

# Digest Torque measuring instrument series



Digital Torque Meter



Digital Torque Checker



Motor Torque Testing Machine



Screw Strength Testing Machine



Capping Machine

## High Function Digital Torque Meter

**TNX Series**

Cosmetics or Mechanics, Food Stuffs etc. every container's cap or lid, screw opening, fitting, from torque measurement to valve tightening power, measure with high accuracy.

**Corresponding P.P. Cap.**

Memory Function, 1st, 2nd, 3rd, Close,  
Every 1000 items registration is possible.

1st: Cap – Start Turning Torque.  
2nd: Seal Breaking Torque.  
3rd: Ring Cutting Torque.  
Close: Close Torque.  
(Torque when the Cap was crashed).

**USB Communication Function Built-in**

General purpose high USB when employed to interface, data collection with the cooperation of a PC, is quite comfortable.

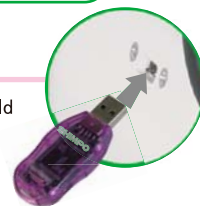
**Data Collection through Excel is also possible.**

Using the Exclusive Software "DIGITORUKUN\_TNX", measurement data compilation is easily possible. Data collection is possible either in USB Memory or USB Communication.

Download at Free of Cost from our home Page.

**Corresponding USB**

1000 Nos. Memory Recorded Values could be transmitted to USB Memory.

**3 PEAK Functions**

Torque Maximum Value could be extracted at 3 places.

**Clock Function**

Recording of Date and Time as to when the Opening/Fitting Peak Torque was performed, could be memorized.

**Corresponding Motor Torque**

Combining the TNX Torque Meter and DSP-10 Motor Torque Stand, Motor Torque Test is possible.

\* For Specifications, Please refer Page 7

## Digital Torque Meter

**TNP/TNJ Series**

## High Function Type TNP

**TNP Exclusive Software "DIGITORUKUN\_TNP"**

Download at Free from our Company's Home Page.

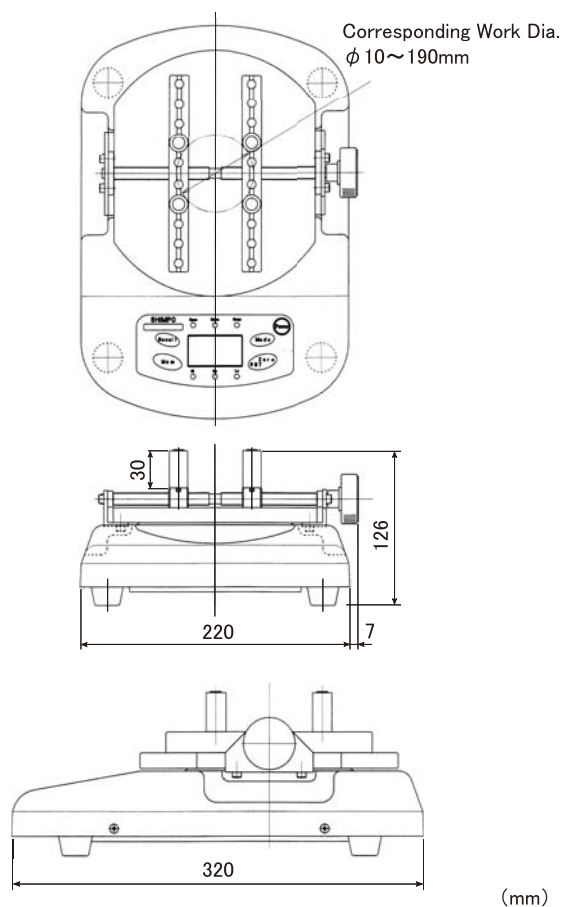
Through Excel, the opening fitting data could be collected.  
Memory data frequency allocation graph is drawn.



## Economy Type TNJ

**Easy Operation with High Accuracy.  
Simple Measurements.**

\* In the TNJ Series, USB Port, Decision Function etc. does not exist.  
For details, please refer Specifications.

**■ Dimensional Sketch(TNP/TNJ Series)**

(mm)

\* For Specifications, Please refer Page 7

Digital Torque Checker

# TRC Series



Adapter for Motor Driver

□20mm Adapter



For Torque checking of Torque Driver



For Torque checking of Torque Wrench



## CORRESPONDING USB COMMUNICATION

Easily feed the data to PC, starting with Excel, display data number, maximum, minimum, average value etc. to display the fed data on PC, exclusive software is prepared.

Download at Free of Cost from our home Page.

## With Upper Lower Limit Value Judgment Function

Through OK, NG LED the judgment result is displayed and with the buzzer informing the judgment, up to 10 nos. Setting is possible.

## 3000 items Memory

300 items data could be memorized with 10 patterns. With statistical function, Data No., Max. Value, Min. Value, Average Value is automatically calculated.

\* For Specifications, Please refer Page 8



● P.P. Cap Opening. Fitting Force (TNX)



● Screw Cap Opening. Fitting Force.



● Key Switch Torque Measurement



● Valve Opening/Closing Torque Measurement



● Test of Torque Wrench



● Torque Measurement of Door Lever

## Motor Torque Unit

**DSP-5E**

Opening torque is semi automatic for draw out check line.

## From Hand Work to Computerization

With the electrification, the manually performed torque test which was emerged by the opening work performed by people, the measurement torque scattering is now vanished.

## Setting the Digital Torque Meter

Setting the Digital Torque Meter **TNX, TNP or TNJ Series\*** to Exclusive Motor Torque Unit **DSP-5E**, rather high accuracy measurement is possible.

### \* Possible Installation Digital Torque Meter

TNX-0.5, TNX-2, TNX-5

TNP-0.5, TNP-2, TNP-5

TNJ-2, TNJ-5

Note : TNX/P/J-10 installation is not possible

## OPENING TORQUE

Opening torque test is possible by setting at will the rotational angle of rotating axle and rotation speed.



Note: Digital Torque Meter is sold separately.

For specifications please refer Page 9

# MOTOR TORQUE TESTING MACHINE

Wealthy torque test is possible.

## Setting of High Function Digital Torque Meter

Motor Torque Testing Machine set with High Function Digital Torque Meter **TNX Series** and Exclusive Motor Torque Stand **DSP-10**.

## Corresponding High Function to all types of needs

Using Servo Motor, with the uniform rotation speed, each angle torque could be measured. Scattering of measured data is resolved and rather high level test and control could be achieved.

### Rated Capacity

500mNm (0.5m)/2N.m/5N.m/10m serialized.

## WIDE MEASUREMENT

Cosmetics or mechanics, food stuffs etc., all kinds of container openings, fitting torque and the angle at that time, is measured automatically. Valve, axle, operational knob etc., torque variation could also be measured.

## USB COMMUNICATION

Exclusive Software Standard Equipment.  
Angle and torque data is displayed graphically, in Excel.



For specifications please refer Page 9

## Motor Torque Stand

**DSP-10****AUTOMATIC TORQUE TESTING**

Combined with High Function Digital Torque Meter **TNX Series**, High Accuracy Automatic Torque Testing is possible.

**DATA CONTROL FUNCTION STRENGTHENING**

Measured data extracted from the attached add-in software, Torque Angle Graphical Display is possible in Excel.

**Abundant Torque Test Mode**

- Angle Test
- Torque Test
- Return Test
- P.P. Test
- Extracting Test
- Destruction Test

For specifications please refer to page 9.

**Screw Strength Testing Machine****Realize High Accuracy Measurement**

Using Servo Motor, with the Uniform Rotation Speed, each Angle Torque could be measured. Scattering of measured data is resolved and rather high level test and control could be achieved.

**With exclusive software, extracting is possible.**

Extracting the measured data by exclusive software, torque and angle graphical display on Excel is possible.

**Data Control Function Built-in**

For specifications please refer to page 11



● Mobile Phone Opening Closing Torque Measurement



● HACCP, GMP corresponding, Cap Opening. Fitting Force



● Screw Torque Measurement



● Motor Cogging Torque Measurement



● Gear Head Racing Torque Measurement



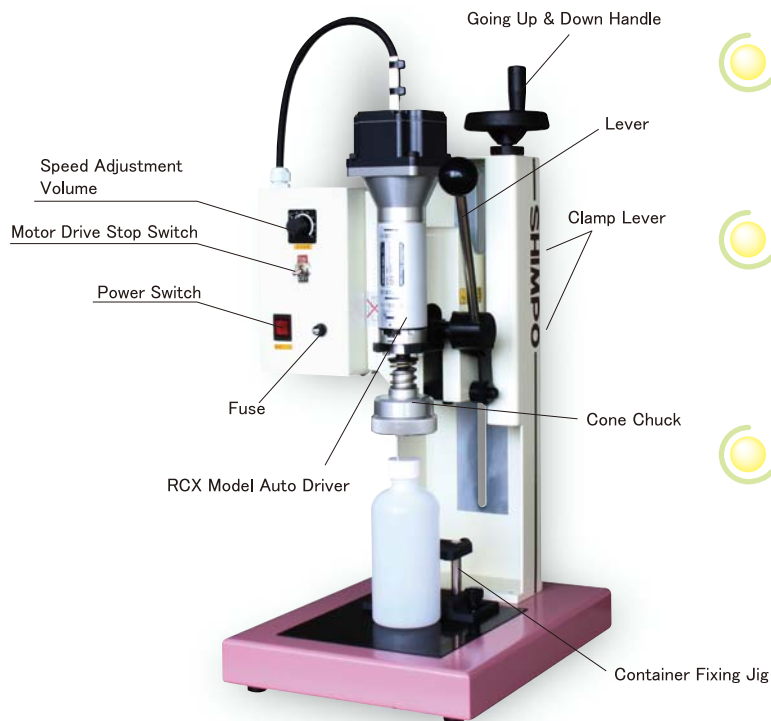
● Lens Zoom, Focus Torque Measurement



## Simple Model Table Top Manual Capper

# CRXL Series

From Manual to Computerization. Plenty Articles Variety, appropriate for small, medium volume



## Easy Operation

Capping workability, ratio, quality of product advancement. Appropriate for capping up with all kinds of size caps.

## Selecting Torque

Capping Torque could be adjusted.

CRXL-LModel : 0.5~2.0N·m

CRXL-HModel : 1.5~3.5N·m

## Employing Brush-less Motor

Employing brush-less motor, low electrical power consumption, low noise is realized. High accuracy stabilized capping is possible.

For specifications please refer Page 11

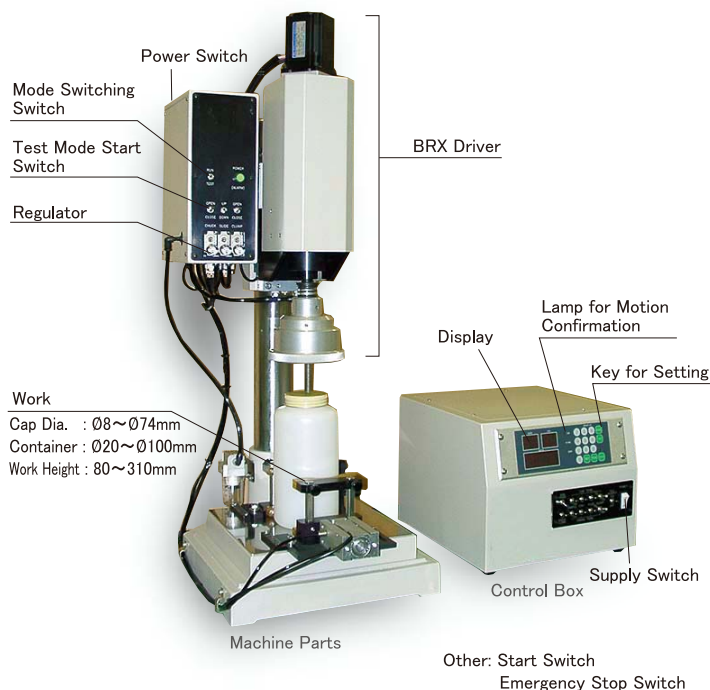
## Semi-Auto

Servo Type

# CRXB Series

Electronic Control type, BRX Model, Auto Driver

Efficiency, quality, and economical advancement.



## Workability, efficiency up!

- Corresponding to clamping of wide scope up to 0.5 to 10.0N.m (Unit 0.01Nm).
  - \* Depending upon the Container, Cap shape formation, material quality etc., coping-up with may not be possible. Hence please inquire beforehand.
- Setting is possible for rotation speed from 50~500rpm (Unit 1 rpm)
- With the control box, clamping torque digital display, upper lower limit judgment is possible.
- Free selection from 3 types of Cap Chuck.
  - Taper Cone Chuck, Air Chuck, 3 Hook Chuck.
- All data easy setting. (Data Setting).
  - Basic Clamping Torque
  - Upper Lower Limit Setting
  - Clamping Speed etc
- Capping clamping torque could be programmed up to 16 ways.
  - Conforming to work revision

## When clamping is finished, chuck stops. Safety

When the capping is finished, driver parts rise up and stops automatically.

## High Accuracy Torque is employed

Compact, as also high accuracy planetary gear type torque sensor is employed.

For specifications please refer Page 13

## Electronic Control Type Servo Driver

For Capping Machine Insertion

**BRX Series**

Driver Parts (BRXM)+Display Setting Equipment (BRXP)+Controller Parts (BRXD).

**High Scope Clamping is possible**Setting Torque Scope : 0.5~10.0N.m  
(5.1~102kgf.cm)Control Parts  
BRXDDisplay Setting Equipment  
BRXPDriver Part  
BRXM

Brush-less DC

ARX Non-Step Variable Speed

Digital Torque Sensor

Cap Chuck

**Reliable Corresponding to Diversified Capper**

- Reliably perform Clamping, Claim Cancellation.
  - No scattering of Clamping.
  - With the Cap Damage Prevention Function, No Liquid Leakage, No too much tightening.
- With the BRX Controller, Clamping Torque Displayed Digitally.
  - Check digitally the Clamping Torque and observe the goods normally.
  - Once in a way, if the Control Miss is generated, immediately the Abnormal Signal is displayed.
- From Diversified Axle Automobile to Table Top Model, corresponds to diversified Capper.
  - Connecting with RS422, setting with one machine only, maximum up to 10 machines, controller connection is possible.
- Torque Setting is possible for Various Article Varieties, and every Work.
  - Torque Setting is possible with wide scope of 0.5N.m~10.0N.m (Unit 0.01N.m)
  - Registration is possible for Setting Torque up to 16 articles.
  - Setting is possible for Revolution Speed from 50~500rpm (Unit 1rpm).
- High Clamping Accuracy and High Torque.
  - With Torque Feed-back Method, Clamp with High Accuracy.
  - With the movement of Step-less Speed Gear, coping up the load, the revolution speed is automatically varied and hence even with the Mini Model Motor, High Accuracy Clamping is possible.
- Coping up with the Load Torque, Revolution Speed is automatically controlled.
  - Since ARX Automatic Speed Change Gear (Step-less Speed Change Gear) is assembled and hence combining with Load Torque, Revolution Speed is automatically controlled.

**Realize the High Accuracy Torque Control.**

Mounting the Torque Sensor to Output Axle Side, with the already set Torque, Control in such a manner that the Clamping would be possible, and with this, High Accuracy Control is possible. After finishing the Clamping, Maximum Output Torque is displayed, and with the memorized Upper Lower Limit Value, Yes/No Judgment could be reached.

**When Necessary, Torque Value Print Out could be taken immediately**

Standard Equipment for Sentronix Standard Printer Output, RS-232 Output, Analog Output.

**Cleaned by the Brush-less Motor Employed, has High Life**

Maintenance Free, No Brush Dust.

SPECIFICATIONS・DIMENSIONAL DRAWING

■TNX Series

Model		TNX-0.5	TNX-2	TNX-5	TNX-10
Rated Torque		500mN・m(0.5mN)	2N・m	5N・m	10N・m
Measurement Scope		0.0 ∼ ±500.0mN・m	0.000 ∼ ±2.000mN・m	0.0000 ∼ ±5.000.0mN・m	0.0 ∼ ±10.00.0mN・m
Measurement Unit		mN・m, Switching to N・cm,			
Display Scope		0.0 ∼ ±500.0mN・m	0.000 ∼ ±2.000mN・m	0.0000 ∼ ±5.000.0mN・m	0.0 ∼ ±10.00.0mN・m
		0.00 ∼ ±50.00mN・m	0.0 ∼ ±200.0mN・m	0.0 ∼ ±500.0.0mN・m	0 ∼ ±10. 0.0mN・m
Display Resolution Ability		0.1mN・m	0.001mN・m		0.01mN.m
		0.01mN・m	0.1mN・m		1N.cm
Corresponding Work		Chuck Scope : ϕ 10 ∼ ϕ 190mm, Max. Mass 5kg., * Less than 5kg, if the Center of Gravity of the measurement item does not come to the center of Table.			
Load Display		“OVR” displayed to the LED Sub Display Parts, LED flickers.			
Display	Main Display Parts	4 Digit LCD Display, Letter Height 12mm			
	Sub Display Parts	3 Digit LCD Display, Letter Height 7mm			
	Judgment LED	Judgment LED – 3 Types (Hi, Go, Lo)			
Accuracy		± 0.5%/F.S.			
Measurement Mode		Opening Mode, Closing Mode, Average Mode			
Display period		● Average Mode : Selection out of 8times/sec., 4times/sec.,2times/sec. 1time/sec.    ● Open/Close Mode : 8times/sec. fixed.			
Memory	Memory	Opening PEAK Measurement is through 1PEAK, 2PEAK, 3PEAK			
	Memory Data No.	Opening 1st,2nd,3rd PEAK Value and for Closing 1000 items each Stored in Memory			
	Statistics Process	Average Value, Max. Value, Min. Value, Standard Deviation, Scattered.			
Judgment Function		● Opening 1st,2nd,3rd PEAK Value or Closing Judgment is possible.    ● As per Judgment LED Judgment Result is Displayed.			
Clock Function		Memorize Year, Month, Day, Hour, Min. attached to Torque Data			
Data Output	USB Communication	As per Exclusive Software USB1.1, Memory data collection			
	Printer	As per RS-232 Printer, Memory Data to Printing Port 19200bps Fixed.			
	USB Memory	Transmission of Memory Data to USB Memory is performed.			
Corresponding Software		Through the P.C. Software (DIGITORUKUN_TNX) Data collection is possible*			
Outer Parts Output		Over Load Output, Comparator Output : Open Corrector Output (Max. DC30V/5mA) Switching Over to either Over Load Output, or Comparator Output.			
Expansion Function		Possible to Connect to Motor Torque Stand(DSP-10)			
Accessories		USB Cable, AC Adapter, USB Memory, Chuck Pins (4Nos.)			
Power Supply		AC Adapter (DC9V/1.1A) or Inner Stored Nickel Hydrn.Battery (Chargeable), During charging measurement is possible. Battery Working Possible Period : After Full Battery Charge : About 8Hrs., Charging Period : Max. 10 Hrs. (Automatically gets OFF when fully charged) (AC 100V ∼ AC120V)			
Outer Dimensions (mm)		Width 227×Depth 320×Height 126			
Weight		7kg	8 kg		12.5 kg
Working Environment		0°C-40°C, 35 ∼ 85% RH (However, condensation not allowed)			

P.C. Software “DIGITORUKUN\_TNX” could be downloaded from our Company’s Home Page at Free of Cost.

■TNP/TNJ Series

TNP/TNJ  TNP only

Model		TNP-0.5(With Output)	TNP-2(With Output)/TNJ-2	TNP-5(With Output)/TNJ-5	TNP-10(With Output)/TNJ-10
Rated Torque		500mN・m(0.5mN)	2N・m	5N・m	10N・m
Measurement Scope		0 ∼ ± 500.0mN・m 0 ∼ ± 50.00N・cm	0.000 ∼ ± 2.000N・m	0.000 ∼ ± 5.000N・m	0.00 ∼ ± 10.00N・m
Measurement Unit		mN・m    N・cm	N・m    N・cm		
Display Scope		0.0 ∼ ± 500.0mN・m 0.00 ∼ ± 50.00N・cm	0 ∼ 2.000N・m 0 ∼ 200.0N・cm	0 ∼ 5.000N・m 0 ∼ 500.0N・cm	0 ∼ 10.00N・m 0 ∼ 1000N・cm
Display Resolution Ability		0.1mN・m / 0.01N・cm	0.001N・m / 0.1N・cm	0.001N・m / 0.1N・cm	0.01N・m / 1N・cm
Corresponding Work		Chuck Scope : Ø10~Ø190mm, Max. Mass 5kg, * Less than 5kg, if the Center of Gravity of the measurement item does not come to the center of Table.			
Load Display		“OVR” displayed to the LED Sub Display Parts, LED flickers.			
isplay	Main Display Parts	4 Digit LCD Display, Letter Height 12mm			
	Sub Display Parts	3 Digit LCD Display, Letter Height 7mm			
	Judgment LED	3 Types (Hi, Go, Lo) (Only for TNP Type)			
Accuracy		± 0.5%/F.S.			
Measuring Mode	Open Mode	At Opening Max. Value Displayed(PEAK Display) : Displays Max.Value at Measuring Table			
	Close Mode	At Closing Max. Value Displayed(PEAK Display) : Displays Max.Value at Measuring Table			
	Average Mode	Real Time Display (Average Value Display) : Displayed Real Time Max.Value at Measuring Table.			
Display period		● Average Mode : Selection out of 8times/sec., 4times/sec.,2times/sec. 1time/sec. ● Open/Close Mode : 8times/sec. fixed.			
Sampling Period		1msec.(1000times/sec.)			
Memory	Memory Data Count	1000 items (Max.)			
	Statistical Process	Average Value, Max. Value, Min. Value, (TNP TYPE ONLY)			
Data Output		USB 1.1			
Corresponding Software		Through the P.C. Software (DIGITORUKUN_TNX) Data collection is possible*			
Accessories	TNP	USB Cable, AC Adapter			
	TNJ	-	AC Adapter		
Power Supply	TNP	Inner Stored Nickle Hydrn. Battery or AC Adapter (AC 100V～AC240V)			
	TNJ	-	AC Adapter (AC100V ～ 240V)		
Outer Dimensions (mm)		Width 227 x Depth 320 x Height 126			
Weight		7kg	8 kg		12.5 kg
Working Environment		0℃ -40℃ , 35 ∼ 85% RH (However, condensation not allowed)			

P.C. Software “DIGITORUKUN\_TNP” could be downloaded from our Company’s Home Page at Free of Cost.

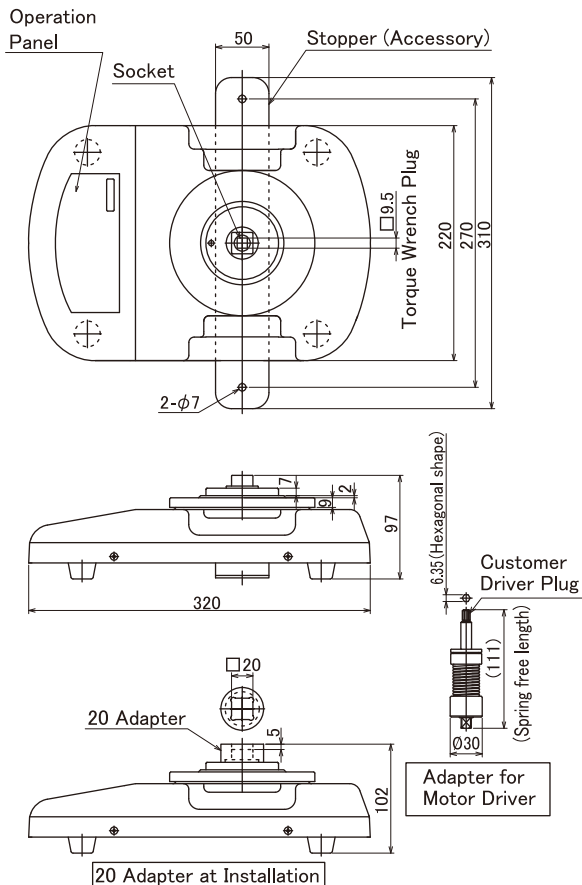


## ■ TRC Series

Model		TRC-2	TRC-5	TRC-10
Rated Torque		2N·m	5N·m	10N·m
Measurement Unit		N·m、N·cm		
Sampling Period		10msec, 100times/second		
Measurement Scope	N·m	0.020 ~ 2.000	0.050 ~ 5.000	0.10 ~ 10.00
	N·cm	2.0 ~ 200.0	5.0 ~ 500.0	10 ~ 1000
Display Resolution	N·m	0.001	0.001	0.01
	N·cm	0.1	0.1	1
Display		LCD Display 4 Digit, with Tag, Letter 12mm		
Accuracy		± 0.5%/F.S.		
Measurement Mode	PEAK	Torque Peak Value Preservation Display		
	MEAN	Torque is Displays Real Time		
Memory		Registration Item Nos. 3000 No.		
Upper, Lower Limit Judgment Function		Judgment Result is displayed by OK, NG LED. Further it informs by constant buzzer. Selection is possible by Judgment set into 10 Patterns.		
Data Input		USB 1.1 (Data Insertion by Exclusive Software)		
Power Supply		Inbuilt Nickel Hydrrn Battery.		
		AC Adapter (100 ~ 240V)		
Working Environ·ment		0 ~ 40°C 35 ~ 85% RH (However, condensation not allowed)		
Outer Dimensions (mm)		Width 320×Depth 97×Height 220 (For this machine only)		
Weight		6kg (For this machine only)		
P.C. Software		From SHIMPO HP Free Download		
Accessories		Adapter for Motor Driver, AC Adapter, USB Cable, Stopper		

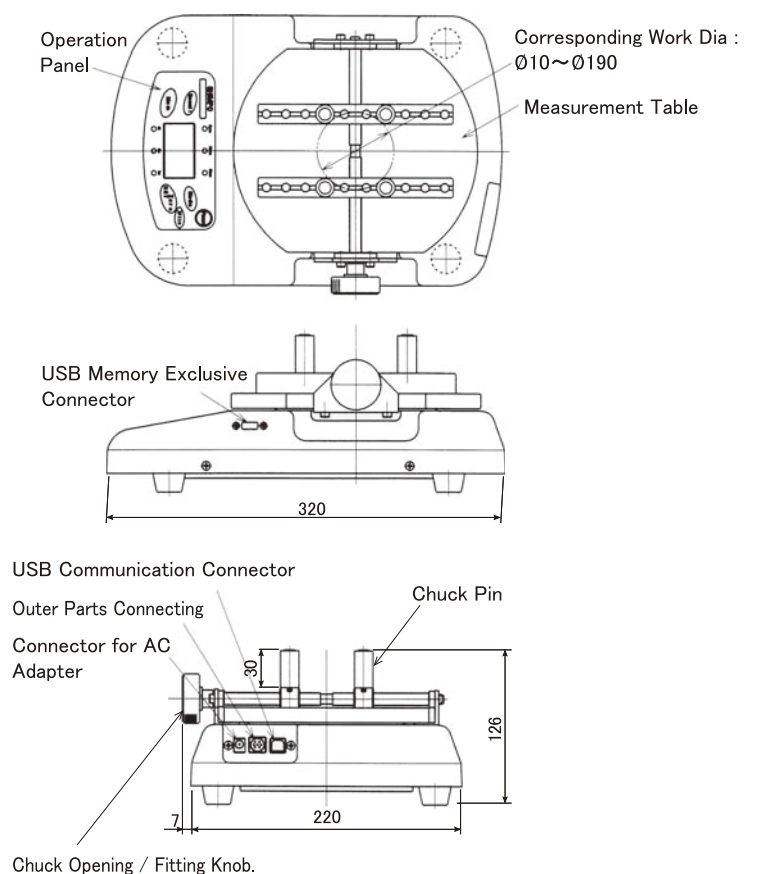
## ■ TRC Series

(mm)



## ■ TNX Series

(mm)



# SPECIFICATIONS ・ DIMENSIONAL DRAWING

## ■TNP-5E

Model		DSP-5E
Installation Possible Torque Meter		TNX-0.5、TNX-2、TNX-5 / TNP-0.5、TNP-2、TNP-5 / TNJ-2、TNJ-5 (Not include Digital Torque Meter)
Allowable Torque		5N・m
Chuck		Chuck Pin 20mm (4 Points)
Corresponding Cap Dia.		φ 12 ～ 70mm
Chuck Method		Handle, One Touch Clamp
Work Height Scope	Scope	40 ～ 300mm
	Structure	Adjustment through Handle
Display	LCD Display	4 digit display with sign (Display rotation angle)
Movement Mode		AUTO Mode/JOG Mode
AUTO MODE	Movement	Movement by setting Angle and Speed
	Direction	Opening (CCW Direction)
	Returning to Original Point	Home Movement (CW Direction)
	Speed Setting	Setting With Key Operation (0.5 ～ 12.5rpm)
	Angle Setting	Setting With Key Operation (1 ～ 1080o)
JOG MODE	Movement	Very Small Movement
	Direction	Opening (CCW Direction)/Closing (CW Direction)
	Speed Setting	Setting With Key Operation (0.5 ～ 12.5rpm)
Outer Shape Dimensions		Width 240 x Depth 506 x Height 864
Weight (Excluding Torque Meter)		About 15kg
Power Supply		AC100V(50/60Hz) 300VA
Working Condition		Temperature Scope 0 ～ 40℃ , Humidity Scope 0 ～ 85%RH

## ■ MOTOR TORQUE TESTING MACHINE

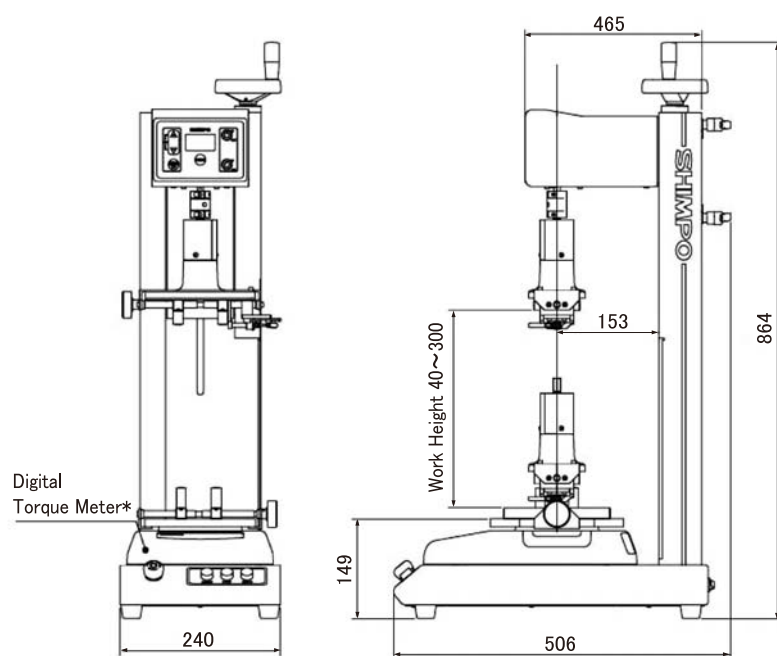
Model		TNX-0.5 + DSP-10	TNX-2+ DSP-10	TNX-5+ DSP-10	TNX-10+ DSP-10
Torque Sensor	Rated Torque	0.5N・m	2N・m	5N・m	10N・m
	Display Resolution	0.1mN・m / 0.01N・cm	0.001N・m / 0.1N・cm		0.01N・m / 1N・cm
	Measurement Unit	mN・m    N・cm	N・m    N・cm		
	Speed	± 0.5% / F.S.			
Rotating Axle	Rotation Speed	0.1 ~ 25.0rpm			
	Rotational Direction	Select Opening or Closing			
	Measurement Angle Resolution	0.1°			
	Measurement Angle	0° ~ 1440°			
	Data Output Period/Cycle	About 10times/sec., 20times/sec., 50times/sec., 100times/sec. Selection to be made			
	Over Load Detection	Stops at Over Load			
Corresponding Work		Chuck Scope φ 10 ~ φ 100			
Axle Raising Lowering	Movement Speed	10 ~ 600mm/min			
		Regarding Movement Scope, to be set with Upper Limit and Lower Limit Switch			
	Max. Shift Distance	400mm			
Test Movement		P.P.Test, Angle Test, Torque Test, Destruction Test, Returning Test, Extraction Test.			
Attached Software (Motor Torque Testing Machine Exclusive Software "TNT_DSP")		Setting of Revolution Speed, Angle Test.			
		Taking the Torque and Angle Data, Torque and Angle, Torque & Period Graph is displayed.			
		Movement Environment : Windows XP, Excel2003, Excel2007			
Accessories		USB Cable, Power Supply Cable, Others			
Power Supply		AC100V			
Outer Dimensions (mm)		Width 324 x Depth 577 x Height 900 (max.)			
Weight		* About 43kg			About 47.5kg

\* Mass is the Total of TNX Series and DSP-10

\* Excel is the Microsoft Trade Mark

■ TNP-5E

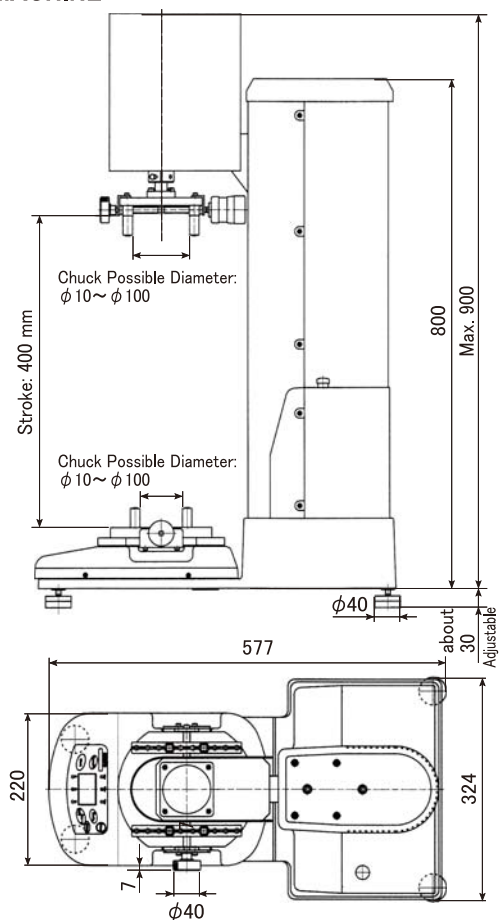
(mm)



\* Digital Torque Meter is sold separately.

■ MOTOR TORQUE TESTING MACHINE

(mm)



# SPECIFICATIONS • DIMENSIONAL DRAWING

## ■Screw Strength Testing Machine

Model		2N・m Model	5N・m Model	10N・m Model
Torque Sensor	Rated Torque	0.5N・m	2N・m	
	Switching through	N・m    N・cm		
Axle Revolution	Rotation Speed	0.1 ~ 25.0rpm		
	Rotational Direction	CCW or CW		
Axle Raising Lowering	Movement Speed	10 ~ 600mm/min		
		Movement Scope is to be set as per upper limit and lower limit switch		
	Max. Movement Distance	400mm		
Software	Form		Excel Add-in Software	
	Summary		Collecting the torque measurement value and angle data, display in Excel cell	
			Displays wavy form of torque measurement value and angle data	
			Upper and lower limit torque judgment value and ratio, Yes/No judgment	
	Test Movement		3 Types (angle test, torque test, and destruction test). Switching over is possible.	
	Data Collection	Torque	Scope and resolution is as per rating of digital torque meter TNX	
		Angle	0.0 ~ 1440°    Display Resolution 0.1°	
		Collection Period	10, 20, 50, 100 times/sec. selection	
	Yes/No Judgment		Setting the upper limit and lower limit judgment value, perform Yes/No judgment.	
	Data Control Function		Detection function of screw strength point.	
			3 graph compilation combination display is possible	
	Data Storage		Utilize Excel file storage function	
	Data Printing		Utilize Excel file print function	

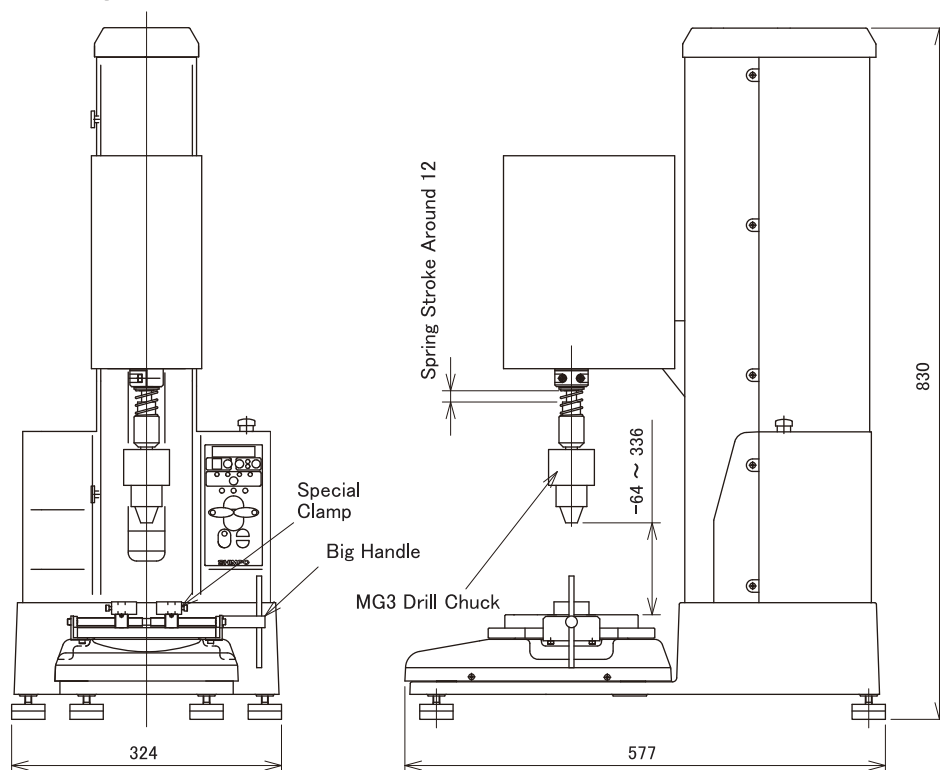
## ■CRXL Series

Model	CRXL-L	CRXL-H
Clamping Method	RX Model Automatic Speed Change Gear Store Torque Method	
Axle Output Torque Scope	0.5 ~ 2.0N・m	1.5 ~ 3.5N・m
Speed Change Scope	0.1 ~ 0.4 (Proportionate to Torque Scope)	
Torque Adjustment Method	Manual Dial Method (If Dial is rotated, the variable speed comparison changes)	
Drive Motor	Brushless Motor (120W)	
Motor Variable Speed Scope	200 ~ 2000rpm	
Output Axle Rotation Speed	20 ~ 800rpm (Proportionate to Torque Scope)	
Chuck	Taper Cone Shape	
Chuck Model (sold separately)	A Model : A08 A12 A16 B Model : B20 B28 B36 C Model : C44 C52 C60 C68 Selection to be made from	
Appropriate Work	Cap Diameter : $\phi$ 8 ~ $\phi$ 74mm (Select the Chuck mentioned above) Container Diameter : $\phi$ 20 ~ $\phi$ 100mm Work Height : 80 ~ 270mm	
Capping Method	Manual Lever Type (Stroke - 50mm)	
Container Clamping Method	By Position Fixing Jig Plate, Fix by Hand Method	
Outer Dimensions (mm)	Width 374×Depth 390 ×Height 730*1	
Weight	About 28kg	
Power Supply	AC100V (50/60Hz) 1KVA	
Working Conditions	Temperature Scope : 0 ~ 40°C , Humidity Scope : 0 ~ 85%RH	

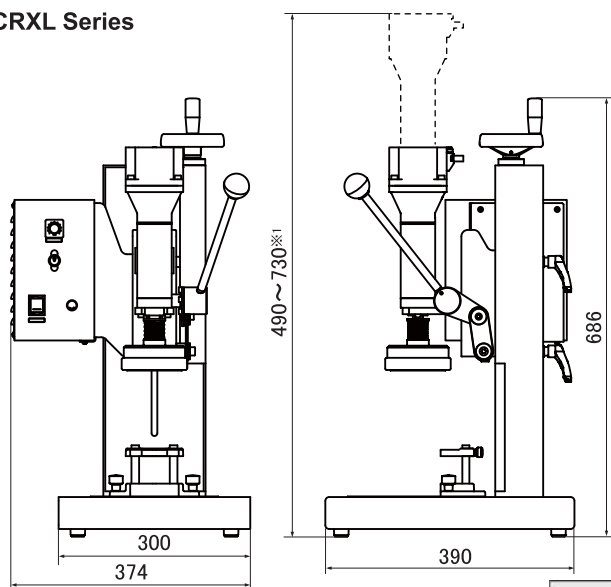
\* Specify specially and purchased.


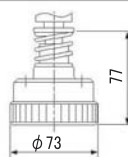
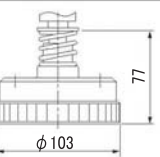
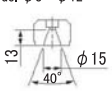
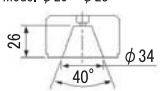
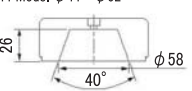
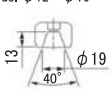
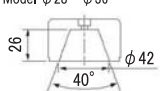
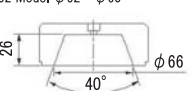
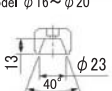
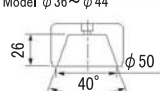
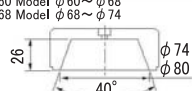
## ■ Screw Strength Testing Machine

(mm)



## ■ CRXL Series



Type	A Model Taper Cone Chuck	B Model Taper Cone Chuck	C Model Taper Cone Chuck
Cap Chuck Dimensions			
(mm)	$\phi 43$	$\phi 73$	$\phi 103$
	For A Model Installation to Chuck	For B Model Installation to Chuck	For C Model Installation to Chuck
	A08 Model $\phi 8 \sim \phi 12$	B20 Model $\phi 20 \sim \phi 28$	C44 Model $\phi 44 \sim \phi 52$
			
	A12 Model $\phi 12 \sim \phi 16$	B28 Model $\phi 28 \sim \phi 36$	C52 Model $\phi 52 \sim \phi 60$
			
	A16 Model $\phi 16 \sim \phi 20$	B36 Model $\phi 36 \sim \phi 44$	C60 Model $\phi 60 \sim \phi 68$ C68 Model $\phi 68 \sim \phi 74$
			
(mm)	$\phi 23$	$\phi 50$	$\phi 74$ $\phi 80$



# SPECIFICATIONS ・ DIMENSIONAL DRAWING

## ■CRXB Series

Model		CRXB Series
Tightening Torque Range		0.5 ~ 10.00N・m(5.1 ~ 102 kgf・cm) ※ Resolutin ; 0.01N・m
Main Axle Rotation Speed (Clamping Speed)		Free Selection possible through Panel Switch
		Max. Rotation Speed (at No Load) : 500rpm
		50 ~ 500rpm Setting possible (1 rpm Unit )
Conditional Setting Memory Count		Max. 16 Nos. ( Memorizing Condition at the time of Capping – 16 Nos.)
Appropriate Work		Cap. Dia. : $\phi$ 8 ~ $\phi$ 74 mm, Container Dia. : $\phi$ 20 ~ $\phi$ 100mm, Work Height : 80 ~ 310mm * Please submit the sample ahead of time.
Chucking Clamp Raising/ Lowering		Air Cylinder System (Air Pressure : 0.5 ~ 0.7MPa (as per customer's request)
Cap Chuck		Taper Cone Chuck, Air Chuck, Three Jaws Chuck – Select from
Outer Dimensions	This Machine Parts(mm)	Width 300×Depth 461×Height 875
	Control Box (mm)	Width 280×Depth 235×Height 340
Weight	This Machine Parts	30kg
	Control Box	11kg
Power Supply		AC100V 50/60Hz(450VA)

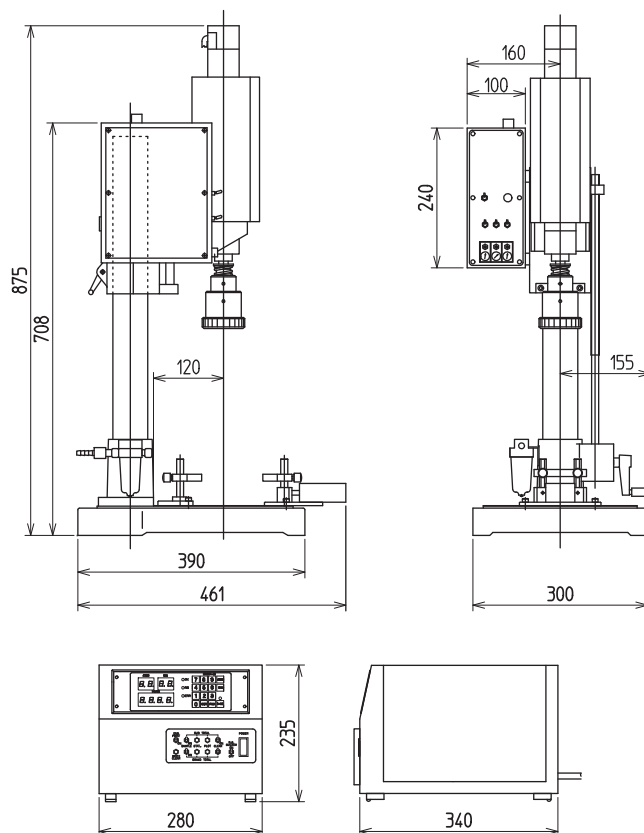
\* Please supply the sample work ahead of time. Further, Air Chuck or 3 Jaw Chuck if purchased, it will be matched to the sample Cap Dia. received, and the chuck will be manufactured.

## ■BRX Series

Model		BRX Series
Clamping Method		ARX Torque Feed Back System
Output Shaft Torque range		0.5 ~ 10.00N・m (Resolutin ; 0.01N・m )
Torque Display		At every tightening, tightening torque is displayed, As per upper and lower limits
Display Digits		4 Digits (Scope : 0.00 ~ 10.00N・m)
Torque Upper Lower Limits Judgment		OK/NG(LED display and outer parts signal output)
Torque Outer Parts Output		Centronix Standards Standard Equipment (Display Setting Equipment)
		RS-232C Standard Equipment (Display Setting Equipment)
		RS-422 Standard Equipment (Controller)
		In place of Display Setting Equipment, Output is possible to Programmable Control
		Analogue Output (Controller) 0 ~ 1.5VCD
Axle Output Rotation Speed		Max. 5000 rpm (at No Load condition)
		from 50 ~ 500rpm with 1rpm Unit, Setting (at No Load Revolution Speed)
Clamping Condition		Max. up to 16 Nos. setting is possible. Switching over is performed by panel or outer parts signal input
Torque Sensor		Gear Counter force Form Torque Sensor.(Distortion Gauge Digital Output Form)
Motor		Brush-less DC Motor (100W)
Self Diagnosis		At system abnormality, error message is displayed and output signal given to outer parts.
Power Supply	Driver (Main Axle Unit)	Motor, Sensor Power Supply is provided through Controller
	Display Equipment	AC85 ~ 253V 50/60Hz 20VA
	Controller	AC100V (200V separate Specification required) 50/60Hz 400VA DC24V(For I/O) 0.1A
Attached Cables	Torque Sensor Cable (5m)	Between BRXD – BRXM
	Motor Cable (5m)	Between BRXD – BRXM
	Motor Sensor Cable (5m)	Between BRXD – BRXM
	RS-422 Cable (5m)	Between BRXD – BRXM
	Input I/O Cable (2m)	Between BRXD – User
	Output I/O Cable (2m)	Between BRXD – User
	Power Supply Cable (2m)	Between BRXD – User

## ■CRXB Series

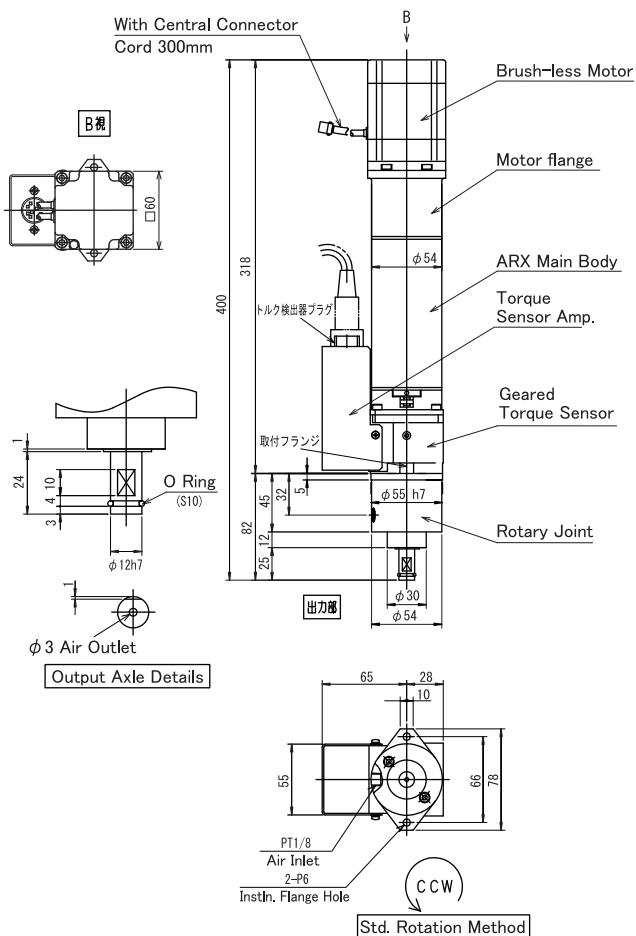
(mm)



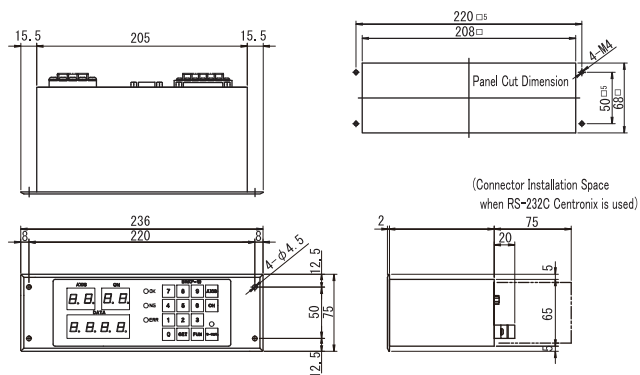
## ■BRX Series

(mm)

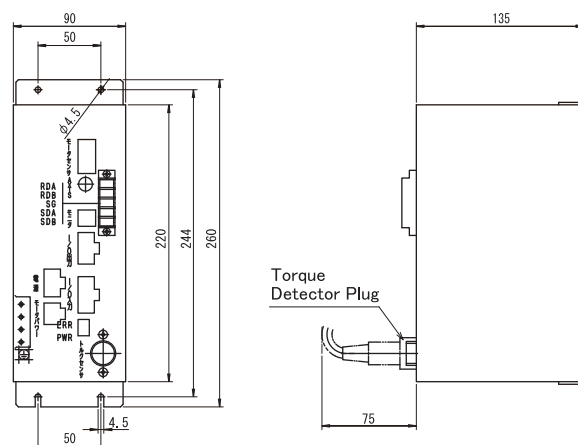
### BRX-RJU with Rotary Joint



### BRXP-10 (Display Equipment)



### BRXD-10 Drive Controller





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