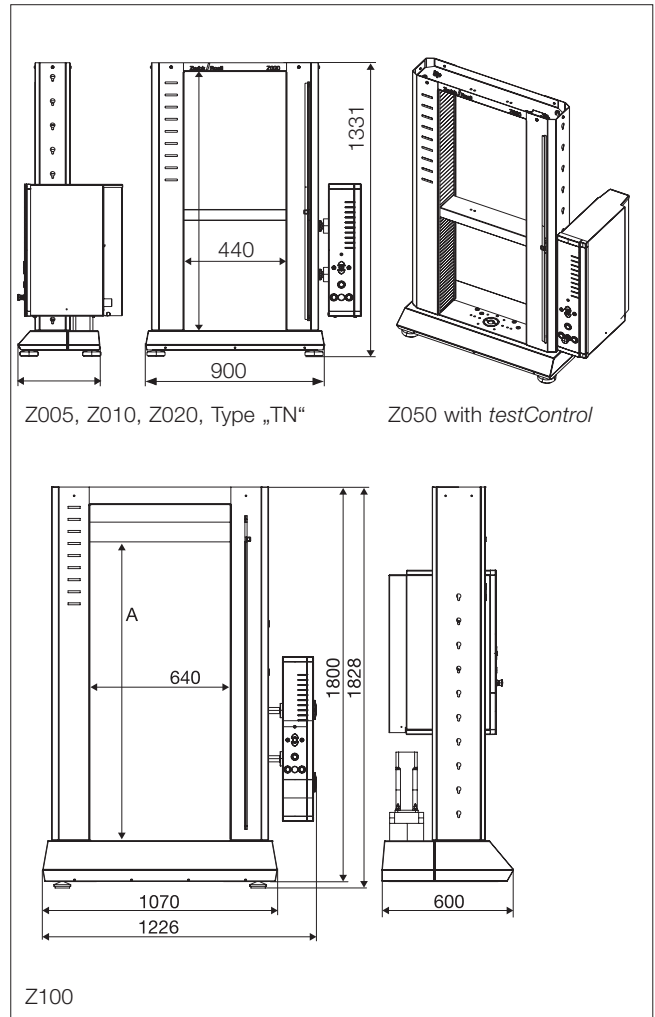


## Product Information

ProLine table-top machines Z005 up to Z100



### Range of application

Function testing on components and simple materials testing

### Advantages/Characteristics

- High value, twin column load frame
- Robust and durable industrial operation
- Precise crosshead guidance via steel columns
- The wide force/measurement range encompasses an expansive range of applications
- Attractive, pricewise, test solutions for routine and standard applications
- Simple operateability
- A high standard of comfort and user ergonomics is created in synergy with the test software *testXpert*<sup>®</sup>
- *testXpert*<sup>®</sup> standard test programs for ProLine guarantee intuitively operateable test sequences that are tailor made for the respective applications at lowest possible prices
- At testing machines Z005 to Z050 the electrical connection can be switched into 6 several voltage ranges
- Internal recording rate 500 Hz
- CE Conform design
- Setting the machines up on existing industrial furniture enables the test area to be positioned at an optimum height for the operator
- Zwick shows the way with a delivery time of 2 weeks for all ProLine products of the Pure Portfolio

## Product Information

### ProLine table-top machines Z005 up to Z100

Type Item number	Z100 TN 325286	Z050 TN 325284	Z050 TN 325584	Z030 TN 325583	Z020 TN 325582	Z010 TN 325581	Z005 TN 325580		
<b>Load frame</b>									
Test load $F_N$ in tensile/compr. direction	100	50	50	30	20	10	5	kN	
Test area width	640	440	440	440	440	440	440	mm	
Height of test area (dimension A) <sup>(2)</sup>	1360	1370	1370	1370	1050	1050	1070	mm	
Max travel of moving crosshead <sup>(2)</sup>	1275	1285	1285	1285	980	980	1000	mm	
Height	1828	1744	1744	1744	1331	1331	1331	mm	
Width	1070	850	850	850	770	770	770	mm	
Width with electronics console	1226	1021	1010	1010	930	930	930	mm	
Depth	600	433	433	433	356	356	356	mm	
Depth with electronics console	600	516	495	495	437	437	437	mm	
Total weight with electron. console	530	325	325	325	135	135	110	kg	
Lower mounting stud dia. (included in scope of supply)	60	36	36	36	36	20	20	mm	
<b>Drive unit</b>									
Crosshead speed	0.0005	0.0005	0.001	0.001	0.001	0.001	0.001	mm/min	
$V_{min} \dots V_{Nom}$	... 300	... 600	... 180	... 300	... 500	... 1000	... 500		
Accuracy of the set speed	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	<0.0125	% of $v_{Nom}$	
Drive system's travel resolution	0.0081	0.016	0.007	0.012	0.018	0.038	0.039	$\mu m$	
Positioning, repetition accuracy	$\pm 2$	$\pm 2$	$\pm 2$	$\pm 2$	$\pm 2$	$\pm 2$	$\pm 2$	$\mu m$	
<b>Power ratings</b>									
Electrical connections	230	230	230	230	230	230	100...109	V (PH,N,PE)	
							110...119	V (PH,N,PE)	
							120...129	V (PH,N,PE)	
							200...219	V (PH,N,PE)	
							220...239	V (PH,N,PE)	
							240...250	V (PH,N,PE)	
Mains frequency	50/60	50/60	50/60	50/60	50/60	50/60	50/60	Hz	
Power rating	2.6	2.6	0.8	0.8	0.8	0.8	0.44	kVA	
<b>Measurement and control electronics</b> <i>testControl</i> : Measurement range up to 165% of $F_N$ , with load cell $F_{max}$ 2.5 kN up to 130% of $F_N$ , real resolution in tensile / compression direction 162,000 ... 912,000 Points, Internal recording rate 500 Hz, Test data group transmission rate to the PC 100 Hz.									

<sup>(2)</sup> Without accessories

#### Data for all load frames

Finish: RAL 7011 iron grey, stainless steel metallic, RAL 3031 orient red,

Ambient temperature: + 10 ... + 35 °C, air humidity (non condensing): 20 ... 90 %

#### Measurement and control electronics

Force measurement: Grade 0.5 / 1 depending upon the load cell, according to ISO 7500-1 (DIN 51220, DIN 51302),

ISO R147, ASTM E4, BS 1610 Grade A, NF A 03-501; Zero-point correction automatically at beginning of measurement, measurement signal runtime correction for all channels, output interface RS232, required PC connection (for PC operation): COM1