



CTB850N2×32D-G

Common Specifications

Data Memory	999 data (T-point torque)
Arithmetic Function	Sampling, Maximum, Minimum, Means
Measurement Mode	Peak/Run
Data Output	RS232C I/F, USB serial output
Zero Adjustment	Auto zero function (C key)
Other Function	Auto power off (3 min./10 min./30 min./non)
Power Source	Ni-MH Nickel metal-hydride battery
Continuous Use	Approx. 20 hours (8 hours by 1 hour charging)
Battery Charge	Approx. 3.5 hours
Operating Condition	0-40 Celsius

Software converts measured torque to initial tightening torque value.

Re-Chargeable

	Torque Range								Hand	Overall	T T		
Model Mir	N-m		kgf-cm		kgf⋅m		lbf∙in		lbf-ft		Force	Length	Weight
	MinMax.	1digit	MinMax.	1digit	MinMax.	1digit	MinMax.	1digit	MinMax.	1digit	[N]	[mm]	[kg]
CTB10N2×8D-G	2-10	0.01	20-100	0.1	0.2-1	0.001	20-90	0.1	1.5-7.3	0.01	48.1	212	0.46
CTB20N2×10D-G	4-20	0.02	40-200	0.2	0.4-2	0.002	36-180	0.2	3-14.5	0.02	92.2	214	0.47
CTB50N2×12D-G	10-50	0.05	100-500	0.5	1-5	0.005	100-440	0.5	7.5-36	0.05	196.9	282	0.58
CTB100N2×15D-G	20-100	0.1	200-1000	1	2-10	0.01	200-880	1	15-73	0.1	275.5	384	0.63
CTB200N2×19D-G	40-200	0.2	400-2000	2	4-20	0.02	360-1700	2	30-150	0.2	428.3	475	0.03
CTB360N2×22D-G	72-360	0.4	720-3600	4	7.2-36	0.04	650-3100	4	52-260	0.4	498.6	713	1805/85
CTB500N2×22D-G	100-500	0.5	1000-5000	5	10-50	0.05	890-4400	5	73-360	0.4	549.5	949	1.13
CTB850N2×32D-G	170-850	1	-	-	17-85	0.00	- 030-4400		124-620	1	608	1387	4.00 5.14

- 1. Overall length does not include interchangeable head.

- 2. For interchangeable head, refer to page 42-45.
 3. For infrared data transfer, use with R-DT999 (Refer to page 66).
 4. PH (Pipe wrench head) type interchangeable head is not available for this model.

- 1. Battery pack (BP-5) QH interchangeable head (Refer to page 44).
 Quick battery charger BC-3-G (100V-240V).

Battery	Pack	(P.47)
		f

BC-3-G

	Model
	BP-5
Quick Potton, Ch.	orgor (D.47)
Quick Battery Cha	arger (P.47)
Model	Description of the second of t

Printer (P.67)

	Model
	EPP16M3
Connecti	ng Cable (P.47)
Part #	Applicable Models
575	CTB2-G → PC, EPP16M3
584	CTB2-G, R-DT999G → PC

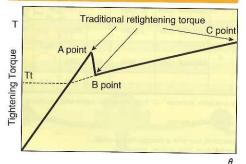
Data	Eiling	Cuatam	(Deel
Dala	FIIIII	System	(P.00)

Media
CD-ROM

Advantages of the New Retightening Method: T-point Method

- Anyone can measure the tightening torque easily.
- Requires less time to perform the measurement.
- Dispersion of data is small (Figure-3).
- No individual interpretation or performance variable is involved in measuring the torque (Figure-3).
- Internal software converts measured torque to initial tightening torque value (Figure-3).

Figure-1 Traditional retightening torque



Retightening Torque Method

Retightening torque method aims to measure the torque at which a tightened bolt start to rotate again as further torque is applied. The retightening measured values are classified as one of these three kinds:

- The torque which overcome the static friction of the bolt (A point).
- The torque at which the bolt starts on turn continuously (B point).
- The maximum torque at this inspection (C point).

Proposal of T-point method (Figure-2)

Retightening torque first starts with the rotation of the head only, then the screw starts to rotate. Shifting from static friction to dynamic friction, the friction whip settles and the torque starts to increase at the steady pace again. T-point method figures TT as retightening torque value.

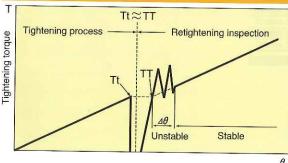
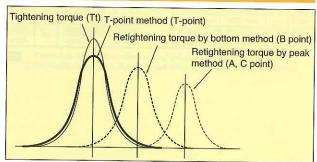


Figure-3 Distribution of retightening torque



Refer to Tohnichi Torque Handbook Vol. 8 on page 42 to 43 for the details.