



## A selection of Yarn Tension Meters to meet your requirements

**DT Series Tension Meter: A popular electronic tension meter for many applications.**

Two models available, the DTS is the basic unit for many applications, the DTX provides detailed process data and analysis with interface for PC connection.

The DT Series Yarn Tension Meter has many features including thickness compensator to reach highest accuracy, the diameter of the material to be measured can be set with a wheel and be displayed in the screen. The filament guide and roller shifting mechanism ensures easy acquisition of the running material.

The Yarn Tension Meter allows user to

take high speed data samples, with a flexible menu set-up to meet operators demands.

### Additional Features for DTX

The DTX series has a memory for 60,000 readings and a USB interface. Four different memory modes can be set, with nine material memory locations for custom calibrations. The meter also includes a WiFi module for wireless communication with a PC.

Special purpose versions are available with rollers for tapes and ribbons, or large rollers for fragile filaments and technical fibres.

**Dimensions:** 265 x 78.5 x 46mm

**Weight:** 875g

**Accuracy:**  $\pm 0.5\%$  FS and  $\pm 1$  digit or better

**Power supply:** LiPo accumulator (about 40hrs)

**Temperature Range:** 10–45°

### Key Features

- ✓ *Large, backlight LCD-display: numeric, numeric with live load bar, numeric with graph (time-tension)*
- ✓ *The display rotates in 90° steps for better reading*
- ✓ *New, unique, force reduced material catching system*
- ✓ *Selectable units of measurement: cN, daN, g, kg, N, lb*

**Please find  
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## A selection of Yarn Tension Meters to meet your requirements

**ET Series Tension Meter: Electronic Tension Meters for hard to reach and limited access space applications.**

Two models available, the ETB is the basic unit for many applications, the ETX provides detailed process data and analysis with interface for PC connection. The meter has storage of AVG, MIN, MAX and PEAK tension values which can be recalled in the display. Adjustable electronic damping can be used for better reading when tension is constantly changing. The meter has a display update time of 0.5 seconds and is CE approved (tested for electromagnetic compatibility). Display can be reversed for right hand or left hand use.

**Dimensions:** 197 x 58 x 47mm

**Weight:** 340g

**Accuracy:**  $\pm 0.5\%$  FS and  $\pm 1$  digit

**Power supply:** LiPo accumulator (about 60hrs)

**Temperature Range:** 10–45°

### Additional Features for ETX

The ETX series has USB interfaces for connection to a PC and a memory of max. 4000 tension values split up to 255 series of measurements and statistics (LAST, AVG, MIN, MAX, PEAK-MIN and PEAK-MAX). The meter can be set to four different memory modes.

Special purpose tension meters are also available with ceramic pins for line speeds up to v<sub>max</sub>. 6000 m/min.

### Key Features

- ✓ *Ball-bearing mounted, V-grooved guide rollers for line speeds up to v<sub>max</sub> 2000 m/min*
- ✓ *Automatic >zero setting< independent to measuring position*
- ✓ *The display can be background lightened for better reading if necessary*
- ✓ *Changeable units cN and g*

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## A selection of Yarn Tension Meters to meet your requirements

ET Series Tension Meter: Electronic Tension Meters for hard to reach and limited access space applications.

Model	Range (cN)	Head Width (mm)
YTM:ETB-100	0.5 - 100.0	24
YTM:ETB-200	2 - 200	24
YTM:ETB-500	2 - 500	24
YTM:ETB-1000	3 - 1000	38
YTM:ETB-2000	3 - 2000	38
YTM:ETX-100	0.5 - 100.0	24
YTM:ETX-200	2 - 200	24
YTM:ETX-500	2 - 500	24
YTM:ETX-1000	3 - 1000	38
YTM:ETX-2000	3 - 2000	38



## A selection of Yarn Tension Meters to meet your requirements

**ZE Series Tension Meter: An economical low tension measuring instrument for checking fibres, yarns and fine wires.**

This light weight device is available in two models, the ZED has bigger rollers for universal use and the ZEF has a slim filament guide with small guide rollers, ideal for limited access space. The filament guide and roller shifting mechanism ensures easy acquisition of the running material. The tension meter is CE proofed, with interference resistance from static charge.

**Dimensions:** 157 x 85 x 32mm

**Weight:** 200g

**Accuracy:**  $\pm 1\%$  FS and  $\pm 1$  digit, typical  $\pm 0.5\%$  FS

**Power supply:** LiPo accumulator (about 80hrs)

**Temperature Range:** 10–45°

Adjustable electronic damping also provides steady tension readings.

The ZEF series has easy running plastic rollers to measure Spandex (Lycra) filaments.

The housing is made of high strength plastic. Inspection certificate with calibration report optionally available.

### Key Features

- ✓ *Everything in operator's view: the guide rollers, the measured material, the readings*
- ✓ *Ball-bearing mounted, V-grooved guide rollers*
- ✓ *Automatic >zero setting< independent to measuring position*
- ✓ *Simple handling*
- ✓ *Easy to read LCD display*

**Please find  
Order Codes below**



## A selection of Yarn Tension Meters to meet your requirements

ZE Series Tension Meter: Two models available ZED (standard rollers) and ZEF (slim filament guide with small guide rollers – ideal for limited access space)

Model	Range (cN)	Head Width (mm)
YTM:ZED-200	1 - 200	63
YTM:ZED-500	1 - 500	63
YTM:ZEF-50	0.5 - 50.0	43
YTM:ZEF-100	0.5 - 100.0	43
YTM:ZEF-200	1 - 200	43



## A selection of Yarn Tension Meters to meet your requirements

**Z Series Tension Meter: An economical low tension measuring instrument for checking fibres, yarns and fine wires.**

This light weight device is available in two models. The ZD2 has bigger rollers for universal use and the ZF2 has a slim filament guide with small guide rollers, ideal for limited access space. The Z Series Tension Meter is popular in the textile industry, with an analog display for low tensions.

The tension meter shows changing and fluctuating tensions fast and enables an optimal process adjustment.

The housing is made of high-strength plastic. Inspection certificate with calibration report optionally available.

Conforms to DIN EN 10204.

### Key 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*
- ✓ *Large, easy to read scale (54 mm Ø)*

**Dimensions:** 157 x 85 x 32mm

**Weight:** 200g

**Accuracy:**  $\pm 1\%$  FS pr  $\pm 1$  graduation on scale

**Temperature Range:** 10–45°

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## A selection of Yarn Tension Meters to meet your requirements

Z Series Tension Meter: An economical low tension measuring instrument for checking fibres, yarns and fine wires.

Model	Range (cN)	Head Width (mm)
YTM:ZD2-30	3 - 30	63
YTM:ZD2-50	5 - 50	63
YTM:ZD2-100	10 - 100	63
YTM:ZD2-150	20 - 150	63
YTM:ZD2-200	20 - 200	63
YTM:ZD2-300	20 - 300	63
YTM:ZF2-5	1 - 5	43
YTM:ZF2-10	1 - 10	43
YTM:ZF2-12	1 - 12	43
YTM:ZF2-20	2 - 20	43
YTM:ZF2-30	3 - 30	43
YTM:ZF2-50	5 - 50	43
YTM:ZF2-100	10 - 100	43