

How our engine power test beds (dynamometers) support your vocational training

For training purposes we offer:

the MP 80/6000 engine power test bed, which is suitable for car engines and can also be supplied together with one or more engines mounted on mobile supports,

RWB truck construction kits for assembling the mobile supports mentioned above and

the MPW 5 Modular engine power test bed, which is suitable for testing small 1-cylinder combustion engines as well as normal electrical motors, and which can be supplied together with motors to be tested mounted on module plates.

These engine power test beds are interesting not only for combustion engines in the field of automotive engineering, but also for electrical and mechanical engineering in general.

Both types of engine test beds contain the comfortable evaluation, display and control unit with our MP computer. This unit - even in basic design without any options - makes the test beds easy to handle and so an equipment useful in workshops and laboratories for a long time independent of availability of e. g. a certain PC technique. It has been proven for more than 10 years at German vocational training schools. Especially the work counter contained in the standard design of the MP computer offers a cost effective, simple, precise and easy-to-understand method to determine the specific fuel consumption,

in combination with the offered precision balance for the fuel tank of a car engine tested by the MP 80/6000 test bed

or in combination with the offered burettes for small engines with simple fuelling systems tested on the MPW 5 Modular test bed.

We believe that the engine power test beds MP 80/6000 and MPW 5 Modular equipped with the MP computer are the best solution for educational purposes, because the proven combination of micro-processor technique and manual adjustment offers

easy handling to the teacher

and to the students the best precondition to understand the working together of engine and braking dynamometer and the origin of the measured values.

As a low budget solution, we alternatively offer MPW 5 Modular with the display and control unit MP-E. In this case control of the eddy-current brake of the test bed is not supported by closed regulation loops. Therefore handling and application range are

only as known from conventional test beds of former decades.

Further advantages useful for vocational training:

MP 80/6000:

The MP 80/6000 engine power test bed can be moved by a pallet truck with or without an engine to be tested. Except for electrical energy, no further supply is needed. The test bed needs no foundation and can be operated or stored in any place. Different engines, including engines with hand operated or automatic transmission (!), can be rapidly exchanged and operated with the test bed.

RWB truck construction kit:

Solid, vibration resistant base frame with large steering rollers,

easy access to all parts of the engine due to the low position of the base frame,

supports and supporting heads freely adjustable in a wide range,

modular design which allows additions and reductions,

cost effective because it can be repeatedly disassembled and reassembled.

In addition to the truck construction kit we offer:

Operating panels with starting device and measuring instruments,

levers with Bowden wire for operating the engines, fuel tanks,

complete mounting of engines supplied by the customer or by us, prepared for the connection to our MP 80/6000 or for only idle running.

The MPW 5 Modular engine power test bed also offers its specific possibilities of rapid exchange of the engines to be tested. Particularly remarkable is the fact that it is suitable for testing 1-cylinder engines with high vibration stress.

For training purposes we do not recommend mechanical or electrical remote control systems for the engine, which are also available.

Our engine test beds are proven in industry, workshops and training institutions. Therefore students work as in practice when using our engine test beds.

The teacher's task is facilitated because he carries out a realistic engine test without any simulation. His demonstrations are convincing, because they really work.