

## Product Information

### ProLine makroXtens HP

CTA: 42616 206301



ProLine makroXtens HP

#### Applications

The ProLine makroXtens HP is a high resolution extensometer for tensile tests on metals, plastics, hard foam materials, and materials with low to average specimen strain.

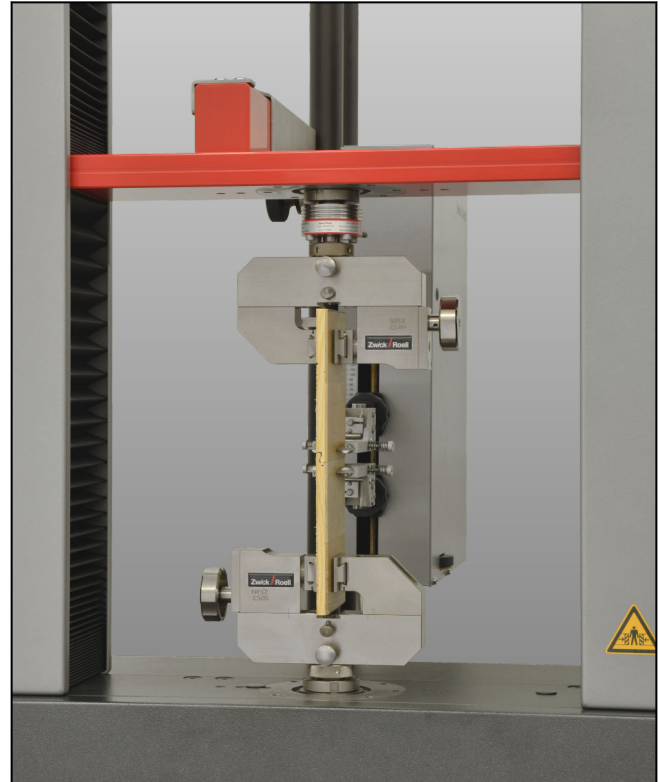
#### Function description

In contrast to the makroXtens II, the modular structure of the ProLine makroXtens HP is limited.

In its basic configuration, the ProLine makroXtens HP is already a complete measuring system. It includes sensor arms that are 300 mm long.

#### Advantages and features

- Deformation of the specimen is recorded in the elastic and plastic deformation range throughout the entire test until specimen break.
- Low drag force and the ability to adjust the contact force of the sensor arms as needed means you can test sensitive specimens reliably and with traceability.



ProLine makroXtens HP, detail view

- Very high resolution and measurement accuracy over the entire measurement range.
- Tiltable knife edges prevent damage to the sensor arms and knife edges at specimen break.
- The knife edge geometry can be adjusted easily and without tools by rotating the knife edges, allowing you to test flat as well as round specimens.
- Quick release fastener for sensor arms, enabling them to be replaced without the use of tools.
- The sensor arm clamping force can be adjusted steplessly.
- Centricity is automatically ensured by positioning in the test area.
- Accuracy class 0.5 to EN ISO 9513. Meets the requirements to ISO 527-1 for determination of the tensile modulus.

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#### Technical data

ProLine makroXtens HP extensometer for two-column ProLine testing machines

Type	ProLine makroXtens HP	
Item No.	1104893 <sup>1)</sup>	
Drag force	≤ 0.05	N
Specimen width, max.	60	mm
Specimen thickness/diameter	30	mm
Ambient temperature	+10 ... +35	°C
Dimensions (H x W x D)	360 x 125 x 340	mm
Accuracy to EN ISO 9513	Class 0.5	
<b>Sensor arm</b>		
Resolution	0.06	µm
Sensor arm length	300	mm
Sensor arm opening	70	mm
Measurement displacement	80	mm
Initial gauge length L <sub>0</sub>	10 ... 100 stepless	mm

<sup>1)</sup> Sensor arms with a sensor arm length of 300 mm are included in the scope of supply.

#### Accessories required

##### Required module

Description	ArticleNumber
Incremental measurement module	<b>046637</b>

#### Optional accessories

##### Drive unit

Description	ArticleNumber
Drive unit for motorized attachment and removal of sensor arms in conjunction with testControl II (operated via PC, eliminating need for remote control)	<b>087845</b>

#### Knife edges for the sensors

The scope of delivery includes steel knife edges, each with a flat and a convex blade (rotating).

Application	Type	Knife edges	Ambient temperature [°C]	Item No.
Soft metal wires, round specimens	Interchangeable knife edges with corundum coating	straight/straight	-70 ... +80	310876
Metal wires, clamping-sensitive plastics and wires	Interchangeable carbide knife edges	Straight/round, radius 0.5 mm	-70 ... +250	037646
Metals	Interchangeable carbide knife edges	Straight/round, sharp-edged	-70 ... +250	1051659

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Application	Type	Knife edges	Ambient temperature [°C]	Item No.
Clamping-sensitive specimens, elastomers, soft materials	Interchangeable knife edges with Vulkollan plate	Straight/straight	-15 ... +70	031216
Elastomers with high break energy	Interchangeable measuring insert with O-ring	Straight/straight	-30 ... +110	1009207

Scope of delivery: 1 set = 4 pieces