

3MZ TENSILE

BREAKING LOAD, ELONGATION AND BENDING CLASS 0.5 TESTS

The **3MZ model** is an electro-mechanical system instrument. This allows our customers to perform their tests with the highest precision and the lowest possible energy consumption. Thanks to our internal EASYQS software (running on Windows 10) developed by our R&D department over the last 20 years, our customers can fully work following the **Industry 4.0 method**, thanks to the possibility of interfacing 3MZ with all the Customer Management Software. Depending on the different applications, we are able to provide video, automatic or manual strain gauges, for elongation tests with the highest precision, in compliance with the specific standards. Easydur can also supply automatic tensile testing systems, for "IN LINE" control, using the latest generation of robots.



3MZ TENSILE	10 - 50 kN
Force kN	10 - 50
Number of guide columns	4
Number of ball screw	2
Height (cm)	200
Width (cm)	150
Depth (cm)	65
Weight (kg)	500
Vertical Test space (without Grips) (mm)	900
Horizontal Test space	450
Testing speed Range min max (mm/min)	0,005 - 484
Position control resolution	± 1 µm
Frame axiale stiffness (kN/mm)	150
Force measurement accuracy Precision class	Class 0.5 from 1% of load cell capacity / Class 1 from 0.2 % 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

TENSILE TEST STANDARDS OF REFERENCE

Based on the type of sample being tested and the testing method, the 3MZ series allows the customer to complete different types of tests meeting the most important world standards:

Sheet steel: ASTM E517, ASTM E345, ASTM E446, DIN 50154

Ducts and pipes: ISO 3183, ISO 6892-1, ASTM A370,

Metal tensile tests with climate chamber: ASTM E21, ISO 6892-2,
ISO 6892-3, GOST 9651

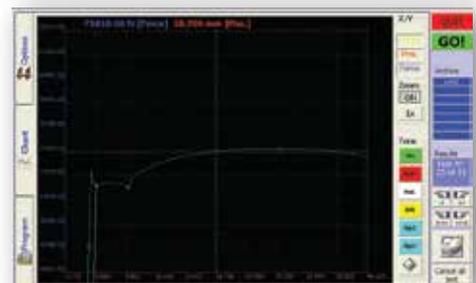
Welded metal: ISO7438, ISO 5173, ASTM E190, ASTM E290

Cast and forged products: ISO 3266, EN 818-X, EN 1677-X

Welded metal: ISO 4136, ISO 5178, ISO 5173

Alloy samples: ASTM B348, ASTM B557

Hot rolled steel tensile tests: ISO 6892-1



Easy to use software

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