



Hegewald & Peschke
Meß- und Prüftechnik GmbH

Product Information

Hydraulic Universal Testing Machine Inspekt 1000-H



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Technical data:

Test load	1000kN
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Mechanic and hydraulic design	<p>The lower crosshead is guided by two fixed spindles, which are connected to the machine base. The crosshead can be moved with an electric motor. The upper crosshead is connected to the machine table via the two loading columns. The machine table is fixed to the piston of the hydraulics cylinder. It allows for the load transmission to the upper crosshead. With the help of limit switches it is possible to shut off the oil pump when approaching the crosshead. The hydraulic unit consists of an oil pump, oil tank, filter, hydraulic and electro-hydraulic servo valve. The entire unit can be found in the lower part of the controller.</p> <p>2 testing rooms up to 1000 kN nominal load:</p> <ul style="list-style-type: none">• Testing room width: 750 mm• Testing room depth: 750 mm• Max. testing room height: 1000 mm• Test stroke (piston range): 250 mm <p>By default, 1 interface is provided for an analogue sensor with d.c. voltage signal 2mV/V (e.g. extensometer MFA). An additional board is not necessary.</p>
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Measuring range	<p>Load measurement is done with a high-precision load cell that is installed on the hydraulic cylinder.</p> <ul style="list-style-type: none">• Measuring range: in the range of 0.4 - 100 % of nominal load class 1 (+/- 1 % of the displayed value according to DIN EN ISO 7500/1)• Resolution of load measurement: +/- 180,000 digits at an integration time of 20ms
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Speed range	<ul style="list-style-type: none">• Stroke speed: 70 mm/min• Positioning speed of the crosshead with hydraulic motor: 400 mm/min
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Piston stroke measurement	Trip wire displacement sensor
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Power ratings	3P/PE/400V/ 50 Hz / (TN- Net) 4.5kVA, 4 m cable with 16CEE plug on machine-controller, (FI all-current = IN500mA), 5- 40°C, 20- 80 % humidity
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Standard functions	<ul style="list-style-type: none">• Load- position- and extension control• Over-load protection
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Your contact person:

- Automatic load calibration
- Panel for manual mode
- Sample failure detection
- Return function
- Precise manual positioning of the crosshead setup operation with handheld panel

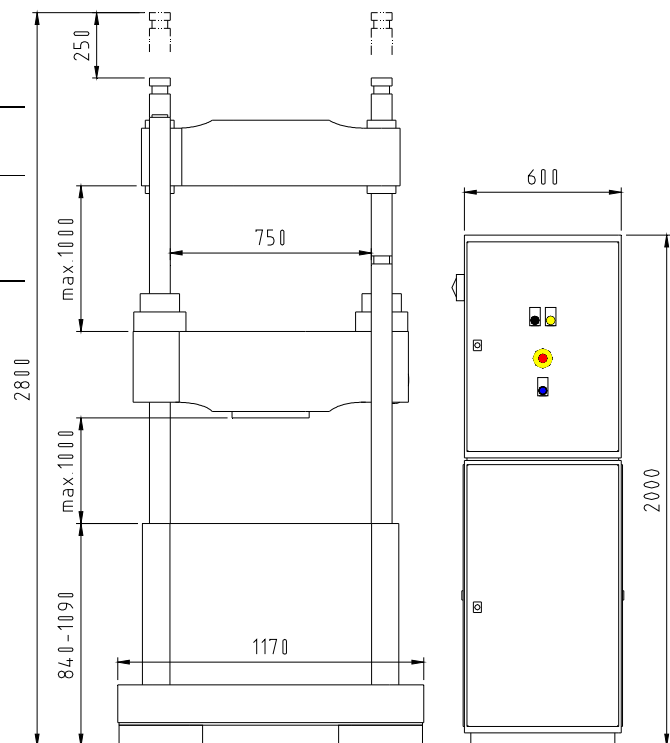
Software interface	USB 2.0 Interface or LAN
Data transfer rate	Data transfer rate to PC: 50 Hz (standard) optionally higher rate with a special software add on-module Internal data-processing rate: 2 ms
Optional measuring channels	max. 1 free slot for additional boards (1-channel analogue boards or 2-channel digital boards) for additional sensors
Integrated or incl. clamping tools	Tensile test Max. clamp distance 1000mm, self-clamping wedge type grips for round specimens (12-70mm). Grips for flat specimens (0-65mm thickness) are an option and can be ordered additionally. Pressure test Compression plate, diameter: 160mm

Dimensions:

Machine: 1170 x 750 x 2800mm

Controller: 600 x 600 x 1900mm

Weight Machine: 3500kg
Controller: 200kg



Your contact person: