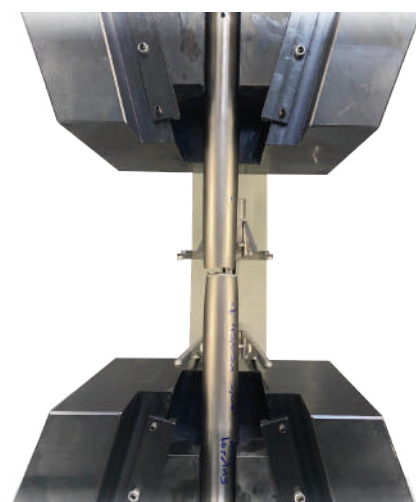


AURA TENSILE

PROVE DI TRAZIONE A ROTTURA, ALLUNGAMENTO E PIEGATURA IN CLASSE 0.5

Il modello **AURA** è concepito tramite un sistema elettromeccanico; il vantaggio di questa filosofia è quello di consentire ai nostri clienti di eseguire i loro test con la massima precisione e il minor consumo energetico possibile. Grazie al nostro software interno EASYQS (basato su Windows 10) sviluppato dal nostro reparto R&D negli ultimi 20 anni, i nostri clienti possono lavorare pienamente con il **metodo 4.0 Industry**, grazie alla possibilità di interfacciare AURA con tutti i Software di Gestione Clienti. A seconda delle diverse applicazioni, siamo in grado di fornire estensimetri video, automatici o manuali per eseguire test di allungamento con la massima precisione, nel rispetto delle norme specifiche. Easydur può fornire anche impianti automatici di prova di trazione, per controlli IN LINEA, utilizzando Robot di ultima generazione.



NORME DI RIFERIMENTO PER PROVE DI TRAZIONE

In base alla tipologia di campione da testare ed alla metodologia di Test, la serie **AURA** consente al cliente di eseguire diverse prove secondo le più importanti norme mondiali:

Lamiera: ASTM E517, ASTM E345, ASTM E446, DIN 50154

Tubi: ISO 3183, ISO 6892-1, ASTM A370,

Metalli con camera climatica: ASTM E21, ISO 6892-2, ISO 6892-3, GOST 9651

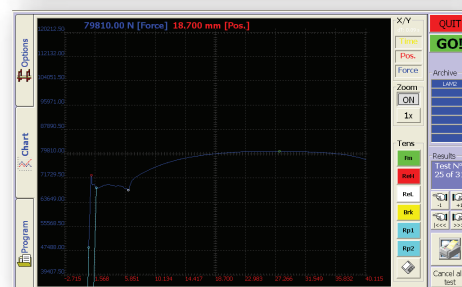
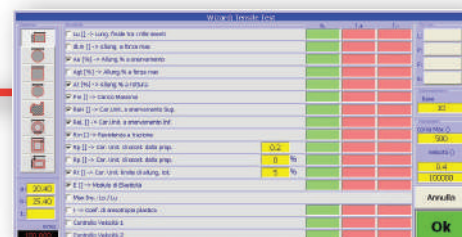
Piegatura su provini in metallo: ISO7438, ISO 5173, ASTM E190, ASTM E290

Getti e Forgiati: ISO 3266, EN 818-X, EN 1677-X

Metalli saldati: ISO 4136, ISO 5178, ISO 5173

Provino in Lega: ASTM B348, ASTM B557

Acciai Laminati a caldo: ISO 6892-1



Software di facile utilizzo

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AURA TENSILE

PROVE DI TRAZIONE A ROTTURA, ALLUNGAMENTO E PIEGATURA IN CLASSE 0.5

AURA TENSILE	100 kN	150 kN
Force kN	100	150
Number of guide columns	4	4
Number of ball screw	2	2
Height (cm)	210	210
Width (cm)	111	111
Depth (cm)	87	87
Weight (kg)	680	680
Vertical Test space (without Grips) [mm]	1200	1200
Horizontal Test space	512	512
Testing speed Range min max (mm/min)	0,005 - 484	0,005 - 484
Position control resolution	$\pm 1 \mu\text{m}$	$\pm 1 \mu\text{m}$
Frame axiale stiffness (kN/mm)	275	350
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	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	$\pm 5 \mu\text{m}$	$\pm 5 \mu\text{m}$
Testing speed accuracy	(+/-) 0,1%	(+/-) 0,1%
Calculated resolution (for example in tensile / compression direction)	24 bits	24 bits
Data acquisition rate, internal	10 kHz	10 kHz
Data Acquisition Rate at the PC	1 kHz	1 kHz
Controller /Cycle Time	1 kHz	1 kHz
Power supply	Single Phase Voltage: 230 VAC +/- 10%; 50 - 60 Hz Three Phase Voltage: 480 VAC +/- 10%; 50 to 60 Hz. Power supply must be free of spikes	Single Phase Voltage: 230 VAC +/- 10%; 50 - 60 Hz Three Phase Voltage: 480 VAC +/- 10%; 50 to 60 Hz. Power supply must be free of spikes
Operating Temperature	(+10 to + 38 °C)	(+10 to + 38 °C)
Storage Temperature	(-40 + 66 °C)	(-40 + 66 °C)
Humidity Range	(+10 + 90 %)	(+10 + 90 %)
Interface for PC	Ethernet	Ethernet
Drive System	AC Servo motor Brushless	AC Servo motor Brushless
Noise level at maximum test speed (dBA)	<75	<75

AURA TENSILE

PROVE DI TRAZIONE A ROTTURA, ALLUNGAMENTO E PIEGATURA IN CLASSE 0.5

AURA TENSILE	250 kN	400 kN
Force kN	250	400
Number of guide columns	4	4
Number of ball screw	2	2
Height (cm)	230	236
Width (cm)	130	145
Depth (cm)	98	118
Weight (kg)	2000	3200
Vertical Test space (without Grips) [mm]	1300	1200
Horizontal Test space	650	835
Testing speed Range min max (mm/min)	0,005 - 514	0,005 - 514
Position control resolution	$\pm 1 \mu\text{m}$	$\pm 1 \mu\text{m}$
Frame axiale stiffness (kN/mm)	350	500
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	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	$\pm 5 \mu\text{m}$	$\pm 5 \mu\text{m}$
Testing speed accuracy	(+/-) 0,1%	(+/-) 0,1%
Calculated resolution (for example in tensile / compression direction)	24 bits	24 bits
Data acquisition rate, internal	10 kHz	10 kHz
Data Acquisition Rate at the PC	1 kHz	1 kHz
Controller /Cycle Time	1 kHz	1 kHz
Power supply	Three Phase Voltage: 480 VAC +/- 10%; 50 to 60 Hz. Power supply must be free of spikes	Three Phase Voltage: 480 VAC +/- 10%; 50 to 60 Hz. Power supply must be free of spikes
Operating Temperature	(+10 to + 38 °C)	(+10 to + 38 °C)
Storage Temperature	(-40 + 66 °C)	(-40 + 66 °C)
Humidity Range	(+10 + 90 %)	(+10 + 90 %)
Interface for PC	Ethernet	Ethernet
Drive System	AC Servo motor Brushless	AC Servo motor Brushless
Noise level at maximum test speed (dBA)	<75	<75

AURA TENSILE

PROVE DI TRAZIONE A ROTTURA, ALLUNGAMENTO E PIEGATURA IN CLASSE 0.5

AURA TENSILE	600 kN
Force kN	600
Number of guide columns	4
Number of ball screw	2
Height (cm)	300
Width (cm)	148
Depth (cm)	118
Weight (kg)	3800
Vertical Test space (without Grips) [mm]	1650
Horizontal Test space	835
Testing speed Range min max (mm/min)	0,005 - 334
Position control resolution	$\pm 1 \mu\text{m}$
Frame axiale stiffness (kN/mm)	850
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	$\pm 5 \mu\text{m}$
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	Three Phase Voltage: 480 VAC +/- 10%; 50 to 60 Hz. Power supply must be free of spikes
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