

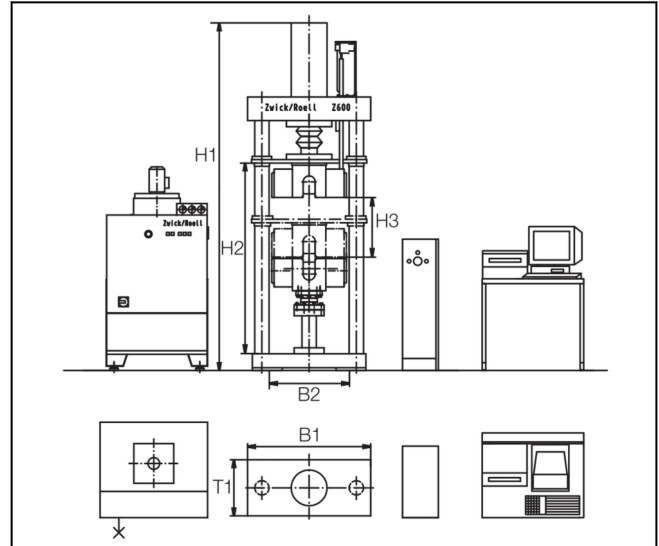
## Product Information

### 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 <sup>2</sup>
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	
<b>Environmental conditions</b>		
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)	