



# Torque Checker

Model **DLT1173A/DLT1673A/DLT1973A Series**

Accessories

## Features

Maintaining high assembly quality with ease

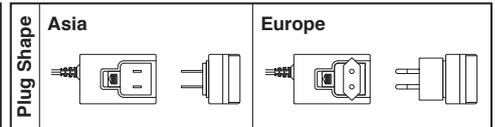
- Measured data is stored even after the power is turned off, preventing any data loss
- Energy saving type with AUTO POWER OFF function (Power is automatically turned off when left unused for 10 minutes)
- A program designed for uploading the data stored in the "delvo" torque checkers to a computer is available to download free from the Nitto Kohki website



[www.nitto-kohki.co.jp/e/prd/delvo/software/](http://www.nitto-kohki.co.jp/e/prd/delvo/software/)

## Specifications

Model	DLT1173A	DLT1673A	DLT1973A
Measurement Range (Nm[lbf·in])	0.015 to 1.500 [0.13 to 13.3]	0.15 to 10.00 [1.33 to 88.5]	4.00 to 12.00 [35.4 to 106.2]
Calibration Precision	Within ± 0.5% (Full Scale) For 0.2 Nm [2 lbf·in] or less ± 1 digit	Within ± 0.5% (Full Scale) For 2 Nm [20 lbf·in] or less ± 1 digit	Within ± 0.5% (Full Scale)
Display	4-digit digital display (Single-line) Data sampling: 1000 times/sec. Display rate: 12 times/sec.		
Measuring Unit	kgf · cm, Nm, lbf · in (selectable)		
Data Memory	800 pieces of data		
Measuring Direction	CW and CCW		
Measuring Mode	3 modes: PD-TR-PP		
Auto Power Off	Power off if left untouched for 10 minutes		
External Output	As per USB output Mitsutoyo Digimatic		
Analog Output	Approx. 1.5 V max.	Approx. 1.0 V max.	Approx. 1.1 V max.
	No zero offset; identical waveforms produced in PP, PD, and TR modes		
Continuous Operation Time	20 hours		
External Dimensions (mm)	W160 × D110 × H47 [W6.3" × D4.33" × H1.85"]		W200 × D112 × H48.5 [W7.9" × D4.41" × H1.89"]
Mass (g [lbs])	1100 [2.43]		1400 [3.09]
Rechargeable Battery	Nickel metal hydride battery		
Charger Type	DLE1833A		
Input Voltage for Charger	100 - 240 V AC, 50/60 Hz		
Charging Time	4 hours		
Standard Accessories	• Screw Joint (DLW4430)	• Bit Joint (DLW4360) • Spring for Joint (DLW4660)	• Soft Joint (DLW4000)



## Selection of Torque Checker

DLT1173A	DLT1673A	DLT1973A
DLV3300*1	DLV7100/DLV7200	DLV70A
DLV5700	DLV8100/DLV8200	DLV70S
DLV5800	DLV7500/DLV8500	DLV70A (For automation)
DLV7300	DLV3100*2	
DLV7000	DLV30A/DLV45A	
DLV8000	DLV30S/DLV45S	
DLV7400A	DLV16	
DLV02	DLV7104	
DLV12	DLV8104/DLV8204	
DLV04C	DLV30A/DLV45A	
DLV10C	(For automation) DLV45C	

\*1: A reversible screwdriver is required to loosen the measuring joint.

\*2: A reversible screwdriver is required to loosen the measuring joint. Screw joint is required.

## Optional Accessories

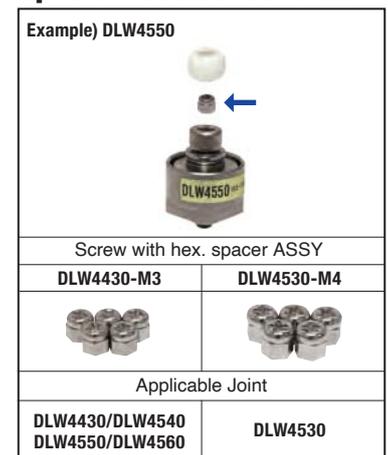
	Model	Part No.	Shape	Torque Range	DLT1173A	DLT1673A	DLT1973A
Bit Joint	DLW4330	TD03305	OD 4 mm [0.16"] type	0.015 to 0.25 Nm [0.13 to 2.2 lbf·in]	○	—	—
	DLW4340	TD03306	OD 4 mm [0.16"] type	0.015 to 1.5 Nm [0.13 to 13.3 lbf·in]	○	○	—
	DLW4350	TD03307	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.015 to 1.5 Nm [0.13 to 13.3 lbf·in]	○	○	—
	DLW4360	TD03308	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 to 6.5 Nm [1.3 to 57.5 lbf·in]	—	◎	—
Screw Joint	DLW4430	TD03309	screw type (Bit size No.2)	0.015 to 1.5 Nm [0.13 to 13.3 lbf·in]	◎	○	—
	DLW4530	TD03310	screw type (Bit size No.2)	0.15 to 5.0 Nm [1.3 to 44.3 lbf·in]	—	○	—
Soft Joint	DLW4000	TD04123		4.0 to 12.0 Nm [35.4 to 106.2 lbf·in]	—	○*	◎
Hard Joint	DLW4040	TD04124	Hex 13 [0.51"] type(Hex. head bolt)	0.15 to 12.0 Nm [1.3 to 106.2 lbf·in]	—	○*	○
Spring	DLW4660	TV03826	Spring for DLW4340, 4350, 4430	-	○	◎	—

◎ : Standard accessories ○ : Available as option — : Unsupported \*DLW4000 and DLW4040 must be used at 10 Nm[44.3 lbf·in] or less.

## Joint



## Optional Accessories for Joint



## Screw Joint for "delvo" Brushless Type C series

Screw Joint	Model	Application	Applicable Screwdriver		
			DLV04C	DLV10C	DLV45C
DLW4040	DLW4050	HARD fastening setting	—	—	○
DLW4540	DLW4550	SOFT fastening setting	○	—	—
DLW4560	DLW4560	HARD fastening setting	○	○	—

\*All joints are for forward rotation only.

\*Contains 5 pcs per set.