New to the Truck Wheel Bearing Segment: The FAG SmartSET

The ready-to-fit wheel bearing repair solution for trucks and trailers.
What is the FAG SmartSET?

Although wheel bearings in the form of wheel bearing units – are more common in the commercial vehicle segment, most axles of commercial vehicles and trailers are fitted with two individual standard tapered roller bearings that are arranged opposite to one another.

Following the innovative Repair Insert Unit, the SmartSET from FAG is an additional ex works pre-assembled, pre-greased and pre-positioned wheel bearing unit for trucks and trailers, specifically developed for the aftermarket.

A special fitting tool for easy and secure installation in the wheel hub is included in every package, along with non-verbal fitting instructions.
What sets the FAG SmartSET apart?

The FAG SmartSET meets garages' current needs and impresses with several useful features:

- **FASTER**
  Compared with standard tapered roller bearings, garages save up to two hours per axle for each brake repair with the FAG SmartSET, which reduces repair-related downtime to a minimum.

- **MORE EFFICIENT**
  Thanks to the pre-positioned rolling elements, wheel bearing repairs with the FAG SmartSET become a one-man job. Reduced assembly time means higher workshop utilization and increased revenue.

- **MORE PRACTICAL**
  The FAG SmartSET is delivered as a ready-to-fit bearing set with inboard and outboard bearing units and can be used with numerous brands – for all commercial vehicle and trailer axle types, with oil or grease lubrication.

- **EASIER**
  The included fitting tool enables simple and secure mounting in the wheel hub. The sliding fit allows the hub to be moved back and forth on the axle joint more easily.

- **SAFER**
  The FAG SmartSET's pre-greased bearings ensure that the correct specification and amount of grease is used. This eliminates one of the most common assembly errors from the outset.

- **SMARTER**
  Thanks to optimized product properties, the set saves one wheel bearing repair during the service life of trucks and reduces the time needed for each brake repair.
Advantages of the FAG SmartSET

The FAG SmartSET offers clear product advantages over standard tapered roller bearings.

- Ready-to-fit wheel bearing set
- Pre-installed inboard and outboard bearing units
- Pre-greased ex works – correct specification and amount of grease guaranteed
- The rolling elements are pre-positioned by means of a support ring, which eliminates additional wheel rotation when adjusting the bearing
- Dust cover prevents ingress of dirt particles and therefore possible contamination of the grease
- Durotect® B coating on the outer and inner rings eliminates typical negative influences on the bearing's service life
- Sliding fit by means of a modified inner ring – prevents the hub tilting during assembly
- Special tool included
- Doubled service life
The FAG SmartSET design

The FAG SmartSET consists of two bearing units (graphic shows one unit) each of which comprises the following components:

- Outer and inner ring
- Rolling elements
- Synthetic cage with retaining clips
- Support ring
- Dust cover

Outer ring with Durotect® B coating

Synthetic cage with retaining clips and rolling elements

Synthetic support ring
Durotect® B coating

The outer and inner ring of each unit have a special Durotect® B coating developed by Schaeffler, which has the following advantages:

- Protection against corrosion
- Lower friction
- No micro-cracks
- Reduction of slippage damage in the bearing (speed difference between the inner/outer ring and the rolling elements)
- Longer service life
Maximized mobility – minimized operating costs

The service life of the FAG SmartSET is double that of a standard tapered roller bearing. Thanks to optimized product properties, the set saves one wheel bearing repair during the service life of truck.

In addition, compared to standard tapered roller bearings, complex work steps can be omitted for all brake repairs using the FAG SmartSET. When disassembling the hub, the FAG SmartSET remains a sealed unit. Furthermore, it does not need to be cleaned and re-greased. The time needed for each brake repair is therefore reduced by up to two hours per axle. Over the service life of a truck, up to six brake repairs per axle can incur.

Thus, the FAG SmartSET increases the vehicle's mobility and reduces the operating cost of commercial vehicles and trailers.