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, etc.

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

- · built-in 24-position bobbin changer
- · one pair of pneumatic yarn clamps with rubber jaws
- · one pair of spare metal flat jaws
- · Built-in 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
- \cdot Top quality load cells (manufactured by HBM Germany), accuracy class \pm 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
- $\cdot\,$ 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 movement
- 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
- Hysteresis

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

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.			

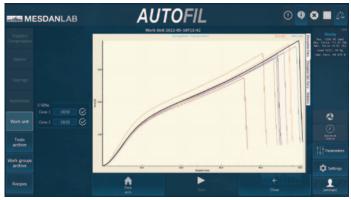
OPTIONAL ACCESSORIES

Wide range of interchangeable load cells (see above table)

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.

Special kit for testing spandex (on demand)	
Foot switch	Code2512E.61
Trolley Creel, 24 positions (highly recommended)	Code 2518.20
Laboratory Table 80x60 cm	Code 2518.19
Silent compressor	Code 339
ISO 9001 Calibration Report	Code 2510.CC

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



	LOAD CELLS						
	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		
*Max last and she line it at the 1500 N							

*Max load capacity: limited to 1500 N

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 15000 mm/min				
Max returning speed					
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					
Safaty aguar					

Safety cover

OPTIONAL ACCESSORIES

Monitor	Code	250.300
Keyboard with Mouse	Code	250.350
Printer	Code	250.4
UPS	Code	2341.900

DIMENSIONS / POWER SUPPLY

Weight: 180 kg Dimensions: (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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