

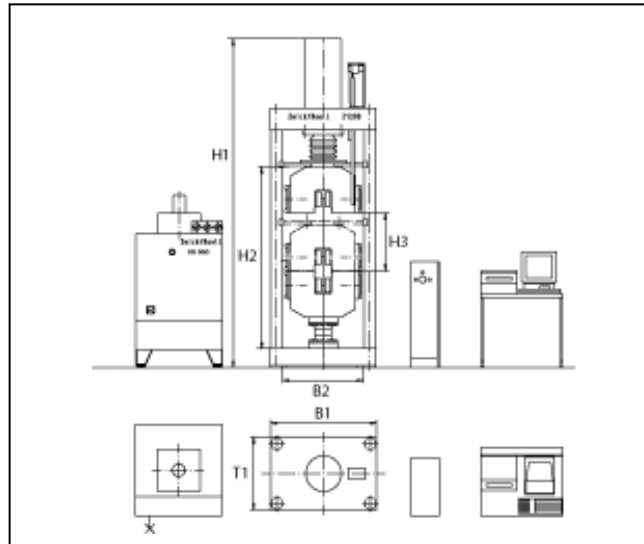
Product Information

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*[®] 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 ²
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	
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	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)	