### **AUTOMATIC STRENGTH TESTER - 24 POSITIONS**

# **AUTOFIL**



Fully automatic 24-position yarn strength tester. It can test hanks and fabrics as well in the semi-automatic mode.

Suitable for testing a wide variety of yarns: spun, continuous filaments, POY, spandex, sewing threads, etc.

Vast assortment of various clamps, jaws and other testing tools.

Special automatic clamps for high tenacity yarns (like sewing threads, industrial and carpet yarns) available. Integrated and interactive pre-loaded database of testing methods.

Fast, versatile, accurate, robust, reliable, compact, silent.

Standard compliance, conforms to major testing methods (ISO, ASTM, JIS, BS, IWS, NEXT, M&S, etc.).

### Complete with:

- $\cdot$  built-in 24-position bobbin changer
- · one pair of pneumatic clamps with rubber jaws for regular yarns
- · one pair of spare metal flat jaws
- · built-in industrial PC (monitor, keyboard and ink-jet printer available on demand)

Made in Italy and designed to meet the highest testing standards.



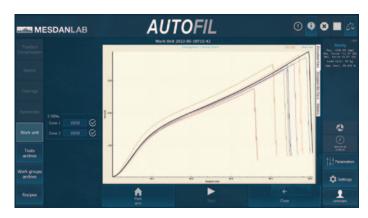


## AUTOFIL CODE 2518

### Main Features:

- · Built according to the CRE (Constant Rate of Extension) testing principle
- · Belt free, direct-drive ball bearing screw
- · Automatic pretension and automatic load cell and clamp recognition
- · Top quality load cells (manufactured by HBM Germany), accuracy class ± 0.02%
- · Integrated sensor into the motor ensuring accurate clamp positioning (less than 0,02 mm)
- Possibility to perform tests at extremely low and high speed
- · Automatic reset of force values when load cell/clamps are changed
- · High resolution of acquired data
- · High return speed (15000 mm/min)
- · Quick load cell exchange
- · Advanced alarm system to prevent accidents; safety clamp
- · Modern software, flexible and easy to use, including a series of pre-set standard testing routines. New testing routines can be created by the enduser; no special skills are needed

Mesdan tensile strength tester series is officially approved by Marks & Spencer



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Nominal capacity	Effective capacity	Load Accuracy	Resolution	Code
20 N	10 N	0.4 cN	0.0002 cN	2518.580
100 N	60 N	2 cN	0.001 cN	2518.581
500 N	340 N	10 cN	0.005 cN	2518.583
1000 N	690 N	20 cN	0.01 cN	2518.584
5000 N	3490 N*	100 cN	0.05 cN	2518.585

<sup>\*</sup>Max load capacity: limited to 1500 N

#### TECHNICAL CHARACTERISTICS

Automatic strength tester, CRE testing principle			
Max Load Capacity	1500 N		
Speed range	0.001 to 15000 mm/min		
Crosshead travel	900 mm		
Position resolution	0.0001 mm		
Force measure accuracy	± 0.03%		
Force maximum resolution (load cell of 20 N)	0.0002 cN		
Force minimum resolution (load cell of 5000 N)	0.05 cN		
Operating temperature	from 0°C to +50°C		
Frame stiffness	1500 N/mm		
Operating humidity	+10 to +90% non-condensing		
Machine Configuration	Floor standing machine		
Average single yarn cycle time	5 sec. approx.		

Speed accuracy:	± 0.01% under stable conditions
Crosshead guidance	double linear slide with four skates integrated within the column
Available load cells (Value referred to the effective capacity)	10 N, 60 N, 340 N, 690 N, 3490 N (Max load capacity: 1500 N)
HBM 6 wire load cell system with high sensitivity (2mV/V)	accuracy class ± 0,02% (5000 division)
Max speed at full load	5000 mm/min
Max returning speed	15000 mm/min
Clamps	pneumatic clamps for yarns and fabrics; mechanical clamps for hanks
Protection against force overload	

Full machine management via dedicated controller

User-friendly interface for Windows OS

Safety cover

Monitor

Printer

UPS

### OPTIONAL ACCESSORIES

Wide range of interchangeable load cells (see above table)

\*Jaws must be always added; not included in the fabric clamps assembly

Vast range of interchangeable pneumatic and mechanical clamps (for hanks / LEA, fabrics) and jaws\* for fabrics (rubber or metal flat), for seam slippage/Grab (various

dimensions), Contact Line for stretch/recovery, etc.		
Automatic clamps for high tenacity yarns, up to about 300N	Code	2518.240
Special kit for testing spandex (on demand)		
Foot switch	Code	2512E.618
Trolley Creel, 24 positions (highly recommended)	Code	2518.201
Laboratory Table 80x60 cm	Code	2518.190
Silent compressor	Code	3390
ISO 9001 Calibration Report	Code	2510.CC1

DIMENICIONIC	/ DOWER	CHERTY

OPTIONAL ACCESSORIES

Keyboard with Mouse

Dimensions: ( $\check{L}$ ) 800 x (W) 680 x (H) 1520 mm Power supply: 230 Vac, 50/60 Hz, single-phase, 1kW

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding







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