



**Hegewald & Peschke**  
Meß- und Prüftechnik GmbH

Product information

# Universal testing machine inspekt blue

20 kN and 30 kN



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### General product description

The material testing machines of the series inspekt blue are especially suitable for standard applications in quality assurance. Due to the high demand for cost-efficient testing machines, inspekt blue has been equipped with a simple, but multifunctional load frame. The inspekt blue is suitable for tensile, compression, peel and bending tests on various materials. In combination with the ergonomic design and the new brushless drive concept, a safe and fast measurement is guaranteed with the simplest operation both in the harsh production environment and in the sterile laboratory area.

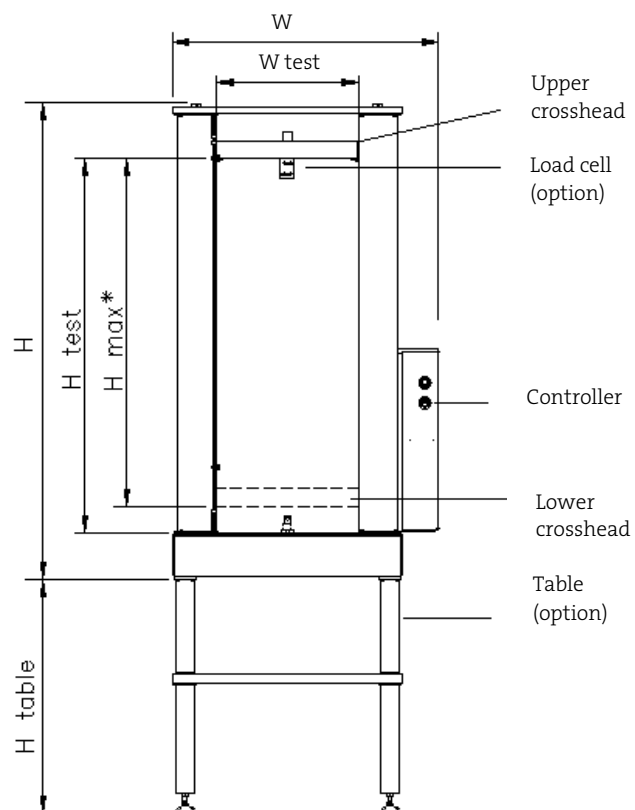
### Essential characteristics

- Innovative brushless drive without gear drive
- Reduced noise pollution due to low engine speed and optimized frequency range
- Freely selectable control of crosshead travel, force or elongation
- High-precision force measurement by strain gauge load cell
- Designed for both standing (with optional workbench) and seated working
- Various adaptation of accessories and additional load cells

### Dimensions:

	mm
<b>H (height)</b>	1420
<b>H test (test room height)</b>	1100
<b>H max * (max. test stroke)</b>	1005
<b>W (width)</b>	790
<b>W test (test room width)</b>	420
<b>D (depth)</b>	450
<b>H table (height table)</b>	685

\* Crosshead travel without grips, adapter and load cell



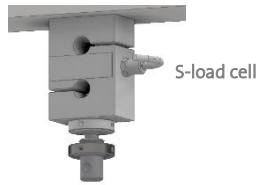
View universal testing machine with dimensions



Technical data:

<b>Test force tension/compression</b>	20 kN	30 kN
<i>Item number</i>	10-030-209	10-030-309
<b>Stiffness load frame</b> incl. deformation of the load cell and tool adapter	35 kN/mm	40 kN/mm
<b>Test speed</b>	0.0003 mm/min – 400 mm/min	0.0002 mm/min – 240 mm/min
<b>Max. resolution of crosshead travel measurement</b>	<0.005 µm	<0.003 µm
<b>Mechanical construction</b>	2 backlash-free recirculating ball screws, brushless drive	
<b>Measuring range force</b>	In the range 0.1 - 100 % of nominal load class 1 (optional class 0.5) depending on the force sensor used (according to DIN EN ISO 7500-1, ASTM E4)	
<b>Force measurement resolution</b>	24 bit (±8,388,608 Digits)	
<b>Measurement and control electronics</b>	Force and crosshead travel channel integrated Additionally 3 free slots for expansion cards for analogue/digital inputs/outputs for force, displacement, strain gauges, as well as +/- 10V input for external measuring devices, safety door connection	
<b>Electrical connection</b>	230 VAC, 0.5 kVA, 50 Hz, 10- 30°C, 20- 80 % humidity	
<b>Weight</b>	140 kg	
<b>Data processing</b>	Ethernet (LAN) or USB, 50Hz (Standard) <i>optional increased data acquisition rates</i>	
<b>Application</b>	Testing of metals, wire testing Testing of plastics, lightweight materials and components Component and creep testing, elastomer tensile tests Spring testing, foils, textile testing	
<b>Hint</b>	This testing machine series is not designed for connecting external electrical devices (e. g. temperature chambers) to the emergency stop circuit of the machine.	

## Necessary accessories



S-load cell



R-load cell up to 100% cross load stability



R-load cell  
(for cl. 0.5 ISO 7500)

## Standard load cells

including H&P-factory calibration class 1 acc. to DIN EN ISO 7500 with protocol (Class 0.5 optional, DAkkS calibration optional).

Force measuring range	S-load cell	R-load cell cross load stability up to 100% up to class 1 acc. to ISO 7500	R-load cell cross load stability up to 50% up to class 0.5 acc. to ISO 7500
10 N	11-001-343		
20 N	11-001-348		
50 N	11-002-343		
100 N	11-003-343		
200 N	11-003-348		
500 N	11-004-343	11-004-305	
1 kN	11-005-343	11-005-350	
2 kN	11-005-345	11-005-352	
2.5 kN	11-005-347		11-005-325
3 kN	11-006-340		
5 kN	11-007-340	11-007-350	11-007-300
10 kN	11-009-340	11-009-355	11-009-305
20 kN	11-010-340	11-010-500	11-010-305
30 kN		11-018-300	11-010-365

## Adapters

Item number	
12-xxx-001	for S-load cells on crosshead to connector R20/8 up to 20kN
12-xxx-002	for R- load cells on crosshead to connector R20/8 up to 20kN
12-xxx-005	for load cells on crosshead to connector R36/18 up to 50kN

## Optional accessories



## Safety doors

To ensure the protection of the operator at any time, the load frames of the universal testing machine inspekt blue can be equipped with different safety devices. They are especially important when working with splintering, flogging or exploding specimens. The safety door for the inspekt duo testing machine is made of transparent material. It is available on the front side for sliding to the left and at the sides.

Item	for inspekt blue 20/30
Safety door, front and sides	19-030-020
Safety door, front and sides with software surveillance	19-030-027
Safety door, front and sides with safe electrical locking	19-030-028
Safety door, back side and at the sides	19-030-008/011

## Extensometers and holders

Item number	Item	Extensometer holder
15-024-031	Long distance extensometer L700, Series table/BLUE/solo/duo	15-010-004
15-024-030	Long distance extensometer L1100, Series table/BLUE/solo/duo	
15-012-6x0	Videoxtensometer ONE1	15-012-931
15-100-1x0	Long distance extensometer MFX200	15-010-004
15-100-1x2	Long distance extensometer MFX500	(15-010-001 optional)
15-100-180	Long distance extensometer MFE	
Others on request		

## T-groove plates

The T-groove plates are used for larger specimens and for specimens requiring variable mounting points.

Item number	
14-075-106, 14-075-117, 14-075-150, 14-075-155, 14-075-160	



## Workbenches

An ergonomically designed workplace with functional equipment is the basis for an efficient performance of tasks. In order to facilitate the design of the measuring workplace, we offer you the following accessories.

Item number	
10-030-807	

## Hand panel

Item number	Item
10-030-880	Hand panel RMC 6