



# Hegewald & Peschke

Meß- und Prüftechnik GmbH

## Product Information

# Single spindle testing machine inspekt S 5 kN

e.g. for compression tests on foams according to: ASTM D 3574-B1, DIN ISO 3386-1  
(DIN 53577), ISO 1798 (DIN 53571), ISO 2439 (DIN 53576), DIN 53579-1



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The universal testing machine inspekt S is an electromechanical desktop machine for loads up to 5 kN and was designed for testing foams, plastics, light-weight materials and components. The test frame is divided into base plate and portal frame with a single-spindle-actuation-unit in the centre. The test area (between the base plate and moving traverse) corresponds to the standard test area provided for the application, which can withstand the machine load of 5 kN.

The illustration above shows a specific configuration for testing flexible cellular materials, bonded and molded foams in accordance with the standards ASTM D 3574-B1 and ISO 3386-1 (load deflection). The upper circular compression pad has a diameter of 203 mm and is directly attached on the load cell by using an universal joint. The lower base plate is made of Aluminium and comes with a breadboard in centre.

<b>mechanical design</b>	<ul style="list-style-type: none"><li>• central actuation-unit with ball screw</li><li>• portal frame made of aluminium profiles</li><li>• driven by a DC-servomotor</li><li>• stiffness (system load frame-load cell max. capacity-adapter) 5 kN/mm</li><li>• one testing room (up to nominal load)</li><li>• test area width (clearance): 800 mm</li><li>• crosshead travel (without grips, adaptors and load cell): 500 mm</li><li>• base plate with breadboard in centre (area 300x300 mm)</li></ul>
<b>standard functions</b>	<ul style="list-style-type: none"><li>• programmable control at selected load, stroke or strain values</li><li>• over-load protection, automatic calibration</li><li>• specimen-break-detector, return-function</li><li>• manual positioning</li></ul>
<b>capacity</b>	5 kN
<b>testing speed</b>	0.05 – 800 mm/ min
<b>return speed</b>	800 mm/ min
<b>force measurement range</b>	in range of 0.1 - 100 % of load cell capacity class 1 (optional class 0,5) according EN 10002-2, ASTM E4, DIN EN ISO 7500 class 1)
<b>stroke measurement</b>	incremental input with sensor monitoring, storing of stroke position
<b>stroke resolution</b>	< 1µm
<b>data processing</b>	<ul style="list-style-type: none"><li>• data transfer rate to PC: Ethernet (LAN) or USB, 50 Hz (standard), optional increased data acquisition rates</li><li>• integrated force and crosshead travel channel</li><li>• 3 additional free slots for data acquisition cards for additional control channels available (optional expandable to 7 slots)</li></ul>
<b>power consumption</b>	115/230 VAC, 0.7 kVA, 50/60 Hz, 5- 40°C, 20- 80 % humidity
<b>dimensions (w x d x h)</b>	1020 x 810 x 1460 [mm]
<b>weight</b>	80 kg
<b>essential options, not included in delivery</b>	<ul style="list-style-type: none"><li>• load cell 5kN 11-007-300</li><li>• adapter set 12-xxx-002</li><li>• load pad 41-006-105</li><li>• tool holder 12-006-450</li><li>• testing program LabMaster 18-014-xxx</li></ul>