

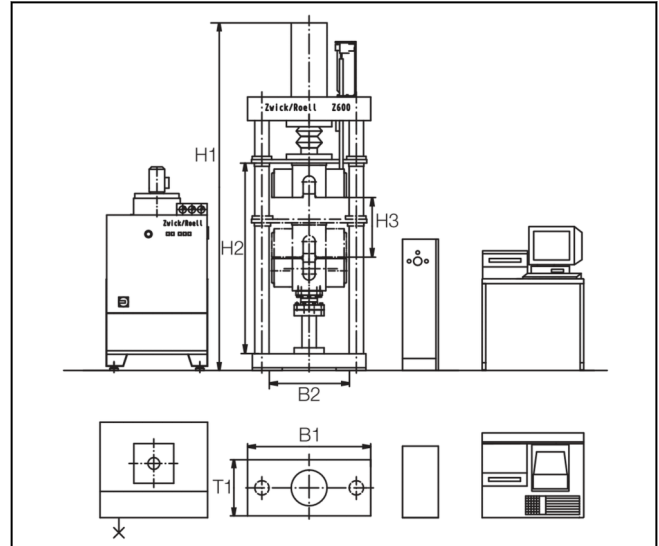
Product Information

Z600H Materials Testing Machine with Hydraulic Drive

CTA: 92305 92419



ZwickRoell Z600H with hydraulic grips



Drawing: ZwickRoell Z600H with hydraulic grips

Key benefits

- Hydraulic materials testing machines have a single central hydraulic drive (differential actuator).
- The materials testing machines are optionally equipped with an adjustable top crosshead to be able to adapt the test area to customer-specific requirements.
- The ergonomic operating height facilitates easy feeding of specimens.
- With the high resolution and channel-synchronized measurement technology, material characteristics are determined with extreme accuracy. Range-switching is not necessary as load signal resolution is available over the full range.
- Force measurement takes place via a DMS load cell and is calibrated in accordance with ISO 7500-1 in Class 0.5 and Class 1.
- The wide measurement range also allows low test loads to be determined precisely, with no need to re-equip the testing machine.
- The testing machine is set on vibration damping rubber mats. A special foundation is not necessary.

Additional advantages and features

- For standard testing with the ZwickRoell testXpert testing software, operator involvement is reduced to the push of a button.
- Modular design throughout the system allows the entire ZwickRoell accessory range to be used, including a wide variety of extensometers, specimen grips and other test fixtures.
- Should new testing requirements arise, additional test fixtures are easily installed via a T-slot or screw system.
- The materials testing machine can be tailored to customer-specific requirements (e.g. test devices, specimen grips, test speed ranges, testing software).

Product Information

Z600H Materials Testing Machine with Hydraulic Drive

Type Item No.	Z600H 358422	Z600H 358423	
Fmax	600	600	kN
Top crosshead	Fixed	Adjustable	
No. of guide columns	2	2	
Stiffness of load frame at Fmax (without specimen grips and load cell), approx.	600	600	kN/mm
Load-frame dimensions			
H1 - height	2913	max. 3213	mm
B1 - width	1030	1030	mm
T1 - depth	500	500	mm
Test area dimensions			
H1 - height	1578	max. 1878	mm
B2 - width	670	670	mm
H3 - max. stroke	500	500	
Max. test speed	250	250	mm/min
Weight			
without accessories (with electronics)	1870	1900	kg
with specimen grips	2470	2700	kg
Specific floor loading	1.5	1.5	kg/cm ²
Load cell accuracy class			
0.5 from	12	12	kN
1 from	2.4	2.4	kN
Displacement resolution of drive	0.16	0.16	µm
Positioning accuracy	± 0.01	± 0.01	mm

Description	Value	
Environmental conditions		
Operating temperature	+10 to +35	°C
Storage temperature	-25 to +55	°C
Humidity (non-condensing)	<90	%
Electrical power supply		
power supply voltage 3 Ph/N/PE	400	V
power supply frequency	50	Hz
drive rating	8.5	kVA
back-up fuse	25	A
Noise level at 1 meter distance	< 67	dB(A)
Color of housing	RAL 7011 (iron gray) and RAL7038 (agate gray)	