



JAPAN INSTRUMENTATION SYSTEM Co.,Ltd.

日本計測システム株式会社

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Automatic Load Tester Catalog



A reliable partner
that meets your needs

MAX

AUTOMATIC LOAD TESTER



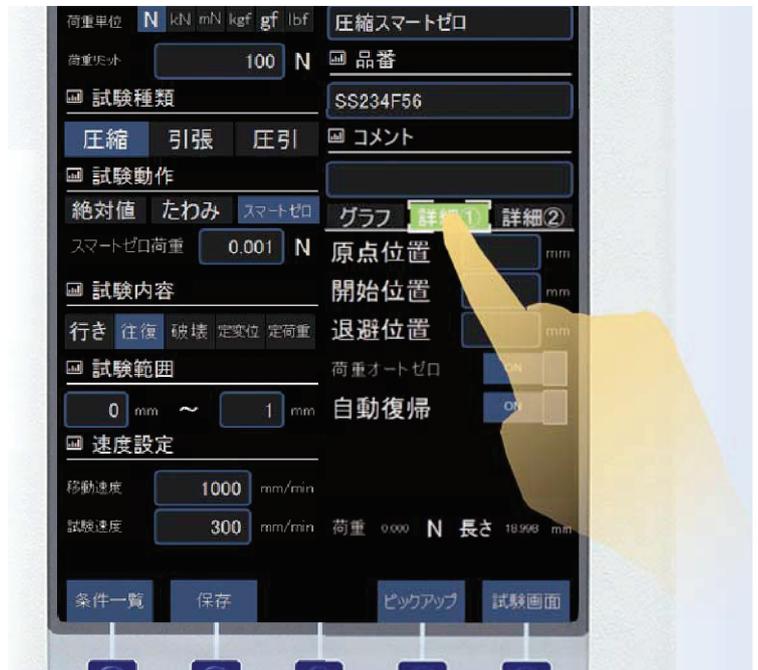


Various data processing

With a computer, more detailed and various data processing is possible.

Easy-to-read display

The easy-to-read touch panel display allows intuitive operation.



A wide range of measurements is possible with the main body

Without connecting to a computer, a wide range of measurements is possible.

It is possible to use in multiple testing applications.

Product lineup depending on the needs

Depending on the needs of measurement on the specimen, it is possible to select a suitable tester.

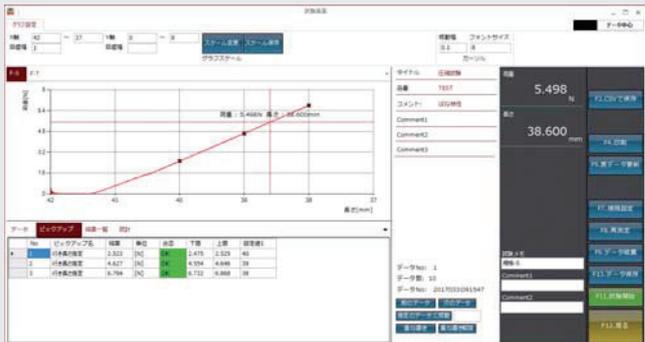
Tester		
<p>Automatic Load Tester MAX series</p> <p>High functionality High accuracy</p> <p>Universal type with Accuracy Speed · Operability</p>  <p>Suitable for the detailed examinations that require the precision of length and load such as R&D, electric resistance measurement, constant load and constant displacement measurement etc.</p> <p>➔ P4 - 6</p>	<p>Universal load tester HIT series</p> <p>User-friendly universal tester</p> <p>Universal model with length accuracy Various samples can be tested</p>  <p>Suitable for tension load test of rubber, strength test of films and packages, and tests that prioritize load measurement.</p>	<p>Strength tester JSL series</p> <p>Low price</p> <p>Easy and simple operation system Suitable for strength test</p>  <p>It is possible to detect the instantaneous breaking force using peak hold mode. It is suitable for the destructive force measurement that does not require the precision of length.</p>

PC Software

AXR

Multiple support from standard tests to customized tests

A neat and easy-to-read design multi-purpose PC software, AXR. AXR smoothly depicts the line graph in real time during the measurement. Easy operation of condition input allows intuitive operation of condition setting without complexities. In addition, Sequence mode *1 enables to create flexible and detailed test conditions. Various types of measurements can be processed on just this software.



No.	測定項目	単位	値	公差	公差	公差
1	引張強度	[N]	2,479	±5%	2,553	140
2	引張変形率	[%]	4.827	±5%	4,124	4,880
3	引張変形率	[%]	6,794	±5%	5,132	6,880

*1 Sequence mode: Sequence mode is installed in AXR-PLUS.
* Test items differ depending on the connected tester.

MAX series

Automatic load tester

For more accurate and smoother measurement

It is possible to check test progress from line graph on the display.
A series of operations such as product release decision or statistical processing is performed with only this tester. Once the test condition is set, the setting information is stored in the tester main unit. Therefore, it is possible to restart the test easily without setting the same condition. Connecting to a computer, data processing capacity is increased, and it enables to conduct complicated tests.
There are grades with micron length resolution
A safety cover is also available as an option.



MAX Twin Column (Desktop)

MAX-5KN~20KN

MAX Twin Column (Floor standing)

MAX-50KN~100KN



MAX Desktop type
(Load cell 10 N~1 kN)

MAX-1KN



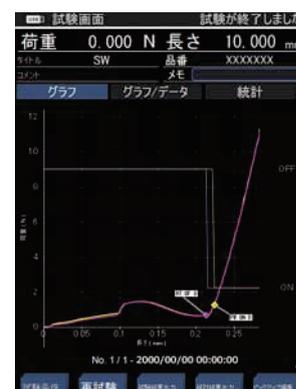
High standard length resolution

M (Middle grade) and P (Premium) grade have length resolution at 0.001mm.

NEW

Easy-to-read display

Approx. H 211×W158 mm colour LCD screen is equipped.
High resolution display is adopted.
Easy-to-read touch screen allows intuitive operatoin.



MAX series

Equipped with "Smart zero" function

With "Smart zero" function, displacement of zero point detection speed has been improved.
The test become smoother and it makes test environment more comfortable.

Test data and test conditions can be stored into USB flash drive

3 USB ports are equipped on the front of main unit. It is possible to store the test condition or test data into USB flash drive. On the back of main unit, there are 3 USB ports and keyboard or computer mouse can be connected.

Multiple languages

Language setting of Japanese, English, Korean & Chinese (Simplified/Traditional) is available.
The language can be switched anytime. By unifying the test environment in various countries, Globalization of manufacturing is promoted.



Operable with a keyboard or a computer mouse

By connecting a Keyboard or a computer to a USB port, it is possible to set the condition like a computer.
Chinese character, Kanji (Japanese) is available.

Constant force and constant displacement measurements

Constant force and constant displacement measurements are available. It is useful for the test of the sample that makes creep of load.

*The measurement is available on M grade and P grade.

It is connectable to an external printer

It is possible to print the test results from a connected external printer through USB cable.
Installing printer driver to a tester is needed. Please contact us for installation.

Specification

Model	MAX-1KN	MAX-5KN	MAX-10KN	MAX-20KN	MAX-50KN	MAX-100KN
Max capacity *	1 kN	5 kN	10 kN	20 kN	50 kN	100 kN
Type	Desktop	Twin Column (Desktop)		Twin Column (Floor standing)		
Applicable Standard	Conform to JIS B 7721 Tension & Compression Testing Machine Class 0.5 (Highest level)					
Max. Stroke (mm)	300	600	800	800	900	900
P (Premium)	220					
Test speed	0.001~1000.000 mm/min					
Cross Head Control	Precision ball screw and servo motor control					
Load cell capacity	1 kN	5 kN	10 kN	20 kN	50 kN	100 kN
	Any 1 required load cell less than tester load capacity can be attached					
Load cell channel	Maximum 5 Channels					
Range switching	Please see ADAPTIVE LOADCELL					
Resolution	Please see ADAPTIVE LOADCELL					
Load sampling speed	Max 1ms 1000 times /s					
Load Accuracy	Conform to JIS B 7721 Tension & Compression Testing Machine Calibration and verification of the force-measuring system Class 0.5 (Highest level) *Relative error is less than 0.5%					
Unit Selection	kgf, gf, lbf (in) *There is a unit that is not available depending on the load or range					
Protective Stop Function	Stop by the Upper and Lower Limit, Stop by Overload STOP Button and Push Emergency Stop Button Down, Stop by set load value					
Display	LCD Display Area Pixel	LED backlight, Capacitance touch panel LCD H 211.2 × W 158.4 mm				
Interface	ANALOG OUTPUT	FORCE, DISTANCE				
	USB (PC)	Used to connect to PC				
	USB	Front: 3 ports · Back 3 ports Total 6 ports, Connectable to USB keyboards, USB mouse, USB Digital Caliper				
	COM	Connect with External Device				
	I/O Port	Photocoupler insulation, Plus common: IN8/OUT8 Function of interface differs depending on the test program				
Storage	In-built CFast Card/32 G Byte USB flash drive is connectable					

Model	MAX-1KN	MAX-5KN	MAX-10KN	MAX-20KN	MAX-50KN	MAX-100KN
Power Supply	Single Phase AC 100V-120V or AC200V-240V			Single Phase AC 100V-120V or AC200V-240V	3 Phase AC200-240V	
Power Rating (VA)	300	500	1000		2000	3000
Weight	Approx. 60 kg	Approx. 190 kg	Approx. 280 kg		Approx. 520 kg	
Dimension (mm)	W	460	937	1003		959
	D	400	402	504		550
	H	702	1160	1443		1928
Sample Stage (mm)	W	460	417	413		488
	Base Plate D	245	280	340		350

*Load capacity of main unit

Grade

Grade	N (Normal)	M (Middle)	P (Premium)
Min. Length Resolution	0.01 mm	0.001 mm	0.001 mm
Length Accuracy	± (0.05 + 0.0001 L) mm L: Arbitrary length	± (0.02 + 0.0001 L) mm where L is the arbitrary length	