



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.



MAX-1KN – Table Top

### 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. (ESCIPI based)



MAX-5KN- Twin Column

### 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.

# Specification :

MODEL	MAX-1KN	MAX-5KN	MAX-10KN	MAX-20KN	MAX-50KN	MAX-100KN				
Max. Capacity Type	1kN Table Top	5kN	10kN	20kN Twin Column	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	$\pm(0.02+0.0001L)$ mm where L is the arbitrary length				$\pm(0.01+0.000 L)$ 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 Medium Speed Low Speed	600 mm/min 60 mm/min 6 mm/min	1.00mm 0.10mm -	1.000mm 0.100mm 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	LCD (70,000 hours)								
	Dimension	W199.5xH147.4mm								
Printer	Display Area	170.4xH127.8mm								
	Pixel	Pixel : 800x600 dots								
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 (WXDXH)	460x400x700mm	937x400x1160mm	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)



スマールチャック

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



Creating Solutions

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