

TENSION METER

**** code 286_HILR ****

Economical mechanical tension meter for checking fibers, threads and fine wires with low tensions up to max. 300 cN. Universal measuring unit with large guide rollers groove \varnothing 12.5 mm. 6 Tension ranges from 3 - 30 cN to 20 - 300 cN. Tension Meter for a variety of applications in the textile and wire industries.



Special Features

- The analog display shows changing and fluctuating tensions fast and enables an optimal process adjustment.
- Filament guide and roller shifting mechanism ensure easy acquisition of the running material.
- Large, easy to read scale (54 mm \varnothing).
- Light weight.

Standard Features

- Everything in operator's view:
 - - the guide rollers.
 - - the measured material.
 - - the readings.
- Ball-bearing mounted, V-grooved guide rollers.
- Each instrument is individually calibrated for highest accuracy.
- Tension meter with high-strength plastic housing.
- Certificate of Compliance with the order 2.1 according EN 10204 is included.
- Optionally available: Inspection Certificate 3.1 according EN 10204 with calibration report.

Delivery includes



Tension meter with carrying case, operating instruction in german or english (as requested), Certificate of Compliance with the order 2.1 free of charge

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Available model

Mesdan code	Model	Tension Ranges cN	Measuring Head Width* mm	Calibration Material**
	30	3 - 30	63	PA: 0.12 mm Ø
286H	50	5 - 50	63	PA: 0.12 mm Ø
286I	100	10 - 100	63	PA: 0.12 mm Ø
	150	20 - 150	63	PA: 0.12 mm Ø
286L	200	20 - 200	63	PA: 0.12 mm Ø
286R	300	20 - 300	63	PA: 0.20 mm Ø

Other tension ranges available on request.

Other units of measure available, such as g.

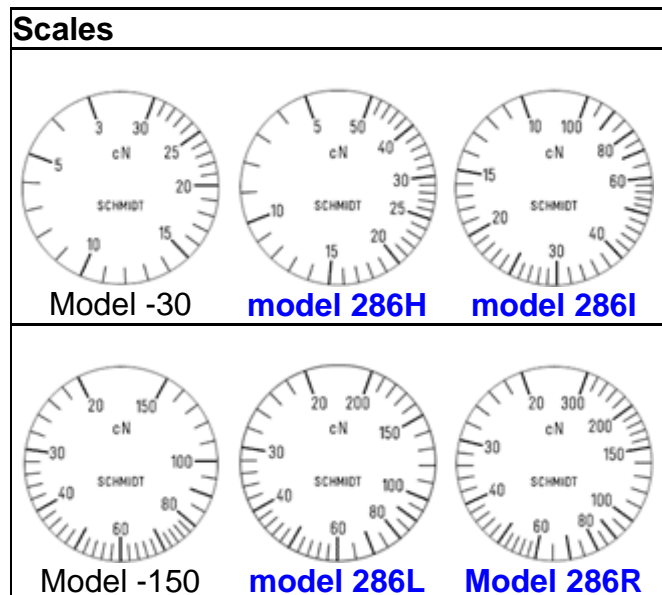
- Width of filament guide
- ** Suitable for 95 % of applications - PA = Polyamide Monofilament

Calibration to customized material:

If process material differs significantly from the calibration material in diameter, rigidity or shape, special calibration using customer supplied samples is recommended. For this purpose a material sample of about 5 m should be supplied.

Scales are manufactured according to the most stringent quality requirements. Printed scales are not used. Instead, each scale is individually marked for the instrument involved. This ensures highest quality. Our special procedure makes it possible to provide tension meters

- calibrated to custom supplied material
- fine tuned to a specific tension range
- other units of measure such as g



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Guide rollers

Order code	V max, m/min	Roller material
<u>Standard</u>	2000	Hardcoated aluminium (R10003)
<u>Code K</u>	3500	Hardcoated aluminium
<u>Code H</u>	5000	Plasma-coated aluminium (model ZD2-100 and higher)
<u>Code T</u>	1000	Plastic (POM) black
<u>Code W</u>	1000	Nickel-plated steel
<u>Code ST</u>	1000	Hardened steel
<u>Code CE1</u>	1000	Ceramic

Specifications

Calibration:	According to factory procedure
Accuracy:	± 1 % full scale or ± 1 graduation on scale
Scale diameter:	54 mm
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Housing material:	Plastic (POM)
Housing dimensions:	157 x 85 x 32 mm (LxWxH)
Weight, net (gross):	Approx. 220 g (620 g)
Specifications subject to change without notice!	

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