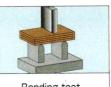
Bench Type Simple Tester

MODEL-1309

Capacity: 1000N (100 kgf) Force - Displacement







Bending test

A small stand for force-displacement measurement dedicated to RX Series. With a displacement resolution of 0.1mm, this stand is suitable for long-stroke tensile/compression tests. A

> force-displacement FS curve can be drawn on a PC screen by the dedicated software for effective data management.

124 295 ÖÖÖÖ 86 19.5 300

Standard Specificat

Max. force	1000N (100Kgf)
Force display	Depending on RX Series
Test speed	10 to 300 mm/min.
Speed changing	LO: 10mm/min.
	MD: 100mm/min.
	HI: 200mm/min. Intended setting is available.
	VR: 10 to 300mm/min.
Stroke	400mm
Displacement display (Resolution)	0.1mm
Displacement display (Max. display)	±400mm
Table size	295 x 175mm
Weight	Approx. 35Kg
Size	W300 x H850 x D340mm
Power supply	100 to 120VAC/200 to 240VAC

Standard Configuration

Tester:MODEL-1309

Application software for MODEL-1309:

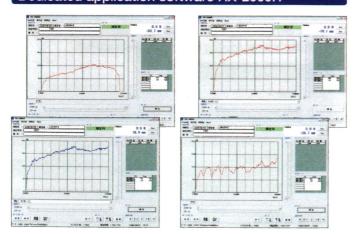
RX-2009H

Cable for connecting RX Series: RX-OP-8

RS232C cable

Dedicated application software RX-2009H

*RX Series is optional.



*This software is compatible with Windows 7 & Japanese OS.

Major functions

Item	Desc	ription	
Data association	Real time force/displacement acquisition, graph drawing		
Data acquisition	Data save/batch save	Dedicated format/CSV format	
Data file processing	Data load/batch load	Dedicated format	
Graph overlap display	Number of registration	100	
	Graph cut sheet print	Cut sheet horizontal: 1graph	
	Graph continuous print	Cut sheet horizontal: 1graph	
Drinting		Cut sheet vertical: 2graphs	
Printing		Cut sheet horizontal: 4graphs	
		Cut sheet vertical: 8graphs	
	Pick up registered data		
Pick up registered data	Number of registration	100/measurement	
Measurement list	Representative value detection	Force max./min./average	
display	All measurements processing	Force max./min./average	
Graph data list display	Time/displacement/force data values		
Stand control	Stand start/stop during test		
USB serial conversion	I-O DATA: RSAQ6 (Recommended/option)		

Desk-top type Testers

MODEL-1308U







Grip mounting plate MODEL-OJ-P-90

(Needed when using the tensile test jig.)

A long-stroke automatic test stand dedicated to RZ Series & SX Series. This is a reasonable test stand that is suitable for tests of specimens of large size and long test stroke. When used together with RZ Series or SX Series, such operations are possible as overload monitoring and automatic stop and reversing when the load set in RZ Series or SX Series is reached. For combining this stand with RZ Series or SX Series, please use an optionally available RZ-OP-1/RZ-OP-2 for RZ Series or SX-OP-1 for SX Series.

Standard Specifications

Max. force	1000N (100 kgf)
Test speed	5 to 100 mm/mir
Speed changing	Continuous
Stroke	400 mm
Displacement display	None
Distance between test center & column	60 mm
Table size	W250 x D140 mm
Sample table size	W120 x D90 mm, center: M6
Drive motor	DC brushless motor
Driving mechanism	Trapezoidal screw
Driving mechanism guide system	Linear ball bush
Weight	Approx.20 kg
Size	W255 x H810 x D300 mm
Power supply	100 to 240 VAC, single-phase, 0.5 A



*Digital force gage is optional.

MODEL-1349

The MODEL-1349 is a lever type Stand exclusively designed for compression tests. The gage mounting unit is moved down with the lever.

Standard Specifications

Max. force	500 N (50 kgf)
Stroke	43mm/140 degrees
Table size	180 x 100 mm
Max. span	210 mm
Weight	Approx.9kg
Size	W200 x H435 x D235 mm



*Digital force gage is optional.

MODEL-1345

The MODEL-1345 is a manual test stand. The gage mounting head is moved up and down by rotating the handle.

Standard Specifications

Max. force	500 N (50 kgf)	
Stroke	43mm (1.75 mm/rotation)	
Table size	180 x 100 mm	
Max. span	210 mm	
Weight	Approx.9kg	
Size	W200 x H435 x D235 mm	

The MODEL-2252R employs a motor-driven gage mount, which moves to the right and left. Zstage may be adjusted vertically. The work mount table has slotted holes for adjusting the jig position back and forth.

MODEL-2252R



*Digital force gage is optional.

The state of the s	
Max. force	500 N (50 kgf)
Test speed	10 to 80 mm/min.
Speed changing	In five steps or continuous
Stroke	150 mm
Displacement display	None
Z stage stroke	Adjustable with 40 mm
Distance between test center & Z-axis plane	39 to 79 mm
Table size	W100 x D100 mm
Driving mechanism	Trapezoidal screw
Drive motor	DC brushless motor
Weight	Approx.23 kg
Size	W518 x H228 x D345 mm
Power supply	100 to 240 VAC, single-phase, 0.5 A

Wire Harness Withdrawal Force Tester



*Digital force gage is optional.

The MODEL-2254 is a manual test stand for measuring the caulking strength of wire harnesses and so forth. The work mounting head is moved with a lever. Using the AIKOH RZ Series digital gages provides various functions, including data printing and storage in personal computers. The RZ Series digital gages are optional. The MODEL-2254 is supplied with a set of gages jigs.

Standard Specifications

Max. force	500 N (50 kgf)
Stroke	70mm
Chuck width	0 to 10 mm
Weight	Approx.15kg
Size	W525 x H150 x D200 mm

Vertical & Horizontal Manual Stand



A vertical and horizontal manual handle type small stand dedicated to RZ Series and SX Series. Capable of measurement up to 500N. The gage mounting part can be moved by turning the handle.

Standard Specifications

Max. force	500 N (50 kgf)	
Moving distance	3 mm/handle rotation	
Stroke	240 mm	
Weight (Vertical)	Approx.16kg	
(Horizontal)	Approx.12kg	
Size	W200 x H500 x D150 mm (including handle)	

Vertical & Horizontal Motorized Stand

MODEL-2257



*Digital force gage is optional.

A vertical and horizontal small automatic stand dedicated to RZ Series and SX Series. This is a reasonable test stand that is suitable for tests of specimens of small size and short test stroke. When used together with RZ Series or SX Series, such operations are possible as overload monitoring and automatic stop and reversing when the load set in RZ Series or SX Series is reached. For combining this stand with RZ Series or SX Series, please use an optionally available RZ-OP-1/RZ-OP-1 for RZ Series or SX-OP-1 for SX Series.

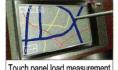
Standard Specifications (vertical type)

Max. force	500 N (50 kgf)
Test speed	10 to 200 mm/min.
Speed changing	Continuous
Stroke	150 mm
Displacement display	None
Distance between test center & column	49 mm
Table size	W200 x D120 mm
Drive motor	DC brushless motor
Driving mechanism	Trapezoidal screw
Driving mechanism guide system	Sliding contact
Weight	Approx.20 kg
Size	W215 x H380 x D235 mm
Power source	100 to 240 VAC, single-phase, 0.5 A

Small Size Desk Top Force Tester

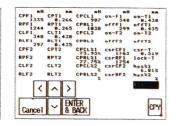
MODEL-1305VC

Capacity: 200 N (20 kgf) Force - Displacement





Touch panel load measurement



This is a small force tester designed for compression and tensile force tests up to 200N.It consists of a main unit and MODEL-1016C amplifier and is capable of testing feeling of such switches as tact switches and rubber switches by using an optionally available CF card V-103A. When using CF card (V-103A)

Standard Specifications

Max. force	200N(20kgf)
Test speed	2 to 60mm/min.
Speed changing	In five steps or continuous
Stroke	150mm
Displacement display	Provided
Detector	Linear gauge
Display resolution	0.001mm
Display accuracy	0.05mm
Max. display value	30.000mm
Distance between test center & column	77mm
Table size	W330×D150mm
Drive motor	DC brushless motor
Driving mechanism	Trapezoidal screw
Driving mechanism guide system	Linear ball bush
Weight	Approx.32kg
Size	W340×H580×D430mm
Power supply	100 to 240 VAC, single-phase, 0.5A

Measurement point

	Setting
Peak Advance value	(CPF)ForceN • (CPT)Displacement mm
Bottom Advance value	(CLF)ForceN • (CLT)Displacement mm
Peak Return value	(RPF)ForceN • (RPT)Displacement mm
Bottom Return value	(PLF)ForceN • (RLT)Displacement mm
Force difference	CPF-CLF or CPF-RLF
Click rate	(CPF-CLF)/CPFx100 or (CPF-RLF)/CPFx100
Contact ON	ForceN • Displacement mm
Contact OFF	ForceN • Displacement mm
Cursor position	ForceN · Displacement mm

On/Off Point Detector

For detecting On/Off points of silicon rubber switches

MODEL-0219



Input range	1, 10 & 100 kΩ (Selectable ranges)	
Setting device	10-rotation helical potentiomeler with 500 even division scale	
Setting accuracy	±0.5% in each resista	ance range (including non-linearity & hysteresis)
Output	(1) Analog voltage	0 to 10V in each resistance range,load resistance:10kΩ
	(2) Monitor lamp	Red LED (Lit below set value.)
	(3) Open collector	Withstand voltage:35V max, suction current:50mA max.
		ON voltage:1.5V max.
Response	ON: 0.5 mS or less - Until open collector output goes on after lowering below set value	
delay time	OFF: 2mS or less - Until turning off open collector output after exceeding set value	
Temp.setting	0 to 40°C, no dew condensation	
Power supply	12 VDC (including 9 to 16.5 V ripples), 300 mA	
Size	140W×45.5H×140Dmm(including projections),approx.450g(not including AC adapter)	

Precision force tester

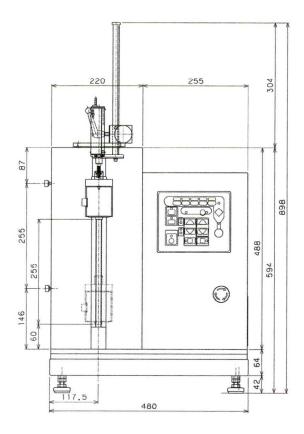
MODEL-1605VC / MODEL-1605VCL

Capacity: 500N (50Kgf)
Precison force-Displacement









* Jigs are not included. (Optional)

MODEL-1605 Series are highly versatile force testers capable of high precision tests. These testers can perform force-displacement tests under various conditions. They are equipped with such functions as detailed motion setting required for various force tests and pickup data management. They are suitable for testing connector mating/unmating, metal characteristics and penetration.

Standard Specifications

Model	1605VC	1605VCL	
Max. force	500N	(50Kgf)	
Test speed	0.5 to 60	00mm/min.	
Speed changing	In fifteen step	s or continuous	
Stroke	250	0mm	
Displacement display	Pro	vided	
Detector	Rotary encoder Linear gaug		
Display resolution	0.01mm	0.001mm	
Display accuracy	0.05mm		
Max. display value	±250.00mm (When using linear of		
Distance between test center & column	100	Omm	
Table size	W475 x D150mm M10x1.5		
Driving mechanism	Ball	screw	
Drive motor	Servo motor		
Weight	Approx. 50Kg		
Size	W480 x H578 x D375mm W480 x H882 x D		
Power supply	100 to 240VAC, single-phase, 5A		

Standard Configuration

MODEL-1605VC Tester: MODEL-1605VC

Measuring amplifier: MODEL-1016C Load cell: 1pc (Up to 500N)

MODEL-1605VCL Tester: MODEL-1605VCL

Measuring amplifier: MODEL-1016C

Load cell: 1pc (Up to 500N)

Linear gauge: 1pc

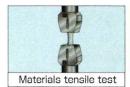
Desk-top type Force Tester

FTN 1-13A

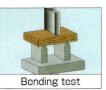
Capacity: 500N/2kN (50Kgf/200Kgf) Force-Displacement

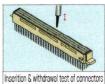


*Jigs are not included. (Optional)









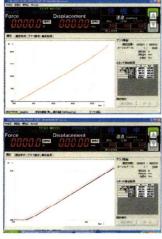
This is an integrated force tester with a built-in amplifier for the compression and tensile force tests up to 2kN (200Kgf).

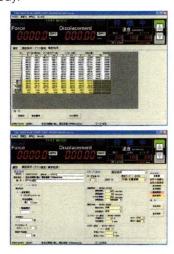
Two measurement speeds are available according to the load cell capacity (300mm/min. for 500N, and 125mm/min. for 2kN).

A rotary encoder is provided for displacement detection.

7-segment LEDs are in use for data display.

A software program is provided as the standard for easy tester operarion and result output. Test conditions can easily be set by anybody.





Features

- The max. allowable test force is 2kN regardless of its compact size.
- Two measuring speeds 5 to 300 mm/min. (500N) and 5 to 125 mm/min. (2kN) are provided
- Compression, tension and breakdown tests are possible.
- The resolution is high at 0.1N for the force test and 0.01mm for the displacement.
- The power supply is 100VAC to 240VAC for worldwide uses.
- Simply operable personal computer software is provided as the standard.
- The load cell allows 3-ch calibration. (Optional feature)

Standard Specifications

Item		FTN1-13A		
Max. force		500N (50Kgf)	2kN (200Kgf)	
Max. speed	range	5 to 300mm/min.	5 to 125 mm/min.	
Moving speed	d range (inching & return)	5 to 300mm/min.		
Speed resolution		0.1mm/min.		
Resolution Force 5000display		4-digit display		
	2000display	4-digit or 5-digit displa	у	
	1000display	4-digit or 5-digit displa	у	
	Displacement	0.01mm		
Accuracy	Force	3000 Series: ±0.2% F.S./UP Series: ±0.3% F.S		
Displacement		±0.2mm		
Driving block	Motor type	Stepping motor		
	Motor control system	Pulse		
Applicable lo	ad cell	UP Series & 3000 Series (Up to 2kN)		
Detector		Rotary encoder		
Input/output	Digital input/output	USB (For connecting to external PC)		
	Analog input/output	Force (±10V/10bits)		
Table size		Approx. 174 x 200mm		
Emergency stop		Installation on main body, driving block power of		
Outside dime	nsions	W300 x H820 x D400mm		
Weight		Approx. 40Kg		
Power supply		100 to 240VAC, single-phase, 3A		

Performances

Item	FTN1-13A		
Measurement start trigger	Force/Displacement (LV setting available)		
Comparator	Force (Return/Stop, with a setting)		
	Displacement (Return/Stop, with a setting)		
Automatic zero	Upon receiving measurement start trigger		
Manual zero return	Zero resetting by key operation		
Breakdown	Breaking position detection (Detection sensitivity settable)		
Automatic return	Comparator/hardware limit (with speed setting)		
Data detection	Measurement positive peak detection (Force/displacement)		
	Measurement negative peak detection (Force/displacement)		
	Turn-back point (Force/displacement)		
	Measurement start point (trigger position) (Force/displacement)		
Automatic repetition of measurement	1 to 999999 times		
Real-time data output	Digital data output		

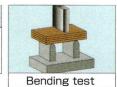
Softwares

MODEL	FTN-3000	FTN-3001	
	(Packed version)	(Full spec version)	
Computer	DOS/V compliant IBM/PC compatible		
Operation system (OS)	WindowsXP Professional Service Pack2, Pack3 or later		

Precison force tester

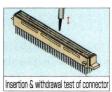
MODEL-1310VC Series

Capacity: 2kN (200Kgf) Force-Displacement

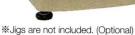


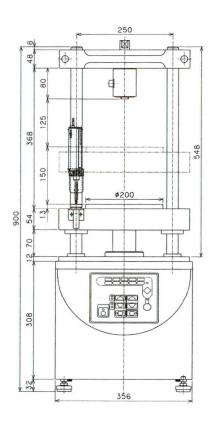












Standard Configuration

MODEL-1310VC

Tester: MODEL-1310VC

Measuring amplifier: MODEL-1016C

Load cell: 1pc (Up to 2kN)

MODEL-1310VCW (Wide range) Tester: MODEL-1310VCW

Measuring amplifier: MODEL-1016C

Load cell: 1pc (Up to 2kN)

MODEL-1311VC

Tester: MODEL-1311VC

Measuring amplifier: MODEL-1016C

Load cell: 1pc (Up to 2kN)

MODEL-1311VCW (Wide range)

Tester: MODEL-1311VCW

Measuring amplifier: MODEL-1016C

Load cell: 1pc (Up to 2kN)

These are all-round desktop type precision force testers for force and displacement measurements up to 2kN (200Kgf). When combined with MODEL-1016C amplifier, they can measure two-point data of force-displacement and breaking force-displacement.

A force-displacement graph is shown on an LCD panel in real time.

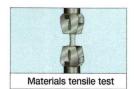
The two-column type is highly rigid, which makes these testers suitable for highly precise testing.

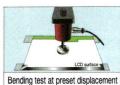
Model	1310VC	1310VCW (Wide range)	1311VC	1311VCW (Wide range)		
Max. force	-	2kN (200	OKgf)	<u> </u>		
Test speed	5 to 125mm/min.	0.2 to 250mm/min.	5 to 125mm/min.	0.2 to 250mm/min.		
Speed changing	In five steps or continuous					
Stroke		150mm				
Displacement display		Provid	led			
Detector	Rotary enco	oder	Linear	gauge		
Display resolution	0.01mm		0.00	0.001mm		
Display accuracy	0.1mm		0.05mm			
Max. display value	±150.00mm		±30.000mm (Using linear gauge)			
Column length	548mm					
Column interval	250mm					
Table size		φ200mm CenterM10 x 1.5				
Driving mechanism		Ball scr	rew			
Drive motor	DC brushless motor Servo motor DC brushless motor		Servo motor			
Weight	Approx. 41Kg					
Size	W356 x H900 x D314mm					
Power supply	100 to 240VAC, single-phase, 1A					

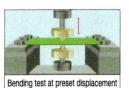
Large Size Precision Force Testers

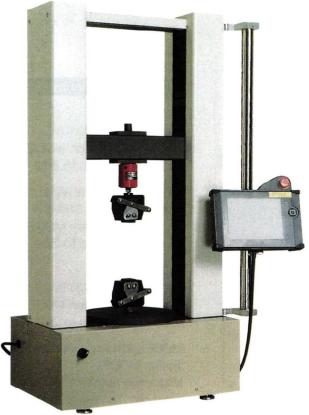
MODEL-1840VCT

Capacity: 2 to 50 kN (200 to 5000 kgf) Force - Displacement











*Jigs are not included. (Optional)

The MODEL-1840VCT is a large-size precision force tester designed for compression and tensile force tests up to 200 to 5000Kgf (2 to 50kN). The test speed and control system conditions may be set on a touch panel.

In combination with the MODEL-1016C amplifier, the basic testparameters including the travel distance, repetition frequency and so forth may be set on the amplifier screen and measurement results are displayed on a LCD.

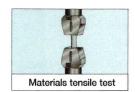
The stroke may be extended and the pitch of columns may be changed according to test sample sizes of customers.

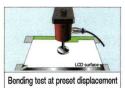
Model	1840VCT/200	1840VCT/500	1840VCT/1000	1840VCT/2000	1840VCT/5000	
Max. force	2kN (200Kgf)	5kN (500Kgf)	10kN (1000Kgf)	20kN (2000Kgf)	50kN (5000Kgf)	
Test speed	0.1 to 600	mm/min.	0.1 to 30	00mm/min.	0.1 to 250mm/min.	
Speed changing			Free setting			
Stroke	700 m	700 mm 1000 mm		950 mm		
Displacement display			Provided			
Detector			Rotary encoder			
Display resolution	· · · · · · · · · · · · · · · · · · ·	0.01 mm				
Display accuracy		0.1 mm				
Max. display	±700.00	±700.00 mm ±1000.00 mm ±950.00 mm			0.00 mm	
Column interval	350 mm 400 m				400 mm	
Table size					□290 mm M20 x 1.5	
Drive motor		Servo motor				
Driving mechanism		Ball screw				
Driving mechanism guide		Linear ball bush				
Size	W600xH1340xE	0580 mm	W600xH1714xD580 mm	W630xH1685xD610 mm	W720xH1714xD540 mm	
Weight	Approx.175kg	Approx.185kg	Approx.210kg	Approx.290kg	Approx.390kg	
Power supply	100VAC, single-phase, 5A	100VAC, s	ingle-phase, 10A	200VAC, single-phase, 10A	200VAC, three-phase, 10A	

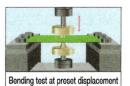
Large Size Precision Force Testers

MODEL-1840VC

Capacity: 2 to 50 kN (200 to 5000 kgf) Force - Displacement











*Jigs are not included. (Optional)

The MODEL-1840VC is a large-size precision force tester designed for compression and tensile force tests up to 200 to 5000Kgf (2 to 50kN). In combination with the MODEL-1016C amplifier, it displays measurement results on a LCD.

It employs a ball screw feeding mechanism and a servo motor for stable and wide-range test speed.

The stroke may be extended and the pitch of columns may be changed according to test sample sizes of customers.

Model	1840VC/200	1840VC/500	1840VC/1000	1840VC/2000	1840VC/5000	
Max. force	2kN (200Kgf)	5kN (500Kgf)	10kN (1000Kgf)	20kN (2000Kgf)	50kN (5000Kgf)	
Test speed	1 to 600 n	nm/min.	1 to 300) mm/min.	1 to 250 mm/min.	
Speed changing		In five steps or continuous				
Stroke	700 m	nm	1000 mm	950 mm		
Displacement display		Provided				
Detector			Rotary encoder			
Display resolution		0.01 mm				
Display accuracy		0.1 mm				
Max. display	±700.00 mm				0.00 mm	
Column interval	350 mm 400 mm				400 mm	
Table size	300 mm dia., center M20 x 1.5			□290 mm M20 x 1.5		
Drive motor		Servo motor				
Driving mechanism		Ball screw				
Driving mechanism guide		Linear ball bush				
Size	W600 x H1340 x	W600 x H1340 x D400 mm W600 x H1714 x D400 mm			W720 x H1714 x D540 mm	
Weight	Approx.160 kg	Approx.170 kg	Approx.190 kg	W630 x H1655 x D410 mm Approx.270 kg	Approx.350 kg	
Power supply	100VAC, single-phase, 5A	100VAC, si	ngle-phase, 10A	200VAC, single-phase, 10A	200VAC, three-phase, 10A	

Large Size Desk Top Type Force Testers

MODEL-1320VC/1321VC

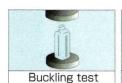
Capacity: 10kN (1000 kgf)

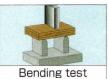
MODEL-1322VC/1323VC

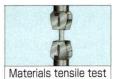
Capacity: 5kN (500 kgf)

MODEL-1324VC/1325VC

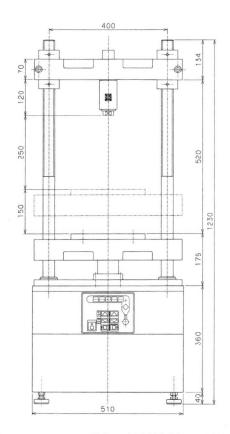
Capacity: 20kN (2000 kgf)











These models are large size testers designed for compression and tensile force tests up to 500 to 2000Kgf (5 to 20kN). They use the MODEL-1016C amplifier and display the measurement results on LCD panels.

They are available in force measurement only types and force-displacement measurement types, six types in all, whose measurement force are 500Kgf, 1000Kgf and 2000Kgf.

With large test stands, 800mm long columns, and 360mm column interval, these are suitable to measurement of large parts. The components and specifications may be changed according to test sample sizes of customers.

Model	1320VC	1321VC	1322VC	1323VC	1324VC	1325VC
Max.force	10 KN	(1000 kgf)	5 kN	I (500 kgf)	20 KN	(2000 kgf)
Test speed		2 to 60 n	nm/min.		2 to 40 mm/min.	
Speed changing			In five step	os or continuous		
Stroke			15	50mm		
Displacement display	None	Provided	None	Provided	None	Provided
Detector		Rotary encoder		Rotary encoder	_	Rotary encoder
Display resolution		0.01mm		0.01mm		0.01mm
Display accuracy		0.1mm		0.1mm		0.1mm
Column length	800mm					
Column interval	360mm					
Table size	250 mm dia., center M20 x 1.5					
Drive motor	DC brushless motor					
Driving mechanism		Ball screw				
Driving mechanism guide	Sliding contact					
Weight	Approx. 120 kg					
Size	510 W x 1220 H x 400 D mm					
Power supply	100 to 240 VAC, single-phase, 5 A					

Horizontal Force Tester

MODEL-2152VCE

Capacity: 500N (50 kgf) Force -Displacement



Standard Specifications

Max. force	500N (50 kgf)
Test speed	10 to 80 mm/min.
Speed changing	In five steps or continuous
Stroke	150 mm
Displacement display	Provided
Detector	Rotary encoder
Display resolution	0.01 mm
Display accuracy	0.1 mm
Z-axis stroke	40 mm
Distance between test center & Z-axis plane	77.5 to 117.5 mm
Table size	W100 × D100 mm
Drive motor	DC brushless motor
Driving mechanism	Trapezoidal screw
Driving mechanism guide	Linear ball bush
Weight	Approx.23kg
Size	W518 × H314 × D345 mm
Power supply	100 to 240 VAC,0.5A

The MODEL-2152VCE is a horizontal force tester designed for compression and tensile force tests up to 50 kgf (500 N) as well as breaking tests and force -displacement correlation measurement of various electronic parts. It uses the Model-1016C amplifier and displays the measurement results on a LCD panel.

Standard Configuration

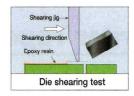
- Tester: MODEL-2152VCE
- Measuring amplifier MODEL-1016C
- Load cell:1pc

Small Size Electronic Parts Strength Evaluation Tester (IC Strength Tester)

MODEL-2252RDH

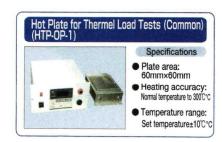


The MODEL-2252RDH is designed to measure the adhesion strength of electronic parts mounted on horizontal boards. The sample fixing position may be adjusted in the Z direction. The digital force gage RZ-20 is mounted on the force measuring side and the shearing jig is mounted at the top. It is also possible to mount the hot plate (HTP-OP-1)on the sample fixing side. The force measuring unit of this tester moves to the right and left. It stores measured data, which may be printed or read in a PC.



Standard Specifications

200N(20kgf)
10 to 80 mm/min.
In five steps or continuous
150 mm
None
40 mm
39 to 79 mm
W90 × D90 mm
DC brushless motor
Trapezoidal screw
Linear ball bush
Approx.23kg
W518 x H228 x D345 mm
100 to 240 VAC, single-phase, 0.5A



Standard Configuration

- Tester: MODEL-2252RDH
- RZ-20:1pc
- Shearing jig:1pc (2mm,4mm or 8mm)

Options

- Hot Plate
- Printer

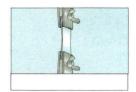
Small Size Separation Evaluation Tester

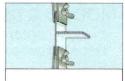
MODEL-1308UH

Capacity: 200N (20 kgf)



%The digital force gage is not included (optional)

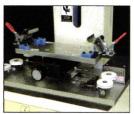




The MODEL-1308UH employs a motor-driven gage mounting head, which moves up and down. The gage mounting head may be returned automatically by the action of a limit switch after completion of a test. The MODEL-1308UH offers other various functions, including data output function. Refer to the catalogs of the RZ series digital force gages. Use our various jigs and accessories to extend the confines of tests. Refer to the pages of jigs and grips.

Standard Specifications

Max. force	200 N (20 kgf)
Test speed	10 to 300 mm/min.
Stroke	400 mm
Table size	150 x 140 mm
Weight	Approx. 20 kg
Size	W255 x H810 x D300 mm
Power supply	100 to 240 VAC, single-phase 0.5A



90° separation test jig (Option installed)

Applicable Tests

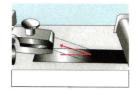
Separation tests at 90° and 180° (JIS-C 6481) Various breakdown tests Various non-destructive evaluation tests of parts Penetration elasticity tests of fruits, etc. Stress relief measurements of foods Shearing tests Bending tests

Embossed Carrier Tape Separation Tester

MODEL-2165P

Separation force: 5N (500 gf)





The MODEL-2165P measures adhesion of various types of tapes. It conforms to the JIS and EIAJ Standards. The results can be saved in a PC using the dedicated software. (This software is compatible with WindowsXP & JapaneseOS.)

Separation force	5 N (500 gf)	
Resolution	0.001 N (0.1 gf)	
Separation angle	165 to 180 degrees(with five scales)	
Separation speed	50, 100, 200, 300 & 400 mm/min.	
Effective length	400 mm	
Applicable length	88 mm	
Weight	Approx. 16.5 kg	
Size	W630 x H300 x D260 mm	
Power supply	100 VAC / 220 VAC, 1A	

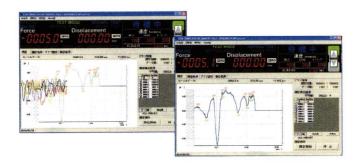
FTN4-15A

Capacity: 50 N (5 kgf) Force - Displacement



This is a low priced adhesion tester based on FTN1 - 13A with only the mechanism changed. The maximum test speed has been increased to 1000 mm/min to meet needs of high-speed tests. In addition, a jig for 90-degree peeling that meets testing in accordance with JIS Z 0237 and software FTN-2008P dedicated to adhesion test are also available.







Standard Specifications

Max. force		50 N (5 kgf)				
Test speed range Moving speed range Speed resolution		5 to 1000 mm/min. 5 to 1000 mm/min. (inching & return) 0.1 mm/min.				
				Resolution Force		0.01 N (50.00)
					Displacement	0.01 mm
Accuracy	Force	3000 Series: ±0.2% F.S.				
		UP Series: ±0.3% F.S.				
	Displacement	±0.5 mm				
Effective stroke		100 mm/min. (with 90-degree peeling jig installed				
Drive unit		Stepping motor				
Applicable loa	d cell	UP, M-3000 Series				
Detector		Rotary encoder (2000 P/R)				
Input/output	Digital input/output	USB (for connection to external PC)				
	Analog input/output	Force (±10V)				
Weight		Apporx. 35 kg				
Size		W300 x D400 x H820 mm				
Power supply		100 to 240 VAC, Single-phase, 3A				

Optional jig

Applicable standard	JIS Z 0237	
Peeling method	90-degree peeling	
Movable range (stroke)	100 mm (Standard: 85 mm)	
Peeling point synchronizing method	Moving amount synchronization with wire & pulley	
Test plate	50 x 125 x T2 or larger, SUS 304 (Surface roughness specified)	
Specimen size	25 x 250	
Safety measure	Safety cover on with & pulley and other areas	

Software

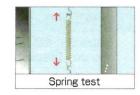
Name	FTN-2008P
Function	Display of results, calculation (required numeric values, max.,
	average, etc.), save, F-S graph display (real time, results, save data)

- · Peak/bottom automatic acquisition: 50 maximum
- · Peak/bottom display method: In the order of time or peak values
- · Processing of multiple samples: (Simplified statistics)
- Set point measuring function: (JIS compatible)
- · This software is compatible with WindowsXP & JapaneseOS.

Touch Panel Type Spring Testers

MODEL-SHRIISeries

SHRIII-1	Capacity:10 N(1 kgf)
SHRII-5	Capacity:50 N(5 kgf)
SHRIII-10	Capacity:100 N(10 kgf)
SHRII-50	Capacity:500 N(50 kgf)





The MODEL-SHR II Series testers are the newest type high-performance spring testers. Their advanced functions facilitate various measurement item setting and input point setting, which have been very troublesome. The user only has to follow instructions displayed on the screen to input various items and may register a maximum of 100 work numbers. The screen provides real-time display of measured data and dispersion distribution bar graphs. It is possible to set a maximum of ten each measurement stages for both the normal spring tests and length measurement according to preset loads.

Outline of SHRII Type Spring Tester

Test options	Tensile test & compression test		
Screen display	Test data, totalization function, work No. registration (100 Nos.), & dispersion distribution bar graph		
Unit options	Kgf (N, lb)		
Operation options	Load measurement acc. to set length, measurement acc, to set Max. number of measurement stages: Ten Max. stop time in each stage: 999.9 sec.		
Input type for each stage setting	Teaching input, ten-key pad input, & step input		
Printing function	Automatic, manual, Note input printing, & hard copy		
Tolerance setting	Two types selectable: ± and %		
Touch panel	5.7 TFT color LCD		

Performances

Length resolution	0.01mm	
Variable speed	1 to 600 mm/min.	
Automatic distortion correction	Corrects rigid distortion automatically	
Automatic origin setting function	Displays the data where the origin was set last	
Force resolution	1/100000 max.	
External connection	USB port	
Protective functions	Overload stop function, & emergency stop button	

Item	SHR II-1	SHR III-5	SHR II-10	SHR III-50	
N force capability	10 N (1kgf)	50 N (5kgf)	100 N (10kgf)	500 N (50kgf)	
N minimum reading	0.0001 N (0.01gf)	0.001 N (0.1gf)	0.001 N (0.1gf)	0.01 N (1gf)	
Unit of measurement	kgf (N, lb, inch for length measurement)				
Test speed	1 to 600 mm/min.				
Max. measurable length	225 mm				
Min. length reading	0.01 mm				
Compression plate diameter	60 mm dia.				
Hook for tensile test	1 stage 2 stages				
Weight	Approx. 45kg				
Size	W450 x H565 x D345 mm				
Power supply	100 to 240 VAC				

Torque Angle Testers

MODEL-5125VC/VCW (Wide range)

Capacity: 5N · m (0.5Kgf · m) Torque-Angle



MODEL-5125VCT

Capacity: 5N · m (0.5Kgf · cm) Torque-Angle



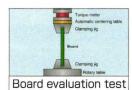


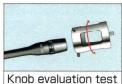


These are designed for complicated evaluation tests of various electronic, mechanical and other parts, including the torque angle tests, sliding torque tests, repetitive reducing torque measurement and so forth. The table in lower position rotates. The span from the work is adjusted with the torque meter mount in upper position, which is moved up and down manually. Select the proper torque meter and jig of the torque suitable to measurement. Test data and test waveform are displayed on the screen. In repetitive tests, waveforms are overwritten and displayed on the screen. Data are stored in the amplifier and printed.

Standard Specifications

Model	5125VC	5125VCW (Wide range)	
Max. output torque	5N · m (0.5Kgf · m)		
Test speed	0.2 to 6RPM 0.1 to 20RPM		
Speed changing	In five steps of	or continuous	
Angle setting	0 to 340° or continuous		
Displacement display	Provided		
Detector	Rotary encoder		
Display resolution	0.1 degree		
Display accuracy	1 degree		
Z-axis stroke	210 mm		
Distance between rotational center & column	110 mm		
Table size	150 mm dia.		
Driving mechanism	Ball speed reducer		
Drive motor	DC brushless Servo motor		
Weight	Approx. 55Kg		
Size	W350 x H767 x D475 mm		
Power supply	100 to 240VAC, single-phase, 0.5A 100 to 240VAC, single-phase		





The MODEL-5125VCT designed for complicated evaluation tests of various electronic, mechanical and other parts, including the torque angle tests, sliding torque tests, repetitive reducing torque measurement and so forth. Various test conditions may be set on a touch panel. The table in lower position rotates. The span from the work is adjusted with the torque meter mount in upper position, which is moved up and down manually. Select the proper torque meter and jig of the torque suitable to measurement. Test data and test waveform are displayed on the screen. In repetitive tests, waveforms are overwritten and displayed on the screen. Data are stored in the amplifier and printed.

Max. output torque	5N • m (0.5Kgf • cm)	
Test speed	0.1 to 20RPM	
Speed changing	Free setting	
Angle setting	0 to 340° or continuous	
Displacement display	Provided	
Detector	Rotary encoder	
Display resolution	0.1 degree	
Display accuracy	1 degree	

Z-axis stroke	210 mm	
Distance between rotational center & column	110 mm	
Table size	150 mm dia.	
Driving mechanism	Ball speed reducer	
Drive motor	Servo motor	
Weight	Approx. 55Kg	
Size	W350 x H767 x D475mm	
Power supply	100VAC, single-phase, 3A	

Torque Angle Testers

MODEL-5401VC-50/200

Capacity: 5N · m/20N · m $(0.5Kgf \cdot m/2Kgf \cdot m)$ Torque-Angle









The MODEL-5401VC-50 and MODEL-5401VC-200 are capable of torque angle measurement up to 340degrees. Samples are fixed in the lower positions, and the torque meter in the upper positions rotate. The optional X-Y tables or jigs are installed on the sample measuring side. Attaching the automatic centering table to the torque meter enables smooth adjustment of the torque meter center to the work center. This function is convenient for samples that may not be rotated.

Standard Specifications

Model	5401VC-50	5401VC-200		
Max. output torque	5N • m (0.5Kgf • m)	20N • m (2Kgf • m)		
Test speed	0.2 to	0.2 to 1RPM		
Angle setting	0 to 34	0 degree		
Displacement display	Pro	vided		
Detector	Rotary	encoder		
Display resolution	0.10	0.1 degree		
Display accuracy	1 degree			
Z-axis stroke	140 mm			
Distance between rotational center & column	120 mm			
Table size	W350 x D320 mm			
Driving mechanism	Pully transmise	Pully transmission mechanism		
Drive motor	DC brushless motor			
Weight	Approx. 60Kg			
Size	W490 x H742 x D480 mm			
Power supply	100VAC, single-phase, 0.5A	100VAC, single-phase, 1A		

Large Size Torque Tester

MODEL-5127VC/500-5000

Capacity: 50N · m to 500N · m (500kgf · cm to 5000Kgf · cm) Torque-Angle



The MODEL-5127VC Series are designed to measure correlation of the torque angles of large automobile parts, electronic parts and so forth. Jigs or chucks are set on rotary tables in lower positions. Spans from works are adjusted with the cross head in upper positions, which are moved up and down by motors. Torque meters is fixed to the cross head. The MODEL-5127VC Series employ the MODEL-1016C amplifier for versatile evaluation tests of parts, including general torque breaking tests, repetitive durability evaluation tests and so forth.

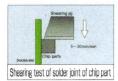
Model	5127VC/500	5127VC/2000	5127VC/5000	
Max. output torque	500Kgf • cm	2000Kgf • cm	5000Kgf • cm	
Torque display	±500.0Kgf • cm	±2000Kgf • cm	±5000Kgf • cm	
Load table rotation speed	0.05 to 2RPM			
Rotation accuracy	±0.5%			
Rotational angle display & setting	±0 to 10000.0 degree			
Table size	200 mm dia. 250 mm d		250 mm dia.	
Detector	Rotary encoder			
Motor	Servo motor			
Weight	Approx.350Kg Approx.400Kg A		Approx.700Kg	
Size	W900 × H2300 × D600 mm			
Power supply	200VAC, three-phase			

JIS-Rated Lead Free Solder Tester

MODEL-1605 VC/NF

Capacity: 50 N (5 kgf) Force - Displacement







The MODEL-1605 VC/NF is a precision tester designed for lead-free solder tests of boards with parts in conformance to JIS Z 3196-6 and JIS Z 3198-7. Jigs are replaced according to the test conditions. The pull point and shearing point are adjusted with the X-Y table. Measured data are stored in the Model-1016C amplifier and may be printed out or loaded into a PC after completion of measurement.

Standard Specifications

Max. force	50 N (5 kgf)					
Test speed	0.5 to 600 mm/min.					
Stroke	250 mm					
Displacement display	Provided					
Detector	Rotary encoder					
Display resolution	0.01 mm					
Display accuracy	0.1 mm					
Displacement reading	10 μm (Standard) 1 μm (Option)					
Table size	W475 x D150 mm, M10 x 1.5					
Driving mechanism	Servo motor Approx. 50 kg					
Drive motor						
Weigh						
Size	W480 x H578 X D375 mm					
Power supply	100 to 240 VAC, single-phase, 5A					

Standard Configuration

- ■Tester: MODEL-1605VC
 ■Amplifier: MODEL-1016C
 ■Load cell: MODEL-3005 (5 kgf)
 ■Jig (Full set): M-500 FS
- Applicable Tests

45° pull test of QFP lead solder joint JIS Z 3198-6 Shearing test of solder joint of chip part JIS Z 3198-7

MODEL-1308U/NF

Capacity: 50 N (5 kgf)



The MODEL-1308U/NF is a low-price and compact JIS-rated lead-free solder tester. It is designed for 45° pull tests of QFP lead solder and shearing tests of chip parts, which are enabled by replacing the jigs and RZ series digital force gages. Measured data are stored in the RZ series digital force gage and may be printed out or loaded into a PC after completion of measurement. The jigs are commonly used for the MODEL-1605 VC/NF.

Applicable Tests

45° pull test of QFP lead solder joint: JIS Z 3198-6 Shearing test of solder joint of chip part: JIS Z 3198-7

Standard Specifications

Max. force	50 N (5 kgf)				
Test speed	5 to 100 mm/min., variable				
Stroke	400 mm				
Table size	W250 x D140 mm				
Weight	Approx. 20 kg				
Size	W255 x H810 X D300 mm				
Power supply	100 to 240 VAC, 0.5 A				

Standard Configuration

- ■Tester: MODEL-1308U
 ■Digital force gage: select proper
 RZ Series (up to 5 kgf)
- ■Jig (full set): M-500 FS













M-500P (Z3198-6)

M-500H M-

M-500HS-H M-500H

M-330

M-230-45

Comprehensive Syringe Needle Force Measuring Tester

MODEL-1310VC/SL

Capacity: 2kN (200Kgf)





Torque feeling tester



This tester is designed to test a correlation between torque value and the rotation angle. The acquired torque value and angle data are drawn on a torque-angle graph. It is also possible to automatically acquire the click torque value and angle during turning and show typical measurement values (click values).

Switch & Silicone Rubber Durability Tester (3-CH)

MODEL-SR-3



The MODEL-SR-3 is designed for durability tests of various electronic parts. It automatically stops a test at the preset cycle or when a test work is broken.

The MODEL-1310 is designed for comprehensive force tests of various syringes shown below, for which various jigs are available. In particular, a one-touch needle chuck is supplied for sharpness tests of syringe needles. Measured waveform and maximum value are displayed on the screen. Select the test items from those shown below. Different jigs are used according to the test types. The MODEL-1310 has a vertically movable table.

Standard Specifications

Max. force	2kN (200Kgf) 150mm					
Stroke						
Column length	750mm 250mm 5 to 125mm/min. 200mm dia. Approx. 41Kg W356xH1102xD314mm					
Column interval						
Test speed						
Table size						
Weight						
Size						
Power supply	100 to 240VAC, single-phase 1A					

Options

Select the following according to the test requirements.
A. Sharpness measurement
B. Sharpness measurement in the condition where needle

- bases are fixed to needles
- C. Tensile strength measurement of needle-needle base adhesive D. Slide strength measurement between barrels and pistons E. Air tightness measurement between barrels and pistons
- F.Dislocation (withdrawal strength) measurement of needles from barrels G. Dislocation load measurement between needles and caps
- H. Three-point bending measurement of needles only

Power Cable Bending Durability Tester (5CH)

MODEL-CBL/5S



This is designed for durability tests of cables in conformity to the UL and JIS standards. It stops operation automatically at the set values (±90° & ±45°) and when the cable is broken. (Interlock type and manual type are available.)

Urethane Foam Load Measurings Instrument (Screen Display Type)

MODEL-1900N













The MODEL-1900N allows all test patterns to be set on the touch panel. It stores a maximum of ten JIS, JAS and any optional patterns in the memory unit, which may be read out in tests. The test data are displayed on the screen and may be printed out.

Grips & Jigs





TR-1/4/5A/5 Chuck for round rod

Double Slide Vise

▶ MODEL-220



Specifications

0 to 80 mm			
1 kN W90 x D30 mm M6 2.1 kg			

*Blades are optional

This vise has blades that open toward both sides from the center. Fix it to the table of the instrument, and hold a test piece directly on the vise or fix the grip blades using the threaded holes in the upper pan.

X-Y Table

▶ Model-330



Specifications

opecifications					
Travel	1 mm/rotation				
X-axis travel	±25 mm				
Y-axis travel	±25 mm				
Max. force	2 kN				
Withstand tensile load	0.1 kN				
Table size	55 x 60 mm				
Weight	1 kg				

Use this X-Y table together with AIKOH's test stands for centering or fine feeding of test pieces.

MODEL-0218B



This is a low priced simple digital display meter.

This compact and light-weight equipment has the following features:

Features

- 1. Data hold function (Sample hold)
- 2. Peak hold function
- 3. External reset function
- 4. One-touch auto zero function
- 5. High and low values settable as desired
- 6. Analog output

Standard specifications

Display range	99999-19999 10, 100, 1kHz				
Response					
Sampling rate	15times/sec.				
Decimal point	Free setting				
Temperature drift	0.02% F.S.%/°C				
Applied voltage	DC5V				
Power supply	100V, 110V, 200V or 220V				

MODEL-0215T



What is "TEDS"?

"TEDS" stands for "Transducer Electronic Data Sheet". When a memory containing TEDS data of a sensor is installed, the information of the sensor can easily be transferred to a display meter having a function of reading the memory.

Usable load cells (made by AIKOH) MODEL-CM, UP, QF, DCD, CH, US, DUD, CB Series This is a digital display meter compliant with the TEDS Standard (IEEE 1451.4Class 2 mixed mode interface).

When combined with various TEDS-compatible strain gauge type sensors, sensitivity can be calibrated easily and accurately.

Zero calibration, span calibration, upper/lower limit comparison, digital/analog filtering, motion detection and zero tracking can be set manually on the display.

Features

- The use of the TEDS function ensures easy and accurate sensitivity calibration.
- The display meter needs not be used with a sensor as a pair, but their combination may be changed as desired.
- A sensor in which no TEDS data has been written can also be used.
- Static strain can be measured.
- The conversion cable for connection of MODEL-0215T is a standard accessorry.
- CE mark-compliant.
- The power supply is 100 to 240VAC.
- Optionally, BCD parallel data output, RS232C interface and D/A converter (Voltage/current output) are available.

Specifications

Applied voltage		10VDC, 2.5V±10%, current 120mA					
Signal input range		0 to ±3.0mV/V					
Equivalent input/TEDS	Calibrating range	0.3 to 3.0mV/V					
Equivalent input (EDS	Calibrating accuracy	0.2% F.S. or better, provided that the sensor sensitivity it set to 0.5mV/V min.					
Zero adjustment range		0 to ±2.0mV/V					
Minimum input sensitivity		1μV/count (1/10000 guaranteed at input above 1mV/V)					
Non-linearity		Within 0.02% F.S. (When input is 3mV/V or over.)					
A/D conversion speed		100times/sec.					
Analog filter		4, 10, 100Hz (Default), 3kHz (Set on the panel)					
Analog output		Voltage: 2V±5% max. per 1mV/V, force registance: 2kΩ or more					
		Response frequency: Approx. 5kHz/-3dB (Not passing through analog filter)					
TEDS function		IEEE1451.4 Class2, mixed mode interface					
Peak-hold function (analog and digital hold system)	Response speed	Approx. 1kHz (Waveform width 2ms: 3mV/V input, analog filter 3kHz)					
	Accuracy	0.2% F.S. or better					
	When reset	50µs max.					
Display	Display range	50µs max. ±19999					
Power supply		100 to 240VAC, Approx. 7W					
Operating temperature rang	je	-10 to +40°C (Storage temperature range: -40 to +80°C)					
Operating humidity range		85% RH max. (No condensation)					
External dimensions		Approx. W96 x H96 x D146mm (Projections are not included)					
Weight		Approx. 1kg					
Accessory		AC power cable, 1piece, TEDS conversion cable 1piece, instruction manual (CD-ROM) 1copy					
		BCD parallel data output, RS232C interface					
Option		D/A converter (Voltage/current output)					



MODEL-CK









MODEL-CH

Load cell for compression test

Small size load cell for compression test Capacity: 100N to 20kN			

Repeatability: 1%R.O. Recommend applied voltage: 5V Allowable applied voltage: 7V
Temp. Compensation range:
-5 to +65 °C(2 to 20kN: -5 to +50 °C) Allowable compensation range: -10 to +70 °C (2 to 20kN: -10 to +60 °C) Allowable overload: 120%R.C

MODEL-VCV

High performance load cell for compression test Capacity: 500N to 100kN

 Standard Specifications Rated output: 2mV/V±0.25% (50 & 100kN; 2mV/V±0.5%) Non-linearity: 0.15%R.O. (50 & 100kN: 0.1%R.O.) Hysteresis: 1%R.O. Repeatability: 0.05%R.O. Recommend applied voltage: 8V Recommend applied voltage: 12V

Allowable applied voltage: 12V

Temp. Compensation range: -10 to +70 °C Allowable compensation range: -1! (50 to 100kN: -15 to +75 °C) Allowable overload: 150%R.C.

MODEL-US

Standard Specifications Rated output: 2mV/V±0.25% (10kN: 1.5mV/V) Non-linearity: 0.1%R.O. Hysteresis: 0.1%R.O. Repeatability: 0.05%R.O.
Recommend applied voltage: 10V
Allowable applied voltage: 15V Temp. Compensation range: -10 to +70 ℃ Allowable compensation range: -20 to +80 $^{\circ}\mathrm{C}$ Allowable overload: 150%R.C.

Capacity: 10kN to 500kN

Load cell for tension/compression | Non-Rotary Type Torque Meter Capacity: 0.2 N · m to 1kN · m

 Standard Specifications
 Rated output: 1mV/V±1% Non-linearity: 0.3%R.O. Hysteresis: 0.3%R.O. Repeatability: 0.2%R.O. Recommend applied voltage: 10V (6V at 1N · m or less) Allowable applied voltage: 15V (10V at 1N · m or less) Temp. Compensation range: -10 to +70 $^{\circ}$ C Allowable compensation range: -20 to +80 $^{\circ}$ C Allowable overload: 150%R.C.

Capacity: 5kN to 500kN Standard Specifications
 Rated output: 1mV/V±1% Non-linearity: 0.5%R.O. Hystoresis: 0.5%R.O. Repeatability: 0.1%R.O. Hepetatomity: 0.1%-ID. Recommend applied voltage: 10V Allowable applied voltage: 15V Temp. Compensation range: -10 to +70 °C Allowable compensation range: -20 to +80 °C Allowable overload: 150%R.C.











MODEL-CM

Very small size load cell for compression test Capacity: 10N to 2kN

 Standard Specifications Rated output: 1mV/V Non-linearity: 1%R.O. Hysteresis: 1%R.O. Repeatability: 0.3%R.O. Hepeatability: 0.3%H.O. Recommend applied voltage: 6V Allowable applied voltage: 10V Temp. Compensation range: -10 to +70 °C Allowable compensation range: -20 to +80 °C Allowable overload: 150%R.C.

Capacity: 500N to 200kN

Hepeatability: 0.1964.O.
Recommend applied voltage: 10V
Allowable applied voltage: 15V
Temp. Compensation range: -10 to +70 °C
Allowable compensation range: -20 to +80 °C
Allowable overload: 150%R.C.

Standard Specifications

Rated output: 2mV/V±0.5% Non-linearity: 0.15%R.O. Hysteresis: 0.1%R.O.

Repeatability: 0.1%R.O.

MODEL-DCD MODEL-DUD High performance load cell for compression test | Small high performance load cell for tension/compression test

Capacity: 500N to 20kN

 Standard Specifications Rated output: 2mV/V±1% Non-linearity: 0.15%R.O. Hysteresis: 0.1%R.O. Physiatriasis: CL1994.C.
Repeatability: 0.196.R.O.
Recommend applied voltage: 10V
Allowable applied voltage: 15V
Temp. Compensation range: 10 to +70 °C
Allowable compensation range: -20 to +80 °C
Allowable overload: 150%R.C.

MODEL-QR MODEL-CB Rotary type torque meter

Capacity: 10N · m to 2kN · m Standard Specifications

Rated output: 1.5mV/V±1% (10 to 50N • m: 1mV/V) Non-linearity: 0.3%R.O. Hysteresis: 0.2%R.O. Repeatability: 0.3%R.O. Recommend applied voltage: 10V Allowable applied voltage: 15V
Temp. Compensation range: -10 to +70 °C
Allowable compensation range: -20 to +75 °C
Allowable overload: 150%R.C.

Load beam

Capacity: 50N to 10kN

 Standard Specifications Rated output: 2mV/V±1% Non-linearity: 0.05%R.O. Hysteresis: 0.05%R.O. Rysatesas: 0.109-ALO: Repeatability: 0.05%R.O. Recommend applied voltage: 10V Allowable applied voltage: 15V Temp. Compensation range: -10 to +70 °C Allowable ownpensation range: -20 to +80 °C Allowable overload: 150%R.C.

MODEL-3000 Series



Standard Specifications

Rated capacity	20 N to 20 kN 2mV/V=1%(20N:1mV/V,10kN & 20kN:1.8mV/V)				
Rated output					
Non-linearity	0.1% R.O.				
Hysteresis	0.1% R.O.				
Repeatability	0.1% R.O.				
Recommended applied voltage	10 V				
Allowable applied voltage	15 V				
I/O resistance	350 Ω ±2%				
Temp.compensation range	-10 to +70℃				
Allowable compensation range	-20 to +80°C				
Temp.influence upon zero point	±0.005% R.O. / ℃				
Temp.influence upon output	±0.005% / ℃				
Allowable overload.	150% R.C.				

Tensile & Compression Type Load Cells

While these load cells with female threads on both sides are designed for both tensile and compression tests, they feature high precision, high output, and less output errors in pushing and pulling, resulting in high reliability. They are widely used for performance tests and industrial measurement of materials and car parts in as wide ranges as 50 N to 20 kN.

Dimensions

Model	Rated capacity	ФА	ΦВ	C	D	F	G	H	1
3005	50 N	60	50	2	5	80	M10 P1.5	20	17
3020	200 N	60	50	2	5	80	M10 P1.5	20	17
3050	500 N	60	50	2	5	80	M10 P1.5	20	17
3200	2KN	60	50	2	5	80	M10 P1.5	20	17
3500	5KN	68	58	2	10	90	M20 P1.5	36	30
3800	10KN	60	50	3	15	120	M20 P1.5	36	30
3900	20KN	60	50	3	15	120	M20 P1.5	36	30

%3002 (20 N) type is also available. The rated output is 1 mV/V.

