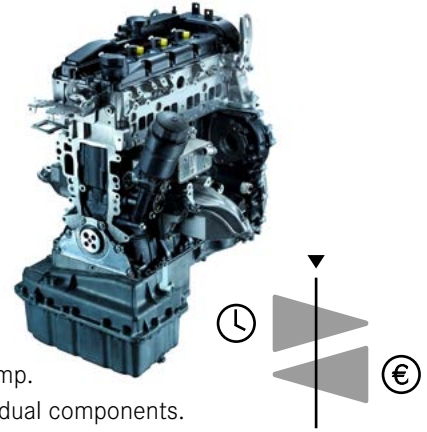


Basic Engine – the perfect balance.



- Perfect balance between rapid repair and attractive part price: approx. 30% price advantage compared to the complete engine.
- Including cylinder head, injectors, high pressure pump, vacuum pump and water pump.
- Reduced downtimes because the engine does not have to be assembled from individual components.

At a glance

Package contents

- Injectors
- Piston
- Crankshaft
- Camshaft
- Oil separator (OM651)
- Oil pump
- Oil spray nozzles
- Oil pan
- Connecting rods
- Vacuum pump (OM651)
- Water pump (OM651)
- Cylinder head with preassembled valves
- Cylinder crankcase
- Various small parts
- High-pressure pump (OM651)
- Vibration damper (OM646)

Vehicle and engine model series

- Sprinter, Vito, Viano, V-Class, Vaneo, Citan, Vario (T2)
- Engine model series: OM646 (all), OM651 (all)

Warranty

2-year warranty – may vary by country.

Please check the detailed information about product contents in VeDoc/EPC, or contact your Mercedes-Benz Partner. The pictures and product contents are shown as examples.

Advantages

Availability – rapidly back on the road

- **Quick replacement solution for severe engine damage** such as crankshaft damage where the cylinder crankcase, the cylinder head and the injectors are damaged.
- **Quick installation possible** because they are delivered in a special transport container with valves and cylinder heads that are already preassembled.
- **Drastically reduced non-operational times** thanks to prompt availability because the engine does not have to be assembled from individual components.

Cost advantage – replacement on a tight budget

- **Attractive offer for price-sensitive customers** who are looking for a perfect balance between quick repair and low-cost offer.
- **30% lower costs compared to installing a complete engine** by reusing all detachable components that are still functional.
- **Considerable savings potential in case of more serious engine damage** (crankshaft damage, damaged cylinder head or defective injectors) by reusing all detachable components that are still functional.

New parts or new part standards – fitness program for your engine

- **Excellent smooth running characteristics** since all rotating components are finely balanced corresponding to the current technical status of new parts, e.g., crankshaft and camshaft.
- **High reliability and durability** since all wear parts and small parts are replaced with Mercedes-Benz GenuineParts, e.g., seals, bearing shells and pistons.
- **Less friction on pistons and shafts** ensures optimum smooth running characteristics, efficient fuel consumption and engine leak tightness.

Cleaning and examination – carefully cleaned and tested

- **All functional surfaces are carefully cleaned with environmentally friendly cleaning agents.** This also reveals any hidden damage. Components that are especially difficult to clean such as the crankcase are cleaned in a multistage industrial process and checked for cleanliness. Advantage: Consequential damage from “bearing seizures” resulting from dirt is avoided. Performance and fuel consumption reach the level of a new engine.
- **Detection of micro-damage on highly stressed components** using a special crack test procedure with fluorescent magnetic powder. This ensures longevity of the repaired engine parts.
- **Highly sensitive test procedures in order to comply with production tolerances in the area of μ -meters.** While remanufacturing cylinder crankcases and crankshafts, the spherical shape of the piston ring on the main bearing and the connecting rod bearing must be between 2 and 4 μ m.
- **Legal emission levels and efficient fuel consumption:** Each Genuine Remanufactured Engine is checked on high-tech company test stands with regard to output, torque, fuel consumption and compliance with statutory emission levels.
- **Improved long-term corrosion protection and high-end appeal** because the complete engine is painted after the test run.