

Competence creates Confidence.



● Model no. H3016

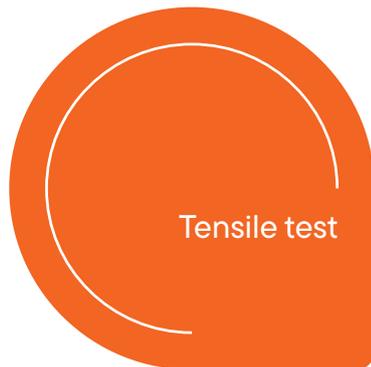
UNIVERSAL TENSILE TESTER

The universal tensile tester is used for performing tension, pressure or bending tests. The classic application is the tensile test. This involves subjecting a sample to an increasing tensile load until it breaks. The force-displacement diagram generated during this test provides information on the load-bearing capacity, elasticity and plastic deformation of the material sample.

ISO 527

ISO 6259

ASTM D 638



Standard features

- Convenient operation and clear visualisation (test curves, calculations and statistics) via integrated touch display
- Accuracy: $\pm 0.5\%$ of the measurement up to 1/1000 of the max. measuring range
- Brushless servo motor for maintenance-free operation
- 800% overload protection
- Easy to change grips
- Precise, self-cleaning ballscrew with sealed, maintenance-free bearings for low-noise operation
- Automatic detection and calibration of load cells and extensometers
- CE conformity



Version UNIVERSAL TENSILE TESTER		H3016-0400	H3016-0401	H3016-0402	H3016-0403	H3016-0404	H3016-0405	H3016-0406	H3016-0407	H3016-0408	H3016-0409	
Test force	kN	1	2.5	3	5	10	20	25	30	50	100	
Structure		One column				Two columns						
Max. crossbeam travel excluding retainers	mm	630	990	990	1,100	1,100	1,100	1,025	1,025	950	1,100	
Vertical space	mm	800	1,160	1,160	1,275	1,275	1,275	1,225	1,225	1,150	1,300	
Distance between column and force axis	mm	108	108	108	-	-	-	-	-	-	-	
Working space width	mm	-	-	-	320 (420*)	320 (420*)	320 (420*)	420	420	420	420	
Crossbeam speed, min	µm/min	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Crossbeam speed, max	µm/min	2,500	2,500	2,500	2,000	2,000	1,000	1,000	1,000	1,000	500	
Speed accuracy (under stable conditions)	%							± 0.1				
Max. force at full speed	kN	1	2.5	3	5	10	20	25	30	50	100	
Frame rigidity	kN/mm	8	8	8	50	50	50	120	120	220	400	
Extensometer		O										
Wedge grips		O										
Grips for large wall thickness		O										
Retainer for peel test on composite pipes		O										
Compression plates		O										
Further accessories		*										
Permissible ambient temperature	°C	-10 to +40										
Permissible relative humidity	%	10 to 90 Non-condensing										
Width	mm	690	690	690	1,050	1,050	1,050	1,148	1,148	1,148	1,148	
Depth	mm	530	530	530	530	530	530	530	530	530	530	
Height	mm	1,133	1,493	1,493	1,582	1,582	1,582	1,585	1,585	1,585	1,770	
Weight	kg	58	65	65	110	110	120	155	155	195	235	
Electrical power	kW	0.3	0.3	0.3	0.45	0.45	0.45	1	1	1	1.2	
Voltage data		230/400 V 50/60 Hz special voltages on request										

420*: Wide version option

Accessories UNIVERSAL TENSILE TESTER

Product	Description	Model no.
	CNC test bar milling machine	1643 1843
