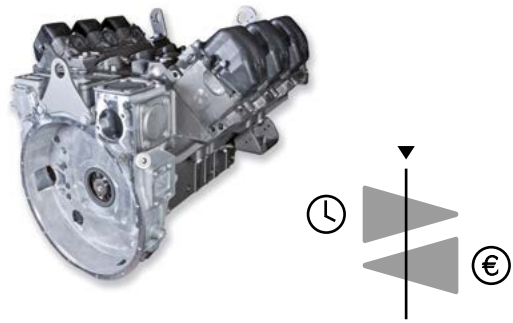


# Long block engine – the golden mean.

- Reduced downtimes as the engine does not need to be assembled from individual parts.
- High potential savings as still functioning detachable parts are reused.



## At a glance

### Package contents

Genuine Remanufactured long block engine, consisting of:

- Camshaft
- Connecting rods
- Crankshaft
- Crankcase housing
- Cylinder head covers (for OM457 and OM500)
- Cylinder head gaskets
- Cylinder heads
- Cylinder liners
- Nozzle holders (for OM457 and OM500)
- Oil pump
- Oil spray nozzles
- Pistons
- Timing case
- Various small parts

### Vehicle and engine model series

- Atego, Axor, Actros, Econic, Zetros, Unimog
- Engine series: 300, 400, 457, 500 and 900

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

- **Drastically reduced downtimes** as the engine does not need to be assembled from individual parts.
- **Rapid installation** thanks to delivery in a well protected wooden crate, with prefitted valves in the cylinder heads.

### Cost advantage – replacement on a tight budget

- **60% lower costs compared to a Genuine Remanufactured engine**, as still functioning detachable parts such as the turbocharger, starter and air compressor are reused.

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

- **Very smooth running** as all rotating parts such as the crankshaft are finely balanced to the current technical standard of new parts.
- **Great reliability and durability** as all wear parts and small parts are replaced with Mercedes-Benz GenuineParts, e.g. lines and bearing shells subject to pressure loads. The hardened outer skin of cylinder heads is restored to the original condition by induction hardening.
- **Compliance with emissions regulations and improved durability**, e.g. rigorous replacement of valve guides and reworking of valve seat rings to new part dimensions.

### Cleaning and examination – carefully cleaned and tested

- **All functional surfaces are carefully cleaned using eco-friendly cleaning agents. This also reveals any hidden damage.** Components that are particularly hard to clean, e.g. the crankcase, are cleaned in a multi-stage industrial process and inspected. This is to prevent consequential damage such as bearing seizure caused by residual soiling.
- **Highly sensitive test procedures to remain within series production tolerances** of a few micrometers. When reprocessing crankshafts, for example, it is necessary to achieve a spherical accuracy between 2 and 4 µm at the main and conrod bearings.