



JAPAN INSTRUMENTATION SYSTEM Co.,Ltd.  
日本計測システム株式会社

# AUTOMATIC LOAD TESTER MAX SERIES

## Smarter, High Accuracy And More Efficient Operation

### EQUIPPED WITH SMART ZERO FUNCTION

Displacement of zero point detection will be easier and smooth by smart zero function

### BUILT-IN USB MEMORY UNIT

Enable the tester to perform more efficient load testing.

When use in production line, it is not necessary to bring a personal computer into the line. A USB Thumb Drive with stored test result can be taken out from the tester to examine in other place.

Measurement conditions can also be store in the USB Memory.

### TESTER DATA STORING

With Built in 16GB memory able to store about 10,000 testing result

### DISPLAY AND PRINTING

You can see test results and curve of load displacement with high density LCD on the MAX tester and print out through the built-in printer. The CENTRONICS INTERFACE enables the external printer to print test results out in form of test report. (ESCIP based)

### DATA PICK UP FUNCTION

The standard test program on the MAX can perform most of general compression/tension load test. Its data pick-up function can pick specific data from test results.

### PROGRAM CHANGE THOUGH USB PORT

Since the MAX series is operated with a Test Program that has been installed. It is easy to change the Test Program. In other words, one MAX tester can be use for multiple purposes.

### MULTIPLE LANGUAGE TESTER

Tester consists of English, Japanese, Korean & Chinese (Simplified & Traditional) Language. Globalization of manufacturing support and can be used in most part of the world.



MAX-1KN – Table Top



MAX-5KN- Twin Column

Specification :

MODEL	MAX-1KN	MAX-5KN	MAX-10KN	MAX-20KN	MAX-50KN	MAX-100KN
Max. Capacity Type	1kN Table Top	5kN	10kN	20kN	50kN	100kN
Applicable Standard	Conform to JIS B 7721 Tension & Compression Testing Machine Class 0.5					
Max. Stroke (mm) High Grade	300 220	600	800	800	900	900
GRADE	N (BASIC)		M (MEDIUM SPECIAL)		P (PREMIUM HIGH)	
Min. Length Resolution	0.01mm		0.001mm		0.001mm	
Length Accuracy	±(0.02+0.0001L)mm where L is the arbitrary length				±(0.01+0.000 L)mm where L is the arbitrary length	
Test Speed	0.001 ~ 1000 000mm/min					
Cross Head Control	Precision ball screw and servo motor control					
Speed Control Key (H,M,L keys)	High & Low Speed	Moving Speed (Changeable)	N (Basic)	M (Special)	P (High)	
	High Speed	600 mm/min	1.00mm	1.000mm		
	Medium Speed	60 mm/min	0.10mm	0.100mm		
	Low Speed	6 mm/min	-	0.01mm		
MODEL	MAX-1KN	MAX-5KN	MAX-10KN	MAX-20KN	MAX-50KN	MAX-100KN
Load Cell Capacity	1kN	5kN	10kN	20kN	50kN	100kN
	Any required load cell less than tester load capacity can be attached					
Applied Voltage	10V					
Load Cell Channel	Maximum 5 Channels					
Range Switching	2 range auto-switching					
Resolution	1/100,000 for load cell capacity 10N, 100N, 1kN & 10kN					
	1/200,000 for load cell 20kN					
	1/50,000 for load cell capacity 50N, 500N, 5kN & 50kN					
Unit Selection	N, kgf, gf, lbf					
Protective Stop Function	Stop by the Upper and Lower Limit STOP Button and Push Emergency Stop Button Down for Overload					
Display	LCD / Life Span Dimension Display Area Pixel	LCD (70,000 hours) W199.5xH147.4mm 170.4xH127.8mm Pixel : 800x600 dots				
Printer	Built-in : Thermal Print, Graphic/Data					
Interface	Analog Output	Force , Distance				
	USB (PC)	Used to connect with PC				
	USB	Built-In USB Thumb Drive ; total 6 USB ports				
	COM	Connect with External Device				
	I/O Port	IN8/OUT8				
Storage	16GB					
MODEL	MAX-1KN	MAX-5KN	MAX-10KN	MAX-20KN	MAX-50KN	MAX-100KN
Max. Capacity	1kN	5kN	10kN	20kN	50kN	100kN
Power Supply	Single Phase AC 200~240V (50/60 Hz)				3 Phase AC200~240V (50/60Hz)	
Power Rating ( VA )	300	500	1000		2000	3000
Weight	Approx. 60kg	Approx. 190kg	Approx. 280kg		Approx. 520kg	
Dimension (WDXH)	460x400x700mm	937x400x1160m m	1003x503x1442mm		812x500x1927mm	

## OPTIONAL ITEMS :

### XY Table for MAX-1KN

Performing co-ordinate settings, continuous automatic measurement is possible  
Coordinate data is recorded for each product number and can be easily retested

#### MAX-1KN

Model XY-1010-P (Stroke : 100x100mm)  
Model XY-2010 (Stroke : 200x100mm)  
Model XY-4520 (Stroke : 450x200mm)



### Safety Cover

With interlock

Prevent samples from flying out

### Load cell

A standard load cell with the capacity of the tester is provided

If require additional, user may choose from below list as optional

Load Cell Model	HIGH		LOW	
	Max. Capacity	Load Resolution	Max. Capacity	Load Resolution
JLC-M10N	10N	0.001N	1N	0.0001N
JLC-M50N	50N	0.01N (0.005N)	5N	0.001N (0.0005N)
JLC-M100N	100N	0.01N	10N	0.001N
JLC-M500N	500N	0.1N (0.05N)	50N	0.01N (0.005N)
JLC-M1kN	1kN	0.1N	100N	0.01N
JLC-M5kN	5kN	1N (0.5N)	500N	0.1N (0.05N)
TCLM-10kN	10kN	1N	1kN	0.1N
TCLM-20kN	20kN	10N (20N)	2kN	1N (2N)
TCLM-50kN	50kN	10N (5N)	5kN	1N (0.5N)
TCLM-100kN	100kN	10N	10kN	1N

## Optional Jigs for various testing

Can also design and manufacture according to the user's specification .  
Please feel free to contact distributor for further discussion.



**クサビチャック**  
**GW/GV Wedge Chuck**  
( Max testing capacity ~ 100kN)



**汎用チャック**  
**Plain Chuck ( General Purpose)**  
(Max testing capacity ~ 5kN)



**フィルムチャック**  
**GF Film Chuck**  
(Max testing capacity ~ 2kN)



**スモールチャック**  
**GS Plain Chuck**  
(Max testing capacity ~ 1kN)



**丸ピンチャック**  
**GB-K Pin Vise**  
(Max testing capacity ~ 100N )  
(Max Pin Φ to hold 0~3.2mm)



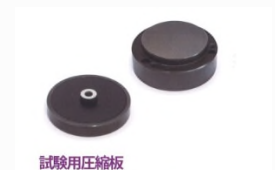
**パンタグラフチャック**  
GPP シリーズ (耐荷重~2kN)  
**GPP Pantograph Chuck**  
(Max testing capacity ~ 2kN)



**X-Yテーブル**  
**XY-51 Table (Size : 100x100mm)**



**平バイス**  
**BF-1K1 Vise**  
(Max testing capacity ~ 1kN)



**試験用圧縮板**  
**CL/CC/CY Anvils**  
For upper and lower side



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