

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





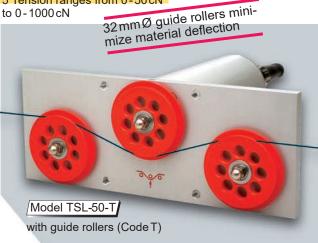
Stationary, electronic



Special tension sensors feature large rollers to minimize bending of materials like fiber optics, single carbon fibers and technical fibers etc.

Model TSL

5 Tension ranges from 0-50 cN



Special features:

- + Gentle handling of sensitive material during measurement
- + Extremly light weight, low inertia guide rollers
- + Best suitable for low tension ranges
- Apart from that the instrument relates to model TS1

Available Models	Tension Ran	ges Measuri Head W	idth*
MODEL	Tensi	Head	nath* SCHMIDT Material Scalibration Material
TSL-50	0-50	150	PA: 0.12 mm Ø
TSL-100	0-100	150	PA: 0.12 mm Ø
TSL-200	0-200	150	PA: 0.12 mm Ø
TSL-500	0-500	150	PA: 0.20 mm Ø
TSL-1000	0-1000	150	PA: 0.30 mm Ø

Other tension ranges and measuring head widths available on request. Other units of measure available, such as g.

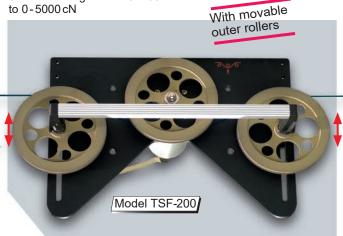
* Outside dimensions of front plate

- Suitable for 95% of applications (see also chart on page 11) PA = Polyamide Monofilament

Guide Rollers	Line Speed Material → see page E → Vmax Roller Naterial
V-grooved	umax. Roller
Standard	4000 Hard-coated aluminum
CodeT	4000 Plastic (PVC) red
	(same dimensions as standard roller)

Model TSF

6 Tension ranges from 0 - 100 cN



Special features:

- + Large bending radius for gentle handling of sensitive material
- + Ball-bearing mounted, V-Grooved guide rollers with 70 mm Ø
- + The outer rollers can be moved downwards to minimize contact in case of non-measurements
- Apart from that the instrument relates to model TS1

Available Models Tension Ranges Width* Mead Width Head SCHMIDT Material** Head SCHMIDT Material**					
MODEL	Tens cN	WW	SCIT ration		
TSF-100	0-100	270	PA: 0.12mm Ø		
TSF-200	0-200	270	PA: 0.12mm Ø		
TSF-500	0-500	270	PA: 0.20 mm Ø		
TSF-1000	0-1000	270	PA: 0.30 mm Ø		
TSF-2000	0-2000	270	PA: 0.50 mm Ø		
TSF-5000	0-5000	270	PA: 0.80 mm Ø		

Other tension ranges available on request. Other units of measure available, such as of

Outer distance between outside guide rollers

Suitable for 95 % of applications (see also chart on page 11) PA = Polyamide Monofilament

Guide Rollers	Line Speed min Material	→ see page E →
V-grooved	vmax. Roller	
Standard	5000 Hard-coated alur	minum

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

Power Supply Specifications Models TSL and TSF same as Model TS1 (see page D2 and D14) Output Signal



