



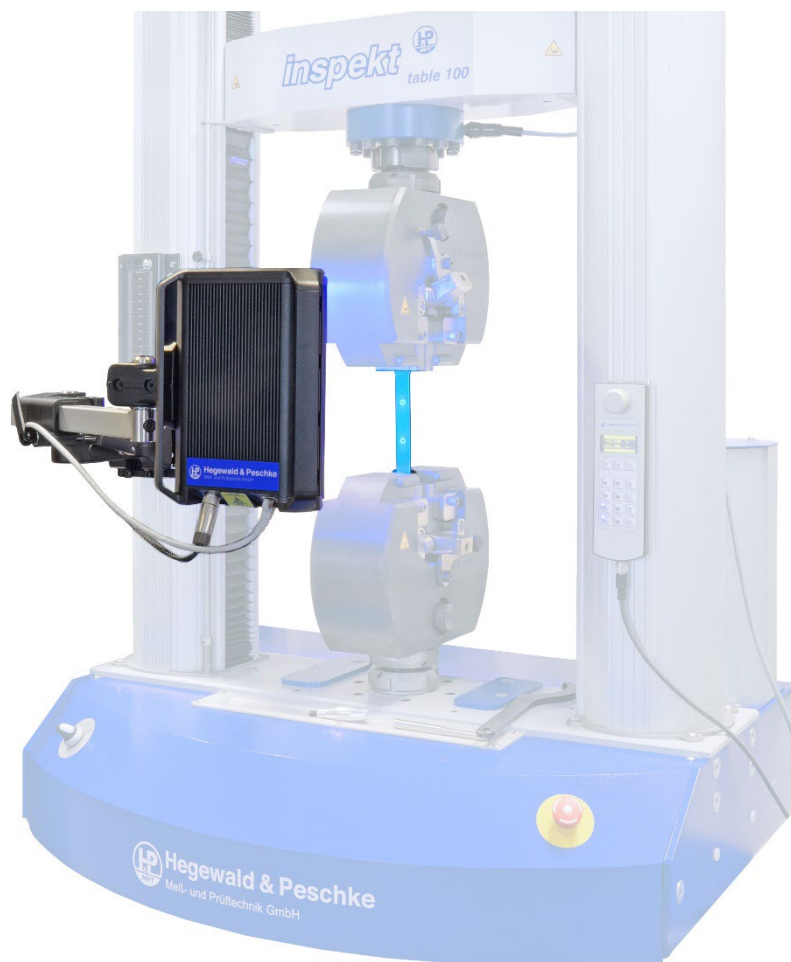
Hegewald & Peschke

Meß- und Prüftechnik GmbH

Product information

Optical extensometer DeltaL

for non-contact strain measurement in tensile, compression and bending tests



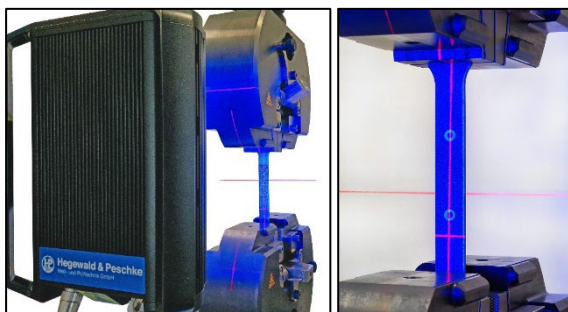
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Non-contact deformation measuring device for material testing based on high-resolution video technology using measuring marks applied to the specimen.

Advantages and features:

- Non-contact optical measuring device, also suitable for thin and sensitive specimens
- Easy to set up
- Laser alignment support

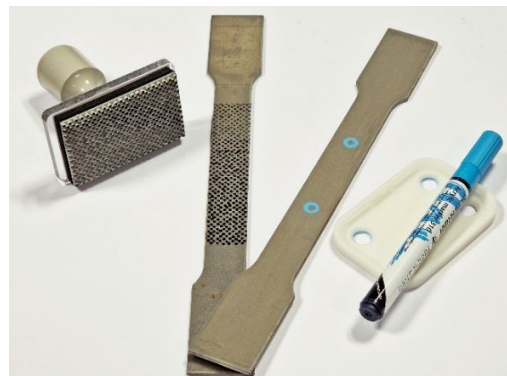


- Suitable for both strain measurement and strain control
- Strain value is transmitted via stable analog signal
- 0.5 µm resolution, class 0.5 according to ISO 9513 and ASTM E83 B-1 possible
- Enables the determination of elastic parameters such as the elastic straight line, equivalent yield point, yield strength and elongation at break in the specified field of view
- Can be used for strain measurement in temperature chambers/ furnaces
- Various models available for longitudinal or longitudinal and transverse strain measurement
- Simple operation directly via LabMaster testing software

- Stereoscopic camera arrangement with 2 cameras
 - reduces potential interferences
 - enables precise measurement of length changes, even with an inclination angle of the test plane of up to 6°



- Various options for convenient specimen marking using a stamp or template





Technical data:

Models	DeltaL 70	DeltaL 200	DeltaLW 80
Item number	15-012-700	15-012-710	15-012-720
Application	Determination of longitudinal strain		Determination of longitudinal and transverse strain
Field of view [HxWxD]	70 x 25 x 40 mm	200 x 40 x 100 mm	80 x 30 x 30 mm
Accuracy class	Class 1 according to EN ISO 9513, ASTM E83 class B-2 (optional class 0.5 or B-1) from a measuring length ≥ 10 mm	Class 1 according to EN ISO 9513, ASTM E83 class B-2 (optional class 0.5 or B-1) from a measuring length ≥ 25 mm	Class 1 according to EN ISO 9513, ASTM E83 class B-2 (optional class 0.5 or B-1) from a measuring length $\geq 7,5$ mm
Initial measuring length	10-50 mm variable	25-180 mm variable	Axial: 7.5-70 mm variable Transversal: 6-25 mm variable
Minimum specimen width/diameter	2 mm wide/flat or 2.5 mm diameter	5 mm wide/flat or 6 mm diameter	Axial: 1.5 mm wide/flat or 2 mm diameter Transversal: 10 mm wide/flat or 12.5 mm diameter
Out-of-plane sensitivity	300 mm \pm 20 mm	300 mm \pm 50 mm	300 mm \pm 15 mm
Working distance	300 mm		
Real-time data rate	≤ 150 Hz		
Resolution	< 0.5 μ m		
Maximum tracking speed	> 2500 mm/min		
Output signal	Scaled analog signal ± 10 V		
Weight	2.9 kg		
Dimensions	255 x 205 x 80 mm (HxWxD)		
Power supply	100-240 VAC, 50-60 Hz, 1.4 A 120 W max, IEC 320 C14 receptacle		
Power consumption	8 W (average)		
Ambient conditions	10-40°C (50-100°F), for use and storage; 20-80% relative humidity non-condensing environments		
Scope of delivery	Extensometer incl. power and data cable, data acquisition card iDCA for EDCi control (2 cards for DeltaLW 80), specimen marking set (pen, stamp)		
Required for operation	Free slot for iDCA data acquisition card in EDCi control unit or 2 free slots for DeltaLW 80		
Optional accessories	Machine-specific holder (<i>item no. 15-012-7xx</i>), Spare specimen marking set (pen, stamps)		