AUTOMATIC STRENGTH TESTER - 1 POSITION

AUTODYN 3

AUTODYN 3 is an upgrade of the latest generation of the well-known Tenso-Lab semi-automatic tensile testers. The new model is distinguished by:

AUTODYN 3

- Automatic yarn testing mechanism enabling to perform automatically yarn testing of one bobbin/package, unique feature of the AUTODYN 3 version. This model is replacing Autodyn II (code 2513 and 2514).
- **New hardware:** widening of yarn speed testing range, from very low speed to high speed testing, high accuracy and robustness (can be used to test fibres, single yarns, hanks/LEA, fabrics and garment accessories), direct-drive ball bearing screw.
- **New components:** newly designed clamps with improved performances, additional load cells with higher accuracy level, quick exchange of load cells and clamps/jaws.
- New open software: more intuitive and easy to operate, SQL database and standard Ethernet machine connection to data export, no restriction on testing routines (can be created by the enduser, no special skills needed).
- Standard compliance, conforms to major testing methods (ISO, ASTM, JIS, BS, IWS, NEXT, M&S, etc.).
- · Complete with:
- one pair of pneumatic yarn clamps with interchangeable rubber and metal flat jaws
- · bobbin holder and built-in yarn loading arm
- · built-in PC (monitor, keyboard and ink-jet printer available on demand)
- Made in Italy and designed to meet the highest testing standards.





AUTODYN 3 CODE 2517

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 speed
- · Automatic reset of force values when load cell/clamps are changed
- High resolution of acquired data
- High return speed (7000 mm/min)
- · Quick load cell exchange (only 10 sec. compared to 2 min. of previous models)
- · 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

Single column tensile strength tester, CRE testing principle

,
3000 N
0.001 to 7000 mm/min
900 mm
0.0001 mm
± 0.03%
0.0001 cN
0.05 cN
from 0°C to +50°C
4000 N/mm
+10 to +90% non-condensing
Table top, base cabinet available
$\pm 0.01\%$ under stable conditions
double linear slide with four skates integrated within the column

OPTIONAL ACCESSORIES

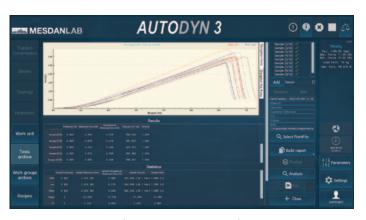
Wide range of interchangeable load cells (see above table)

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, for single fibre (pneumatic clamps and pretensioning clips), for fibre bundle ("Pressley" clamps, with holder and torque vice), etc. Foot switch (necessary for fabric pneumatic clamps) Code 2512E.618

Sherit compressor	Code	3390
ISO 9001 Calibration Report available on demand	Code	2510.CC1
ISO 17025 Calibration Certificate (Accredia - ILAC) available on demand		

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





Load cell capacity	Load cell accuracy	Resolution
10 N	0,2 cN	0.0001 cN
20 N	0,4 cN	0.0002 cN
100 N	2 cN	0.001 cN
500 N	10 cN	0.005 cN
1000 N	20 cN	0.01 cN
5000 N*	100 cN	0.05 cN

*Max load capacity: limited to 3000 N

Available load cells (Value referred to the effective capacity)	10 N, 20 N, 100 N, 500 N, 1000 N, 5000 N (max load capacity limited to 3000N)			
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	7000 mm/min			
Protection against force overload				
Full machine management via dedicated controller				
User-friendly interface for Windows OS				
Electric movement of the yarn loading arm				
Pneumatic movement of the yarn nipper				
Pneumatic yarn suction				
Transparent safety cover				
Available software languages	Italian, English, Spanish, Chinese			
Calibration and verification of the force measuring system according to				

ISO 7500-1. Meets 0,5 accuracy class of ISO 7500-1.

OPTIONAL ACCESSORIES		
Monitor	Code	250.300
Keyboard & mouse	Code	250.350
Printer	Code	250.4
UPS	Code	2341.900

DIMENSIONS / POWER SUPPLY

Weight: 82 kg Dimensions: (L) 370 x (W) 480 x (H) 1415 mm Power supply: 115-240 Vac, 50/60 Hz, single-phase, 1000 VA, 0.7 kW

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

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