

# UNIVERSAL TEST BENCH FOR HYDRAULIC COMPONENTS

## Test components

- Cylinders
- Standard sandwich- and cartridge-valves
- Proportional valves
- Servo valves

## Test scope

- Motion test
- Leakage test
- Static pressure test (up to 400 bar)
- Static high pressure test (up to 700 bar)
- Friction test
- Oiltemperature
- External tests for special cylinders



<< TECHNICAL DATA



## Features

- Safe and simple operation
- Appropriate for testing of a broad range of different cylinders and valves
- Operation via touch panel (by request via monitor and keyboard)
- Display of test parameters via touch panel (by request via monitor)
- Automatic monitoring of oil tank level, filter clogging, oil temperature
- Bypass filtration for optimal oil cleanliness
- Oilfilter in test circuit
- Serial cylinders and valves under test will be mounted manually on the test bed.
- Larger special cylinders will be mounted on an external mounting device for testing.
- Oil sump under test bed with automatic controlled sump pump
- Drip pan under test bed and hydraulic unit
- Oil heating integrated in hydraulic unit
- A test report is completed and stored on the test stand
- Storage of measured values in CSV file

## Safety

// All tests are conducted within a closed test cell which protects the user from pressurized media exiting the test device.

// The test cell is monitored in the Control System of the test bench.  
A safety interlock monitors the door-status.

// Working on the test device in the test cell while the operation is running is possible for pressures up to 100 bar.

// The test bench fulfills all applicable requirements from the European Machine Directive and the resulting standards

// For external testing of large special cylinders, the safety instructions from the instructions for use must be observed.

## On Request

- Distance measurement
- Flow measurement
- Connections for basic tests of hydraulic valves
- Database connection to customer database

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## TECHNICAL DATA

### Test Circuit 1 (and external Test Circuit)

- Power drive motor 22 kW
- Max. flow at test cylinder 180 l/min @ 55 bar
- Max. pressure at test cylinder 420 bar @ 20 l/min
- Measurement accuracy 600 bar 0,5 % FS
- Flow flushing pump 25 l/min
- Tank heater approx. 4,5 kW
- Pressure filter 6 µm
- Returnfilter 6 µm

### Test Circuit 2

- Power drive motor 5,5 kW
- Max. flow at test cylinder 1,8 l/min
- Max. pressure at test cylinder 700 bar
- Dimensions in mm (l x b x h) app. 3100 x 2400 x 2000
- Weight approx. 4 t
- Electrical connection 3 x 400 VAC, 50 Hz
- Total installed power approx. 45 kW