

Product Information

Technical Data of the Zwick SP1500 / SP 2000 Testing Machine

Model	SP1500.00	SP1500.01	SP2000.00	SP2000.01
Crosshead	Fixed	Adjustable	Fixed	Adjustable
Order No.	BP1-F1500SN.F11	BP1-F1500SN.M11	BP1-F2000SN.F15	BP1-F2000SN.M15
Capacity	1500 kN (337,500lb)	1500 kN (337,500 lb)	2000 kN (450,000 lb)	2000 kN (450,000 lb)
Columns	4			
Stiffness of the Loadframe at Fmax	≤1mm			
Max. Test Stroke TS	600 mm (23.6 in)	600 mm (23.6 in)	600 mm (23.6 in)	600 mm (23.6 in)
Max. Test Speed	200 mm/min (7.9 in/min)	200 mm/min (7.9 in/min)	200 mm/min (7.9 in/min)	200 mm/min (7.9 in/min)
Grip to Grip separation, GtoG	120 ..720mm (4.7...28.3 in)	0 ...1000mm (0 ... 39.4 in)	120 ..720mm (4.7...28.3 in)	0 ...1000mm (0 ... 39.4 in)
Width of Test Area WTA	850x500 mm (33.5x19.7in)	850x500 mm (33.5x19.7in)	850x500 mm (33.5x19.7in)	850x500 mm (33.5x19.7in)
Height H	4210 mm (165.7 in)	max. 4490 mm (176.8 in)	5020 mm (197.6 in)	max. 5300 mm (208.7 in)
Frame Width FW	1140 mm (44.9 in)	1140 mm (44.9 in)	1255 mm (49.4 in)	1255 mm (49.4 in)
Depth D	790 mm (31.1 in)	790 mm (31.1 in)	905 mm (35.6 in)	905 mm (35.6 in)
Weight with Grips	7600 kg (16720 lb)	8600 kg (18920 lb)	9800 kg (21560 lb)	10700kg (23540lb)
Specific ground-bearing pressure	4.6 kg/cm ²	5.2 kg/cm ²	5.9 kg/cm ²	6.4 kg/cm ²
Force Measurement Accuracy	± 1% of rdg. to 1/250 of Load Cell Capacity ± 0.5% of rdg. to 1/50 of Load Cell Capacity			
Piston measurement resolution	5µm			
Position Accuracy	± 0.01 mm			

Hydraulic Power Pack

Power Supply	11 kW	15 kW
Flow Rate	19 l/min	28 l/min
Operating pressure	300 bar	300 bar
Height	1700 mm (66.9 in)	1950 mm (76.9 in)
Width	700 mm (27.6 in)	900 mm (35.5 in)
Length	520 mm (20.5 in)	600 mm (23.7 in)
Weight	440 kg (968 lb)	600 kg (1320 lb)
Reservoir Capacity	100 l	100 l
Revolutions per minute	1000 1/min	1500 1/min
Cooling	λ	
Air-cooling	Option	
Water Heat Exchanger	Option	
Hydraulic Fluid	HLP 46 or Equivalent, Approved Fluid	

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Environmental conditions				
Operating Temperature	+10 to 35°C		+10 to 35°C	
Storage Temperature	-25 to 55°C		-25 to 55°C	
Humidity Range	≤ 90%, non condensing		≤ 90%, non condensing	
El. Connection Voltage	3 x 400V~/N/PE		3 x 400V~/N/PE	
Mains Frequency	50/60 Hz		50/60 Hz	
Power Supply	18 kVA		30 kVA	
Electrical Supply Requirements	Power Supply must be free of spikes, surges or sags exceeding 10% of the average voltage		Power Supply must be free of spikes, surges or sags exceeding 10% of the average voltage	
Colour coating of load frame hydraulic power pack	RAL 7011 (iron grey) RAL 7023 (light grey) and RAL 7011 (iron grey)		RAL 7011 (iron grey) RAL 7023 (light grey) and RAL 7011 (iron grey)	

Bending units				
Maximum specimen height, MaxSH	50 mm (2.0 in)			
Distance between supports, DbetS	30 ... 600 mm (1.2 ... 23.6 in)			
Height of supports, SuppH	100 mm (3.9 in)			
Length of bending anvil, LBA	200 mm (7.9 in)			
Diameter of bending anvil, DiaBA	50 mm (2.0 in)			
Weight of bending table	235 kg (517 lb)		270 kg (594 lb)	
Weight of the complete bending unit	382 kg (840 lb)		422 kg (928 lb)	

Compression units				
Diameter of com-pression platen, DiaCP	300 mm (11.8 in)			
Distance between com-pression platens, spheri-cally mounted 3°, DCP1	0...470mm (0 ... 18.5 in)	0 ... 750mm (0 ... 29.5 in)	0 ... 470mm (0 ... 18.5 in)	0 ... 750mm (0 ... 29.5 in)
Weight of compression platens, spherically mounted 3°	Upper set: 56 kg (123 lb), lower set: 44 kg (97 lb)		Upper set: 128 kg (282 lb), lower set: 77 kg (169 lb)	
Distance between compression platens, fixed, DCP2	0 ... 555 mm (0 ... 21.9 in)	0 ... 835mm (0 ... 32.9 in)	0 ... 355 mm (0 ... 14.0 in)	0 ... 635mm (0 ... 25.0 in)
Weight of compression platens, fixed	Upper set: 44 kg (97 lb), lower set: 44 kg (97 lb)		Upper set: 77 kg (169 lb), lower set: 77 kg (169 lb)	