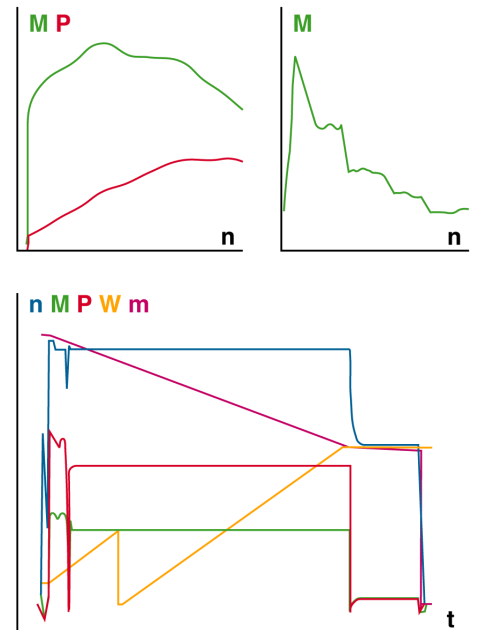


MP engine test beds with MP Computer, demonstration engines

Proven since 1980 at training facilities and in industry



System's advantages, seen didactically ...

A large group can follow the teacher's operations and the display of the measured and the derived values.
 Clear design supports understanding of engine tests.
 Impressive calibration lever explains nature of torque.
 Easy and safe operation enables the teacher to focus his efforts to explanation.
 RWB mobile operation trolley presents the engines clearly and offers easy access to all its parts.

... and economically

Only one dynamometer for demonstration of several engines within one lesson.
 No foundation required because of low vibration.
 No cooling water required.
 Ready to use when delivered.
 Can be moved and can be operated and stored at any place.
 Test bed: long lifetime, almost maintenance-free, calibration lever ensures long term accuracy.
 RWB mobile operation trolley: based on a construction kit, parts can later be used for other engines.

Applications depending on scope of delivery

torque, power = f(speed)

specific consumption sfc = f(speed, power)
 (gravimetric, selectable automatically)

thermal balance (PC required)

real function of a transmission
 (automatic transmission only with PC)

p-V-diagram (PC required)

Functions of engine and engine control depending on the load may be demonstrated by using **motor analysers, exhaust gas analysers** and further measuring instruments.

Above tests can be carried out in different ways:

- conventionally or
- supported by the test bed's MP Computer or
- with automatic documentation
 by directly printing or
 by PC.

Model-specific **error-switch boards** are extending the demonstration varieties and are enabling a practical **error diagnostics**.

Comparison of different engines
 under a certain aspect within one lesson.

e.g. MP 100 S engine test bed with MP Computer

Basic equipment: Dynamometer with

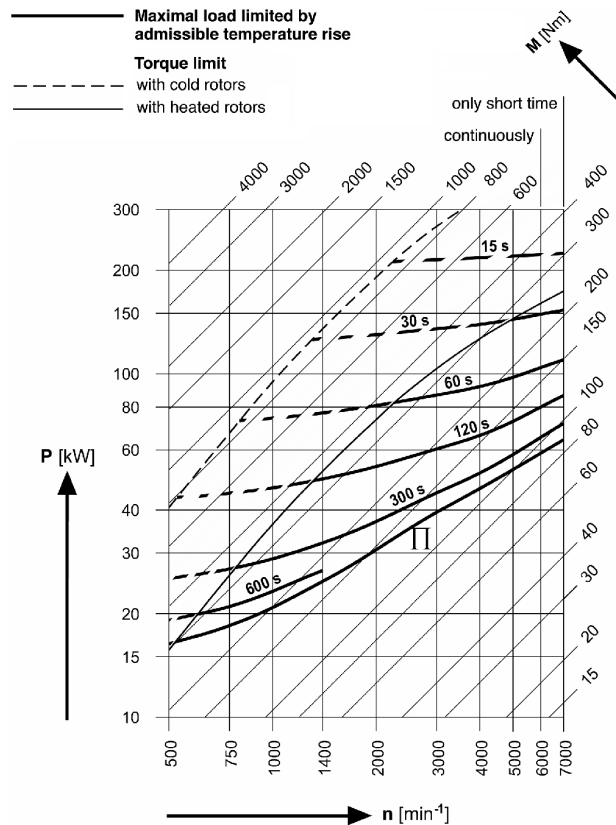
- air-cooled electro-magnetic eddy-current brake
- cardan shaft for max. 800 Nm in protective housing
- calibration lever 250 Nm
- MP Computer

Power range 5 ... 150 kW

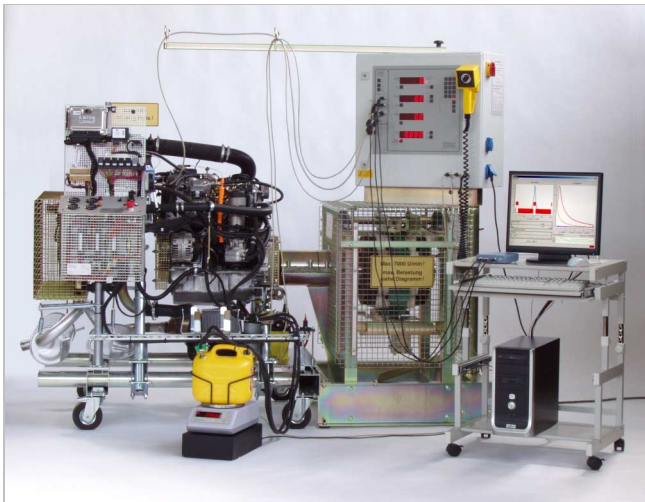
Suitable for testing

- passenger car engines (also with manually operated or automatic shift gears, even in the 1st speed)
- smaller truck engines
- electric motors
- hydrostatic motors
- smaller tractors at their power take-off shaft (special equipment required)

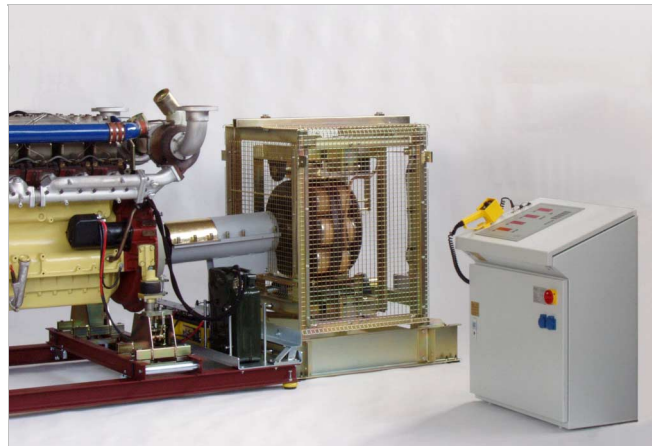
Requirements: 400 V 3-phase AC (other supply voltages possible)



Variety of designs



MP 100 S, fuel consumption metering and p-V-diagram.



MPL 500 M, truck engine on universal engine support.

Demonstration engines

are

- mounted on our vibration resistant **RWB mobile operation trolley** or on our **universal engine supports**,
- prepared for **quick connection to the engine test bed** and
- for **gravimetric determination of fuel consumption**

Requirements: exhaust evacuation

We mount engines to be tested under load or not under load, according to your requests, and ready to start. Whether these engines are provided by us or by you is irrelevant.

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