Hegewald & Peschke
Meß- und Prüftechnik GmbH

Product information

Universal testing machine inspekt 200 kN

zertifiziert nach DIN EN ISO 9001
TÜV CERT
Zert. Nr. 08/100/9044/3

Hegewald & Peschke, Meß- und Prüftechnik GmbH
Am Gründchen 1, 01683 Nossen, Germany
Telephone: +49 35242 445-0, Telefax: +49 35242 445-111
E-Mail: info@Hegewald-Peschke.de
https://www.Hegewald-Peschke.com

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

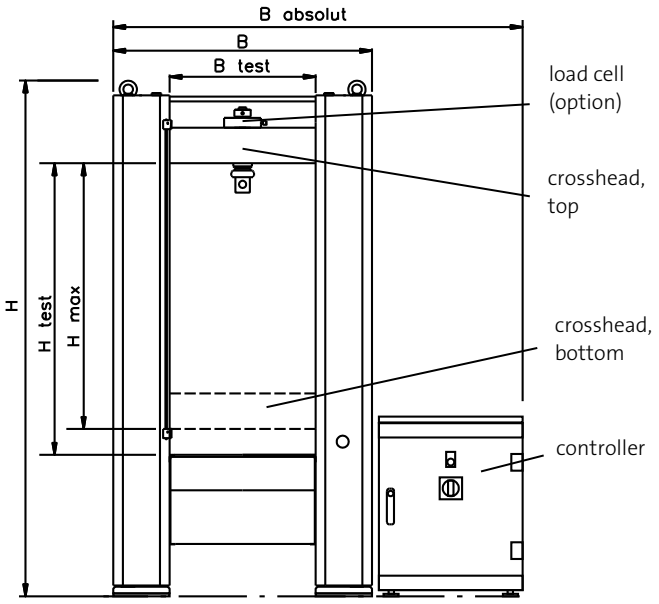
Technical data:

Nominal load	Main working room: 200 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)	260 kN/mm
Test speed	0.00006 – 600 mm/min *(optionally expandable)*
Resolution of crosshead travel measurement	<0.0012 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), *optionally higher data acquisition frequency*
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)	1200
H max (max. test stroke without test tools, adapter and load cell)	1070
B (width)	1080
B absolut (width with control)	ca. 1700
B test (test room width)	610
Depth	700

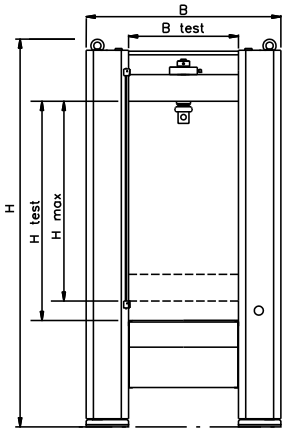
Weight: 1100 kg



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]	1120	1140	1160	1190	1210	1330	1350	1380
H [mm]	2400	2700	2150	2400	2700	2150	2400	2700
H test [mm]	1410	1680	1200	1410	1680	1200	1410	1680
H max [mm]	1250	1510	1070	1250	1510	1070	1250	1510
B [mm]	1080		1220			1510		
B test [mm]	610		750			1040		
Stiffness [kN/mm]	260		200			170		