

شرح فنی دستگاه تست ضربه مدل PH-750 Impact testing machine walter+bai

Item	Description	Qty
1	Charpy Impact Tester Series PH-750 Version CHV • U (Box) Frame • Charpy pendulum hammer for 600 and 750 Joule potential energy and optional for 300 and 450 Joule • Step-less setting of drop height through digital display with automatic drop-height adjustment • Low-friction bearings • C-shaped hammer(s) with low air resistance • Motorised hammer lifting system including electro-magnetic release • Electronic high-resolution angle-transducer (encoder), amplifier and interface board for PC with connecting cable • Electro-magnetic brake for the pendulum • Electro-mechanical safety release mechanism of the pendulum • Centring device for correct positioning of CHARPY V or U-notch specimens • Stops for fast and repeatable exchange of anvil block • Exchangeable anvil inserts can be used up to four times by turning them in case of wear-out • Set of anvil blocks with supports to ISO EN, ASTM, DIN, ISO-V and ISO-U specimens 55x10x10 mm • Three modes selectable: - Automatic operation for productive testing - Manual mode - Service and calibration mode • Collecting tray for tested samples • Lifting bolts for easy transport and easy installation • Reference base for easy and accurate installation of the unit. • Including accessories to bolt the impact tester on the foundation • The impact tester shall be fixed on suitable foundation. • Included operating manual Technical data: • Impact work max. 750 Joule • Drop angle steplessly adjustable 52°19' to 160° • Impact velocity 2.6 to 5.5 m/s • Increment of reading on PC-monitor 0.01 Joule • Distance between anvils 40 mm • Power requirements 230 V, 50 Hz, 1 kW • Dimensions WxDxH 2180x 930x 2245 mm • Net weight 1780 kg	

2	• Scope 1 pc.	1
	Safety Guard with Acrylic Glass	
	• Dimensions WxDxH 2180 x 930 x 2245 mm • Dimensions WxDxH (open state) 2808 x 2100 x 2245 mm • Net weight 200 kg • Scope 1 pc.	1
3	Automatic Start after Closing Door	1
4	Pendulum Hammer 600 Joule	
	• Weight 39.928 kg • Drop angle continuously adjustable 52°19' – 160° • Working range continuously adjustable 120 – 600 Joule • Impact velocity 2.6 to 5.5 m/s • Distance from turning axis to specimen 790 mm • Scope 1 pc.	1
5	Additional Weights for 750 Joule	
	• Weight (total) 49.909 kg • Drop angle continuously adjustable 52°19' – 160° • Working range continuously adjustable 150 – 750 Joule • Impact velocity 2.6 to 5.5 m/s • Distance from turning axis to specimen 790 mm • Scope 1 pc.	1
6	Pendulum Hammer 450 Joule	
	• Drop angle continuously adjustable 52°19' – 160° • Working range continuously adjustable 90 – 450 Joule • Impact velocity 2.6 to 5.5 m/s • Distance from turning axis to specimen 790 mm • Scope 1 pc.	1
7	Automatic Sample Centring Device	1
8	Self-Centring Tongs	1
	for centering Charpy V-notched specimens of 10 x 10mm cross-section between anvil inserts.	1
	Scope 1 pc	
9	Striker Charpy 2 mm According to ISO 148-2	
	• Thickness within the specimen area 14 mm • Edge angle 30°±1° • Radius of curvature 8 ± 0.05 mm • Scope 1 pc.	1
10	Support Charpy according to ISO 148-2 / ASTM E23	
	• Cross section of the specimen 10 x 10 mm • Specimen length 55 mm • Distance between anvil inserts 40 mm • Scope 2 pcs.	1
11	Charpy Support Plate 7.5 mm	

	• For undersize specimens 7.5 x 10 x 55 mm according to DIN EN ISO 148-2 / ASTM E23 • The support for a specimen with cross-section 10 x 10 mm and with 40 mm distance between the anvil inserts is precondition.	1
12	Charpy Support Plate 5 mm • For undersize specimens 5 x 10 x 55 mm according to DIN EN ISO 148-2 / ASTM E23 • The support for a specimen with cross-section 10 x 10 mm and with 40 mm distance between the anvil inserts is precondition.	1
13	Charpy Support Plate 2.5 mm • For undersize specimens 2.5 x 10 x 55 mm according to DIN EN ISO 148-2 / ASTM E23 • The support for a specimen with cross-section 10 x 10 mm and with 40 mm distance between the anvil inserts is precondition.	1
14	Set of Anvil Inserts Charpy according to ISO 148-2/ASTM E23 • Free angle 0° • Relieve cut 11° • Radius of curvature 1 mm • Scope 2 pcs.	1
15	Software packages • Software Package DIONIMPACT for rapid and productive testing and specialised evaluation • Intuitive software for easy operation • Initialization procedure to compensate friction and windage • Creation of test series • Data management through database • Data acquisition via angle encoder • Automatic data storage • Calculation of absorbed energy (J) in Joule, Impact Strength (J/mm²) and statistical evaluation of minimum / maximum / average value and standard deviation • Data export and test report are provided with graphics like absorbed energy and energy allocation • Software available in English, German, French, Czech, Italian and Russian	1
16	Desktop PC, Windows 11 • Model HP EliteDesk 800 G6-Tower • Processor Intel Core i7-10800 • Base frequency 2.9 GHz • RAM 8 GB DDR4 • SSD hard drive 256 GB M.2 2280 PCIe • SATA hard drive 1TB 7200RPM	

	• Set of Certified Specimens Super High Energy, 2 mm Striker ○ Striker radius 2 mm (KV2) ○ Energy 160 – 200+ Joule ○ No. of specimen per set 5 • Set of Certified Specimens Low Energy, 8 mm Striker ○ Striker radius 8 mm (KV8) ○ Energy 15 – 39 Joule ○ No. of specimen per set 5 • Set of Certified Specimens Medium Energy, 8 mm Striker ○ Striker radius 8 mm (KV8) ○ Energy 40 – 99 Joule ○ No. of specimen per set 5 • Set of Certified Specimens High Energy, 8 mm Striker ○ Striker radius 8 mm (KV8) ○ Energy 100 – 159 Joule ○ No. of specimen per set 5 • Set of Certified Specimens Super High Energy, 8 mm Striker ○ Striker radius 8 mm (KV8) ○ Energy 160 – 200+ Joule ○ No. of specimen per set 5	2 2 2 2
22	Temperature Chamber CharpyTemp 480 • Temperature Range -80°C to +30°C • Temperature Control Stability +/- 0.1°C • Bath Volume 4 litres • Sample Rack for 65 samples (stacked) • Cooling Liquid Included • Dimensions (WxDxH) 330 x 650 x 490 mm • Chamber W x H 165 x 184 mm • Weight 42 kg • Cooling liquid not included	1
23	Special Fixture for Sample Holders	1
24	Sample Holder (1 pc.)	1

SPARE PARTS:

Item	Description	Qty
1	Striker Charpy 2 mm According to ISO 148-2 • Thickness within the specimen area 14 mm • Edge angle $30^{\circ} \pm 1^{\circ}$ • Radius of curvature 2 mm • Scope 1 pc.	1
2	Striker Charpy 8 mm According to ASTM E23 • Thickness within the specimen area 14 ± 4 mm • Edge angle $30^{\circ} \pm 1^{\circ}$ • Radius of curvature 8 ± 0.05 mm • Scope 1 pc.	1
3	Set of Anvil Inserts Charpy according to ISO 148-2/ASTM E23 • Free angle 0° • Relieve cut 11° • Radius of curvature 1 mm • Scope 2 pcs.	1