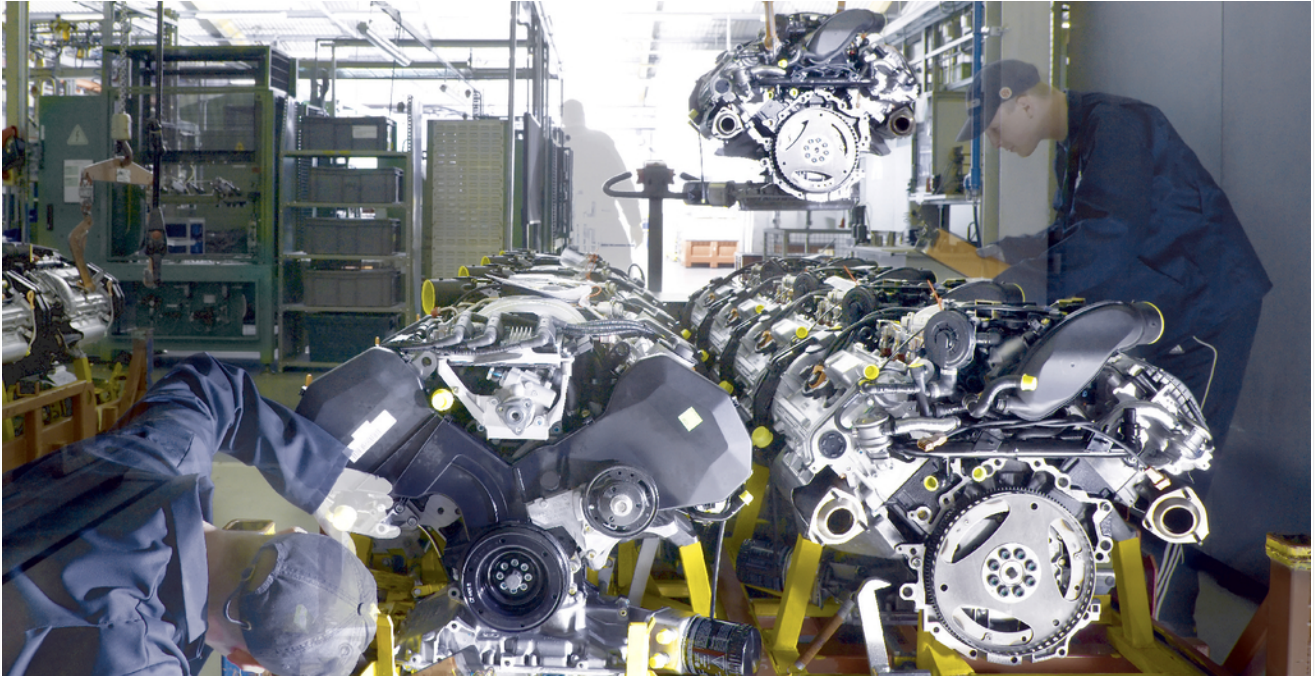


MAHLE Powertrain - Assembly



Sub-assemblies are an integral part of a manufacturing process. MAHLE Powertrain incorporates these processes into its own Powertrain assembly lines to allow uninterrupted and balanced flow of the main assembly line. Typical assemblies are cylinder heads, inlet systems, turbo charging systems, pistons and oil pans.

In some cases there may be a strategic advantage for a customer to have sub-assemblies supplied as a single part number from an external source direct to line-side. MAHLE Powertrain can support this process and integrate the necessary components from Tier 2 and test the assembly before the delivery.

Operations

- Cylinder head (complete)
- Service and aftermarket sub-assemblies
- Oil pan / balancer shaft assembly
- PCU (Power Control Unit)
- Induction and exhaust systems
- Other complex engine sub assemblies

Process and Equipment

- As full engine assembly
- Leakage testing as required
- Full traceability on critical build data
- Short leadtimes for setting up
- OEM approved quality controls

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MAHLE Powertrain - Assembly

MAHLE Powertrain's assembly lines are tailored specifically to our customer's requirements. Each assembly line is configured according to product volume and complexity, using an 'agile systems' approach. Data capture systems are employed to monitor key build functions, and to provide full traceability data for engine build records.

Completed engines are functionally tested. At pre-determined intervals, engines are also audit tested using in-house dynamometers. These engines are dismantled and checked for build integrity to provide closed-loop quality data for process integrity and improvement reviews. MAHLE Powertrain's track record of high achievement in bringing together all the facets of the manufacturing process provides customers with strategic options and cost effective solutions to investment, capacity planning and complexity issues.

Many OEM' have already derived benefit from the range of competences and flexibility we offer.

With proven strengths in continuously achieving high quality standards, and with a well-established global supplier base, MAHLE Powertrain provides a viable alternative to complement our customer's in-house assembly operations.



Operations

- Complete engine assembly
- Comprehensive functional testing
- Supply Chain Management

