Improved vision, safe journey

Based on sophisticated requirement profiles, Bosch develops wiper blades for professional use in commercial vehicles – e.g. Bosch Twin wiper blades standing out for their high wiper performance.
Dear truck fans,

Truckers know these situations: A heavy thunderstorm comes up. Within seconds, it reduces the visibility levels to zero. The wiper blades fight against the masses of water on the windshield and visibility returns as they clean it – what a good and safe feeling! The same happens if you find a workshop servicing like “at home” in case of a breakdown far from home. Read more about Bosch products increasing the safety of professional vehicles on the following pages.

Enjoy reading and have a great journey following pages.

Your commercial-vehicle team
Christoph Bratzler  Tobias Weiss

**A matter of safety!**

Bosch wiper blades for trucks

Driving shifts are long and require high levels of concentration. Heavy rainfall and a dirty windshield reduce the visibility and pose a considerable safety risk for truck drivers. Bosch thus developed wiper blades perfectly geared to truck windshields. They ensure good visibility and stand out for particularly durable and reliable wiper performance based on their design and the materials used. Whenever wiper blades need to be replaced, a well-coordinated and practical information systems comes in useful. Easily understood fitting instructions are shown on the box – or online as a video. Information on the type of wiper blade, and the vehicles it fits is provided on the package. This allows quick identification of the matching wiper blade and its quick and easy replacement. Fitting wiper blades, this system saves a lot of time – and time is particularly precious for anyone working on the logistics sector.

**OUTSTANDING WIPER PERFORMANCE BASED ON THE DESIGN**

The requirements placed on wiper blades for professional use are pretty tough. Particularly high wiper performance under any weather conditions, increased service life and gentle wiper action. In case of Bosch Twin, this is ensured by a wiper rubber with smooth-glide coating and wear-resistant micro twin edge. Pre-assembled adapters and combi interfaces for the three most common hook sizes ease wiper-blade fitting.

Large commercial-vehicle windshields need very special solutions to ensure a clear view. Bosch thus offers wiper blades with a length of up to 1,000 mm. Their flexible spring strip ensures a uniform contact pressure. As a result, their wiper rubber thoroughly cleans the whole windshield. Their robust metal-bracket system ensures a high tandem-pattern stability in case of lengths of up to 1,000 mm. Suitable for all common wiper-arm interfaces, Bosch Twin wiper blades perfectly fit almost any commercial vehicle.

**TRUST, BUT VERIFY**

Each truck is different. That’s why all wiper components need to be developed in a vehicle-specific manner well-groomed to the specific wiper system. All quality and functional tests comply with the same standards applied to OE parts. Stringent performance and resilience tests are carried out both at the laboratory and right on the vehicle. Sophisticated analyses at the laboratory help developing a durable wiper rubber combining high resistance to UV radiation and aging and high thermal elasticity. The tests performed examine the resistance to environmental and ozone influences as well as to mechanical and chemical stress. But the “test lane” also includes performance tests concerning wiper performance, noise generation and durability.

In addition to Twin wiper blades, Bosch also offers Aerotwin flat wiper blades featuring a particularly high wiper performance – also suitable for commercial-vehicle windshields.

Bosch Twin – designed for high wiper performance

**It’s all on the packaging:**
- Product name, part number, length and amount of wiper blades, QR code for online installation video and easily understandable fitting instructions
- Pre-assembled adapter for quick fitting
- Flexible spring strip for improved distribution of the contact pressure across the windshield
- Robust metal-bracket system for high tandem-pattern stability with lengths of up to 1,000 mm
- Double corrosion protection for a high resilience
- Wiper rubber with smooth-glide coating and wear-resistant micro twin edge for top cleaning and low wiping noise

Bosch and its products provide safety for drivers.
Alltrucks Fleet: pan-European home workshop

High service quality along the route with Alltrucks Fleet

Breakdowns cost time and money – that’s bad enough. But the situation can get even more delicate if the driver has to search for a reliable workshop to have his truck repaired – quickly, cost-efficiently and with high quality. The Alltrucks workshop concept thus developed Alltrucks Fleet for fleet customers. The driver just approaches the closest participating partner workshop, presents his fleet service card and gets the same repair service he knows from his home workshop – i.e. servicing like “at home”.

Alltrucks CEO Homer Smyrliadis is convinced: “Until end of this year, we will add some 300 workshops to the Alltrucks Fleet network. This will result in a gap of our partner workshops.”

24-HOURS BREAKDOWN ASSISTANCE

By means of Alltrucks Fleet, the brand-independent workshop network provides suitable solutions for the key problems in case of breakdown. Among them, Alltrucks’ 24-hours breakdown assistance is a substantial addition to Alltrucks Fleet. No matter whether with or without breakdown assistance, the workshops being part of the Alltrucks Fleet service network also agree on a binding price range. In addition, Alltrucks Fleet customers are also treated with priority in terms of scheduling and waiting periods. They are assured, all repair tasks are carried out in close consultation with their Alltrucks home workshop. Accordingly, the repair is carried out with the same well-known high quality and in line with transparent terms of contract. In this way, all customers of the Alltrucks Fleet service network – i.e. forwarding companies, international logistics companies and trans-regional company fleets – benefit from high service quality in case of breakdowns within the reach of the Alltrucks workshop network.

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For its Alltrucks Fleet concept, Alltrucks relies on almost 600 partner workshops throughout Europe.

Safety measure: special filters for trucks

Diesel prefilters, water separators, secondary air filters and oil centrifuges

Commercial vehicles are the most diverse vehicle segment when it comes to applications and types. These on-highway, off-highway and mining vehicles can be found on both highways and construction sites. But the air and fuel quality they are subject to varies a lot. For particularly good protection, the Bosch filter range thus also includes special filters.

Diesel prefilters

Bosch diesel prefilters for commercial vehicles reliably separate larger particles and water contained in fuel. They support the function of the main diesel filter and increase its service life – thus reducing the operational costs. Their microporous, multilayer filter medium ensures a high particle separation rate and reliable water separation. Its large surface provides a high dust retention capacity and a low flow resistance.

OIL CENTRIFUGES

There is hardly any lubricant as important for commercial vehicles as oil. It is used almost all over the truck. Contamination of engine oil, for instance, can cause abrasion and thus engine damage. That’s why Bosch oil centrifuges support the function of the main oil filter. With their centrifugal forces, they achieve high separation rates thus reliably cleaning engine oil removing even ultrafine particles. By means of this bypass filtration, the service life of the main oil filter is increased. In addition, the oil lubricity is ensured and the operating costs are reduced as well.
Sixth generation: Denoxtronic for trucks

As long as alternative drive concepts are no worthy and economical alternative for everyday use, diesel engines will continue being the driving force of the transport sector. And yet the diesel engines of commercial vehicles – especially those ones with large displacement used for tractor units and off-highway vehicles – need to be equipped with an effective emission control system. The only way to comply with current and future emission regulations is by means of active exhaust-gas treatment – e.g. with an SCR catalytic converter reducing the nitrous oxides. For this purpose, the new Denoxtronic 6-HD dosing module injects AdBlue® – a solution consisting of urea (32.5 %) and water – into the exhaust duct upstream of the SCR catalytic converter. By means of thermolysis and hydrolysis, the urea is then turned into ammonia used by the catalytic converter to reduce nitrous oxides turning them into water and nitrogen.

DENOXTRONIC 6-HD – FACTS AND FIGURES

<table>
<thead>
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<th>Up to 15,000 g/h</th>
<th>9 bar</th>
<th>35,000 h on-highway</th>
<th>15,000 h off-highway</th>
<th>12 V / 24 V</th>
<th>Electrically or via coolant</th>
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AdBlue® from the tank and compresses it to the system pressure of 9 bar (130 psi) required for its atomization. This pressure is set by the rotational speed of the electronic pump. The dosing module measures the amount of AdBlue® required for the NOx reduction and sprays it into the exhaust-gas flow upstream of the SCR catalytic converter. Depending on the type of commercial vehicle, this system is either located at a hot part of the exhaust duct or close to the engine. For that reason, it is actively cooled using engine coolant. The dosing/heating strategy and on-board diagnosis are controlled by an integrated engine control unit or by a separate dosing control unit. For its safe operation, this robust system is equipped with a closed loop system.

DENOXTRONIC 6-HD FOR TRUCKS

With its membrane pump, the Denoxtronic 6-HD supply module draws AdBlue® from the tank and compresses it to the system pressure of 9 bar (130 psi) required for its atomization. This pressure is set by the rotational speed of the electronic pump. The dosing module measures the amount of AdBlue® required for the NOx reduction and sprays it into the exhaust-gas flow upstream of the SCR catalytic converter. Depending on the type of commercial vehicle, this system is either located at a hot part of the exhaust duct or close to the engine. For that reason, it is actively cooled using engine coolant. The dosing/heating strategy and on-board diagnosis are controlled by an integrated engine control unit or by a separate dosing control unit. For its safe operation, this robust system is equipped with a closed loop system.

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Professional servicing: ball joints for operating cylinders

Usually steering systems are designed to last as long as the commercial vehicle itself. After all, they are safety-relevant components. But truckers know there is not only empty delivery bays and easily accessible ramps. Of course there is a difference in terms of tonnage and handling between inner-city delivery vans, long-distance road trains and dump trucks used in mines. Usually steering systems are designed to last as long as the commercial vehicle itself. After all, they are safety-relevant components. But truckers know there is not only empty delivery bays and easily accessible ramps. Of course there is a difference in terms of tonnage and handling between inner-city delivery vans, long-distance road trains and dump trucks used in mines. And yet handling and being easy on the transport sector, trucks often have to run across the curbs, pass bottlenecks maneuvering at the limits of the steering systems or get over obstacles despite their heavy load. With all of this, damage is sometimes inevitable.

PROFESSIONAL REPAIRS ON COMMERCIAL VEHICLES

At commercial-vehicle dual-circuit and rear-axle steering systems, ball joints connect the operating cylinder with track and push rods. They are located on both ends of the operating cylinder. Depending on type of the steering systems or get over obstacles despite their heavy load. With all of this, damage is sometimes inevitable.

WITHIN THE RANGE: BALL JOINTS

For its OE operating cylinders, Bosch now also offers an expanded range of matching ball joints to be installed by commercial-vehicle workshops. These ball joints are produced in line with OE quality standards. They are highly reliable and accurate. But workshops also benefit from the high market coverage of Bosch products for all common manufacturers. It saves tedious searching when ordering spare parts.

TIPS FOR SAFE REPLACEMENT OF OPERATING CYLINDERS

Additional information on Bosch operating cylinders is available on TecDoc. In case an operating cylinder needs to be replaced, for instance, the mechanic chooses whether to order it with or without ball joints. In addition, the online catalog (www.bosch-automotive-catalog.com) also specifies the torques to be applied onto the lock nuts at the clamp connections. This allows easy and safe replacement of ball joints.

www.bosch-automotive-catalog.com
Dakar: De Rooy is back on again – and back on the podium

Third rank at the 2019 Dakar rally in Peru with all De Rooy Iveco teams crossing the finish line – quite unusual at the former South American continuation of the North African rally. Gerard de Rooy is back! But let’s take one thing at a time: In 2018, the Dutchman following the tracks of his famous father, 1987 Dakar winner Jan de Rooy, didn’t manage to participate at the rally. Willing to drive in North Africa, Africa Eco Race was a great opportunity. The result: overall victory. Building on this success, Iveco wanted to see him racing in South America again – and his team was ready. De Rooy once again started with his Iveco Powerstar equipped with reliable beam axles. The Cursor 13 engine of his Australian version of the European Trakker equipped with a traditional hood delivers 800 hp and 3 000 Nm of torque. In comparison with the 6 000 Nm of Jochen Hahn’s ETRC race truck, this might not seem to be too much. On the other hand, there is no pavement in the desert. Due to the lack of grip, additional torque would just crumble into dust. De Rooy just has to get along with the torque he has and so he does. At the 2019 Dakar rally, he pushed Iveco and his team onto the podium.

www.iveco.de