# High-Precision & Versatile Universal Testing Machines

Models from 3kN to 200 kN

Boundless configurations.

amlinstruments.co.uk

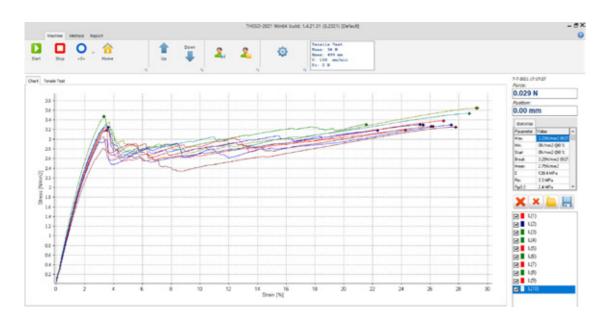
Budget-friendly. Built in Germany.

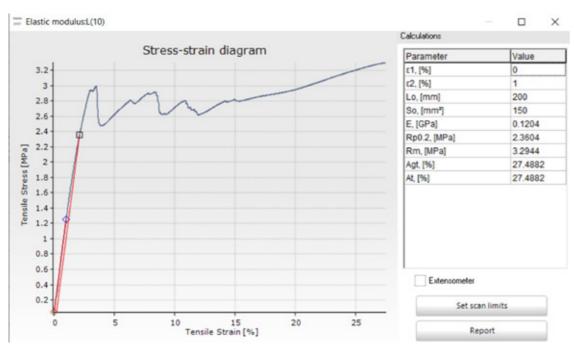


## Perform thousands of different material tests

Our tensile testers are capable of performing thousands of different tests on different materials and structures (depending on the configurations and fixtures). These include bending, compression strength, peel strength, shear stress, tensile stress, and other mechanical properties of materials such as adhesives, metals, packaging, plastics, and textiles.

These machines promise high precision tensile testing, a fast response speed, and comprehensive and convenient data processing, helping manufacturers and researchers expand the scope of their material testing possibilities.





### **Benefits**

- Made in Germany to the highest standards while being favourably priced.
- Powerful and easy-to-use software for use in research and development and quality control applications.
- Comprehensive and impressive range of machines from space-saving 'Single Column Machines' to large 200kN models.
- Fantastic versatility for different testing conditions, from low capacity simple tests up to the most demanding of mechanical testing requirements.
- Can be used standalone or with a computer — all measuring data can be transferred to a PC using a USB connection.
- Two year warranty (extendable to three years).
- Aluminium and stainless steel construction with high mechanical stiffness.
- Cross-head speed as standard 0.025
   700mm, greater range possible as an option.



### Powerful and easy to use software

### Dynamic Data & Accurate Testing Results Analysis

- Large real-time numeric displays
- Live Load, Peak Load, Live Stress and Peak Stress
- Position, Position Rate, Peak Position, Live Strain, and Peak Strain
- Modulus calculations
- Yield calculations
- Monotonic and cyclitic test profiles
- Comprehensive analysis and calculations
- Multiple specimen geometries and dimensions
- Export reports / results to PDF,
   Excel, or as a text file
- Grade 0.5 load cells to all international standards including
   ISO 7500-1. ASTM E4, and JISB7721
- Position resolution 0.001mm
- Guaranteed resolution with a standard load cell +100, 000 parts 50 Hz
- Higher speed/resolution available as an option

#### **Options**

- Customised machine sizes and capabilities.
- External extensometer and channel.
- Finance / lease options available (subject to a successful application).
- Installation and training available.
- LabView API and custom test programs.
- Load cells 2N to 200 kN.
- Over 3000 different grips and fixtures available.

#### **Types of Test**

- Tensile
- Compression
- Bend, 3 point & 4 point
- Cyclitic
- Constant Force
- Friction (COF)
- Peel
- Shear

## Take the strain out of tensile testing.

### **Specifications**

In addition to standard machine sizes, we can offer machine sizes to your bespoke requirements.

Specifications	Z3 X500	Z3 X1200	Z5 X500	Z5 X1200	Z10 X700	Z10 X1200	Z20 X700	Z20 X1200
Max Force	3	3	5	5	10	10	20	20
Max Speed	700	700	700	700	600	600	1600	1600
Min Speed	1	1	1	1	1	1	0.03	0.03
Smallest Distance	66	66	66	66	200	200	209	209
Adapter Size	15.9	15.9	15.9	15.9	15.9	15.9	31.8	31.8
Motor	50	50	90	90	170	170	800	800
Voltage	220/110	220/110	220/110	220/110	220/110	220/110	380	380
Motor Type	DC Maxon	DC Maxon	DC Maxon	DC Maxon	DC Maxon	DC Maxon	AC Servo	AC Servo
							Stober	Stober
Crosshead Ext.	500	1200	500	1200	700	700	700	1200
Weight	36	37	55	56	88	88	235	260
Dimensions	1036mm	1677mm	1036mm	1677mm	1226	1726	1317	1837
HxWxD	390mm	390mm	390mm	390mm	640	640	1071	1071
	300mm	300mm	300mm	300mm	240	240	433	433
Packing Dimensions	1150mm	1800mm	1150mm	1800mm	1315mm	1976mm	1900mm	1900mm
H x W x D	500mm	500mm	500mm	500mm	740mm	740mm	1200mm	1200mm
	400mm	400mm	400mm	400mm	400mm	400mm	800mm	800mm
Specifications	Z50 X700	Z50 X1200	Z100 X700	Z100 X1200	71E0 V1200	Z200 X1200		
		200 X1200	2100 X700	2100 X1200	Z130 X1200	2200 X1200		
Max Force	50	50	100	100	150 X1200	200 X1200		
Max Force Max Speed								
	50	50	100	100	150	200		
Max Speed Min Speed	50	50	100	100	150	200		
Max Speed Min Speed Smallest Distance	50 1600 0.03	50 1600 0.03	100 600 0.02	100 600 0.02	150 400 0.02	200 400 0.01		
Max Speed Min Speed Smallest Distance Adapter Size	50 1600 0.03 209	50 1600 0.03 209	100 600 0.02 228	100 600 0.02 228	150 400 0.02 228	200 400 0.01 228		
Max Speed Min Speed Smallest Distance Adapter Size Motor	50 1600 0.03 209 31.8	50 1600 0.03 209 31.8	100 600 0.02 228 40	100 600 0.02 228 12	150 400 0.02 228 40/12	200 400 0.01 228 40/12		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage	50 1600 0.03 209 31.8 1600	50 1600 0.03 209 31.8 1600	100 600 0.02 228 40 2400	100 600 0.02 228 12 2400	150 400 0.02 228 40/12 2900	200 400 0.01 228 40/12 3500		
Max Speed	50 1600 0.03 209 31.8 1600	50 1600 0.03 209 31.8 1600	100 600 0.02 228 40 2400	100 600 0.02 228 12 2400 380	150 400 0.02 228 40/12 2900 380	200 400 0.01 228 40/12 3500 380		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage	50 1600 0.03 209 31.8 1600 380 AC Servo Stober	50 1600 0.03 209 31.8 1600 380 AC Servo	100 600 0.02 228 40 2400 380 AC Servo	100 600 0.02 228 12 2400 380 Ac Servo	150 400 0.02 228 40/12 2900 380 AC Servo	200 400 0.01 228 40/12 3500 380 AC Servo		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type	50 1600 0.03 209 31.8 1600 380 AC Servo Stober	50 1600 0.03 209 31.8 1600 380 AC Servo Stober	100 600 0.02 228 40 2400 380 AC Servo Stober	100 600 0.02 228 12 2400 380 Ac Servo Stober	150 400 0.02 228 40/12 2900 380 AC Servo Stober	200 400 0.01 228 40/12 3500 380 AC Servo Stober		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type Crosshead Extension	50 1600 0.03 209 31.8 1600 380 AC Servo Stober	50 1600 0.03 209 31.8 1600 380 AC Servo Stober	100 600 0.02 228 40 2400 380 AC Servo Stober	100 600 0.02 228 12 2400 380 Ac Servo Stober	150 400 0.02 228 40/12 2900 380 AC Servo Stober 1200	200 400 0.01 228 40/12 3500 380 AC Servo Stober 1200		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type Crosshead Extension Weight	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 700 245	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 1200 270	100 600 0.02 228 40 2400 380 AC Servo Stober 1200 420	100 600 0.02 228 12 2400 380 Ac Servo Stober 1200 420	150 400 0.02 228 40/12 2900 380 AC Servo Stober 1200 460	200 400 0.01 228 40/12 3500 380 AC Servo Stober 1200 600		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type Crosshead Extension Weight Dimensions	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 700 245 1317mm	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 1200 270 1837mm	100 600 0.02 228 40 2400 380 AC Servo Stober 1200 420 1450mm	100 600 0.02 228 12 2400 380 Ac Servo Stober 1200 420 2050mm	150 400 0.02 228 40/12 2900 380 AC Servo Stober 1200 460 2050mm	200 400 0.01 228 40/12 3500 380 AC Servo Stober 1200 600 2050mm		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type Crosshead Extension Weight Dimensions	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 700 245 1317mm 1071mm	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 1200 270 1837mm 1071mm	100 600 0.02 228 40 2400 380 AC Servo Stober 1200 420 1450mm 1090mm	100 600 0.02 228 12 2400 380 Ac Servo Stober 1200 420 2050mm 1090mm	150 400 0.02 228 40/12 2900 380 AC Servo Stober 1200 460 2050mm 1090mm	200 400 0.01 228 40/12 3500 380 AC Servo Stober 1200 600 2050mm 1090mm		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type  Crosshead Extension Weight Dimensions H x W x D	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 700 245 1317mm 1071mm 433mm	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 1200 270 1837mm 1071mm 433mm	100 600 0.02 228 40 2400 380 AC Servo Stober 1200 420 1450mm 1090mm 590mm	100 600 0.02 228 12 2400 380 Ac Servo Stober 1200 420 2050mm 1090mm 590mm	150 400 0.02 228 40/12 2900 380 AC Servo Stober 1200 460 2050mm 1090mm 590mm	200 400 0.01 228 40/12 3500 380 AC Servo Stober 1200 600 2050mm 1090mm 590mm		
Max Speed Min Speed Smallest Distance Adapter Size Motor Voltage Motor Type Crosshead Extension Weight Dimensions H x W x D  Packing Dimensions	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 700 245 1317mm 1071mm 433mm 1900mm	50 1600 0.03 209 31.8 1600 380 AC Servo Stober 1200 270 1837mm 1071mm 433mm 1900mm	100 600 0.02 228 40 2400 380 AC Servo Stober 1200 420 1450mm 1090mm 590mm 1600mm	100 600 0.02 228 12 2400 380 Ac Servo Stober 1200 420 2050mm 1090mm 590mm 1600mm	150 400 0.02 228 40/12 2900 380 AC Servo Stober 1200 460 2050mm 1090mm 590mm 1600mm	200 400 0.01 228 40/12 3500 380 AC Servo Stober 1200 600 2050mm 1090mm 590mm 1600mm		









Our Values

Accountable	
Collaborative	
Dynamic	
Focused	
Responsive	

## AML Instruments Measuring Success

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