CEDAR

50 years of torque tester manufacturing. New standard torque tester

WDI series

WDI-10HR WDI-100HR WDI-250

You can manage the electric screwdriver / manual torque driver and wrench.

Various information Displayable



Data output USB and RS232C Both equipped





This is the new standard

■ Easy-to-understand color display.

■ 10HR / 100HR is capable of high-resolution measurement with 1/10 the normal resolution.

■ Equipped with data output via USB / RS232C.

■ Clear signals and various commands can be sent from a personal computer or PLC.

■ Measurement joints can be selected according to the management method and tool characteristics.

■ Manual tool measurement jig A screw cube is attached according to the measurement band.

■ A storage case is available as an option.

"WDI" measurement example

Electric screwdriver management (SJ joint)

Coil spring screwing method. Versatile appeal with conventional measurement joints









Electric screwdriver management (OW joint)

Uses our unique rewind-free joint. Efficient measurement and safe design that is not easily affected by wear.





The OW joint has a structure that is not easily affected by friction, and stable torque management can be performed for a long period of time.
The screw head comes with a Phillips screw as standard, but you can replace it with the screw you are using. Also, in case of "screw stupid" etc., remove it and replace it with a new one before use.

Manual torque driver management

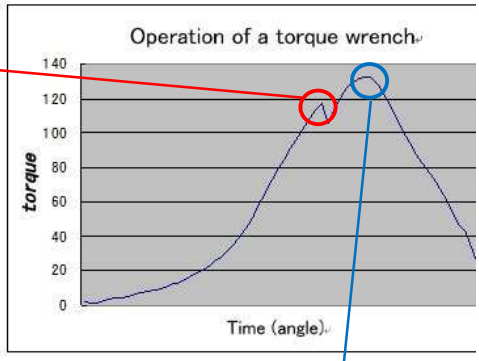
Easy measurement by attaching a screw to the attached screw cube.



Manual torque wrench management

Click operation of torque wrench
Measurement is PD (peak down mode)
For tool check at the start of work





The actual torque applied is measured
PP (peak mode)
For worker experience training and tightening operation check

Works with PCs and PLCs

Various commands can be input from PLC or personal computer. Finer torque management is possible with external control.



Command list

Clear signal: Clears the display and saves the held numerical value as data output and memory.
Measurement mode: Change the measurement mode
Measurement channel: Change individual channels for which conditions such as pass / fail judgment are set.
Peak hold upper limit: Change the pass / fail judgment upper limit of the current channel
Peak hold lower limit: Change the pass / fail judgment lower limit of the current channel
Peak down lower limit: Change the peak down judgment start lower limit of the current channel
Real-time output lower limit: Change the output lower limit of real-time output
Auto clear time: Change the time to automatically clear after the measurement is completed.
Buzzer notification: Change the buzzer notification method

Specification

Show the tester specification below.

Model		WDI-10HR-□□-□-□□	WDI-100HR-□□-□-□□	WDI-250-SJ-□-□□
Range	Normal	0.020 ~ 1.000 [N-m]	0.20 ~ 10.00 [N-m]	0.20 ~ 25.00 [N-m]
	Hi resolution	2.0 ~ 999.9 [mN-m]	0.020 ~ 9.999 [N-m]	
Units	Normal	kgf-cm / lbf-in / N-m / cN-m	kgf-cm / lbf-in / N-m / cN-m	kgf-cm / lbf-in / N-m / cN-m
	Hi resolution	kgf-cm / lbf-in / mN-m / cN-m		
Accuracy		±0.5% (If 499 digit or less, ±3 digit.)		
Operating temperature / humidity		15 ~ 35 degrees Celsius, 80%RH or less *Keep a constant temperature while measuring. (Storage temperature 0 ~ 45℃)		
Sampling rate		1000 data / 1 sec		
Data output		Wired (ASCII format)		

Measurement mode

Measurement mode		Data output	Contents
Peak hold	PP	○	Measure the peak torque.
Peak down	PD	○	Measure the firs peak torque
Real time output	C	○	Output the torque data every 180 data / 1 sec.
Track	TR	―	Be used to calibrate mainly.

Memory size	800 data
Power supply	Ni-MH rechargeable battery (Charge times is about 3 hours)
Auto power off	If the tester is not used for 10 minutes. (Releasable)
Socket size	□20 / □9.5
Accessories (one pieces each)	Measurement joint
	AC adaptor
	Result of calibration, Certification on calibration, Traceability system figure

Ordering number

WDI ― 10HR ― SJ ― C ― O 1

- 1 → Plug
- O → Destination
- C → Packing
- SJ → Measurement joint (* 250 is only SJ.)
- 10HR → Capacity
- WDI → Series

Plug

1	A plug (Japan, Taiwan, USA)
2	A plug (China)
3	C plug (EU (excluding UK))
4	F plug (Korea)
5	G plug (UK)

Destination

O	Outside Japan

Packing

C	Cardboard
A	Plastic case

Measurement joint

SJ	SJ join
OW	OW joint

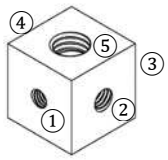
Capacity

10HR	to 1N-m
100HR	to 10N-m
250	to 25N-m

Measurement joint

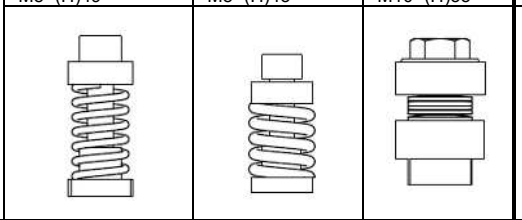
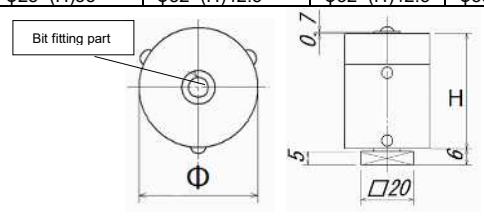
Show the measurement joint which is attached to the product.

Model		Measurement joint	Bit	Other	Cube
WDI-10HR	**-SJ**	**SJ-10K**	6mm Hex bit (Φ4mm, Φ5mm, 3/16" hex, 1/4" hex)	M3 hex adaptor Grease	SC-1
	-OW	**OW-025** **OW-10**	–	–	SC-1
WDI-100HR	**-SJ**	**SJ-10K**	6mm Hex bit (Φ4mm, Φ5mm, 3/16" hex, 1/4" hex)	M3 hex adaptor M4 hex adaptor Grease	SC-2
		SJ-50			
	-OW	**OW-20** **OW-60**	–	–	SC-2
WDI-250	**-SJ**	**SJ-50**	6mm hex bit (Φ4mm, Φ5mm, 3/16" hex, 1/4" hex)	Grease	SC-3
		SJ-200	17mm socket bit		

Cube with screw holes			
	SC-1	SC-2	SC-3
Screw hole	① M1 ② M1.2 ③ M1.4 ④ M2 ⑤ M3	① M2.6 ② M3 ③ M4 ④ M5 ⑤ M6	① M4 ② M5 ③ M6 ④ M8 ⑤ M10
Outline figure			

joint

Show the SJ joint and OW joint specification below.

Joint	SJ joint **-SJ**			OW joint **-OW**			
	SJ-10K	SJ-50 *1	SJ-200	OW-025	OW-10	OW-20	OW-60
Capacity	～ 1 N-m	～ 5 N-m	～ 20 N-m	～ 0.25 N-m	～ 1 N-m	～ 2 N-	～ 6 N-m
Recommended measurement range	～ 1 N-m	1～ 5 N-m	5～ 20 N-m	～ 0.25 N-m	0.25 ～ 1 N-m	1 ～ 2 N-m	2 ～ 6 N-m
Mechanical life	2,500 times	2,500 times	2,500 times	10,000 times	8,000 times	5,000 times	5,000 times
Bit fitting part (Use screw top)	6mm hexagonal hole on opposite side (M3 screw)	(M4 screw)	Opposite side 17mm Hexagon bolt	M2.6	M3	M4	M6
Dimensions	M8×(H)49	M8×(H)43	M10×(H)35	φ28×(H)35	φ32×(H)42.5	φ32×(H)42.5	φ38×(H)59
							
Pedestal shape	□20			□20			

*1 If using HEX attachment with SJ-50, please use it within the appropriate torque range for the screw diameter.

Case

The specifications of the case are shown below.

Case	-C	-A
Specifications	Cardboard	PP
Exterior / Interior	 	 

SUGISAKI METER CO.,LTD.
4-2-12 shirahane Ryugasaki-shi,Ibaraki,301-0901,Japan
URL https://cedar.co.jp E-mail sales@cedar.co.jp

The contents of a catalog may change specification and a design without a preliminary announcement.