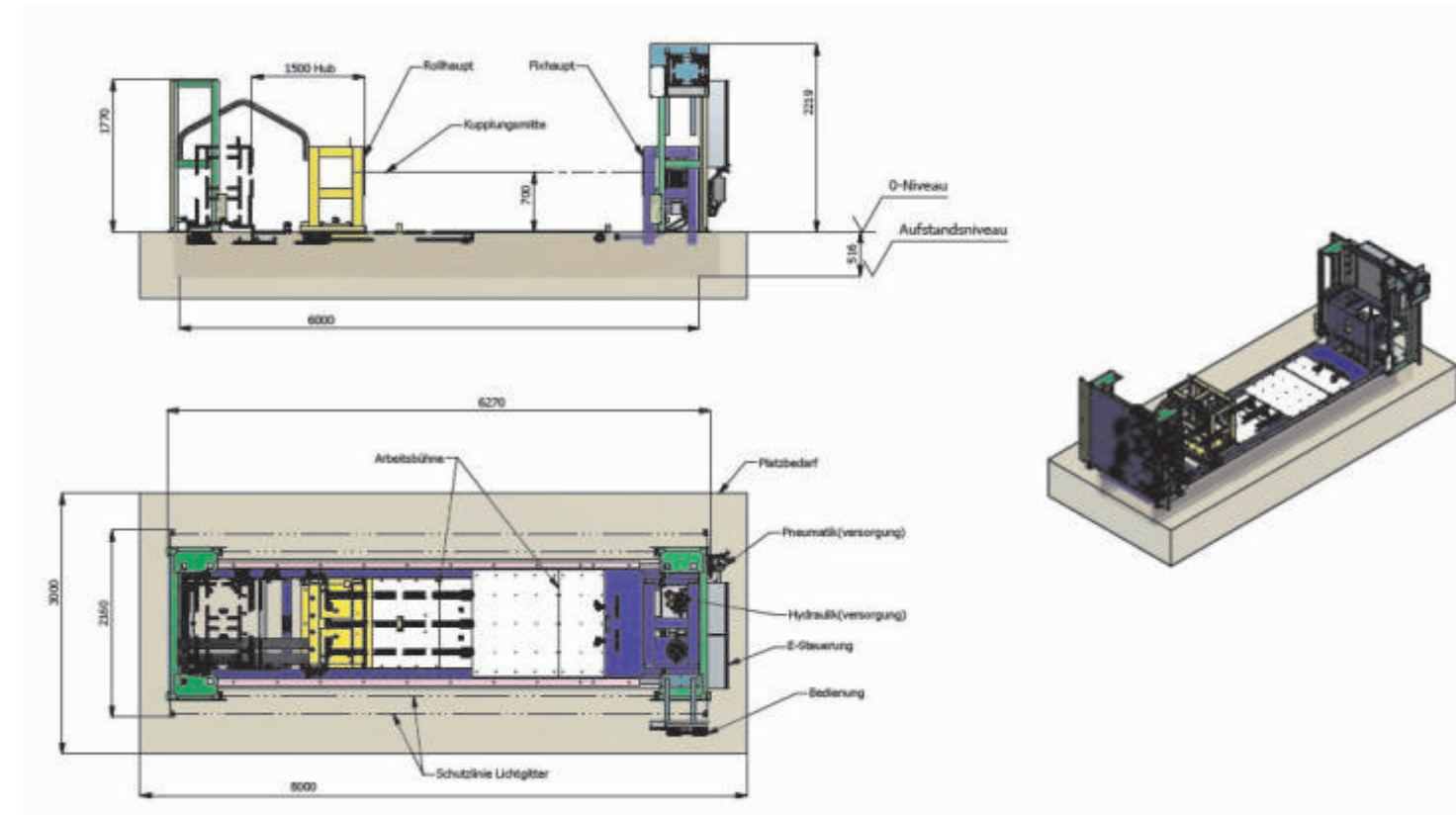
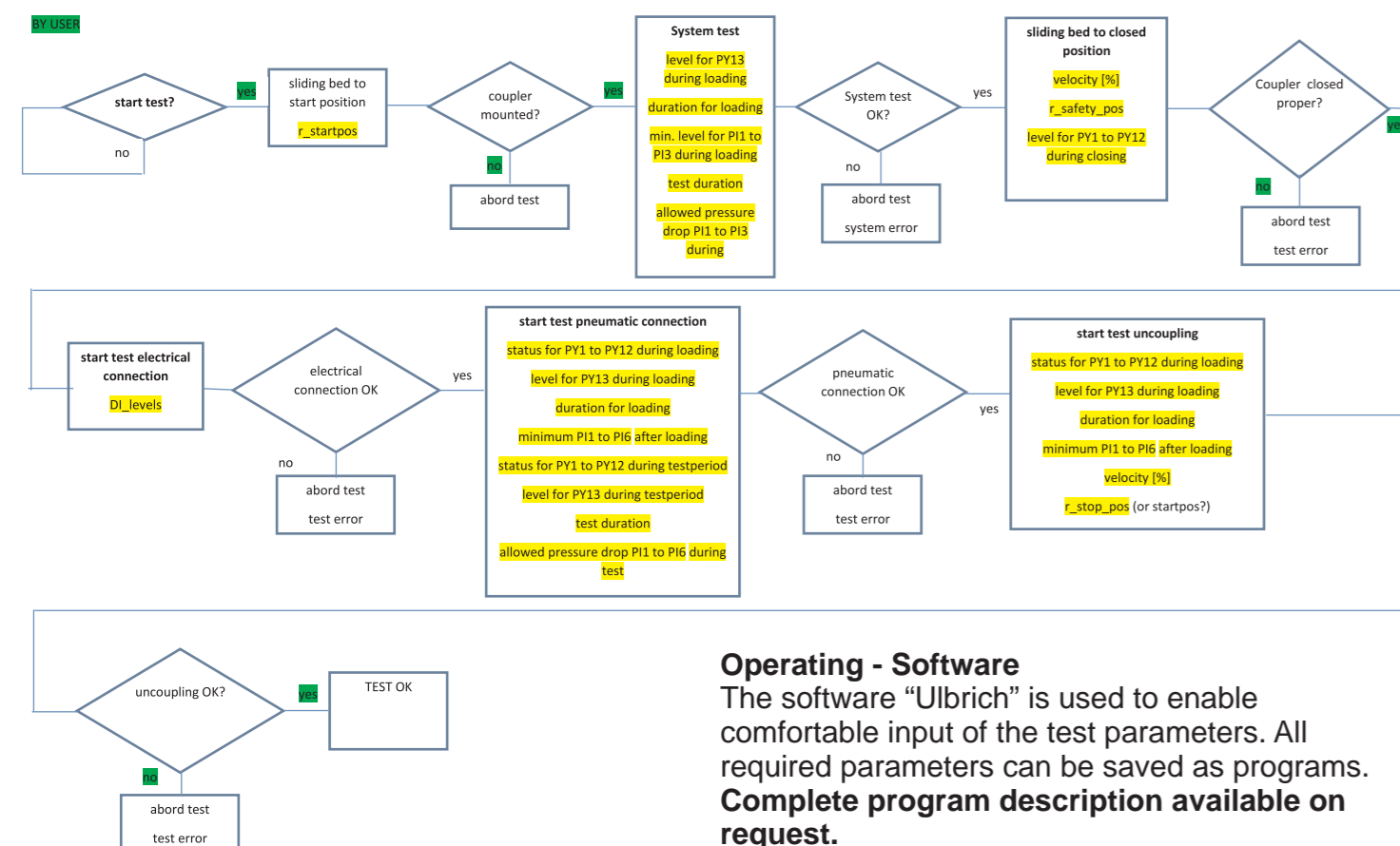


Technical Data / Dimensions

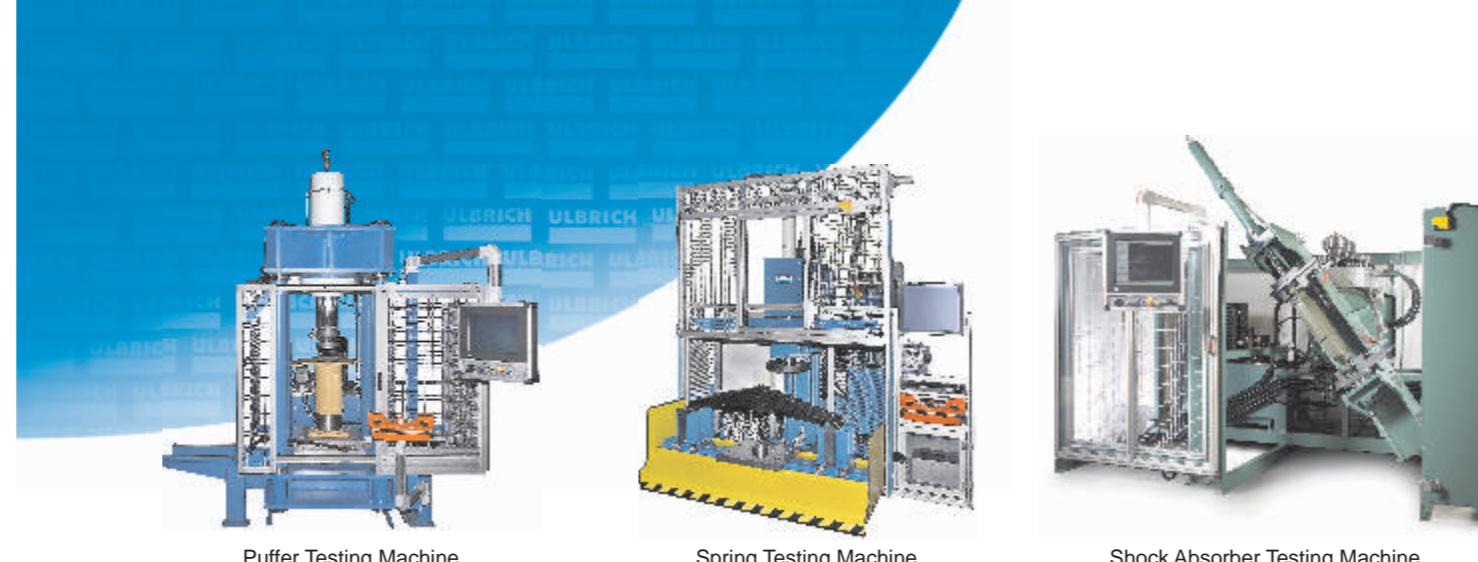
Length: 6000 mm Opening width: 4500 mm Max. closing speed: 300 mm/sec
 Width: 2200 mm Hub: 1500 mm Breaking zone selectable
 Height: 2400 mm Installed capacity: 4 kW Installed pneum. pressure increase



Testing / Program sequence



Operating - Software
 The software "Ulbrich" is used to enable comfortable input of the test parameters. All required parameters can be saved as programs. **Complete program description available on request.**



Puffer Testing Machine

Spring Testing Machine

Shock Absorber Testing Machine

Machines for testing assembling & joining

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Press fit and analysis units



Press fit and analysis units

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Spring and Shock Absorber Testing Machine



Chockblock Testing Machine



Central Coupler Testing Machine

Railway Depot Equipment Central Coupler Test Machine



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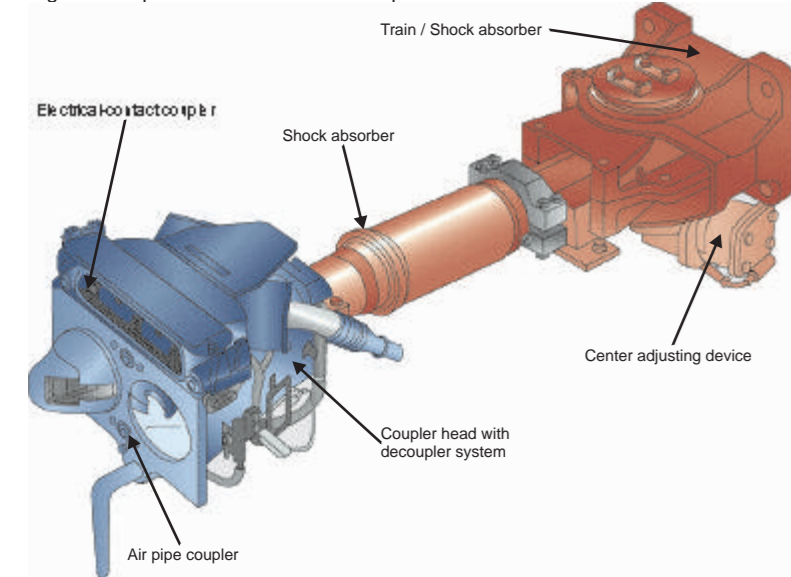
Coupler test machine for automatic centre buffer coupler

Automatic rail couplers must be serviced and tested during a review

The following functions can be examined with the ULBRICH Coupler test machine:

1. Check the coupler lock - pneumatic and electronic interfaces - with the use of the signal transmitter
2. Tests the coupler pneumatic seals for leaks
3. Checks the coupler signal pass through electronics
4. Functional load test of the coupler up to a max. of 50 kN
5. Checks the coupling and uncoupling function

Fig. 1 Example - Construction of a coupler



A coupler element to be tested always consists of a unit in the scope shown in Fig. 1. The flange with which the coupler is screwed to the machine can be seen in the upper right of the picture. The counterpart that will be coupled, remains permanently on the test machine and will only be replaced if another type of coupler needs to be tested. Since different types of coupler systems usually also have different functions, where their plug connections and pneumatic connections are different, the test machine has corresponding adaptation possibilities.

Technical design:

A plate serves to receive the machine coupler on one side of the machine. The connections of the machine coupler are designed in such a way that they can be loosened by means of plug connectors in a simple manner and by way of fewer manual actions. Only the coupler head is mounted without the shock absorber system. (It can also be designed so that the machine coupler is mounted on the moveable plate and the coupler to be tested is on the fixed plate).

The plate is moveable and connected to the main frame.

The moveable part of the machine to which the coupler is mounted has a minimum clearance of 1500 mm from the fixed part and can be moved away up to 2500 mm.

The control unit is housed in a control cabinet - which is in the form of a desk and stands next to the machine. A touch panel PC is installed in the console itself on which the test process sequence can be followed. In addition, a printer can be installed where a test report can be printed after the checking of the coupler has completed.

The force is measured by means of the measured hydraulic pressure.

A distance measurement is not provided by default.

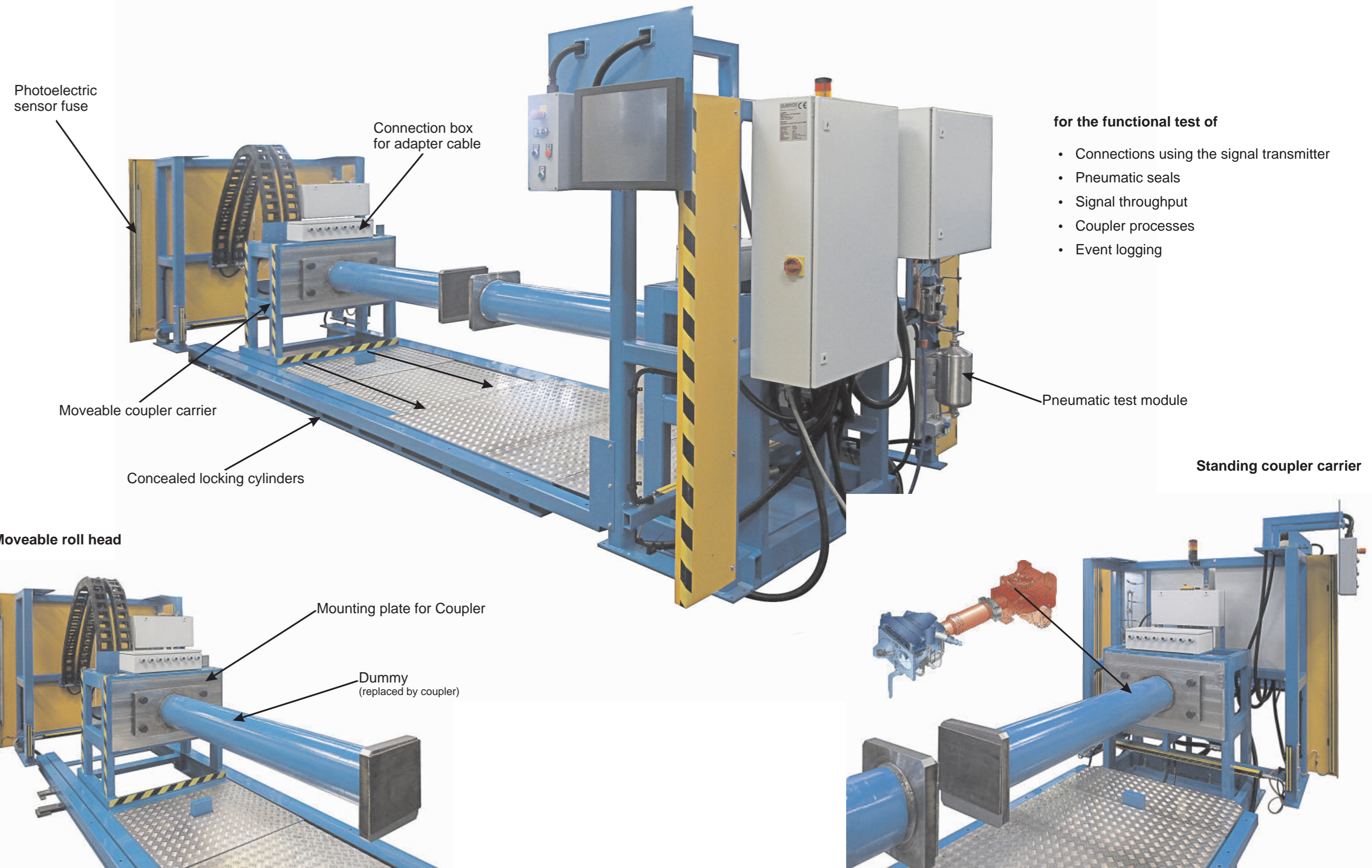
The pneumatic pressure measurement or pressure drop measurement is carried out by means of pneumatic pressure sensors with an accuracy of 0.01 bar. The maximum operating pressure is 7 bar.

The decoupling is carried out pneumatically by controlling the decoupler line.

The maximum force for connection / coupling is 50 kN.

ULBRICH

Test machine for automatic buffer couplings



for the functional test of

- Connections using the signal transmitter
- Pneumatic seals
- Signal throughput
- Coupler processes
- Event logging