

69/90 Hatairat Rd., Minburi , Minburi Bangkok (Thailand) 10510







DT SERIES

12 Tension ranges from 1-200 cN to 0.6-60 daN

Special features Models DTMB and DTMX:

- Large, backlight LCD-display with 3 different displays:
 - numeric.
 - numeric with live load bar,
 - numeric with graph (time-tension)
- The display rotates in 90° steps for better reading (see page C9)
- New, unique, force reduced material catching system
- Thickness compensator to reach highest accuracy: the diameter of the material to be measured can be set with a wheel and will be displayed in the screen (not available for all models)
- + Automatic "Zero-Setting" in each measuring position using a special sensor technique
- High speed data sampling (internal 8 kHz) and recording of MIN-, MAX-, LAST-reading, PEAKS, AVG and standard deviation
- Programmable MIN- and MAXalarms - indication in the display, if reading is out of limits
- Material memory locations for customer made calibrations:
 4 model DTS and 9 model DTX
- + Cal. adjustment for fine tuning of the calibration, if material differs from the used calibration material
- + Flexible menu set-up to meet operators demand
- Menu set-up in english or german language
- + Selectable units of measurement: cN, daN, g, kg, N, lb
- + Rubberized handle provides a secure hold in the operators' hand

Standard features Models DTS and DTX:

- Everything in operator's view:
 - the guide rollers
 - the measured material
 - the readings
- Filament guide and roller shifting mechanism ensure easy acquisition of the running material
- Ball-bearing mounted, V-grooved guide rollers
- Rugged aluminium housing
- LiPo Accu (approx. 40 h continuous use) with AC adapter
- CE approved (tested for electromagnetic compatibility)
- Inspection Certificate with calibration report optionally available

Electronic tension meters providing detailed process data and analysis. Two models available: DTS (basic unit) and DTX (with memory and output)

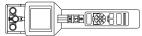




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Model [OTS					ir0
			lead ial**.	*KN	.1	er Will
Available Model	s Tension Ranges cN	mm Width* mm	Head SCHMIDT Material* SCHMIDT Material* SCHMIDT Material* SCHMIDT MATERIAL SCHMIDT MATERIAL SCHMIDT MATERIAL SCHMIDT MATERIAL Calibration (PA) Monoral Polyamid (PA) Monoral Polyamid (PA)	Textile Industry Textile Industry Applications Applications e.g. yarn count	Wire Industry Wire Industry Applications Applications Applications Applications	Material Material thicknessator compensator included included
DTS-200	1-200.0	66	0.12 mm Ø	max. 200 tex	max. 0.15 mm Ø	
DTS-500	1-500.0	66	0.12+0.20 mm Ø	max. 500 tex	0.05-0.25mm Ø	~
DTS-1000	10-1000	66	0.20 + 0.40 mm Ø	max. 1000 tex	0.10-0.40 mm Ø	~
DTS-2000	20-2000	66	0.40+0.70 mm Ø	max. 2000 tex	0.30-0.60 mm Ø	~
DTS-2500	25-2500	116	0.40+0.70 mm Ø	max. 2500 tex	0.30-0.70 mm Ø	~
DTS-4000	40-4000	66	0.50 + 0.90 mm Ø	max. 4000 tex	0.35-0.90 mm Ø	~
DTS-5000	50-5000	116	0.60 + 1.20 mm Ø	max. 5000 tex	0.40 - 1.00 mm Ø	~
DTS-10K	0.1 - 10.00 daN	116	0.80 + 1.40 mm Ø	max. 10000 tex	0.70-1.40 mm Ø	~
DTS-20K	0.2-20.00 daN	166	1.20 + 1.80 mm Ø	max. 20000 tex	1.00 - 1.80 mm Ø	~
DTS-30K	0.3-30.00 daN	216	1.40+2.20 mm Ø	max. 30000 tex	1.20-2.00 mm Ø	~
DTS-50K	0.5-50.00 daN	216	Steelrope1.5 mm Ø	max. 50000 tex	1.40-2.20 mm Ø	
			(7x7x0.2)			
DTS-60K-V1	0.6-60.00 daN	280	Steelrope 2.0 mm Ø	max. 60000 tex	1.80-3.00 mm Ø	
Other measuring he	1 10		(7x7x0.3)	5.51	autan diatanaa hatusan a	

Other measuring head widths available on request.

- Depending on model, either width of filament guide or outer distance between outside guide rollers
- ** Suitable for 95 % of applications (see also chart on page 11)

Guide Rollers		→ see page E →
Model DTS	60	eed min arial
Wiodol B 10	Line St	.mi. Mate.
V-grooved	Line SP	eed minin Material Roller Material
Standard	2000	Hard-coated aluminium
CodeK	3500	Hard-coated aluminium
CodeH	5000	Plasma-coated aluminium
CodeT	1000	Plastic (POM) black
CodeW	1000	Nickel-plated steel
CodeST	1000	Hardened steel
CodeB	1000	Tempered steel for tire cord
Code CE2	1000	Aluminium ceramic-coated
Code V1	1000	Hard-coated aluminium
		(only for tension range 60 daN)
asymmetrical		
groove		(not for tension range 200 cN)
CodeASY	1000	Hard-coated aluminum
CodeASYB	1000	Tempered steel for tire cord
		 Gauge is without filament guide –
U-grooved		
CodeU	2000	Hard-coated aluminium
		(not for tension range 200 cN)

Optional Accessories	Model DTS

CodeMH Mounting thread for online use

Special calibration using customer supplied samples is available: Please supply a sample of at least 5 m in length.

Specifications	DTS
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Calibration:	According to SCHMIDT factory procedure		
Accuracy:	5% to 100% of range:		
	±0.5% FS* and ±1 digit or better		
Remaining range and			
other calibration material:	±3% FS* and ±1 digit or better		
Memory for material	1 for SCHMIDT calibration plus		
curves:	4 for customized calibrations		
Measuring units:	Force: cN, daN, g, kg, N or lb		
	Thickness: mm or inch		
Overrange:	Approx. 10 % FS*, without		
	accuracy guarantee		
Overload protection:	100 % FS*		
Measuring principle:	Strain gauge bridge		
Measuring roller deflection:	0.2 mm max.		
Signal processing:	Digital, 16 bit A/D converter		
Measuring frequency:	Max. 1 kHz (1000 measurings/sec.)		
Display:	Graphic LCD		
3 different displays:	Numeric,		
	Numeric + bargraph,		
	Numeric + X-Y-diagram (time tension)		
Display update rate:	2 times per second		
Memory:	MIN, MAX, PEAKS, AVG, STD and LAST		
Thickness compensation:			
Temperature range:	10-45°C		
Air humidity:	85 % RH, max.		
Power supply:	LiPo accumulator		
	(about 40 hours of continuous use)		
Housing material:	Die-cast aluminium		
Housing dimensions:	265 x 78.5 x 46 mm (LxWxH)		
Weight, net (gross):	Up to Model-50 K 875 g (1550 g)		
	DTS-60 K-V1 1040 g (2700 g)		

^{*} FS = Full Scale