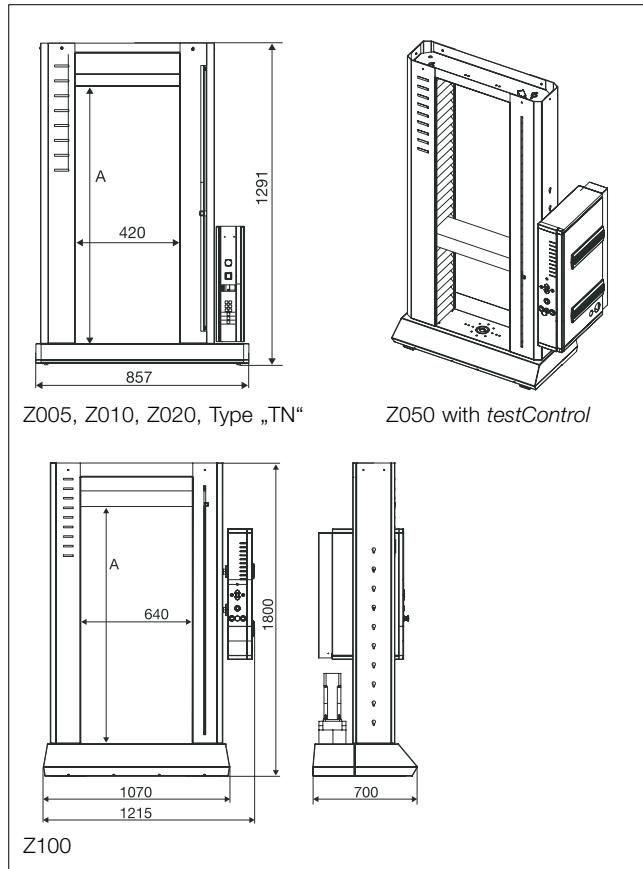


Product Information

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®*
- *testXpert®* 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	T1-FB100TN	T1-FB050TN	DO-FB050TN	DO-FB030TN	DO-FB020TN	DO-FB010TN	DO-FB005TN	DO-FB005TS
Load frame								
Test load F_N in tensile/compr. direction	5	5	10 ⁽¹⁾	20 ⁽¹⁾	30 ⁽¹⁾	50 ⁽¹⁾	50	100
Test area width	420	420	420	420	440	440	440	440
Height of the test area (Dimension A) ⁽⁴⁾	561	1061	1041	1041	1374	1374	1374	1364
Max. travel of the moving crosshead ⁽⁴⁾	496	996	976	976	1293	1293	1293	1283
Height	791	1291	1291	1291	1739	1739	1739	1800
Width	857	857	857	857	850	850	850	1070
Width with electronics console	857	857	857	857	964	964	1007	1215
Depth	346	346	346	346	423	423	423	600
Depth with electronics console	346	346	346	346	423	423	509	600
Total weight with electron. console	90	105	130	133	≥ 250	≥ 250	≥ 250	≥ 540
Lower mounting stud (included in scope of supply) dia.	20	20	20	36	36	36	36	60
Drive unit								
Crosshead speed $v_{min} \dots v_{Nom}$ (testControl) resp. v_{set} (Doli I)	0.1 ⁽²⁾ ... 500	0.1 ⁽²⁾ ... 500	0.1 ⁽²⁾ ... 1000	0.1 ⁽²⁾ ... 500	0.1 ⁽²⁾ ... 300	0.1 ⁽²⁾ ... 180	0.0005 ... 600	0.0005 ... 300
Accuracy of the set speed	1	1	1	1	1	1	1	1
Drive system's travel resolution	0.05	0.05	0.09	0.045	0.025	0.015	0.016	0.0081
Positioning, repetition accuracy	± 2	± 2	± 2	± 3	± 2	± 2	± 2	± 2
Measurement and control electronics								
Electronics	Doli I	Doli I	Doli I	Doli I	Doli I	Doli I	tc ⁽³⁾	tc ⁽³⁾
Power ratings								
Electrical connections	115/230	115/230	115/230	115/230	115/230	115/230	115/230	V(PH,N,PE)
Mains frequency	50/60	50/60	50/60	50/60	50/60	50/60	50/60	Hz
Power rating	0.6	0.6	0.6	0.6	0.6	0.6	2.3	kVA

⁽¹⁾ Valid at Fmax is: 75% of vmax, valid at vmax is: 75% of Fmax

⁽²⁾ 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

⁽³⁾ tc = testControl: Measurement range up to 165% von F_N , with load cell Fmax 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 Fmax 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

⁽⁴⁾ Without accessories

Data for all load frames
 Finish: Z005/Z100: 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

All data at ambient temperature.

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