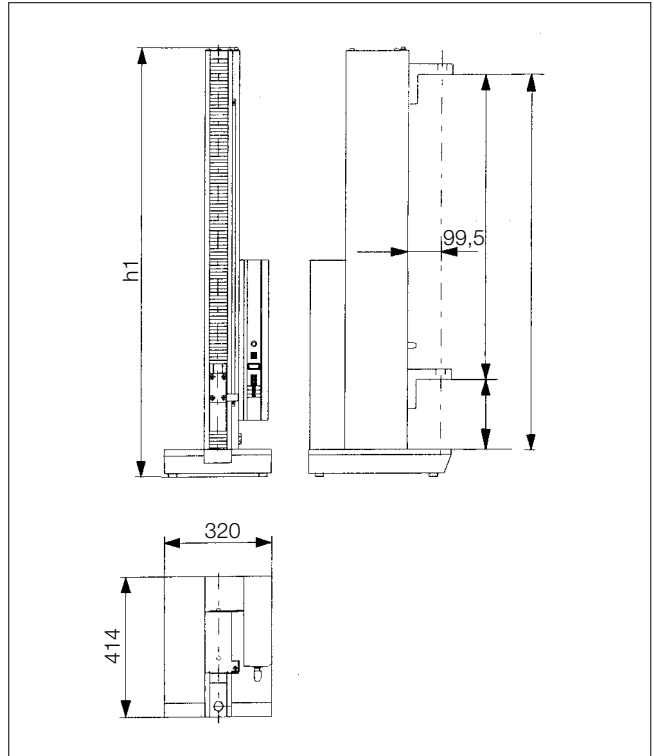


## Product Information

zwicki table-top machines up to 2.5 kN with Doli I electronics



### Application area

- Wide spectrum of applications from plastics and elastomer testing, over paper, textile, foam and wire testing up to component testing.

### Advantages/ characteristics

- Operation with standard PCs and *testXpert*<sup>®</sup>-software for highest operation comfort, analysis and statistical processing of data.
- Operation without a PC, value for money solution for standard applications.
- Robust and long life span industrial drive systems.
- Modular mechanics and software allow for task orientated and low cost machine configuration.
- Extensive force/measurement range, and comprehensive palette of accessories encompass a wide range of applications.
- CE conform construction.
- Low weight and ergonomic positioning on a sturdy table, thus variable in use.
- Optionally expandable with manual extensometer for extension measurement direct on the specimen.
- Awarded with the iF Product Design Award 1997 for excellent industry design.

## Product Information

zwicki table-top machines up to 2.5 kN with Doli I electronics

Order item	Z1.0/TH1S Value	Z2.5/TS1S Value	Z2.5/TN1S Value	Z2.5/TH1S Value	Unit
<b>Load frame</b>					
Test load $F_N$ in tensile/compression direction	1	2.5	2.5	2.5	kN
Height ( $h_s$ ) approx.	1570	770	1270	1570	mm
Width with electronics console	320	320	320	320	mm
Depth with electronics console	414	414	414	414	mm
Test area height $h_{min} \dots h_{max}$ :					
angled moving crosshead mounted upwards	227 ... 1373	227 ... 573	227 ... 1073	227 ... 1373	mm
angled moving crosshead rotated 180° (without accessories)	57 ... 1203	57 ... 403	57 ... 903	57 ... 1203	mm
Maximum travel $s$ of the moving crosshead:	if $H < h_{min}$ : if $H > h_{min}$ :	$s = h_{max} - h_{min}$ $s = h_{max} - H$	mm mm		
H = sum of the mounting dimensions of the complete testing equipment (load cell, grips/testing device, mounting stud)					
Width of the test area	infinite	infinite	infinite	infinite	
Depth of the test area (test axis to profile)	99.5	99.5	99.5	99.5	mm
Weight, approx.	43	35	40	43	kg
Finish	RAL 7037 dusty grey and RAL 7038 agate grey				
Ambient temperature	+ 10 ... + 35	+ 10 ... + 35	+ 10 ... + 35	+ 10 ... + 35	°C
Air humidity	20 ... 90	20 ... 90	20 ... 90	20 ... 90	%
Noise level at maximum speed	67	67	67	67	dB(A)
<b>Drive system</b>					
Crosshead speed $v_{Set}$	0.1 ... 1800 <sup>(1)</sup>	0.1 ... 800 <sup>(1)</sup>	0.1 ... 800 <sup>(1)</sup>	0.1 ... 800 <sup>(1)</sup>	mm/min
Accuracy of the set speed	1	1	1	1	% of $v_{Set}$
Drive system's travel resolution	0.00023	0.0001	0.0001	0.0001	mm
Positioning, repetition accuracy	± 2	± 2	± 2	± 2	µm
<b>Measurement and control electronics</b>					
Force measurement	Grade 0.5 / 1 see load cell, to DIN EN ISO 7500-1 (DIN 51220, DIN 51302), ISO R147, ASTM E4, BS 1610 Grade A, NF A 03-501				
Real resolution in tensile/compression direction	100.000	100.000	100.000	100.000	Points
Recording rate, internal	400	400	400	400	Hz
Test data group transmission rate to the PC	50	50	50	50	Hz
Zero-point correction	automatic at measurement begin				
Measurement signal runtime corr. for all channels	yes	yes	yes	yes	
Output interface	RS232	RS232	RS232	RS232	
Required PC connection (for PC operation)	COM 1	COM 1	COM 1	COM 1	
<b>Power ratings</b>					
Electrical connections	115/230	115/230	115/230	115/230	V(Ph,N,PE)
Power rating	0.4	0.4	0.4	0.4	kVA
Mains frequency	50/60	50/60	50/60	50/60	Hz
<b>Options</b>					
e.g. extensometer, additional upper crosshead, extension of test area depth to 205 mm, machine connection lead to B.S./US standard					

<sup>(1)</sup> This speed is valid for the operation with Stand Alone, via use of a PC a minimum speed of 0.001 mm/min can be realised