

# NX Driver

## New high-precision, compact NX Driver Created!

Achieve the reduction in size and weight with inherited the performance of KX & NX driver which get a favorable reception to the optimization screw driving.

### All fastening conditions can be adjusted to perform the perfect fastening.

The fastening conditions that Torque, Speed and Angle can be input directly with numerical value. In response to the screw and workpiece, the fastening condition will be changed for each fastening point, which can be able to install the programs up to 16 numbers. It also performs high accuracy fastening with two-stage fastening process.

### Inherit the high performance to the screw driving

Provide two kind of screw driving method, one Torque monitoring and the other Torque control driving, which it can be met the most suitable method for all kind of workpieces.

### Innovate a new AC servo motor

It will be used the most suitable motor for screw driving and make it possible to the high accuracy control. Take care of the trouble by introducing high resolution Encoder with a function to detect error quickly. Reinforced cable connections prevent cable damage.

### Equipped with USB and RS485 Ports

It equipped with USB port to communicate with PC. Standard USB cable as commercial item can be used. It is easy to use communication software and improves the performance of maintenance. Additional RS485 port to use communicate with the external device will be created simple network.

### Available for waveform judgment (Option)

Torque waveform must be different between normal and fault screw driving. If it makes clear the waveform between, it can be detected screw driving fault. Also when it comes to fault, screw driving will be stopped and helped the damage for workpiece.





Applicable screw size M5 ~ M10  
High Torque Type

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**NITTO SEIKO CO.,LTD.**

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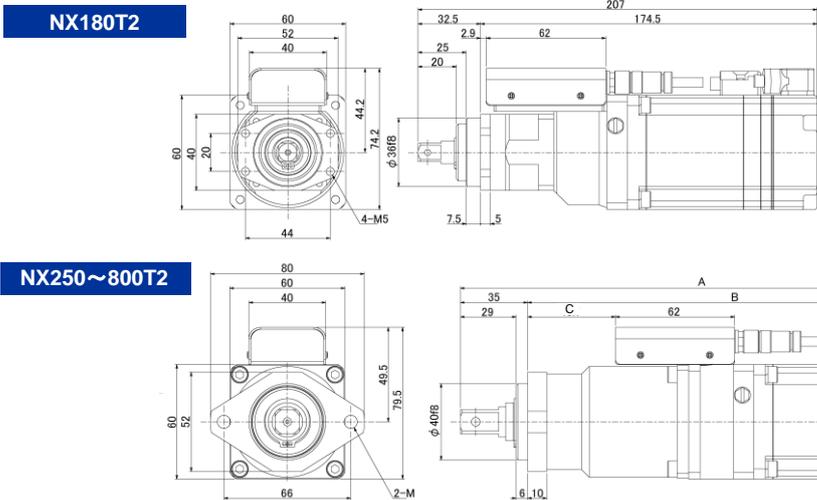
# High Torque Type NX Driver

## Specifications of tool unit

Tool unit model	※1	NX180T2-05S*-20	NX250T2-07S*-20	NX500T2-0ES*-20	NX800T2-1BS*-20
Setup torque range (N·m)	※2	5~18	8~24	15~45	30~80
Max. running speed (min <sup>-1</sup> )	※3	1,100	840	420	220
Output torque accuracy		3σ/x=3% or less			
Torque sensor		Planetary gear type reaction torque sensor (strain gauge)			
Tool unit weight (kg)		2.0	2.4	2.6	
Applicable controller model	※4	SD550T10-2020-■			
Control method		Torque / Angle			
Number of programs		16 sets, max. (from 0 to 15)			
Self diagnostic function		Indication of system error number and external signal output			
Power source		Single phase AC200~230V±10% 50/60Hz			
Max. power requirement (kVA)		1.3			
Controller weight (kg)		0.95			

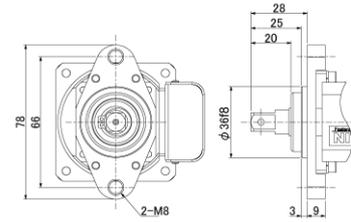
- ※1. The asterisk 「\*」 of model numbers indicate the Nitto Seiko control number.
- ※2. If the following conditions will be needed the tightening test with actual Driver. If it is necessary, please feel free to ask.  
 · It is required short cycle time. · It is need to keep the high torque value during tightening to the tapping screw.
- ※3. Rotating speed setting is limited by fastening condition.
- ※4. 「■」 mark into the model number indicates the optional processing function which analyze the wave form is included or not. (0: Not include, 2: Include)

## Tool unit outside dimension (mm)



## Dimension of TU series compatible flange attachment (mm)

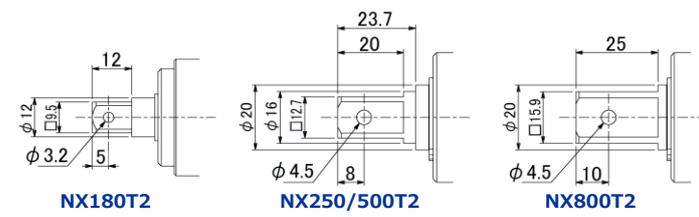
\* Option : Only NX180



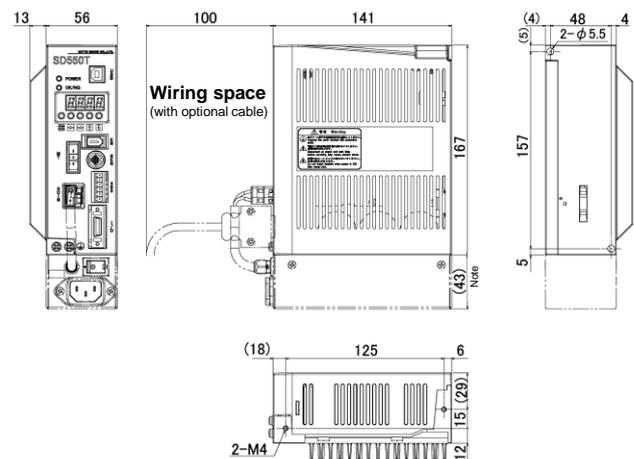
• Flange for installation compatibility with former model (TU Series).

Type	A:mm	B:mm	C:mm	M
NX250T2-07S1-20	224	189	19	M8
NX500T2-0ES1-20	251	216	46	M8
NX800T2-1BS1-20	251	216	46	M10

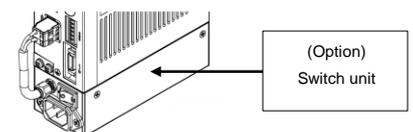
## Output shaft end dimension (mm)



## Controller outside dimension (mm)



**Note:**  
Optional Switch unit will be attached bottom of controller as right side picture.



## Details of component

- ① Tool Unit : 1pc
- ② Controller : 1pc
- ③ Motor Cable ※1, ※2 : 1pc Max 10m(Optional)
- ④ Encoder Cable ※1, ※2 : 1pc Max 10m(Optional)
- ⑤ Sensor Cable ※1 : 1pc Max 10m(Optional)
- ⑥ Power Connector : 1pc (It doesn't include a cable which is optional)
- ⑦ I/O Connector : 1pc (It doesn't include a cable which is optional)
- ⑧ Network Connector : 1pc

※1 Choose 2m, 5m or 7.5m (Other length is option up to 10m)  
 ※2 Model is different between NX008T2 and others.

## NITTO SEIKO CO.,LTD. Machinery Division

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