



## Product information

# Universal testing machine inspekt blue

20kN and 30kN





### 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.

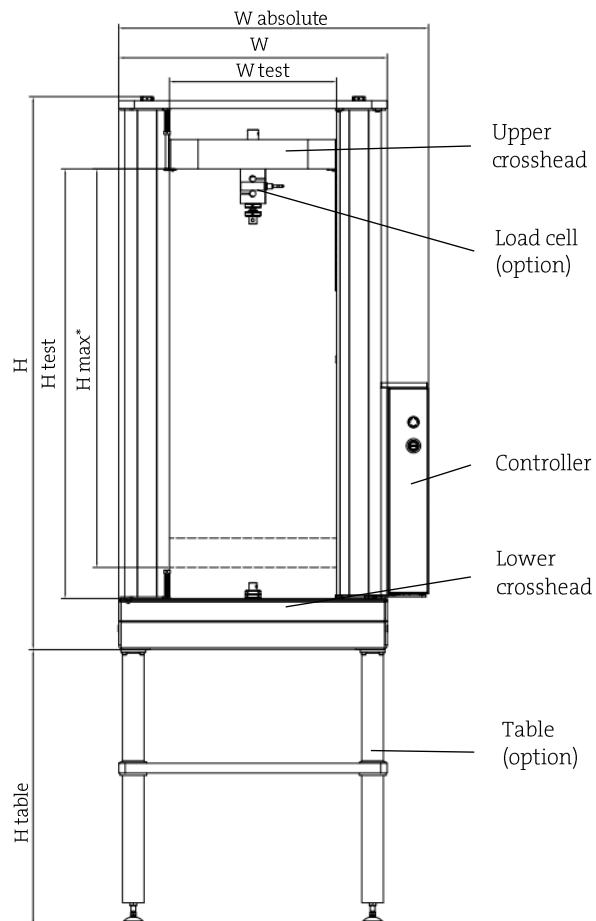
### Essential characteristics

- 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 absolute (width with control)</b>	750
<b>W (width)</b>	685
<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



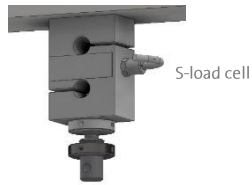
Technical data\*:

<b>Test force tension/compression</b>	20kN or 30kN	
<b>Mechanical construction</b>	2 backlash-free recirculating ball screws, brushless drive	
<b>Stiffness load frame</b>	22kN/mm	
<b>Measuring range force</b>	In the range 0.4 - 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>Test speed</b>	at 20kN: 0.0003mm/min - 250mm/min	at 30kN: 0.0001mm/min - 200mm/min
<b>Drive path resolution</b>	<1µm	
<b>Electrical connection</b>	230 VAC, 0.5 kVA, 50 Hz, 10- 30°C, 20- 80 % humidity	
<b>Weight</b>	140kg	
<b>Data processing</b>	USB 2.0 interface or LAN, data transfer rate to PC: 200 Hz (50Hz standard), internal data processing rate 1000 Hz (1ms)	
<b>Controller</b>	EDC 2	
<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.	

\* Subject to technical changes.



## 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
10N	11-001-343		
20N	11-001-348		
50N	11-002-343		
100N	11-003-343		
200N	11-003-348		
500N	11-004-343	11-004-305	
1kN	11-005-343	11-005-350	
2kN	11-007-342	11-005-352	
2.5kN	11-005-347		11-005-325
3kN	11-006-340		
5kN	11-007-340	11-007-350	11-007-300
10kN	11-009-340	11-009-355	11-009-305
20kN	11-010-340	11-010-500	11-010-305
30kN		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 samples. 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 side	19-030-020
Safety door, front side with software surveillance	19-030-022
Safety door, back side and at the sides	19-030-008/011

## Extensometers and holders

Item number	Item	Extensometer holder
15-024-021	Long distance extensometer L700, Series table/BLUE/solo/duo	
15-024-020	Long distance extensometer L1100, Series table/BLUE/solo/duo	15-010-000
15-012-400/-410/-420	Video extensometer	15-012-931
15-100-060	Long distance extensometer MFX200	
15-100-068	Long distance extensometer MFX500	15-010-000
15-100-025	Long distance extensometer MFE	(15-010-001 optional)
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
10-030-896	Hand panel RMC 6