

JISC

JAPAN INSTRUMENTATION SYSTEM Co.,Ltd.

日本計測システム株式会社

日本試験機工業会々員

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MAX-T Series

Automatic torque tester



MAX-T types

<Bottom Rotary Table Rotate>

Sample on rotary table is rotated and the torque is measured.

MAX-TU types

<Upper Side Torque Cell Rotate>

Torque cell is rotated by the rotating mechanism at the top.

(X-Y sample table, jig is optional)

Possibilities of torque measurement

Setting conditions are stored in the main body of the tester. Test can be conducted easily by retrieving the setting conditions.

Connecting to PC enables the data processing capability to be expanded. Complex tests are also available.

■ Changing of Torque cell

Different capacity of torque can be tested by changing to the desired torque cell.

■ Graphics display

The graph is displayed simultaneously with the test.
The progress of the test can be confirmed and the built-in printer can be used to print graphs and statistics on site.

■ USB unit installed

Test conditions can be stored and test data can also be saved.
Testing is done on-site and data processing can be done off-site at office PC.

■ Data pickup

Target data is picked up from graph data.
(Maximum torque, torque at specified angle, etc.)

■ Multi-Interface

The I/O ports can be used for sequencers to determine the GO/NO based on tolerances. Measurement can also be performed by PC control.

■ Four languages

Four standard languages : Japanese, English, Chinese (simplified and traditional), and Korean. User can switch and select anytime.

Model	N (normal)		P (premium)	
Load capacity	Refer to specifications by tester capacity (Fig. 1)			
Adaptive torque cell	From 1N·m to tester capacity			
Torque cell applied voltage	10 V			
Torque Cell Channel	Maximum up to 5 channels			
Range switch over	2-range automatic switching			
Measurement range	Depending on the torque cell capacity (see Fig. 2 below)			
Torque Cell resolution	Depending on the torque cell capacity (see Fig. 2 below)			
Sampling-rate	1msec 1000 times/sec			
Torque Accuracy	Within ±1% of the Applied Torque			
Unit	(N, kN, mN) · (m, cm, mm) Some units are not available depending on the (gf, kgf) · (m, cm, mm) & lbf·inch * connecting cells.			
Angle resolution	0.1 deg		0.01 deg	
Angle accuracy	Within ±0.5 deg		Within ±0.3 deg	
Maximum test angle	±36000 deg		±7200 deg	
Rotary table rotational speed	1~3600 deg/min			
Rotary table rotation measurement	Direct Joint Precision Encoder			
Rotary Table Control	AC servo motor control			
Rotation Button Control	CW/CCW		Rotational speed	
	High speed		1800 deg/min	
	Medium-speed		180 deg/min	
	Low speed		18 deg/min	
		Jog (inching)		
		2.0 deg		
		1.0 deg		
		0.1 deg		
Protective stop function	Overload, STOP keys and emergency stop buttons, stop by test software settings, stop by software limit function			
Display	Liquid crystal: LED backlight, LCD with touch panel, backlight lifetime lifespan 70,000h, display area W170.4 x H127.8 (mm)			
Built-in printer	Thermal transfer type dot printer, print density 8 dots/mm, effective print width 72mm, print speed 80 mm/sec			
Interface	Output	Analogue: TORQUE (torque), ANGLE (angle)		
	USB (PC)	Used to connect to a PC		
	USB	Connectable to a USB keyboard, USB mouse, USB memory, or USB-compatible caliper		
	I/O ports	Photo coupler isolation input/output/+ common input 8 points, output 8 points interface function depends on the test program.		
Recording medium	Built-in CF card with 16GB USB memory.			

【 Specifications by Tester Capacity (Fig. 1) 】

Tester model	MAX-T-20NM	MAX-T-100NM	MAX-T-200NM	MAX-TU-10NM	MAX-TU-20NM
Tester capacity	20 N·m	100 N·m	200 N·m	10 N·m	20 N·m
Travel length	300 mm				
Power supply	Single phase AC 100 V~120 V、 AC 200 V~240 V				
Maximum power consumption	About 100VA	About 300 VA	About 500 VA	About 100 VA	About 200 VA
Weight	About 90 kg	About 105 kg	About 150 kg	About 100 kg	
Size	W	560 mm	560 mm	590 mm	560 mm
	D	490 mm	490 mm	490 mm	490 mm
	H	800 mm	890 mm	1030 mm	800 mm
Accessory torque cell	One of the torque cell below the capacity of the tester are supplied with the tester.				

There is also a large type (not a desktop type) with a load capacity of 500N·m.

【 Torque Cell Capacity (Fig. 2) 】

※ The specifications may be change without prior notice for improvement and improvement.

Torque Cell Model	Hi Range (N·m)		Low Range (N·m)	
	Maximum display in range	Minimum reading	Maximum display in range	Minimum reading
MAX-T20NM / MAX-TU20NM (Mountable Torque Cell	JTC-G1~JTC-F20) ※MAX-TU-10NM : Mountable Torque Cell		JTC-G1 or JTC-F10	
JTC-G1NM	1	0.0001	0.1	0.00001
JTC-F10NM	10	0.001	1	0.0001
JTC-F20NM	20	0.001	2	0.0001
MAX-T100NM / MAX-TU100NM (Mountable Torque Cell	JTC-F10~JTC-F100)			
JTC-F100NM	100	0.01	10	0.001
MAX-T200NM / MAX-TU200NM (Mountable Torque Cell	JTC-F10~JTC-F200)			
JTC-F200NM	200	0.01	20	0.001

●代理店

●製造販売元

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