

DYNO UNIVERSAL

TENSILE, ELONGATION AND COMPRESSION / 50 N - 5 KN

DYNO model is conceived with electromechanical system; the Plus of that philosophy is to enable our customers to perform their Tests with maximum accuracy and the lowest power consumption. Thanks to our in-house EASYQS Software (based on Windows 10) developed by our R&D Dept. over the last 20 years, our customers can fully work in 4.0 Industry method, thanks to the possibility to interface DYNO Machine with all Customer Management Software. According to each different application, we can supply Video, Automatic or Manual Extensometers aimed to perform elongation test with the maximum accuracy, subject to the specific Standards. Several different applications can be made and all possible special tools can be realized according to our customer's needs.



TOOLS



STANDARDS & APPLICATIONS

Rubber and Plastic

Tensile Properties of plastics: ASTM D638, ISO 527-1, ISO 527-2

Tensile Test on Thermoplastic Pipes: ISO 6259

Tensile Test on Strips and Plastic Films: ASTM D 882, ISO 527-3

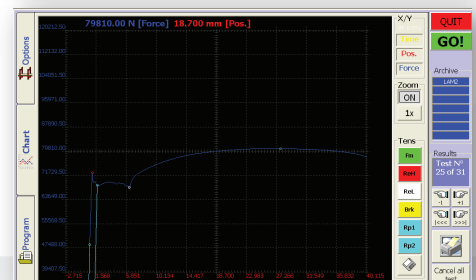
Tensile Test on Fiber-Reinforced Plastic Composites: ISO 527-4, ISO527-5, ASTM D3039, EN2561

Peel Adhesion Test 90°: ASTM B571, EN 28510, ISO8510-1, ASTM D3330, ASTM D6862, ATM D6252

Textile

Tensile Test of Texture Strips: ISO 13934-1, ISO 13937-2, ISO 1421

Miscellaneous: NI EN ISO 5079, UNI EN 13895, UNI EN 12751, ISO 3060, BS 3411, BS 4029, BS 5116, ASTM D1294, ASTM D1445, ASTM D2524, ASTM D3106, ASTM D3217, DIN 53843-2.



Easy to use software

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DYNO UNIVERSAL	50 N - 5 kN
Force kN	up to 5
Number of guide columns	2
Number of ball screw	1
Height (cm)	113
Width (cm)	68
Depth (cm)	54
Weight (kg)	120
Vertical Test space (without Grips) (mm)	500
Plate diameter (mm)	100-150Ø
Testing speed Range min max (mm/min)	0,005 - 484
Position control resolution	± 1 µm
Frame axiale stiffness (kN/mm)	15
Force measurement accuracy Precision class	Class 0.5 from 2% of load cell capacity / Class 1 from 1 % of load cell capacity as EN ISO 7500-1
Displacement measurement accuracy	± 5 µm
Testing speed accuracy	(+/-) 0,1%
Calculated resolution (for example in tensile / compression direction)	24 bits
Data acquisition rate, internal	10 kHz
Data Acquisition Rate at the PC	1 kHz
Controller /Cycle Time	1 kHz
Power supply	Single Phase Voltage: 230 VAC +/- 10%; 50 - 60 Hz
Operating Temperature	(+10 to + 38 °C)
Storage Temperature	(-40 + 66 °C)
Humidity Range	(+10 + 90 %)
Interface for PC	Ethernet
Drive System	AC Servo motor Brushless
Noise level at maximum test speed (dBA)	<75

35 YEARS OF SPRING TESTING SOLUTIONS



EASYDUR SRL

Via Maja 5 - 21051 Arcisate (VA) - Italy - Tel. +39 0332 203626 - Fax +39 0332 206710

info@easydur.com - www.easydur.com