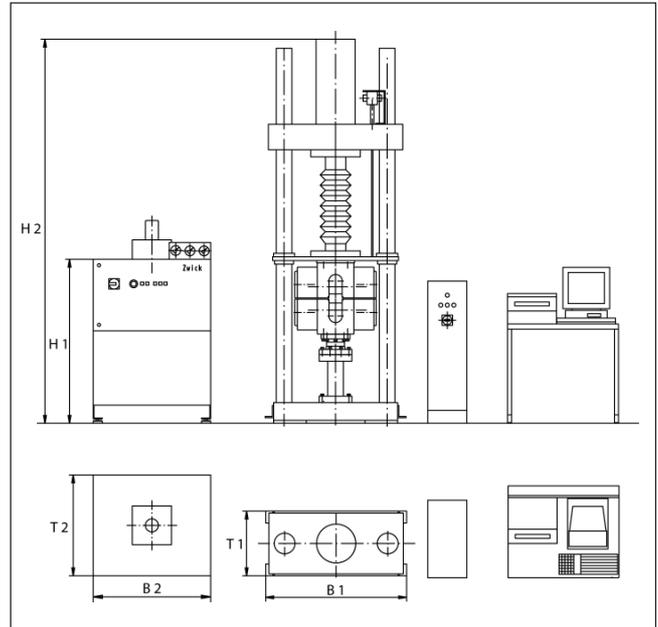


Product Information

Materials Testing Machine Z400H - 400 kN / Z600H - 600 kN



Key benefit of the Materials Testing Machine Zwick Z400H / Z600H with Hydraulic Drive

- All important functions of the set-up and testing operation for the Material Testing Machine is controlled via one central remote control.

Further advantages of the Z400H / Z600H

- Exact determination of even small forces because of a large measurement range without changing equipment.
- Especially stiff load frame.
- Exact and correct determination of the materials characteristics because of high resolution and channel synchronized measurement technology. Range changing is not necessary since the resolution of the force signal is available over the entire range.
- Standard testing with the Zwick testing software *testXpert*[®] reduces operating effort to a „one-button operation“.
- Use of the entire Zwick accessories programme because of the modular construction of the entire system, (e.g. attaching the most varied extension measurement systems, specimen grips and calibration tools using the T-slot or bolting system).
- "The customer specific machine": adaptation of the testing machine to customer specific requirements, (e.g. test area dimensions, testing units, gripping elements, testing software, test speed range), is possible at any time.

Product Information

Materials Testing Machine Z400H - 400 kN / Z600H - 600 kN

Model		Z400H	Z400H	Z600H	Z600H
Upper crosshead		Fixed	Adjustable	Fixed	Adjustable
Order-No.		BPC-F0400HN.F06	BPC-F0400HN.M06	BPC-F0600HN.F06	BPC-F0600HN.M06
Capacity (nominal force)	[kN]	400	400	600	600
Columns		2	2	2	2
Stiffness of the load frame					
at Fmax (without grips and load cell)	[mm]	≤ 1	≤ 1	≤ 1	≤ 1
Max. test stroke	[mm]	500	500	500	500
Max. test speed	[mm/min]	340	340	250	250
Dimensions of load frame					
Height H1	[mm]	2900	max. 3300	3000	max. 3600
Width B1	[mm]	1020	1020	1080	1080
Depth T1	[mm]	480	480	500	500
Width of test area	[mm]	670	670	670	670
Weight					
without grips	[kg]	1900	1950	2050	2100
with grips	[kg]	2500	2550	2650	2700
Spec. ground-bearing pressure	[kg/cm ²]	1.5	1.5	1.6	1.6
Force measurement accuracy		≥ 1.6 kN class 1	≥ 1.6 kN class 1	≥ 2.4 kN class 1	≥ 2.4 kN class 1
(with electrical load cell)		≥ 8 kN class 0.5	≥ 8 kN class 0.5	≥ 12 kN class 0.5	≥ 12 kN class 0.5
Piston measurement accuracy	[μm]	1.2	1.2	1.2	1.2
Position accuracy	[mm]	± 0.01	± 0.01	± 0.01	± 0.01

Hydraulic power-pack

Power supply	[kW]	5.5	5.5	5.5	5.5
Flow rate	[l/min]	9	9	9	9
Operating pressure	[bar]	300	300	300	300
Height H2	[mm]	1330	1330	1330	1330
Width B2	[mm]	900	900	900	900
Depth T2	[mm]	1170	1170	1170	1170
Weight	[kg]	750	750	750	750
Reservoir capacity	[l]	250	250	250	250
Revolutions per minute	[U/min]	1450	1450	1450	1450
Cooling					
air-cooling		●	●	●	●
water heat exchanger		Option	Option	Option	Option
Hydraulic fluid	Type	HLPD 46 or equivalent approved fluid			

Environmental conditions

Operating temperature	[°C]	+10 ... +35°C	+10 ... +35°C	+10 ... +35°C	+10 ... +35°C
Storage temperature	[°C]	-25 ... +55°C	-25 ... +55°C	-25 ... +55°C	-25 ... +55°C
Humidity range	[%]	≤ 90%, not condensing			
Elec. connection	[V]	3 x 400 V~/N/PE	3 x 400 V~/N/PE	3 x 400 V~/N/PE	3 x 400 V~/N/PE
Mains frequency	[Hz]	50	50	50	50
Power supply	[kVA]	8.5	8.5	8.5	8.5
Fuse	[A(t)]	25	25	25	25
Noise level in 1m distance	[dB(A)]	67	67	67	67
Color coating of load frame		RAL 7011 (iron grey) and RAL 7038 (agate grey)			
Color coating of hydraulic power-pack		RAL 7011 (iron grey) and RAL 7038 (agate grey)			