SCHMIDT control instruments

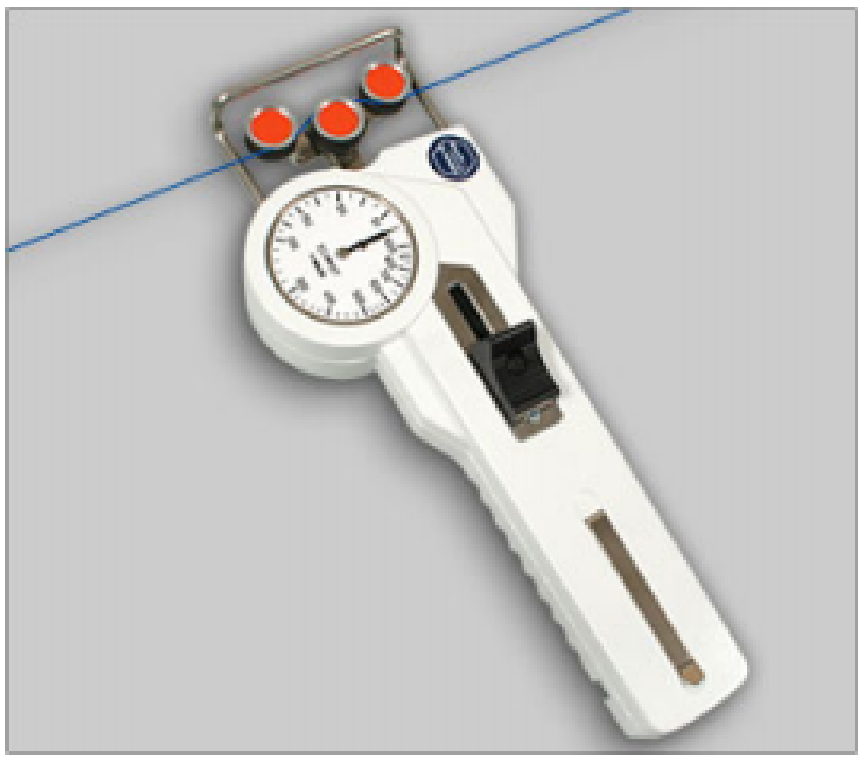
Tensiometre pentru fire, seria DX2.

Tension Meter DX2

10 Tension ranges from 10 - 50 cN to 5 - 20 daN

Universal mechanical tension meter for versatile applications in textile, fibre and wire industry. Versatile useable tension meter.
Application area in textile industry: e. g. 25 up to max. 20000 tex
Application area in wire industry: e. g. 0.05 up to max. 1.7 Ø mm copper wire

Best selling tension meter worldwide

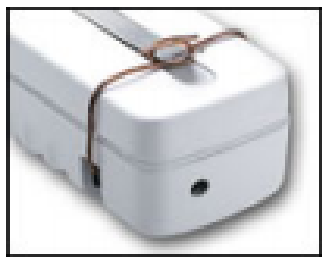


Tension meter DX2

Special Features

- The analog display shows changing and fluctuating tensions fast and enables an optimal process adjustment
- The built-in material thickness compensator compensates different material diameters for

a particular range (only DX2-1000 and higher ranges).



Material thickness compensator: For better accuracy the material to be measured or a similar material with the same diameter should be inserted.

- Filament guide and roller shifting mechanism ensure easy acquisition of the running material
- Hand-held unit with 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

- Custom-built configurations and special calibration are available

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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
- 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

SCHMIDT has the solution to any tension measuring problem! Please contact us to discuss your application requirements. Special designs are available.

To assist you in selecting the right tension meter for your specific application, please furnish:

- description of your application
- kind and dimensions of the material to be measured
- expected tension range
- line speed of the material to be measured
- material sample of about 5 m

Photo Gallery



Model DX2-20K-L with special lever Code L for easy use at high ranges, measuring head width 216 mm







Available Models

Model	Tension Ranges cN	Measuring Head Width* mm	SCHMIDT Calibration Material**	Material thickness compensator
DX2-50	10 - 50	66	PA: 0.12 mm Ø	no
DX2-120	20 - 120	66	PA: 0.12 mm Ø	no
DX2-200	20 - 200	66	PA: 0.12 mm Ø	no
DX2-400	20 - 400	66	PA: 0.20 mm Ø	no
DX2-1000	50 - 1000	66	PA: 0.30 mm Ø	yes
DX2-2000	200 - 2000	116	PA: 0.50 mm Ø	yes
DX2-5000	400 - 5000	116	PA: 0.80 mm Ø	yes
DX2-8000	1000 - 8000	116	PA: 1.00 mm Ø	yes
DX2-10K	2.5 - 10 daN	116	PA: 1.00 mm Ø	yes
DX2-20K-L	5 - 20 daN	216	PA: 1.50 mm Ø	yes

Other tension ranges and measuring head widths available on request.
Other units of measure available - g or kg.
* Depending on model, either width of filament guide or outer distance between outside guide rollers
** Suitable for 95 % of applications - PA = Polyamide Monofilament

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



Model DX2 - 50



Model DX2 - 120



Model DX2 - 200



Model DX2 - 400



Model DX2 - 1000



Model DX2 - 2000



Model DX2 - 5000



Model DX2 - 8000



Model DX2 - 10K



Model DX2 - 20K

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 or kg

Guide Rollers

Order-Code	Line Speed v_{max} ...m/min	Roller Material
Standard	2000	Hardcoated aluminium
Code K	3500	Hardcoated aluminium
Code H	5000	Plasma-coated aluminium (model DX2-120 and higher)
Code T	1000	Plastic (POM) black

Code W	1000	Nickel-plated steel
Code ST	1000	Hardened steel
Code B	1000	Tempered steel
Code CE2	1000	Aluminium ceramic-coated
Code ASY	1000	Hardcoated aluminium, asymmetrical groove Gauge without filament guide (model DX2-120 and higher)
Code ASYB	1000	Tempered steel, asymmetrical groove Gauge without filament guide (model DX2-120 and higher)
Code U	2000	Hardcoated aluminium (radius R3)

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

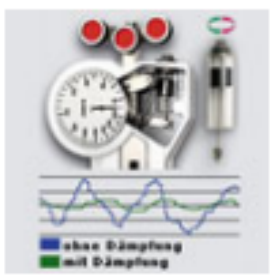
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Spare Rollers

Click picture to get an
overview for the guide rollers

Attachment

Code A



Air damping
(for tension range from 20 - 120 cN up to max. 400 - 5000 cN)
for steady reading when tension fluctuates

Click picture for more information

Code L



Special Lever
(Standard for tension range 5 - 20 daN and higher)

Click pictures 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

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