







TEST One more thinking No more mistake Enjoy working together

TESTONE is specialized in manufacturing tester. We have developed new products through continuous technology development with technicians with more than 20 years experience.



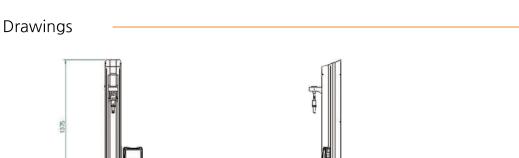
Mechanical Universal Testing Machine

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Universal Testing Machine

Feature

- It is a single column model that can be tested under 5 kN.
- UNITEST M1 is widely used for testing materials such as films, rubber, fibers, medical devices, biomaterials, and wires, etc.
- The main feature of the UNITEST M1 is that it requires a small footprint.





MODEL		UNITEST M1
Max Load Capacity	kN	5
Load Accuracy	%	± 0.5
Column Type		Single Column
Vertical Test Space	mm	730
Crosshead Speed	mm/min	0.01 ~ 500
Return Speed	mm/min	500
Load Resolution		1/50,000
Controller		Touch Type Servo Controller (Position Control Type)
Control Accuracy	%	± 0.1
Driving System		Ball Screw & Linear Guide Type
Driving Motor		AC Servo Motor & Driver (Japan)
Auto Function		Auto Start · End · Return System
Test Category		Tensile, Tear, Peel, Compression, Bending, Repeat, etc.
Safety Device		Emergency Stop, Over Load, Up-Down Limit (Proximity Sensor Type
	Width (mm)	478
Dimensions	Depth (mm)	650
	Height (mm)	1375
Net Weight	kg (Approx.)	80
Power	Hz	AC 220V 2P, 50/60



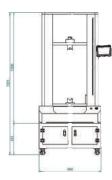
Universal Testing Machine unitestMD

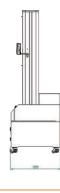
Feature

- This is a twin column model that can be tested at a maximum of 10 kN.
- UNITEST MD is widely used for testing materials such as plastics, composites and metals, etc.
- UNITEST MD is useful in tests where the vertical travel distance is greater than a single column.
- UNITEST MD is an environment chamber mountable model that can be tested under various environmental conditions.



Drawings







MODEL		UNITEST MD
Max Load Capacity	kN	10
Load Accuracy	%	± 0.5
Column Type		Twin Column
Vertical Test Space	mm	940
Crosshead Speed	mm/min	0.01 ~ 500
Return Speed	mm/min	500
Load Resolution	ר	1/50,000
Controller		Touch Type Servo Controller (Position Control Type)
Control Accuracy	%	± 0.1
Driving System		Ball Screw & Linear Guide Type
Driving Motor		AC Servo Motor & Driver (Japan)
Auto Function		Auto Start · End · Return System
Test Category		Tensile, Tear, Peel, Compression, Bending, Repeat, etc.
Safety Device		Emergency Stop, Over Load, Up-Down Limit (Proximity Sensor Type)
	Width (mm)	840
Dimensions	Depth (mm)	665
	Height (mm)	1500
Net Weight	kg (Approx.)	200
Power	Hz	AC 220V 2P, 50/60
Bottom Desk (W x D x H)	mm	840 x 665 x 430

Feature

unitest

- This is a twin column model that can be tested at a maximum of 300 kN.
- UNITEST M2 is widely used for testing materials of high strength such as metals, alloys, advanced and composite materials, etc.
- UNITEST M2 is designed with a robust frame for testing up to 300 kN.
- UNITEST M2 is an environment chamber mountable model that can be tested under various environmental conditions.



Drawings







MOD	EL	UNITEST M2-2	UNITEST M2-5	UNITEST M2-10	UNITEST M2-20	UNITEST M2-30
Max Load Capacity	kN	20	50	100	200	300
Load Accuracy	%			± 0.5		
Column	Туре			Twin Column		
Vertical Test Space	mm	1,350	1,100	1,100	1,100	1,100
Crosshead Speed	mm/min	0.01 ~ 500	0.01 ~ 500	0.01 ~ 300	0.01 ~ 300	0.01 ~ 300
Return Speed	mm/min	500	500	300	300	300
Load Res	olution			1/50,000		
Contro	oller		Touch Type Ser	rvo Controller (Positio	n Control Type)	
Control Accuracy	%		± 0.1			
Driving S	System		Ball	Screw & Linear Guide	Туре	
Driving I	Motor	2	AC Se	ervo Motor & Driver (J	apan)	
Auto Fu	nction	Auto Start · End · Return System				
Test Cat	egory		Tensile, Tear, Pe	el, Compression, Bend	ling, Repeat, etc.	
Safety D	evice	Er	nergency Stop, Up-Do	own Limit (Proximity S	Sensor Type), Over Lo	ad
	Width (mm)	850	840	900	1305	1305
Dimensions	Depth (mm)	700	700	800	935	935
	Height (mm)	2280	1990	2060	2560	2560
Net Weight	kg (Approx.)	360	360	580	2050	2050
Power	Hz	AC220V, 2P, 50/60	AC220V, 2P, 50/60	AC220V, 3P, 50/60	AC220V, 3P, 50/60	AC220V, 3P, 50/6

Universal Testing Machine unitest H Series

Feature

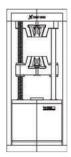
• One-touch valve is applied to this UTM, so test operation is easy

and the test speed can be adjusted freely.

• The structure of the tester is divided into a load section and a control section.



Drawings







MC	DEL		UNITEST H-30	UNITEST H-50	UNITEST H-100	UNITEST H-200
Max Load Capa	icity	kN	300	500	1000	2000
1.1.1		kN	30 · 100	50 · 100	100 · 200	200 · 500
Range 4-Ste	_	KIN	200 · 300	200 · 500	500 · 1000	1000 · 2000
Nalige 4 Ste	þ	1 Div (kN)	0.003 · 0.01	0.005 · 0.01	0.01 · 0.02	0.02 · 0.05
		T DIV (KIN)	0.02 · 0.03	0.02 · 0.05	0.05 · 0.1	0.1 · 0.2
	Max Ten	isile Distance (mm)	600	600	600	600
	Grip Fo	r Round Bar (mm)	Ø8 ~ Ø25	Ø8 ~ Ø25	Ø8 ~ Ø40	Ø10 ~ Ø40
Tensile Test	GlipTo		Ø25 ~ Ø40	Ø25 ~ Ø60	Ø40 ~ Ø70	Ø40 ~ Ø80
Tensile Test			0~15	0~15	0 ~ 45	0~50
	Grip Fo	or Plate Bar (mm)	15 ~ 30	15 ~ 40	45 ~ 65	50 ~ 70
			Wide : 60	Wide : 60	Wide : 70	Wide : 90
ompression Test	Tes	t Stroke (mm)	0 ~ 600	0 ~ 600	0 ~ 600	0 ~ 600
Simplession rest	Dia	a Plate (mm)	Ø120	Ø160	Ø160	Ø200
	Bendin	ng Distance (mm)	450	450	450	500
Transverse &	Punch	h Tips Redius (r)	16	25	25	25
Bending Test	Punc	ch Width (mm)	160	160	160	160
	Ro	ller Diameter	Ø30	Ø50	0 ~ 45	0 ~ 50
Table Size		mm	800 x 560	840 x 580	905 x 600	1040 x 720
Colume To Colu	ume	mm	560	610	610	740
Max Ram Stro	ke	mm	200	200	200	200
Test Speed		mm/min	0.01 ~ 100	0.01 ~ 100	0.01 ~ 100	0.01 ~ 100
Crosshead Spe	ed	mm/min	400	400	400	400
Crosshead Motor		otor	Gearedmotor	1/40, 0.4 kW	Gearedmotor	1/30, 0.75 kW
Control Valve		/e		Hydraulic S	ervo Valve	
Load Sensor			Load			
Stroke Sensor		or		Rotary I	Encoder	
	Control			Load Control, Stroke	Control, Strain Control	
Hydraulic Pump Ca	-	сс	2	2.7	4.4	7
Net Weight		kg (Approx.)	2,200	2,500	3,000	4,500
Dimension (W x I	D x H)	mm	2200 x 800 x 2000	2200 x 850 x 2200	2400 x 850 x 2400	2600 x 1000 x 270

uni test sw

SOFTWARE

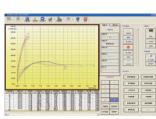
Feature

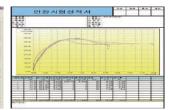
- This is the software for UTM, You can select tension, compression, bending, peeling, repetition, retention test, etc. on the initial screen.
- The result analysis function makes it easy to find not only strength and elongation but also elasticity, yield point and average load.
- Unit conversion, data retrieval and correction, can be freely set to convert to Excel is convenient to use.
- Language: Korean, English

Screen Shot









Initial Screen

- Sample Setting Screen
- Results Analysis Screen

Test Report Screen

OPTIONS CHAMBER

EXTENSOMETER

Feature

- By controlling the temperature, it is possible
 Extensometer Type
 to create various test environments and reliability test
 Encorder Type
 of materials and products is possible.
 Strain Gauge Type
- You can set the temperature range by consultation. (Temperature Range : 190℃ ~ 1,000℃)

Sample Images





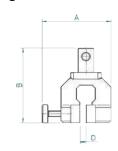






JIGS **FILM GRIP**

Drawings

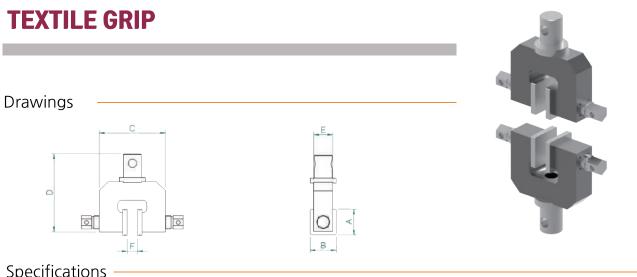






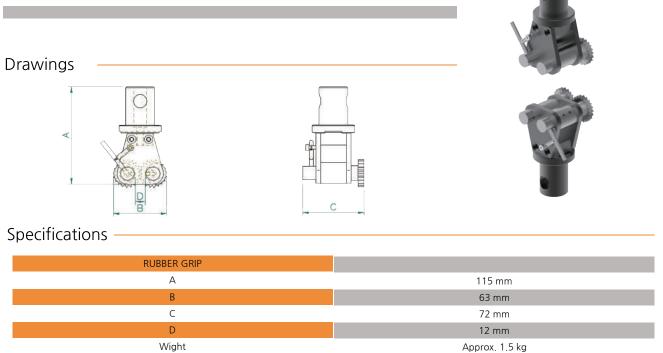
Specifications

107 mm
116 mm
30 mm
9 mm
32 x 28 mm
Approx. 400 g



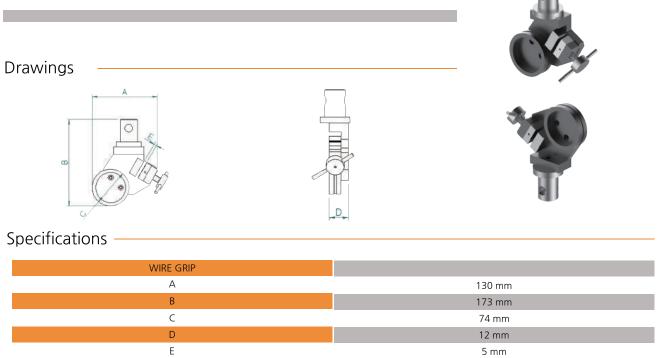
TEXTILE GRIP	Strip Method	Grab Method	Tongue Method
A		50 mm	
В	50 mm		
С	125 mm		
D	148 mm		
E	36 mm		
F	20 mm		
JAW Size (W x D)	50 x 50 mm	25 x 25 mm / 25 x 50 mm	25.4 x 76 mm
Weight	Approx, 400 g		

RUBBER GRIP



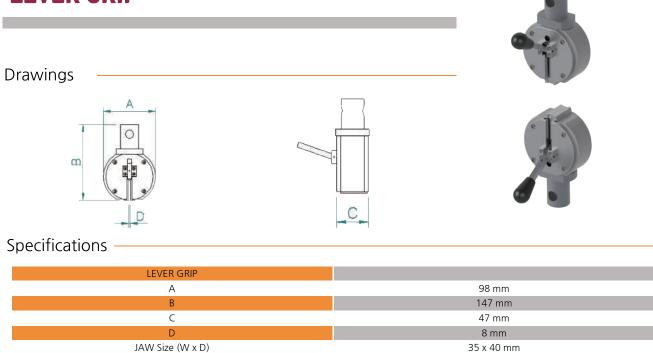


Weight



Approx. 2 kg

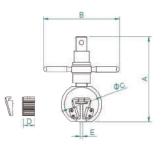
LEVER GRIP



WEDGE ACTION GRIP

Weight

Drawings



Specifications

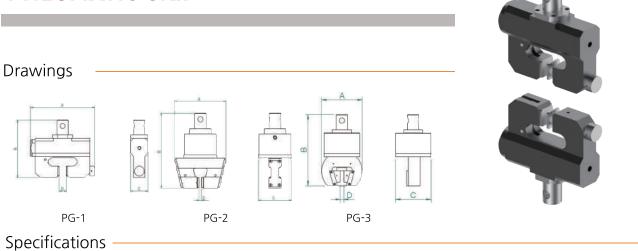
WEDGE ACTION GRIP	WA-1	WA-2	WA-3	WA-4
Load Capacity	1 ~ 3 tonf	5 tonf	10 tonf	20 tonf
А	220 mm	271 mm	290 mm	360 mm
В	195 mm	249 mm	284 mm	292 mm
С	120 mm	149 mm	178 mm	236 mm
D	40 mm	50 mm	50 mm	50 mm
E	10 mm	12 mm	16 mm	16 mm
Grip Range (Flat / Round Bar)	9 mm / Ø 6 - 13 mm	12 mm / Ø 8 - 16 mm	15 mm / Ø 12 - 20 mm	15 mm / Ø 12 - 25 mm
Weight	Approx. 7 kg	Approx. 10 kg	Approx. 14 kg	Approx. 20 kg



Approx. 3 kg

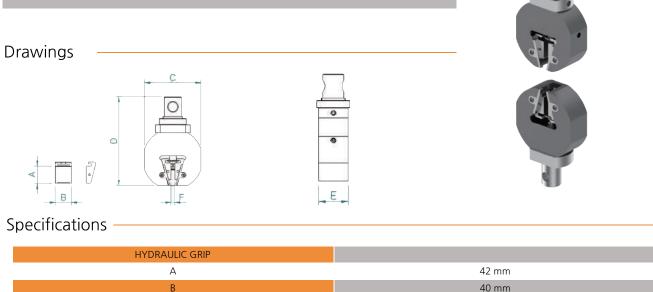
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PNEUMATIC GRIP



PNEUMATIC GRIP	PG-1	PG-2	PG-3
Max. Capacity	50 kgf	100 kgf	200 kgf
А	195 mm	146 mm	120 mm
В	175 mm	215.5 mm	210 mm
С	52 mm	95 mm	105 mm
D	20 mm	7 mm	10 mm
JAW Size (W x D)	30 x 30 mm	35 x 30 mm	30 x 35 mm
Weight	Approx. 2.5 kg	Approx. 3 kg	Approx. 3 kg
Pressure	6 bar	6 bar	6 bar

HYDRAULIC GRIP

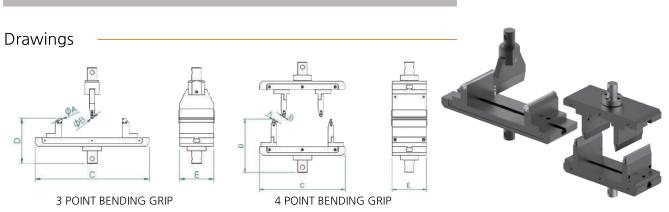


А	42 mm
В	40 mm
С	140 mm
D	220 mm
E	60 mm
F	8.5 mm
Weight	Approx. 5 kg

COMPRESSION GRIP Drawings Image: Im

BENDING GRIP

Weight



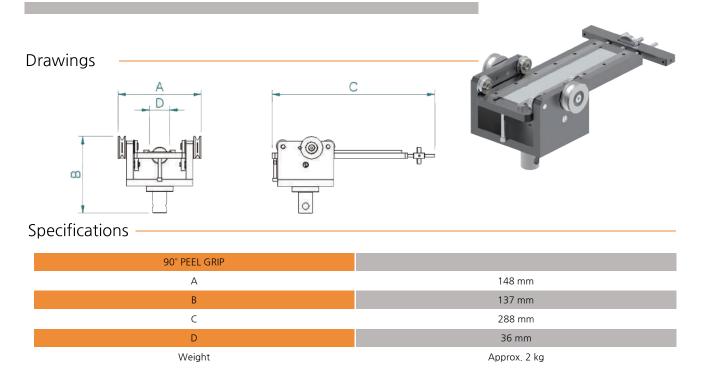
Specifications

BENDING GRIP	3 POINT BENDING GRIP	4 POINT BENDING GRIP
А	10 mm	10 mm
В	10 mm	10 mm
С	300 mm	300 mm
D	150 mm	190 mm
E	120 mm	120 mm
Weight	Approx. 6 kg	Approx. 9 kg

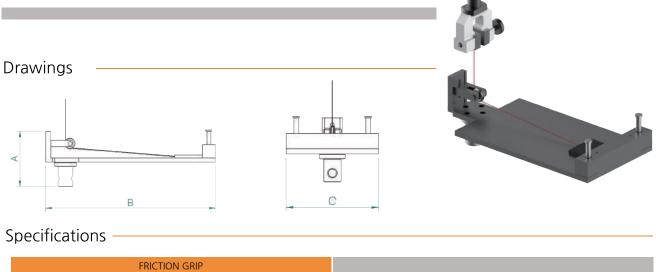
Approx. 3.5 kg



90° PEEL GRIP



FRICTION GRIP



А	125 mm
В	385 mm
C	180 mm
Weight Size (W x D)	63.5 x 63.5 mm
Weight	Approx. 3 kg

ORDER-MADE GRIP

