

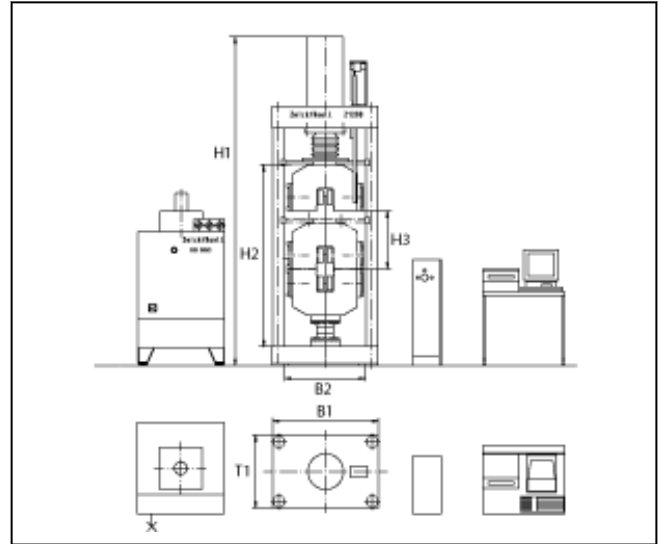
## Product Information

### Z1600H Materials Testing Machine with Hydraulic Drive

CTA: 92308 92463



ZwickRoell Z1600H with hydraulic grips



Drawing: ZwickRoell Z1600H with hydraulic grips

#### Key advantages

- These hydraulic materials testing machines have a single central hydraulic drive.
- Optionally available with an adjustable top crosshead, allowing the test area to be adapted to customers' requirements.
- High-resolution, channel-synchronized measurement technology provides extremely precise, accurate determination of material characteristic values. No range-switching is necessary as load-signal resolution is available over the whole range.
- Large measurement range also allows low test loads to be determined precisely, with no need to re-equip the testing machine.

#### Additional advantages and features

- Extremely stiff, robust load frame.
- In standard tests using Zwick's *testXpert*<sup>®</sup> testing software, operator involvement is reduced to pushing a single 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.
- Can be tailored to customers' specific requirements (e.g. test devices, specimen grips, test-speed ranges, testing software).

## Product Information

### Z1600H Materials Testing Machine with Hydraulic Drive

Type Item No.	Z1600H 010207	Z1600H 643074	
Fmax	1600	1600	kN
Top crosshead	Fixed	Adjustable	
No. of guide columns	4	4	
Stiffness of load frame at Fmax (without specimen grips and load cell), approx.	1600	1600	kN/mm
Load-frame dimensions			
H1 - height	3661	max. 4414	mm
B1 - width	1210	1210	mm
T1 - depth	1015	1015	mm
Test area dimensions			
H1 - height	2076	max. 2834	mm
B2 - width	800	800	mm
H3 - max. stroke	600	600	mm
Test speed	250	250	mm/min
Weight			
without accessories (with electronics)	5000	5900	kg
with specimen grips	7200	8100	kg
Specific floor loading	2.1	2.4	kg/cm <sup>2</sup>
Load cell accuracy class			
0.5 from	32	32	kN
1 from	6.4	6.4	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	20	kVA
back-up fuse	40	A
Noise level at 1 meter distance	67	dB(A)
Color of housing	RAL 7011 (iron gray) and RAL 7038 (agate gray)	