CEM3-G

DATA TORK (Digital Torque Wrench)

Direction

NEW

CEM100N3×15D-G

COLOR UNIVERSAL DESIGN

Inspection | Digital | Interchangeable | Direct Reading | Re-Chargeable | RoHS

- Dual LED & LCD displays for optimal viewing
- 999 memory storage capacity
- For inspection and tightening

Accuracy ±1%

Model	Torque Range										Hand Force	Overall Length	Weight
	N·m		kgf·cm		kgf·m		lbf·in		lbf·ft				
	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	[N]	[mm]	[kg]
CEM10N3x8D-G	2-10	0.01	20-100	0.1	0.200-1.000	0.001	20.0-90.0	0.1	1.50-7.30	0.01	48.1	212	0.46
CEM20N3x10D-G	4-20	0.02	40-200	0.2	0.400-2.000	0.002	36.0-180.0	0.2	3.00-14.50	0.02	92.2	214	0.47
CEM50N3x12D-G	10-50	0.05	100-500	0.5	1.000-5.000	0.005	100.0-440.0	0.5	7.50-36.00	0.05	196.9	282	0.58
CEM100N3x15D-G	20-100	0.1	200-1000	1	2.00-10.00	0.01	200-880	1	15.0-73.0	0.1	275.5	384	0.63
CEM200N3x19D-G	40-200	0.2	400-2000	2	4.00-20.00	0.02	360-1700	2	30.0-150.0	0.2	428.3	475	0.78
CEM360N3x22D-G	72-360	0.4	720-3600	4	7.2-36.00	0.04	650-3100	4	52.0-260.0	0.4	498.6	713	1.13
CEM500N3x22D-G	100-500	0.5	1000-5000	5	10.00-50.00	0.05	890-4400	5	73.0-360.0	0.5	549.5	949	4.00
CEM850N3x32D-G	170-850	1	-	-	17.0-85.0	0.1	-	-	124-620	1	608	1387	5.14

Standard Accessories Battery Pack (BP-5), QH interchangeable head, Quick battery charger BC-3-G (100-240V)

Common Specifications

Display	7 segments LED 4 lines 10mm (Torque value)
	14 segments LCD 3 lines 7mm (Counter)
	7 segments LCD 4 lines 3mm (Clock)
	Battery life indicator (4 steps)
	Judgment LED RED/BLUE
Number of Data Memory	999 (M-2 mode: 99 data)
Communication Functions	RS232C (2400-19200bps)
	Serial output corresponding to a USB connecter
Power Supply	Ni-MH rechargeable battery
Continuous Use	Approx. 20 hrs with fully charged (8 hours by 1 hour recharging)
Recharging Time	Approx. 3.5 hours
Operation Temperature	0-40 Celsius no condensation
Basic Functions	Peak Hold, Auto memory & resetting, Tightening completion buzzer, Judgment of measured data, Auto zero setting, Auto off (3 minutes), Clock

Note

1. Overall length does not include interchangeable head.
2. For interchangeable heads, refer to pages 32-35.
3. For infrared data transfer, use with R-DT999. (Refer to page 56)
4. For USB data transfer, use with No. 584 connecting cable (Optional).
5. PH (Pipe wrench head) type interchangeable head is not available for this model.

Standard Accessories

1. Battery pack (BP-5)
2. QH Interchangeable head (Refer to page 34)
3. Quick battery charger BC-3-G (100-240V)

CEM3-P

RoHS

- Programmable version of CEM3 with data management software that links work name with test results

Torque Accuracy	±1%
Portion Registration Memory	Max. 100 parts (Part name, number of screws, tightening direction, high/low torque, measuring order)
Measurement Data Storage	Up to 3,000 screw data (vary depending on parts registered), measurement part name, measured value, pass/fail judgment, measurement time and date)

Model	Model	Model
CEM10N3x8D-P	CEM100N3x15D-P	CEM500N3x22D-P
CEM20N3x10D-P	CEM200N3x19D-P	CEM850N3x32D-P
CEM50N3x12D-P	CEM360N3x22D-P	

Battery Pack (P.39)

Model
BP-5

Quick Battery Charger (P.39)

Model	Description
BC-3-G	100V-240V

Printer (P.57)

Model
EPP16M2

Connecting Cable (P.39)

Part #	Applicable Model
379	CEM2, CEM3, R-DT999 → EPP16M2
575	CEM2, CEM3, R-DT999 → PC (D-sub 9 Pin Female)
584	CEM3, R-DT999 → PC (USB A type)

Data Filing System (P.56)

Model	Media
DFS	CD-ROM

Handy Terminal

HT-S5

Compact data collection device for CEM3-G

- Upload & download torque measuring information
- Guides user through torque assembly & quality inspection processes
- Statistics and charting capabilities

CTB2-G

Digital Retightening Torque Wrench

Direction

NEW

CTB100N2x15D-G

CTB850N2x32D-G

Inspection | Digital | Interchangeable | Signal | Re-Chargeable | RoHS

- Detects movement of fastener for more accurate testing
- Software converts measured torque to initial tightening torque value.

Accuracy ±1%

Model	Torque Range										Hand Force	Overall Length	Weight
	N·m		kgf·cm		kgf·m		lbf·in		lbf·ft				
	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	Min.-Max.	1digit	[N]	[mm]	[kg]
CTB10N2x8D-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
CTB20N2x10D-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
CTB50N2x12D-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
CTB100N2x15D-G	20-100	0.1	200-1000	1	2-10	0.01	200-880	1	15-73	0.1	275.5	384	0.63
CTB200N2x19D-G	40-200	0.2	400-2000	2	4-20	0.02	360-1700	2	30-150	0.2	428.3	475	0.78
CTB360N2x22D-G	72-360	0.4	720-3600	4	7.2-36	0.04	650-3100	4	52-260	0.4	498.6	713	1.13
CTB500N2x22D-G	100-500	0.5	1000-5000	5	10-50	0.05	890-4400	5	73-360	0.5	549.5	949	4.00
CTB850N2x32D-G	170-850	1	-	-	17-85	0.1	-	-	124-620	1	608	1387	5.14

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Standard Accessories

1. Battery Pack (BP-5)
2. QH interchangeable head (Refer to page 34)
3. Quick battery charger BC-3-G (100-240V)

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

Battery Pack (P.39)

Model
BP-5

Quick Battery Charger (P.39)

Model	Description
BC-3-100	100V
BC-3-200	200V-240V

Printer (P.57)

Model
EPP16M2

Connecting Cable (P.39)

Part #	Applicable Model
379	CTB2-G → EPP16M2
575	CTB2-G → PC (D-SUB 9 Pin Female)
584	CTB2-G → PC (USB A type)

Data Filing System (P.56)

Model	Media
DFS	CD-ROM