



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

Product Information

# Hydraulic Universal Testing Machine Inspekt 500-HF

including hydraulic grips



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Technical data:

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<b>Test load</b>	500kN
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<b>Mechanic and hydraulic design</b>	<p>The lower crosshead is guided by two fixed spindles, which are connected to the machine base. The crosshead can be moved with a hydraulic 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 hydraulics 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 500kN nominal load:</p> <ul style="list-style-type: none"><li>• Testing room width: 650mm</li><li>• Testing room depth: 650mm</li><li>• Max. testing room height: 900mm</li><li>• Test stroke (piston range): 250mm</li></ul> <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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<b>Measuring range</b>	<p>Load measurement is done with a high-precision load cell that is installed on the hydraulic cylinder. 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</p>
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<b>Speed range</b>	<ul style="list-style-type: none"><li>• Stroke speed: 80 mm/min</li><li>• Positioning speed of the crosshead with hydraulic motor: 400 mm/min</li></ul>
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<b>Piston stroke measurement</b>	Trip wire displacement sensor
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<b>Power ratings</b>	3P/PE/400V/ 50 Hz / (TN- Net) 2.0kVA, 4m cable with 16CEE plug on machine-controller, (FI all-current = IN500mA), 5 - 40°C, 20 - 80 % humidity
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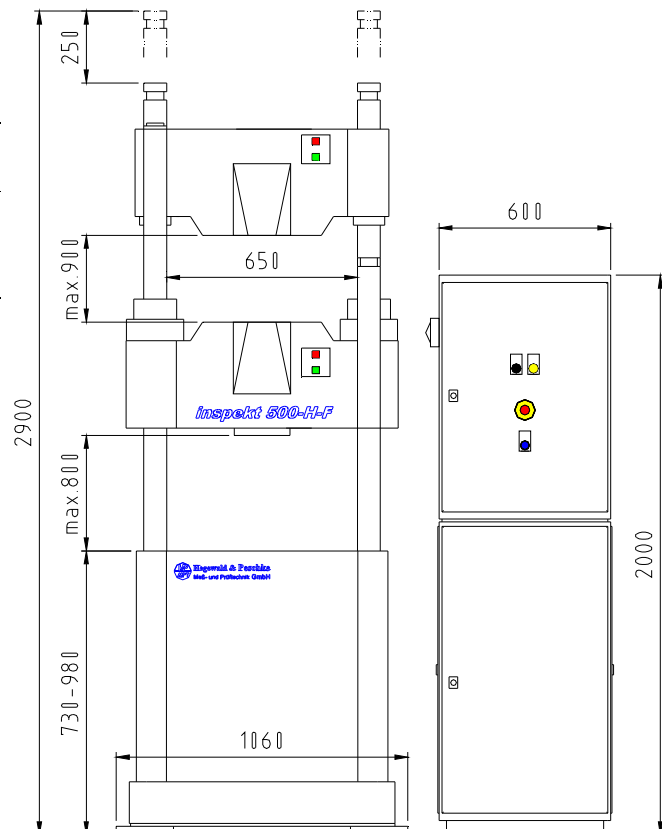
<b>Standard functions</b>	<ul style="list-style-type: none"><li>• Load- position- and extension control</li><li>• Over-load protection</li><li>• Automatic load calibration</li><li>• Panel for manual mode</li><li>• Sample failure detection</li></ul>
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	<ul style="list-style-type: none"> <li>• Return function</li> <li>• Precise manual positioning of the crosshead setup operation with handheld panel</li> </ul>
<b>Software interface</b>	USB 2.0 Interface or LAN
<b>Data transfer rate</b>	<ul style="list-style-type: none"> <li>• Data transfer rate to PC: 50 Hz (standard)</li> <li>• optionally higher rate with a special software add on-module</li> <li>• Internal data-processing rate: 2 ms</li> </ul>
<b>Optional measuring channels</b>	max. 1 free slot for additional boards (1-channel analogue boards or 2-channel digital boards) for additional sensors
<b>Integrated or incl. clamping tools</b>	<p>Tensile test Max. clamp distance 900mm, self-clamping wedge type grips for round specimens (12-30mm).</p> <p>Pressure test</p> <p>Compression plate, diameter: 120mm</p>

**Dimensions:**

<b>Machine:</b>	1060 x 700 x 2900mm
<b>Controller:</b>	600 x 600 x 1900mm
<b>Weight</b>	Machine: 2600kg Controller: 200kg



Your contact person: