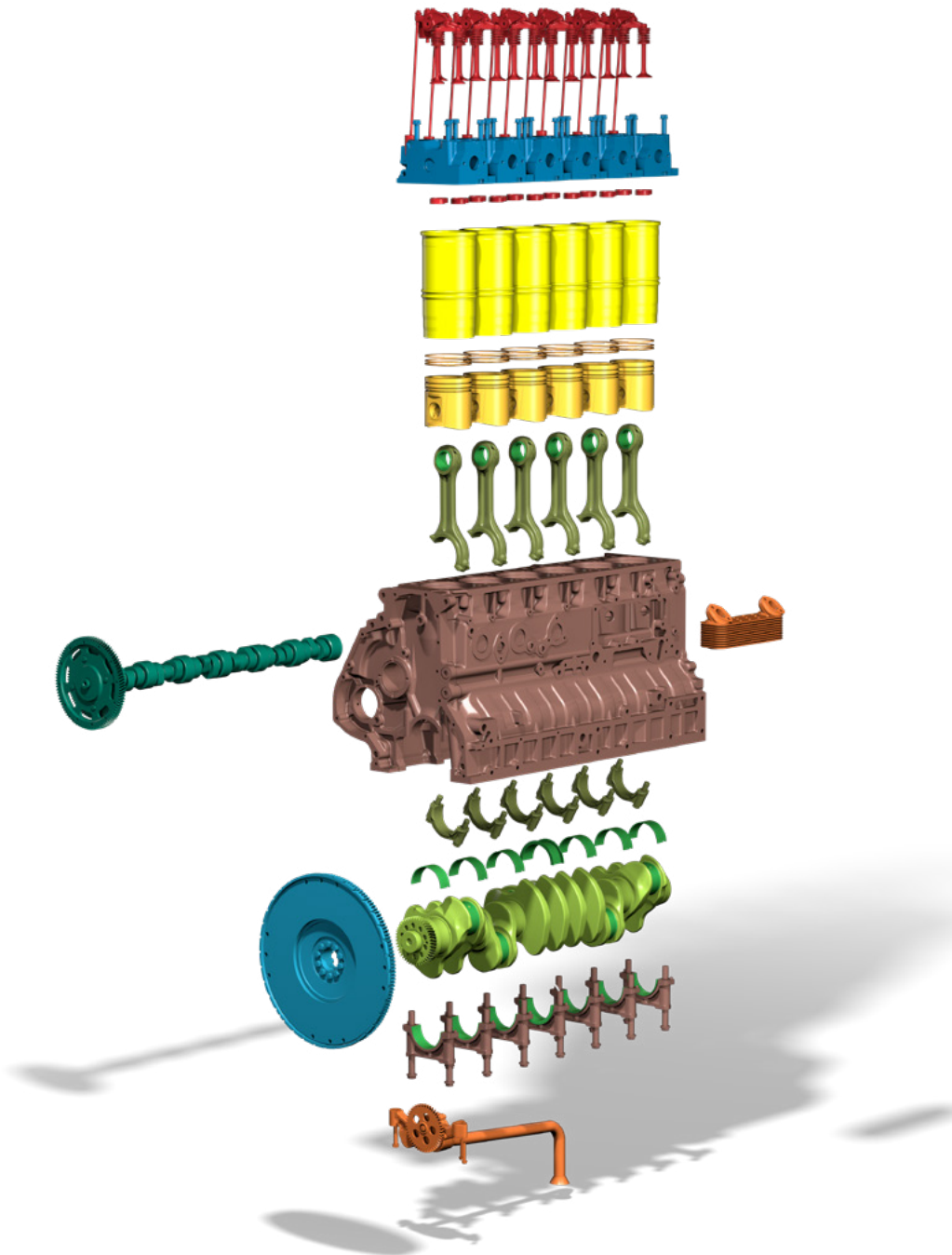
Motorservice Group is a leading supplier of vehicle components for the independent aftermarket. With the premium brands Kolbenschmidt, Pierburg, TRW Engine Components and the BF brand, Motorservice offers its trade and repair shop customers a wide and comprehensive range of top-quality products. As a problem solver for trade and repair shops, the company also offers an extensive service package. Motorservice customers benefit from the combined technical know-how of a large international automotive supplier.

#### CROSS-BRAND OFFER

The comprehensive product range covers engines from Caterpillar, Cummins, DAF, Deutz, Iveco, Mercedes-Benz, RVI, Scania, Volvo and other engine manufacturers.

#### RELIABLE PERFORMANCE

Our product range provides spare parts for utility vehicles, agricultural and forestry as well as municipal vehicles, construction machines, ships, locomotives, power cars as well as stationary engines.





## PISTONS

### Developed and produced drawing on the state of the art

Motorservice always supplies pistons complete with piston rings, piston pins and the associated piston pin circlips. These expertly coordinated components make ordering easier for you.



## PISTON RINGS

### Less friction for efficient engines

Kolbenschmidt piston rings excel through their excellent friction values, durability and low oil consumption. Piston rings that are optimized for replacement ensure that repairs are long lasting and that customers are satisfied.



## CYLINDER LINERS

### Durability for many thousands of kilometers

The comprehensive product range includes wet and dry cylinder liners and air cooled cylinders, as well as cylinders for compressors. The supplied gasket assortments for wet cylinder liners complete the scope of supply for easy replacement.

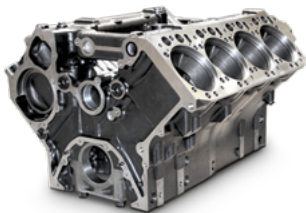
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## KIT SETS

### Coordinated teams

Our coordinated pistons, piston rings and cylinder liners are available as kit sets for utility vehicle applications. The components are compiled to suit demand for easy replacement.

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## CRANKCASES

### Geometric precision and dimensional stability for optimal performance

As the housing for the drive mechanism and cooling jacket, the crankcase forms the central component of the engine. BF offers a comprehensive and high-quality portfolio of crankcases to provide quick, cost-effective solutions for repairing engines on utility vehicles.



## CRANKSHAFTS

### Forged masterpieces for every torque

To guarantee the Motorservice high quality standards, most BF forged crankshafts are produced on our own tools and are subject to stringent test procedures. The dimensional accuracy ensures smooth running and therefore a long engine life.



## OIL AND WATER PUMPS

### Perfect lubricant and coolant supply

Rheinmetall develops and supplies oil and water pumps to all leading engine manufacturers and has numerous patents. Building on this know-how, Motorservice offers pumps for a multitude of passenger car and utility vehicle applications. Make the most of this experience at a fair cost-benefit ratio.



## CAMSHAFTS

### **Wear-resistant cams for a long, powerful engine life**

To withstand high bending and torsion forces over the long term, the camshafts in the Motorservice product range have been designed to incorporate high strength properties. Camshafts may be cast or forged, depending on their intended purpose.



## CONNECTING RODS

### **Durable force transmitters with great effect**

The high strain on the con rod due to tension, pressure and torsional forces requires connecting rod designs that are strong at a low weight. Connecting rods with a lower strength are an unnecessary risk for the engine. With the high-quality product range of Motorservice, you are always on the safe side.



## CYLINDER HEADS

### **Completed to your requirements**

Motorservice boasts an extensive product portfolio of cylinder heads for passenger cars and utility vehicles. The cylinder heads are also available with pre-assembled valves and valve-springs to suit your needs and for ease of repair.



## PLAIN AND SPUTTER BEARINGS

### **Making sure everything runs smoothly**

Kolbenschmidt engine bearings ensure less friction and more dynamics with their optimum sliding materials and perfect geometry. Your partner in every case – in addition to a large range of standard and large sizes, Motorservice offers particular special solutions for repair.



## FLYWHEELS

### **Precision and mass for smooth engine running**

BF fly wheels are precision parts made from high-value gray cast iron or steel that efficiently reduce uneven running and vibration in the engine. This ensures that wear on the gear train is kept to a minimum.



## VALVES AND VALVE ACCESSORIES

### **Temperature-resistant precision**

Motorservice is the global sales partner of TRW Engine Components for the aftermarket. Proven quality that provides security when needed.

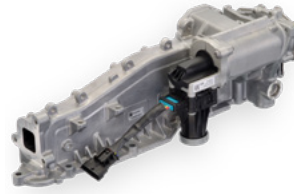


## EXHAUST GAS FLAPS

### Reduce pollutants

Exhaust gas flaps are an important element in modern engines for emission control. The exhaust gas flaps support exhaust gas recirculation, the thermal management of the SCR catalytic converters, DPF regeneration and the engine brake.

Motorservice's product range includes pneumatic and electric exhaust gas flaps.



## EXHAUST GAS RECIRCULATION

### For clean combustion

Almost no modern vehicle can do without exhaust gas recirculation. With its EGR valves, modules, coolers and cooler modules, Motorservice covers a wide range of products. The corrosion and temperature-resistant materials used ensure lasting function under the harshest conditions.



## EXHAUST GAS SENSORS

### Reliable and robust sensors

High operating temperatures and aggressive exhaust gas place high demands on the various products, such as NOx, exhaust gas temperature, exhaust gas pressure or differential pressure sensors. You should choose products from the specialist.



## WHEEL SPEED AND TPMS SENSORS

### Safe on the road

Wheel speed sensors are among the most important sensors in a vehicle. Their signal serves as an input variable for safety and comfort systems, such as the anti-lock braking system (ABS), electronic stability control (ESC), traction control system (TCS) or in the tire pressure monitoring system (TPMS).



## OIL PRESSURE SENSORS

### Optimum and safe engine performance

The oil pressure sensor continuously measures the oil pressure in the engine and sends the information to the engine control unit. This ensures that the sensor supplies sufficient oil and prevents consequential damage.



## SOLENOID VALVES

### Small components with a big impact

Solenoid valves are important components for switching and controlling as well as for implementing comfort and safety functions. Trust the OE quality of the market leader, Pierburg.

# KNOW-HOW TRANSFER

## PROFESSIONAL KNOWLEDGE FROM THE EXPERTS

### WORLDWIDE TRAINING

#### Direct from the manufacturer

Each year, around 4,500 mechanics and engineers benefit from our training courses and seminars, which we hold on-site in locations across the world or at our training centers in Neuenstadt, Dormagen and Tamm (Germany).

### TECHNICAL INFORMATION

#### From practical experience for practical use

Our Product Information and Service Information publications, technical brochures and posters keep you at the forefront of the latest technological developments.

### TECHNICAL VIDEOS

#### Knowledge transfer via video

In our videos, you will find practice-orientated fitting instructions and system explanations relating to our products.



### PRODUCTS IN FOCUS ONLINE

#### Our solutions clearly explained

Interactive elements, animations and video clips provide interesting information about our products in and around the engine.

### ONLINESHOP

#### Your direct access to our products

Order at any time. Quick availability check. Extensive product search by engine, vehicle, dimensions etc.

### NEWS

#### Regular information via email

Subscribe online to our free newsletter now and receive regular information about additions to the product range, technical publications and much more.

### INDIVIDUAL INFORMATION

#### Especially for our customers

We provide extensive information and services relating to our wide range of services: e.g. personalized sales-promoting materials, sales support, technical support and much more.



### TECHNIPEDIA

#### Technical information for all aspects of the engine

We share our know-how with you in our Technipedia. You can get professional knowledge direct from experts here.

### MOTORSERVICE APP

#### Access technical know-how when on the move

Here, you will find the latest information and services relating to our products quickly and easily.

### SOCIAL MEDIA

#### Always up to date





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