SCHMIDT control instruments

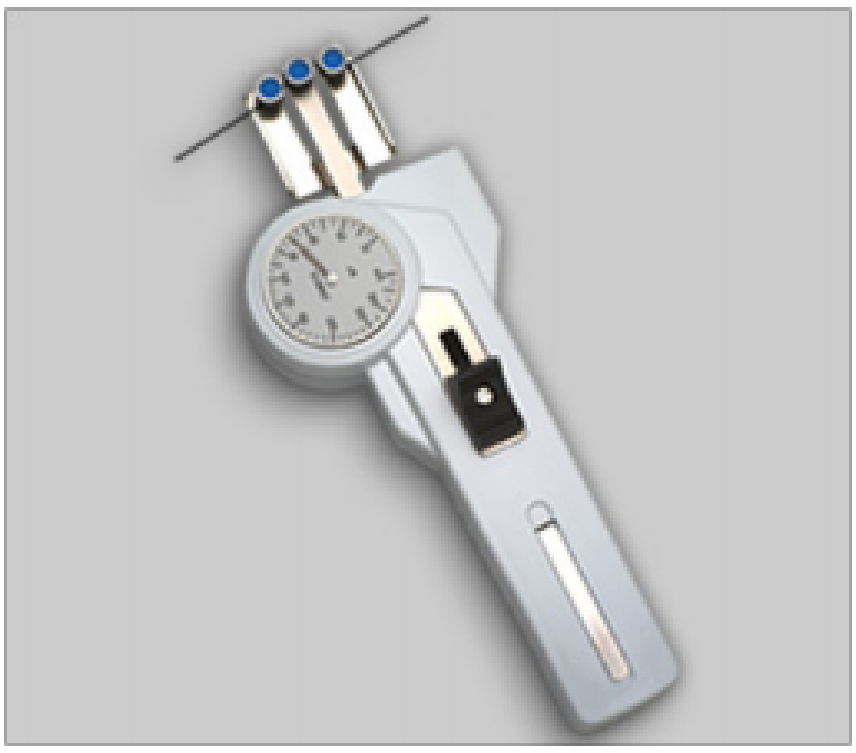
Tensiometre pentru fire, seria DXE.

Tension Meter DXE

6 Tension ranges from 10 - 50 cN to 200 - 2000 cN

Special mechanical tension meter with small measuring head, where access space is limited or where filaments run close together
Hand-held unit mostly used in textil industry or in wire industry for thin wires

Tension meter with turned-up outer finger edges for easy thread



Tension meter DXE-K
with guide rollers up to 2000 m/min

Special Features

- The analog display shows changing and fluctuating tensions fast and enables an optimal process adjustment
- Turned-up outer finger edges guide the running filament into the roller grooves

- Movable outer guide rollers
- Small, ball-bearing mounted, V-grooved guide rollers
- Built-in mounting holes permit fixed installation for continuous tension measurement
- Special finger support located on the rear side reduces the effort to move the outer roller assembly



Finger Support: We recommend mounting a finger support for higher tension ranges

Note: This model does not include a material thickness compensator

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Standard Features

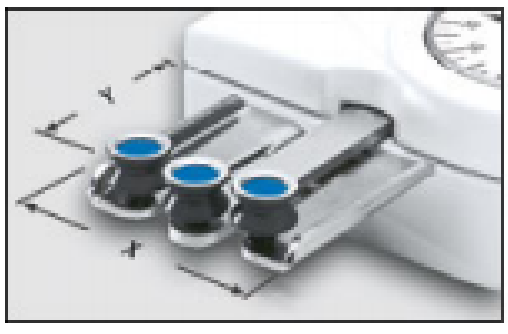
- Everything in operator's view:
  - the guide rollers
  - the measured material
  - the readings
- Each instrument is individually calibrated for highest accuracy
- 41 mm Ø scale
- Tension meter with rugged aluminium housing
- Certificate of Compliance with the order 2.1 according EN 10204 is included
- Optionally available: Inspection Certificate 3.1 according EN 10204 with calibration report

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Available Models

Model	Tension Ranges cN	Measuring Head Width X* approx. mm	Measuring Head Length Y approx. mm	SCHMIDT Calibration Material**
DXE-50	10 - 50	38	47	PA: 0.12 mm Ø
DXE-120	20 - 120	38	47	PA: 0.12 mm Ø
DXE-200	20 - 200	38	47	PA: 0.12 mm Ø
DXE-400	20 - 400	38	47	PA: 0.20 mm Ø
DXE-1000	50 - 1000	36	47	PA: 0.30 mm Ø
DXE-2000	200 - 2000	36	47	PA: 0.50 mm Ø

Other tension ranges available on request.
Other units of measure available, such as g.
* Width of bracket assembly
** Suitable for 95 % of applications - PA = Polyamide Monofilament



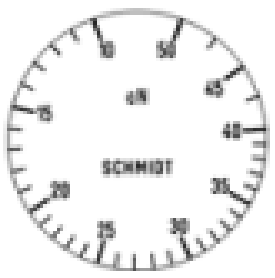


Dimension of the measuring head

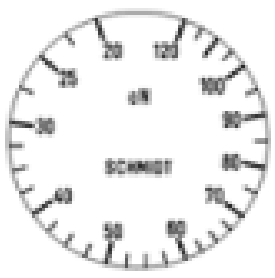
Calibration to customized material:
If process material differs significantly from the SCHMIDT calibration material in diameter, rigidity or shape, special calibration using customer supplied samples is recommended. For this purpose a material sample of about 5 m should be supplied.

Scales

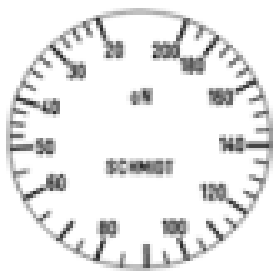
Click to get larger image



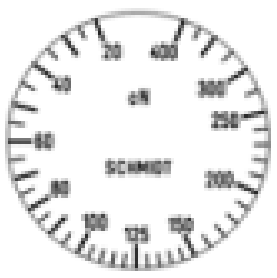
Model DXE - 50



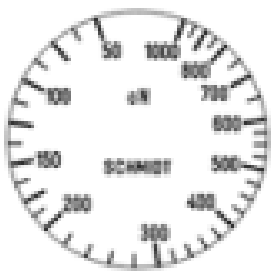
Model DXE - 120



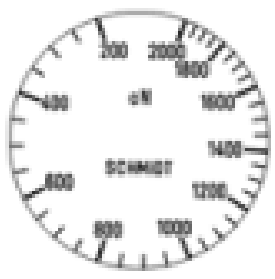
Model DXE - 200



Model DXE - 400



Model DXE - 1000



Model DXE - 2000

SCHMIDT 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

Guide Rollers

Order-Code	Line Speed v_{max} ...m/min	Roller Material
Standard	900	Hardcoated aluminium
Code K	2000	Hardcoated aluminium
Code T	450	Plastic (POM) black
Code W	450	Nickel-plated steel

Click the order-code, to get picture and drawing of the guide rollers

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Spare Rollers

Click picture to get an
overview for the guide rollers

Attachment

Code A



Air Damping
(for tension range 20 - 120 cN and higher)
for steady reading when tension fluctuates

Click picture for more information



Code M

Memory Pointer
(tension range 20 - 120 cN and higher)
Retains the highest measured value (PEAK). Available for mechanical tension meters

Ordering Example

To place an order	**Model with tension range**		**Code for guide rollers** (if not standard)		**Code attach-ment**		**Complete Order No.**
Please indicate the com-plete order number.:	DXE-400	+	K	+	A-M	=	DXE-400-K-A-M

Delivery Includes



Tension meter with carrying case, operating instruction in german or english (as requested), Certificate of Compliance with the order 2.1 according EN 10204 free of charge

Dimensions

For PDF-file please
click picture

Specifications

Calibration:	According to SCHMIDT factory procedure
Accuracy:	±1 % full scale or ±1 graduation on scale
Scale diameter:	41 mm
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Housing material:	Die-cast aluminium
Dimensions:	See dimensions above

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