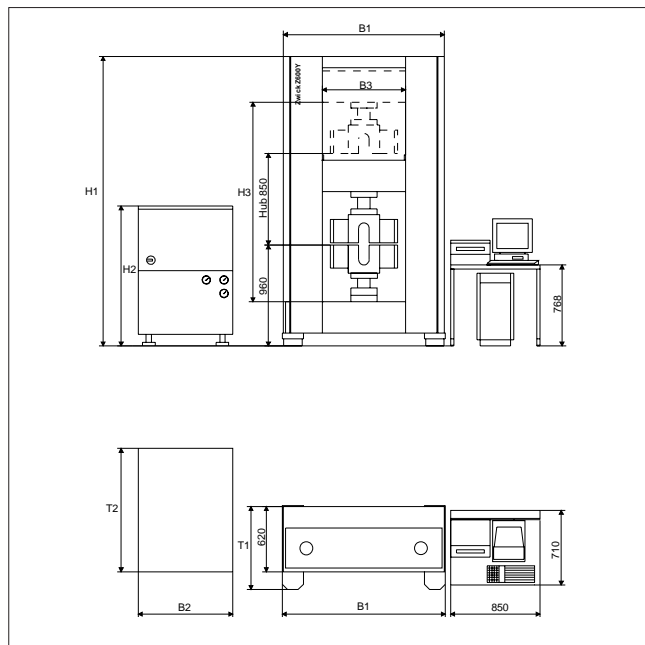


Product Information

Hybrid Materials Testing Machine Z600Y - 600 kN



Advantages of the Zwick Z600Y Materials Testing Machine with Hybrid Drive

- A coverage of the largest possible specimen spectrum is guaranteed for large forces with the patented Zwick Hybrid Drive.
- The combined advantages of hydraulic force application (simple force generation, robust, low wear), with mechanical precision (high positioning accuracy ± 1 mm under load).
- Highest reproducibility of the test conditions by separation of load generation and drive control using the Hybrid Drive concept.
- Problem free gripping and testing of the most varied specimen lengths because of very long travel, although the machine's construction height is low.

Further advantages of the Z600Y

- Used for calibration of force measurement systems, even at high forces, because of the high accuracy and precision.
- Exact determination of even small forces, because of a large measurement range without changing equipment.
- Exact and correct determination of the materials characteristics because of high resolution and channel synchronized measurement technology.
- Standard testing with the Zwick testing software, *testXpert*[®], reduces operating effort to a „one-button operation“.
- Use of the entire Zwick accessories programme because of the modular construction of the entire system.
- „The customer specific machine“: adaptation of the testing machine to customer specific requirements is possible at any time.

Product Information

Hybrid Materials Testing Machine Z600Y - 600 kN

Model	Z600Y	
Order-No.	B121670	
Capacity (nominal force)	[kN]	600
	[lb]	135000
Columns	2 (piston rods)	
Maximum crosshead travel		
with hydr. grips 8597 (incl. load cell)	[mm]	850
with wedge grips 8520 (incl. load cell)	[mm]	590
Test speed	[mm/min]	0.001 ... 250
Dimensions of load frame		
Height H1	[mm]	2750
Width B1	[mm]	1530
Depth T1	[mm]	788
Dimensions of test area		
Height H3	[mm]	1895
Width B3	[mm]	790
Dimensions hydraulic power-pack		
Height H2	[mm]	1330
Width B2	[mm]	900
Depth T2	[mm]	1170
Weight		
without installations (with electronics)	[kg]	2600
including pair of specimen grips	[kg]	3200
Hydraulic power-pack	[kg]	750
Spec. ground-bearing pressure	[kg/cm ²]	5.0
Force measurement accuracy	≥ 1.2 kN class 1	
(with electrical load cell)	≥ 6 kN class 0.5	
Resolution of drive unit	[μm/impuls]	0.05
Position accuracy	[μm]	± 1

Environmental conditions

Operating temperature	[°C]	+10 ... +35
Storage temperature	[°C]	-25 ... +55
Humidity range	[%]	≤ 90%, non condensing
Elec. connection voltage	[V]	3 x 400V~/N/PE
(≤ ±10% referring to the nominal connection voltage)		
Short-time breaks	[ms]	≤ 20
Limits for permanent interference	Radio shielding grade A according to VDE 0871	
Mains frequency	[Hz]	50/60
(± 1% referring to the nominal frequency 50/60 Hz)		
Mains supply	[mm ²]	5 x 4
Fuse	[A]	20
Power supply		
with hydraulic grips	[kVA]	8.5
Color coating of load frame	RAL 7011 (iron grey) and RAL 7038 (agate grey)	
Noise level in 1m distance from the machine	[dB(A)]	< 63