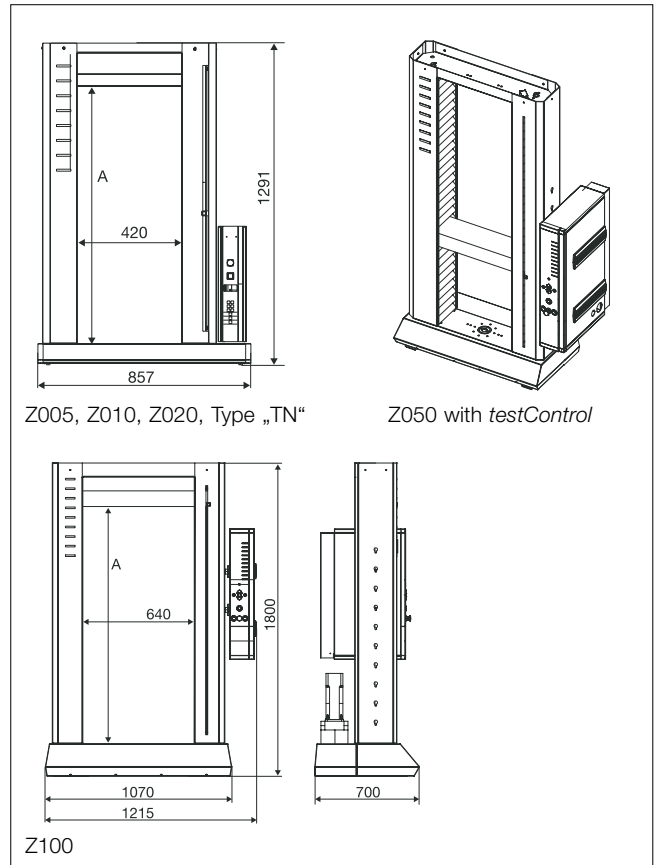


## Product Information

ProLine table-top machines Z005 up to Z100



### Range of application









Function testing on components and simple materials testing

### Advantages/Characteristics

- High value, single/twin column load frame
- Robust and durable industrial operation
- Precise crosshead guidance via steel columns/ polished linear axis with carriages seated on ball bearings
- 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
- 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

Order item	Test load $F_N$ in tensile/compr. direction	Test area width	Height of the test area (Dimension A) <sup>(4)</sup>	Max. travel of the moving crosshead <sup>(4)</sup>	Height	Width	Width with electronics console	Depth	Depth with electronics console	Total weight with electron. console	Lower mounting stud (included in scope of supply) dia.	Drive unit	Crosshead speed $v_{min}$ ... $v_{Nom}$ (testControl) resp. $v_{set}$ (Doli I)	Accuracy of the set speed	Drive system's travel resolution	Positioning, repetition accuracy	Measurement and control electronics	Electronics	Power ratings	Electrical connections	Mains frequency	Power rating
 <b>T1-FB100TN</b>	100	440	1364	1283	1800	850	1070	600	600	≅ 540	60		0.0005	... 300	1	0.0081	± 2	tc <sup>(3)</sup>		V(PH,N,PE)	50/60	2.3
 <b>T1-FB050TN</b>	50	440	1374	1293	1739	850	1007	423	509	≅ 250	36		0.0005	... 600	1	0.016	± 2	tc <sup>(3)</sup>		115/230	50/60	2.3
 <b>DO-FB050TN</b>	50 <sup>(1)</sup>	440	1374	1293	1739	850	964	423	423	≅ 250	36		0.1 <sup>(2)</sup>	... 180	1	0.015	± 2	Doli I		115/230	50/60	0.6
 <b>DO-FB030TN</b>	30 <sup>(1)</sup>	440	1374	1293	1739	850	964	423	423	≅ 250	36		0.1 <sup>(2)</sup>	... 300	1	0.025	± 2	Doli I		115/230	50/60	0.6
 <b>DO-FB020TN</b>	20 <sup>(1)</sup>	420	1041	976	1291	857	857	346	346	133	36		0.1 <sup>(2)</sup>	... 500	1	0.045	± 3	Doli I		115/230	50/60	0.6
 <b>DO-FB010TN</b>	10 <sup>(1)</sup>	420	1041	976	1291	857	857	346	346	130	20		0.1 <sup>(2)</sup>	... 1000	1	0.09	± 2	Doli I		115/230	50/60	0.6
 <b>DO-FB005TN</b>	5	420	1061	996	1291	857	857	346	346	105	20		0.1 <sup>(2)</sup>	... 500	1	0.05	± 2	Doli I		115/230	50/60	0.6
 <b>DO-FB005TS</b>	5	420	561	496	791	857	857	346	346	90	20		0.1 <sup>(2)</sup>	... 500	1	0.05	± 2	Doli I		115/230	50/60	0.6

#### Data for all load frames

Finish: Z005/Z010/Z020: RAL 7011 iron grey, RAL 7038 agate grey, RAL 3031 orient red

Z030/Z050/Z100: RAL 7037 dusty grey, RAL 7038 agate grey

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

<sup>(1)</sup> Valid at  $F_{max}$  is: 75% of  $F_{max}$

<sup>(2)</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

<sup>(3)</sup>  $tc$  = testControl: Measurement range up to 165% von  $F_N$ , 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.

Doli I: Measurement range up to 150 % of  $F_N$ , with load cell  $F_{max}$  2.5 kN up to 120% of  $F_N$ , Real resolution in tensile/compression direction 100,000 Points, internal recording rate 400 Hz, Test data group transmission rate to the PC 50 Hz

<sup>(4)</sup> Without accessories