

# **Torque-Angle Measurement Unit TAA series**

- -Measurement unit to analyze Torque (Rotating/Twisting force) and Angle easily.
- -Easy but Accurate Torque- Angle measurements are possible.
- -Drawing and Analyzing graphs on PC with simple operations.
- -Selectable products for your needs such as Desktop type and Portable type.

Easy

Simple wire connecting/Easy setup/

Simple operation

Graph drawing of Torque-Angle curve on real time

| Total | Tota

Included Software Force Recorder Professional

←Product 1: TAA-MTS-TB series

Space-saving desktop type for Torque-Angle analyses

Accurate High speed sampling rate (2000 data/ sec)

follows the rapid force change



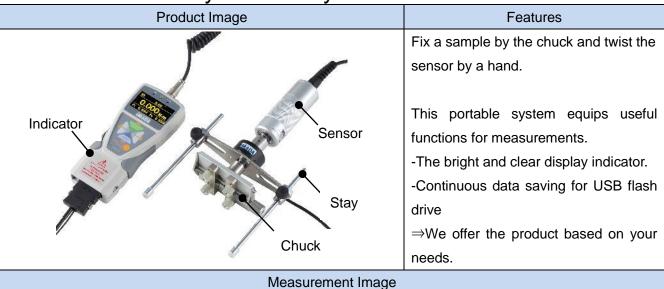
[TAA-MTS-TB series applications]

Opening/ Closing torque	Twisting strength for circuit boards	Others
		-Click feeling for rotary switches -Twisting characteristics for underwears and some medical supplies as such us diaper, napkin and fomentation etc.  Ideal for various characteristic evalutions.



# Portable type or Manual test stand of Torque- Angle measurements (Custom-made order)

Product 2: For easy and handy measurements



for Door Knobs

for Rotary Switches on a car dashboard.

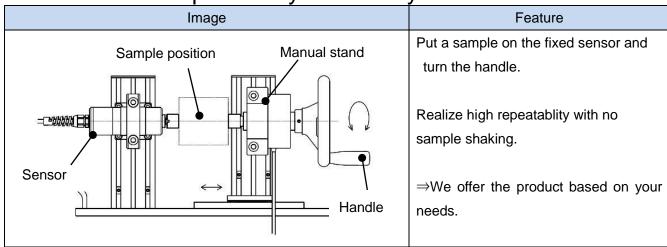


The stays support the stable rotating motions.



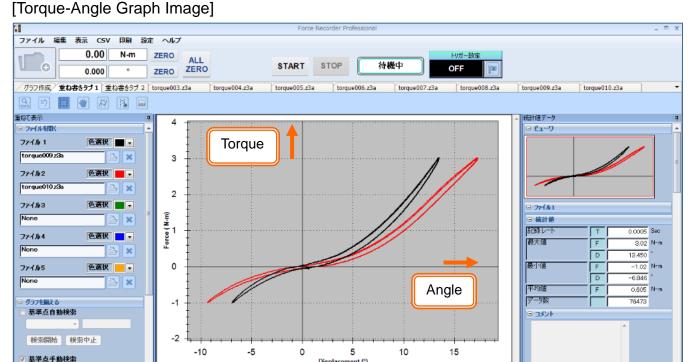
Stable measurements are possible by the stay height adjustment.

## Product 3: For repeatability and handy measurements



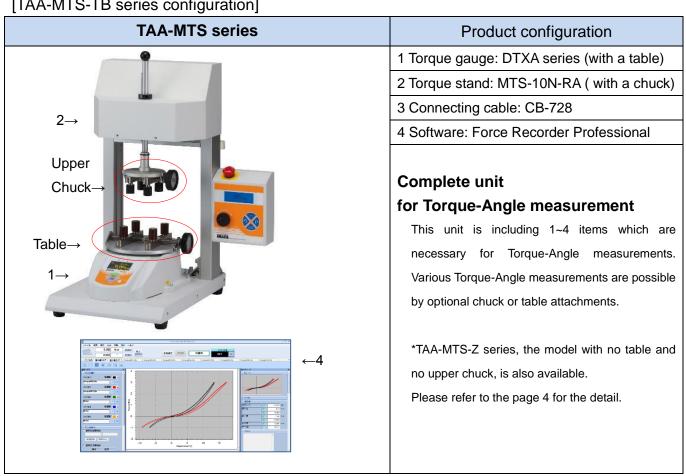
<sup>⇒</sup>The products on this page are custom-made order. Please feel free to contact us for the specifications or the measurement solutions +81-(0)532-33-3288.





Displacement (°)

#### [TAA-MTS-TB series configuration]





## [TAA-MTS series model list]

Model *1	Type	Allowable sample height *2	Capacity
TAA-MTS-□□N-TB	Standard	140mm	
TAA-MTS-□□N-L-TB	Long otroko	240mm	Choose from
TAA-MTS-□□N-2L-TB	Long stroke	340mm	
TAA-MTS-□□N-Z	No chuck		21N-111/31N-111/101N-111.
	and no table	140mm (*2)	

<sup>\*1 □□:</sup> Please choose from the suitable capacity.

## [TAA-MTS series specification]

Model		TAA-MTS-□N	
l loit	Torque	N-m, N-cm Switching type	
Unit Angle		°(degree)	
Range	·	2N-m(200N-cm), 5N-m(500N-cm), 10N-m(1000N-cm)	
Force		4 digit (Ex: The resolution of TAA-MTS-5N is 0.001N-m[0.1N-cm])	
Resolution	A I .	0.001°(On Force Recorder Professional)	
Angle		0.01°(On the torque gauge monitor)	
. Force		+/- 0.5% F.S. +/-1 digit	
Accuracy	Angle	+/- 0.1°+/- 1 digit	
		TAA-MTS-□□N-TB: 140mm	
		TAA-MTS-DDN-L-TB 240mm	
		TAA-MTS-DDN-2L-TB: 340mm	
Model: Allo	wable sample height	*Other sample height is allowable. Please contact us.	
		*The allowable sample diameter is depending on the attachments (separately sold) Please	
		refer to the specification "Torque Gauge/ Motorized Torque Stand Table Attachments" or	
		"Torque Gauge/ Motorized Torque Stand Attachments"	
Torque dat	a sampling rate	2000 data/ sec	
Torque display update		10 data/sec	
		USB, serial (RS232C), analogue(Approx. +/- 2V),	
Output		comparator, overload, sub comparator, USB flash drive	
		*USB flash drive is not included.	
	Torque gauge	Customized display(header and footer)/Peak Hold mode(CW/CWW)/Internal memory (1000 data)/Comparator(OK/NG judgment)/Reversible display/ Sign inversion/Zero clear timer/+NG alarm/Off timer(Auto power off)/Dumpling/Time display/1st 2nd peak	
Function	Test stand	Manual mode, JOG mode, Speed adjustment	
		Angle detection at torque peak / Angle zero reset at the selected	
	Link function (*1)	torque/Automatic mode (CONTINUOUS,ONE WAY), Torque control,	
		Overload prevention	
Power	Torque gauge	Rechargeable battery (8 hour using /8 hour full charge)	
supply	Test stand AC100V~ 240V		
Operating	environment	Temperature: 0 – 40 degree Celsius Humidity: 20 -80%RH	
Accessory		Graphing software Force-Recorder Professional, Driver CD-ROM(with data logger simple software), Power cable, AC adapter, Torque gauge connecting cable(CB-728), USB cable, Spare fuse, Instruction manual, Inspection certificate, tool, packing cardboard box.	

<sup>\*1</sup> It is necessary to connect a torque gauge with the included connecting cable to activate.

<sup>\*2</sup> We accept custom made order for the sample height more than 340mm. Long stroke option is also able to add Model "Z" type.



## [Software operating environment]

Operating environment	OS: Windows XP/Vista/7/8/8.1	
Operating environment	(7/8/8.1 are compatible for 32bit and 64bit)	
	CPU :Pentium4(1GHz or more) or later recommended	
Hardware	Memory: 2GB or more recommended	
	Hard disk: 10GB(Data storage area) or more	
Plat form	.NET Framework4 or more	
Execute environment	Microsoft Internet Explorer6.0 or more	
Execute environment	Windows Installer 3.1 or later	
Image size	Resolution 1024×768 pixel or more	
Connecting port	USB1.1 USB2.0 port *we are not guarantee operation in USB3.0.	

#### [Optional chuck and table attachments]

	Standard chuck	Small chuck(*)	Pin chuck	M10 adapter
Upper	000			In preparation
MTS side	Model: MT-TB	Model: MT-ST	Sample diameter (Model)	Model:
514.5	Sample diameter: 20~90mm	Sample diameter:7~50mm	-Largeφ1.2~13mm(MT-DC-13) -Medium φ0.5~6.5mm (MT-DC-6.5)	MT-AD-M10
			-Medium(Stain-less)(MT-DC-6.5SUS)	It helps to mount
			-Smallφ0.5~4mm(MT-DC-4)	attachment with
				a M10 female
				screw.

	Standard table	Small table(*)	Pin chuck
Bottom DTXA side			
	Model: DT-TB	Model: DT-ST	Sample diameter (Model)
	Comple diameter	Comple diameter: 7 F0mm	- Largeφ1.2~13mm (DT-DC-13)
	Sample diameter:	Sample diameter:7~50mm	- Medium φ0.5~6.5mm (DT-DC-6.5)
	20~90mm		- Medium(Stain-less)
			(DT-DC-6.5SUS)
			- Smallφ0.5~4mm (DT-DC-4)

Please refer to the table and chuck attachment specification for the details.

#### [Caution]

- Please note if you add load over capacity, its sensor would be broken down.
- While loading torque, the deflection of the sensor or the stand could be detected as a displacement error.
- An optional attachment and PC are not included.
- The software may not work by conditions.