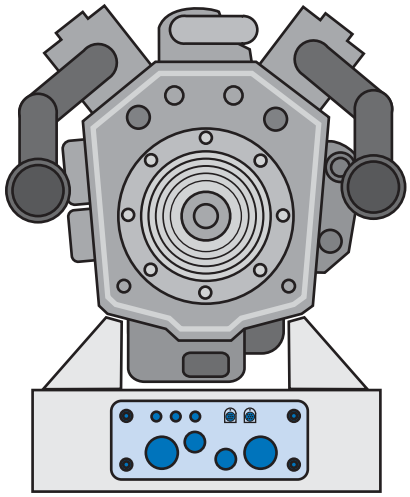
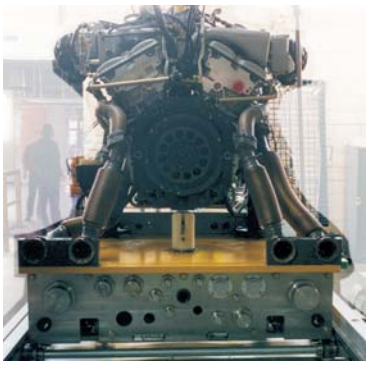
walther präzision
Quick Coupling Systems

Docking systems for engine test stands

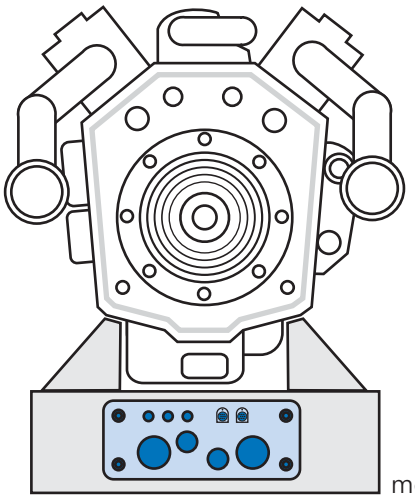




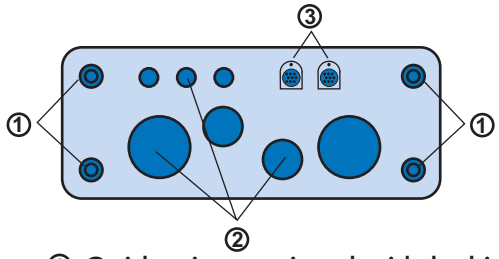
Docking systems for engine test stands

WALTHER docking systems have proven their long-term reliability in engine development and production test stands of petrol and diesel engines. The docking systems can be used horizontally and vertically for the **connection of various fluid and electrical lines** between the engine and the test stand. Contamination of the surrounding area is avoided by the use of clean break coupling elements which have a minimal fluid loss during disconnection.

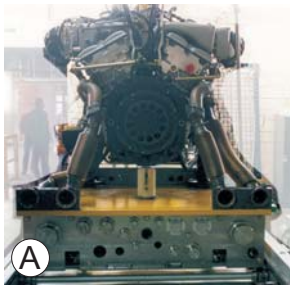
Schematic diagram of a WALTHER docking system

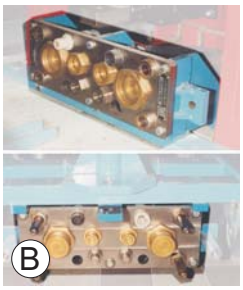


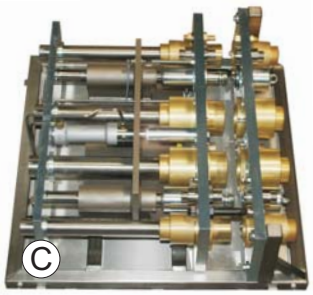
movable test stand pallet



① Guide pins, optional with locking feature
② Coupling elements
for cooling water, fuel, air, exhaust etc.
③ electro plugs for signal lines







Ⓐ **Type 90929**
Hot test stand for engines with 12 cylinders

Ⓑ **Type 90932**
Test stand for small and medium-sized car engines

Ⓒ **Type 91367**
R & D test stand for commercial

The docking system can be designed for simple plate make-up. The plate is mounted on the customer's equipment and the docking and locking is carried out by the customer's own system.

The coupling engine elements can be optionally equipped with mono couplings at the rear of the multicoupling plate. Thus the connections between the engine and plate can be safely and quickly made up for specific engine types. **Coupling elements** are also available **for exhaust gas**.

The use of docking systems in test stands reduces the rigging time inside the test bed to a minimum and allows the **optimal use of the cost-intensive test facility**.

Docking systems are also used in test stands for large engines such as diesel engines for trucks and ships, aeroplane jet engines as well as other branches of industry.

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