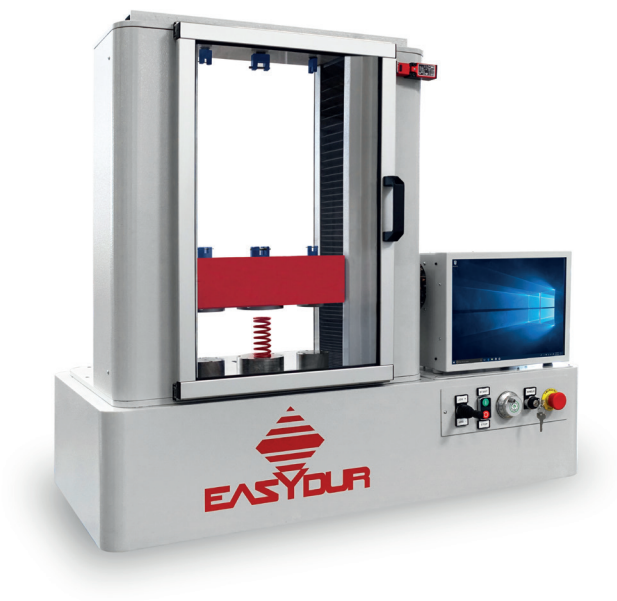
DYNO COMPRESSION

BENCH DYNAMOMETER FOR COMPRESSION TESTS

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.



DYNO COMPRESSION	10N - 10kN
Force kN	up to10
Number of guide columns	4
Number of ball screw	2
Height (cm)	100
Width (cm)	110
Depth (cm)	65
Weight (kg)	200
Vertical Test space (without Grips) (mm)	500
Horizontal Test space	320
Testing speed Range min max (mm/min)	0,005 - 484
Position control resolution	± 1 µm
Frame axiale stiffness (kN/mm)	15
Force measurement accuracy Precison 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 acquisation 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

FUNCTIONALITIES & SOFTWARE

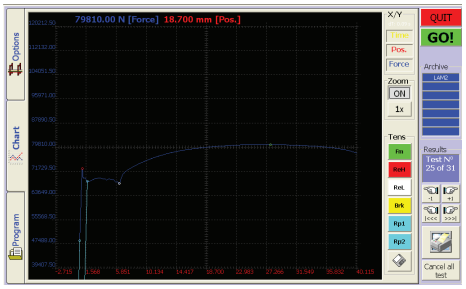
DYNO can be equipped with one, two or three load cells (always mounted on the machine). This allows to widen the variety of the testable samples, always operating with the maximum accuracy and repeatability in the results.

The cells are protected against overload and have automatic axle release in the event of out-of-scale or unexpected impact, as well as integrated failure compensation.

Depending on the type of test to perform, the instrument can be equipped with different accessories: plates, spring traction hooks, wire pulling pliers, and special equipment in line with the various technical specifications required by the international testing standards.

Moreover, it is possible to interface DYNO with various external hardware like extensometers, digital calipers for special compression tests and QR & BAR Code Readers.

The DYNO series comes with the Universal Testing Software EASY-QS, entirely developed internally by Easydur, which allows to perform each kind of static and semi-static test (low-frequency cyclic) on compression and tensile springs. Among other things, it is possible to go to position and read the force, apply a load and read the position, perform low-frequency stress cycles, evaluate rigidity and flexibility of a spring, and a lot more.



User friendly software

EASYDUR SRL
Via Maja 5 - 21051 Arcisate (VA) - Italy - Tel. +39 0332 203626 - Fax +39 0332 206710
info@easydur.com - www.easydur.com