



CES5NX6D-G+QH6D

- Digital torque wrench for low range torque control, especially for plastic or light metal products tightening.
- Available to use in height restricted places as alternative of torque screwdrivers.
- By monitoring torque and angle, it prevents outflows of tightening error products.
- Transmits and receives data wirelessly to manage tightening sequence, conditions, and number of pieces (optional).
- CES5NX6D-G: 0.5 - 5N•m
CES10NX8D-G: 1 - 10N•m

Digital Torque Wrench

CES-G

Series



High precision, compact design allows for use in applications with limited access.

CES-G

Example of use

Ideal for low-torque tightening and inspection work on cable connectors, plastic screws, ceramic screws, etc.



For tightening in narrow areas where height and other restrictions make it difficult to tighten with a torque screwdriver or conventional torque wrenches.



For tightening work on delicate parts such as sensors and semiconductor manufacturing equipment.



Highly illuminated LED

The current tightening status and pass/fail judgment can be checked from various angles. Highly illuminated LEDs enable work in dark places.

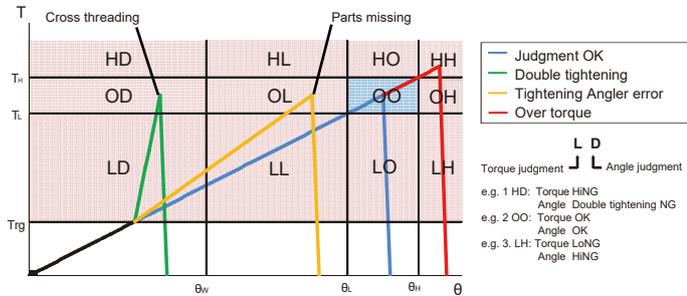
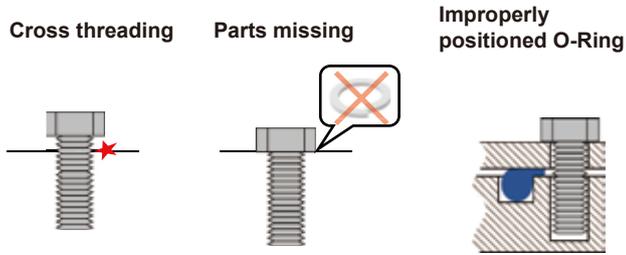


● If the judgment result is OK



● If the judgment result is NG

Abnormal tightening detection function



You can set the threshold for torque and angle, the tool judge the result by your settings.

- Trg: Trigger torque,
- TL: Lower limit torque, TH: Higher limit torque,
- θw: Double tightening detection angle,
- θL: Lower limit angle, θH: Higher limit angle

First digit alphabet describes torque judgment and second one does angle judgment as D, L, O, H.

Data transfer function



DtRcv screen



M-CES-BT (Optional)



Remove 2 pcs of screws

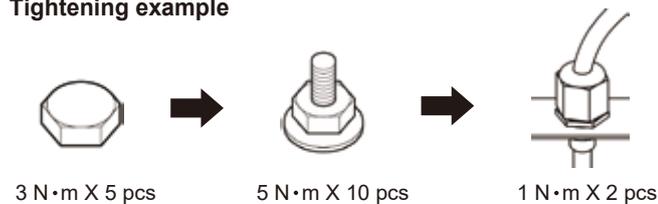
Output memory data via USB

DtRcv, a data receiver that enables data management in Excel®, is available free of charge.

By installing the optional Bluetooth module, tightening or inspection data can be wirelessly transmitted to a PC.

*Can be retrofitted by the customer.

Tightening example



TDMS screen



With the optional "TDMS" software, a single torque wrench can be used to tighten multiple bolts with different tightening conditions and send pass/fail data to a PC.

By monitoring torque and angle, the following tightening errors are detected to prevent outflow of defective products

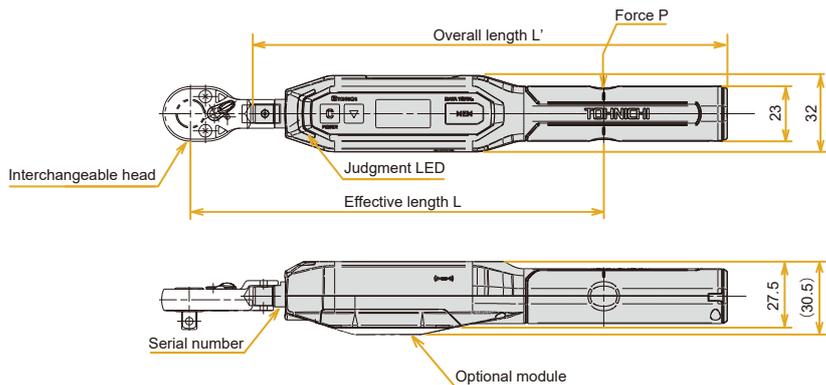
- ✓ Cross threading
- ✓ Parts missing
- ✓ Improperly positioned O-Ring

Double tightening detection

The method of counting the number of screws tightened is used as a countermeasure against missed tightening screws, but even if the same part is tightened twice, it is OK in terms of the count number of screws, which may result in defective products being released.

CES-G has a function to measure the angle and detect double-tightened screws, so it is possible to notice the missed tightening by combining this function with the fastening count control.

Common specifications



Angle Range	±2°+1digit (30 - 180°/s when the bolt turned to 90°)	
Display	LCD	Measurements (Torque, Angle, Unit)
		Counter 4 digits
LED	Judgment	Battery life indicator (4 steps)
		Antenna Mark (Optional)
Number of Data Memory	1,000 (Torque, Angle, Judgment)	
Data Output	USB Type-C connector	
	Bluetooth (Optional)	
	Communication mode : Classic (SPP) , BLE	
Basic Functions	RUN/Peak hold	
	Measurements memory	
	Auto memory & resetting	
	Measurement/Tightening mode	
	Tightening completion buzzer	
	Judgment of measurements	
	Double tightening detection	
	Auto zero	
Power Supply	Ni-MH battery	
Continuous Use	20 hours	
	(Connected with Optional Bluetooth: 8 hours)	
Recharging Time	3.5 hours	
Operating Temperature	0 - 40°C (Non-condensing)	

Model	Accuracy	Torque Range [N·m]		Torque Range [kgf·cm]		Torque Range [lbf·in]		Max. force P[N]	Dimensions [mm]		Weight [kg]	Standard head
		Min. - Max.	1 digit	Min. - Max.	1 digit	Min. - Max.	1 digit		L'	L		
CES5NX6D-G	+/-2%	0.5 - 0.995	0.005	5.00 - 9.95	0.05	4.50 - 9.95	0.05	30.9	194.5	162	0.17	QH6D
	+/-1%	1 - 5		10.00 - 50.00		10.00 - 44.00						
CES10NX8D-G	+/-2%	1 - 1.99	0.01	10.0 - 19.9	0.1	10.0 - 19.9	0.1	58.1	197.5	172	0.17	QH8D
	+/-1%	2 - 10		20.0 - 100.0		20.0 - 88.0						

*Comes with a battery pack, BP-5.

*Battery charger is sold separately.

Optional accessories

Bluetooth® expansion module



M-CES-BT

Bluetooth Version	V5.0	
Modulation Method	GFSK	
Wireless Output	8dBm	
Class	Class 1	
Profile	Classic	SPP
	BLE	GATT Original Profile
Distance	*10m	

*It will be varied, depending on signal environment and connecting devices.

Battery charger

Model
BC-3-G



Communication cable

Part No.	Applicable models
586	USB (Type C-Type C)
587	USB (Type C-Type A)



Interchangeable heads

Comes with a QH head for CES-G models



Spanner head type is ideal for bolt nut tightening or piping operation.



Ring spanner head firmly grips a fastener for safety and accurate operation.



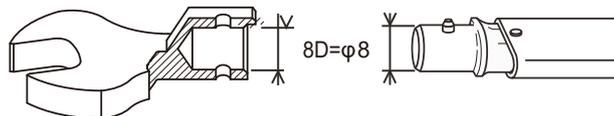
Hex Head can attach a Hex key for socket head cap screw tightening.



Use Tohnichi interchangeable heads only for Tohnichi torque wrenches

Our interchangeable heads are designed and manufactured exclusively for our interchangeable type torque wrenches. Be sure not to use our interchangeable heads with other brand of torque wrenches or any tools. It may cause malfunction or damages.

Interchangeable head wrench and Interchangeable head of the same size can be connected.



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