

Data Sheet

ETM 1 - ETM 5



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ETM 1 and ETM 5 bench type double column version with compact design.

- > Best solution for the operator who needs a small force but the stability of double column frame.
- > Wide range of test accessories allows to meets test requirements of different standards and for different materials.
- > ETM series is suitable to test: metals, reinforced plastics, wires, textiles, small components, adhesive materials, etc.



Model		ETM 1	ETM 5			
Load cell						
Load capacity	kN	1	5			
Load capacity	kgf	100	500			
Calibration standard	-	ISO	7500			
Accuracy grade	%					
Testing load accuracy	%	0.5 of reading				
Deformation accuracy	%	0.5 01	reading			
Displacement accuracy	%					
Force range	FS	0.2%	-100%			
Force resolution	FS	1/50	0000			
Force accuracy	%	0.5 of	reading			
Controller						
Sampling frequency	Hz	Up to	1000			
Closed loop control frequency	Hz	Up to 1000				
Resolution	bit	20				
Software						
Software	-	echoTe	estPilot			
Crosshead						
Position resolution	μm	0.027				
Crosshead speed	mm/min	0.001-500				
Crosshead speed accuracy	%	±1.0/±0.5 of set speed				
Crosshead travel (without grip)	mm	1000				
Main frame						
Frame type	-	Bench top double column				
Test width	mm	420				
Fixture adapter	mm	ø20				
Grip pin	mm	ø10				
Motor power	kW	0.4				
Power supply	V-Hz-ph		0/60-1			
Dimensions	mm		70x1520			
Weight	kg	1	50			



Accessories				
Mechanical w	edge action tensile grips			
Model	Description	Max. force applied	Grip pin	Application
	·	max. force applied	Onp pin	Аррисации
JW310B	Grip body			For metal and non-metal specimen
JW310F1	Tensile grip for flat specimens 0-20mm	10kN	ø10mm	
JW310R1	Tensile grip for round specimens ø4-9mm			
JW310R2	Tensile grip for round specimens ø9-14mm			
JW120B	Grip body		ø10mm	For metal and non-metal specimen
JW120F1	Tensile grip for flat specimens 0-6mm			
JW120F2 JW120F3	Tensile grip for flat specimens 6-12mm	20kN		
JW120F3 JW120R1	Tensile grip for file specimens 0-6mm Tensile grip for round specimens ø4-9mm			
JW120R1 JW120R2	Tensile grip for round specimens ø4-5mm Tensile grip for round specimens ø9-14mm			
JW130B	Grip body			
JW130F1	Tensile grip for flat specimens 0-7mm			For metal and non-metal specimen
JW130F2	Tensile grip for flat specimens 7-14mm			
JW130F3	Tensile grip for file specimens 14-21mm	30kN	ø10mm	
JW130R1	Tensile grip for round specimens ø4-9mm			
JW130R2	Tensile grip for round specimens ø9-14mm			
JW130R3	Tensile grip for round specimens ø14-19mm			
Pneumatic ter				
Model	Description	Max. force applied	Grip pin	Application
PNJ3001	Tensile grip for sample diameter ≤1mm	500N	ø10mm	For low force test of non-metal specimen
PNJ3002	Tensile grip for sample diameter ≤1mm (nylon cord)	500N	ø10mm	For nylon cord
D1110000	Tensile grip with clamping width ≤25mm	====	40	For low force test of non-metal specimen For low force test of non-metal specimen
PNJ3003	Sample thickness ≤6.5mm, no liner	500N	ø10mm	
D1110005	Tensile grip with clamping width ≤30mm	=0011		
PNJ3005	Sample thickness ≤4mm, with liner	500N	ø10mm	
DN 12040	Tensile grip with clamping width ≤150mm	41-51	ø10mm	For low force test of non-metal specimen
PNJ3010	Sample thickness ≤7mm, no liner	1kN		
PNJ3004	Tensile grip with clamping width ≤25mm	1kN	ø10mm	For law force to at of the property of the state of
F1NJ3004	Sample thickness ≤6.5mm, no liner	IKIN	ØTOITIII	For low force test of non-metal specimen
PNJ3006	Tensile grip for sample diameter ≤3mm	2kN	ø10mm	For low force test of non-metal specimen
PNJ3008	Tensile grip jaw 25x50mm	2kN	ø10mm	For low force test of non-metal specimen
11400000	Sample thickness ≤9mm with liner	ZMV	Ø TOTTITI	1 of low lorde test of flori-flictal specificin
PNJ3009	Tensile grip for sample diameter ≤3mm	3kN	ø10mm	For low force test of non-metal specimen
PNJ3011	Tensile grip for flat specimens 0-4mm	3kN	ø10mm	For glass fiber specimen
PNJ3007	Tensile grip for flat specimens 0-10mm, width 50mm	5kN	ø10mm	For low force test of non-metal specimen
PNJ3012	Tensile grip with rubber coated jaw 25.4X25.4mm	10kN	ø10mm ø10mm ø10mm	For textile tensile test For textile tensile test For textile tensile test
	Sample thickness ≤14mm			
PNJ3013	Tensile grip with rubber coated jaw 50.8x76.2mm	10kN		
	Sample thickness ≤14mm			
PNJ3014	Tensile grip with diamond jaw 25.4x25.8mm	10kN		
	Sample thickness ≤14mm			
PNJ3015	Tensile grip with diamond jaw 25.4x70mm Sample thickness ≤14mm	10kN	ø10mm	For textile tensile test
Compression				
Model	Description	Max. force applied	Grip pin	Application
CP1200	Platen ø100mm	20kN	ø10mm	For compression test
CP1201	Platen ø200mm	20kN	ø10mm	For compression test



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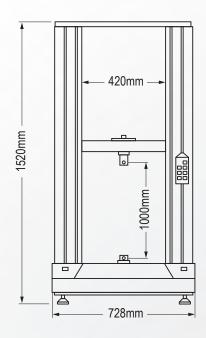
Bending fixtur	Bending fixtures			
Model	Description	Max. force applied	Grip pin	Application
BD2002	Bending nose R5mm		ø10mm	For bending test
	Support roller R2mm	40111		
	Maximum span 160mm, adjustable	10kN		
	3-point bending, support roller exchangeable			
	Bending nose R3mm		ø10mm	For bending test
BD2003	Upper span 110mm adjustable	10kN		
DD2003	Lower span maximum 220mm adjustable	TUKIN		
	4-point bending, support roller fixed			
	Bending nose R5mm		ø10mm	For bending test
BD2004	Support roller R2mm	20kN		
DDZ004	Maximum span 200mm, adjustable	ZORIY		
	3-point bending, support roller exchangeable			
	Bending nose R5mm			
	Support roller R2mm			For bending test
BD2005	Maximum span 200mm, adjustable	20kN	ø10mm	
	3-point bending, support roller exchangeable			
	Micrometer included			
Lever grips				
Model	Description	Max. force applied	Grip pin	Application
LVG021	Lever grip with clamping width <22mm	2kN	ø10mm	For rubber tensile test
LVG021	Max. opening 10mm	ZNIN		
LVG022	Lever grip with clamping width <40mm	2kN	ø10mm	For rubber tensile test
LVOUZZ	Max. opening 7mm	ZRIV		
LVG023	Lever grip with clamping width <40mm	5kN	ø10mm	For rubber tensile test
LV 0023	Max. opening 12mm			
Peeling grips				
Model	Description	Max. force applied	Grip pin	Application
PLG971	Grip for stainless steel composite pipe ID-OD 12-16; 16-20; 20-25; 26-32; 33-40	2kN	ø10mm	For stainless steel compopsite pipe peeling test
PLG972	Grip for metal bond sample width <20mm	3kN	ø10mm	For metal bond specimen 90° peeling test
Vice grips				
Model	Description	Max. force applied	Grip pin	Application
VG3201	Sample thickness ≤8mm			For plastic and film tensile and peeling test
	Vice grip with clamping width <32mm	500N	ø10mm	
V02000	Sample thickness ≤13.5mm	41M	ø10mm	For wire, foil, film, fiber, rubber tensile test
VG3202	Vice grip with clamping width <25mm	1kN		
VC3203	Sample thickness ≤12mm	ELAI	ø10mm	For sheet metal, fiber, plastic, rubber tensile test
VG3203	Vice grip with clamping width <70mm	5kN		

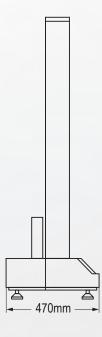


Wire, cord tensile grips				
Model	Description	Max. force applied	Grip pin	Application
CWG021	Wire grip for sample diameter ≤1mm	500N	ø10mm	For wire tensile test
CWG022	Wire grip for sample diameter ≤0.5mm	500N	ø10mm	For wire tensile test
CWG023	Wire grip for sample diameter ≤1.5mm	2kN	ø10mm	For wire tensile test
CWG024	Wire grip for sample diameter ≤1.5mm	5kN	ø10mm	For wire tensile test
Other special grips are available on request				

Computer System		
Computer System	ECHOCS01	Computer
	ECHOCS02	Monitor
	ECHOCS03	Color printer
	ECHOCS04	Mouse
	ECHOCS05	Keyboard

Optional acce	ssories
01ETM002	Front protection shield







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