

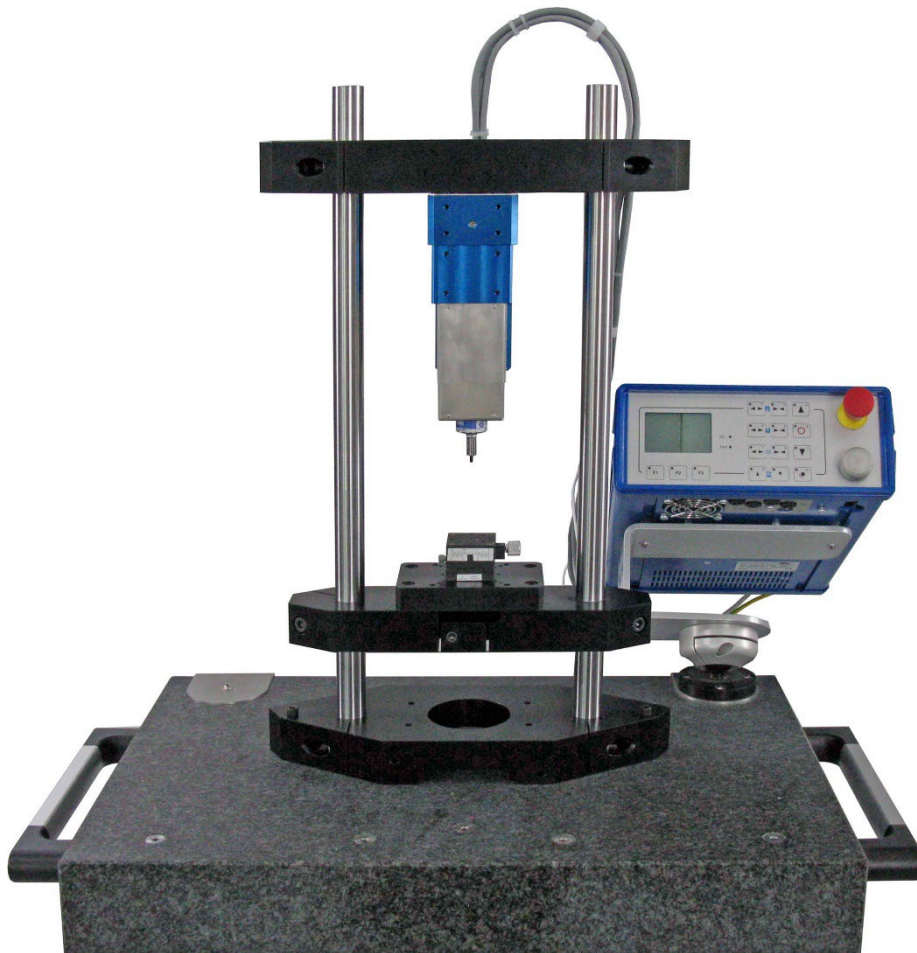


Hegewald & Peschke

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Product information

Static miniature testing machine inspekt micro S500N



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Technical data:

Mechanical design	2 backlash-free ball screws, drive via DC servo motor and backlash-free gearbox. Two flange surfaces are available for mounting on the base frame. The installation position, horizontal or vertical, can be freely selected according to the test application. F _{max} = 500 N Stiffness 25 N/μm (together with load cell 500N, without stiffness correction) Max. test stroke 50 mm
Travel speeds	Speed 0.0005 - 600 mm/min (10mm/s) or with load control up to 200 N/s Maximum path acceleration 200 mm/s ² or up to 250N/s ²
Force measurement	Measuring range: 1% - 100 % of nominal load of the load cell, class 1 (+/- 1% according to ISO 7500 class 1, ASTM E4) Force measurement resolution: 24 bit
Crosshead travel measurement	Incremental laser measuring system, linear scale made of Neoceran with -0.7x10 ⁻⁶ /C° Measurement directly between housing and connecting plate for KMZ and tools Resolution of the crosshead travel measurement: 0.002 μm, accuracy of the measuring system ±0.5 μm Storage of the crosshead position in the control unit
Dimensions / Weights	Load unit: W70 mm x D100 mm x L155 mm+50 mm stroke; 2.6 kg Control unit: W300 mm x H130 mm x D420 mm; 8.6 kg
Standard functions	Load, displacement or strain control with external measuring system Overload protection, automatic force calibration, specimen breakage detector, return function, Set-up operation via control panel with display (force, displacement) on the control unit
Data processing	Data transmission to PC: Ethernet (LAN) or USB, 50 Hz (standard), optionally higher data acquisition frequency Integrated load and crosshead travel channel 3 free slots available for expansion cards for additional measurement and control channels (optionally expandable to 7)
Connection conditions	Mains voltage 115/230 VAC, 0.5 kVA, 50/60 Hz, Ambient conditions 10- 40°C, 20- 80 % humidity, non-condensing
Scope of delivery:	Load unit with 0.6 m connection cable, control unit, USB cable, mains cable and accessory case
Options required for operation:	Base frame for holding the test head and counter bearing, Load cell, Clamping fixtures LabMaster testing software and PC

Possible assemblies:



Fig. 1.: Standard assembly

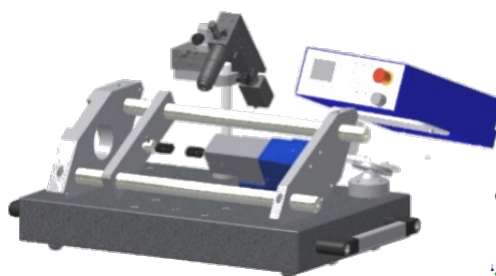


Fig. 2.: Horizontal assembly

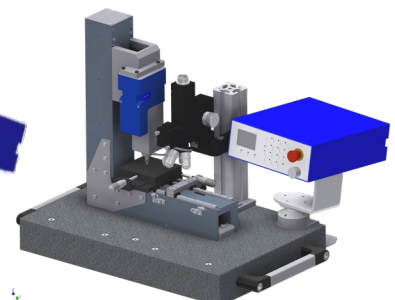


Fig. 3.: Option for hardness testing