

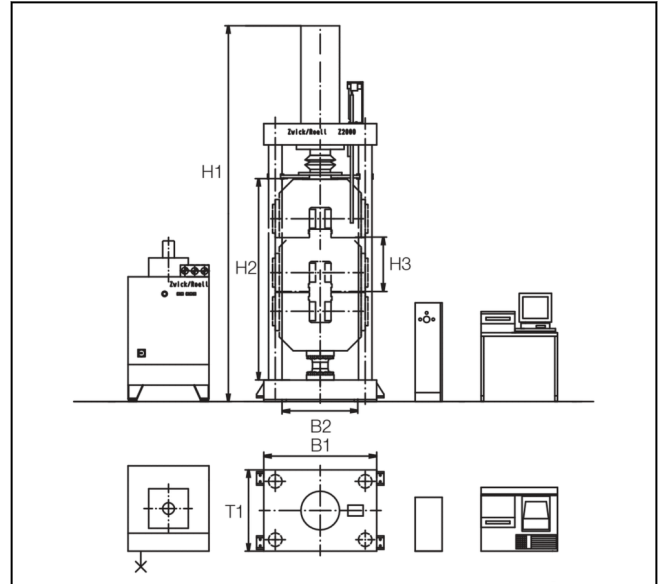
## Product Information

### Z2000H Materials Testing Machine with Hydraulic Drive

CTA: 133674 92463



ZwickRoell Z2000H with hydraulic grips



Drawing: ZwickRoell Z2000H 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

### Z2000H Materials Testing Machine with Hydraulic Drive

Type Item No.	Z2000H 358426	Z2000H 750749	
Fmax	2000	2000	kN
Top crosshead	Fixed	adjustable	
No. of guide columns	4	4	
Stiffness of load frame at Fmax (without specimen grips and load cell), approx.	2000	2000	kN/mm
Load-frame dimensions			
H1 - height	4125	max. 4600	mm
B1 - width	1255	1400	mm
T1 - depth	905	1100	mm
Test area dimensions			
H1 - height	2236	max. 2829	mm
B2 - width	850	850	mm
H3 - max. stroke	600	600	mm
Max. test speed	200	200	mm/min
Weight			
without accessories (with electronics)	7100	8500	kg
with specimen grips	10800	12200	kg
Specific floor loading	3.2	3.6	kg/cm <sup>2</sup>
Load cell accuracy class			
0.5 from	40	40	kN
1 from	8	8	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)	