



Hegewald & Peschke

Meß- und Prüftechnik GmbH

Product information

Universal testing machine inspekt 100 kN



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Solid construction for highest measuring and control precision

- 4 guiding columns and 2 backlash-free precision ball screws
 - Precise force transmission
 - High lateral force stability
 - Increased axial stiffness
- Robust design with casing and bellow cover
 - Low maintenance needs
 - Also for use in harsh production environments
- Powerful brushless AC drive
 - Increased test speeds
 - For static material testing as well as for alternating and continuous loading

Flexible design for versatile applications

- In standard lower and upper test rooms; optional additional lateral test room
 - Different test tasks without changing the test tools
 - Ergonomic working height
- Variable load frame for different test room heights and widths
- Connection of peripheral devices (e.g. ovens, temperature chambers) and additional measuring and control channels possible

Our testing machines speak your language: LabMaster - the testing software from Hegewald und Peschke

- User-friendly usage concept
- Complete software including all test modules (tensile, compression, bending, peel test) without additional costs
- Universally applicable: simple and complex test procedures: standard-compliant and customer-specific
- High flexibility for integration of external devices, data import and export as well as free configuration of test procedures



Innovative control electronics for maximum measurement resolution & extensive functionality

- High modularity and control precision
- Adaptive controller
- High-quality signal converters for maximum resolution
- Standard functions:
 - Force, displacement, strain control
 - Overload protection
 - Automatic sensor identification incl. calibration data storage
 - Specimen break detection
 - Return function
 - Manual positioning via hand panel or our testing software LabMaster

Highest safety with maximum operating convenience

- CE-compliant protective housing optionally available for every application
- Sustainable: capable for cost-efficient and application-oriented updates/upgrades
- Stable and vibration-damped: large machine feet allow leveling as well as installation without foundation and increase stability

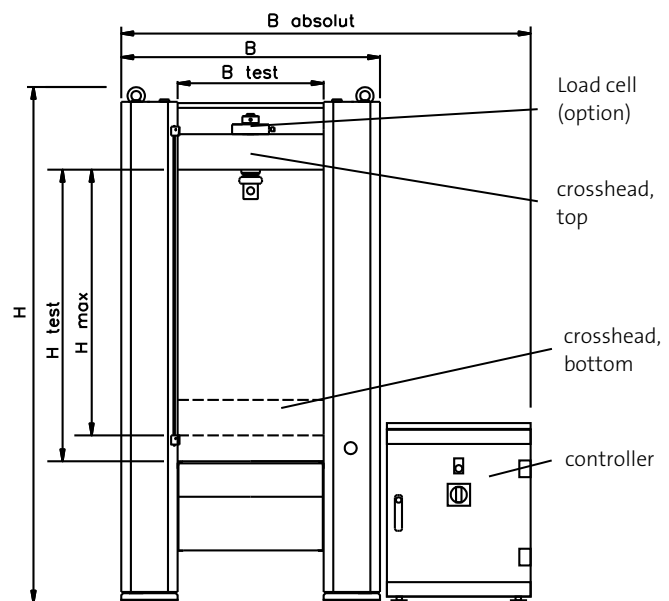


Technical data:

Nominal load	Main working room: 100 kN, test room above the moving crosshead: 3 kN
Mechanical structure	2 backlash-free precision ball screws, 4 hardened guide columns - with spindle protection, drive via AC servo motor
Stiffness of the test frame (incl. deformation of load cell and tool adapter)	170 kN/mm
Test speed	0.0001 - 1000 mm/min (<i>optionally expandable</i>)
Resolution of crosshead travel measurement	<0.002 µm
Force measuring range	Class 1 (optionally class 0.5) from 0.2 - 100 % of the nominal load depending on the load cell used (according to DIN EN ISO 7500-1, ASTM E4)
Measuring, control and regulating electronics	Load and traverse path channel integrated 7 additional free slots for expansion cards for analog/digital inputs/outputs for force, displacement, strain gauges, as well as +/-10V input for external measuring devices, safety door connection
Data transmission	Ethernet (LAN) or USB, 50 Hz (standard), <i>optionally higher data acquisition frequency</i>
Electrical connection	3P/PE/400 V/ 50 Hz / (TN- Net) 4.0 kW, 4 m cable with 16CEE plug on machine-controller, 5- 40 °C, 20- 80 % humidity
Main test tool connection	R60/30 or LK135-12xM12-IG
Scope of delivery	Testing machine with measurement and control electronics, hand panel with force-displacement display for manual positioning & setup operation
Options necessary for operation:	Load cell, clamping tool/testing tool, adapter set, LabMaster user software, PC (current standard), Windows® operating system

Dimensions/weight:

	[mm]
H (height)	2150
H test (test room height)	1210
H max (max. test stroke without test tools, adapter and load cell)	1090
B (width)	1080
B absolut (width with control)	ca. 1700
B test (test room width)	610
Depth	700
Weight: 1050 kg	



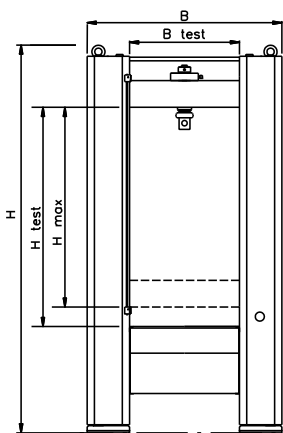


Further options:

- Temperature control equipment (e.g. ovens, temperature chambers) [Fig. 1].
- Clip-on extensometers, long-distance extensometers, optical extensometers [Fig. 2]
- Protective devices [Fig. 3]
- Multiple test rooms: lateral or above the moving crosshead [Fig. 1 and Fig. 4]
- Increased test speed
- Modified moving crosshead:
 - with load cell shifting unit for test applications outside the standard test axis
 - for mounting several load cells side by side
- Extensive range of accessories (e.g. T-groove plates [Fig. 4])



Option: extension and widening of the test room



Enlargement in [mm]	H +250	H +550	B +140	B +140 H +250	B +140 H +550	B +430	B +430 H +250	B +430 H +550
Weight [kg]	1070	1090	1090	1120	1140	1180	1200	1220
H [mm]	2400	2700	2150	2400	2700	2150	2400	2700
H test [mm]	1430	1700	1220	1430	1700	1200	1400	1670
H max [mm]	1270	1530	1090	1270	1530	1070	1240	1500
B [mm]	1080		1220			1510		
B test [mm]	610		750			1040		
Stiffness [kN/mm]	170		130			120		

