

TORQUE WRENCH

CEM3 DATA TORK



Easy to read Dual Displays (LED and LCD)
Up to 999 Measured Data Storage



CEM100N3 x 15D

Accuracy ± 1% + 1 digit

MODEL	CAPACITY		-M (Metric Model)				-A (English Model)				OVERALL LENGTH mm	INTERCHANGEABLE HEAD OPTION TOHNICHI HEAD SIZE	WEIGHT Approx. kg	REFERENCE PREVIOUS MODEL	CAPACITY	
			CAPACITY		CAPACITY		CAPACITY		CAPACITY						MIN.~MAX.	1 digit
	MIN.~MAX.	1 digit	MIN.~MAX.	1 digit	MIN.~MAX.	1 digit	MIN.~MAX.	1 digit	MIN.~MAX.	1 digit					mm	SIZE
CEM10N3 x 8D	N·m 2~10	0.01	kgf·cm 20~100	0.1			lbf·in 20~90	0.1			212	8D	0.46	CEM9N2 x 8D	N·m 1.8~9	0.01
CEM20N3 x 10D	4~20	0.02	40~200	0.2			36~180	0.2			214	10D	0.47	CEM18N2 x 10D	3.6~18	0.02
CEM50N3 x 12D	10~50	0.05	100~500	0.5			100~450	0.5			282	12D	0.58	CEM45N2 x 12D	9~45	0.05
CEM100N3 x 15D	20~100	0.1	200~1000	1			200~900	1	15~75	0.1	684	15D	0.63	CEM90N2 x 15D	18~90	0.1
CEM200N3 x 19D	40~200	0.2	400~2000	2					30~150	0.2	475	19D	0.78	CEM180N2 x 19D	36~180	0.2
CEM360N3 x 22D	70~360	0.4	720~3600	4					52~260	0.4	713	22D	1.13	CEM360N2 x 22D	72~360	0.4
CEM500N3 x 22D	100~500	0.5	kgf·m 10~50	0.05	10~50	0.05			72~360	0.5	949	22D	4	CEM500N2 x 22D	100~500	1
CEM850N3 x 32D	170~850	1	17~85	0.1	17~85	0.1			124~620	1	1387	32D	5.14	CEM850N2 x 32D	170~850	1

Note : Metric model is named "-M", e.g. CEM10N3 x 8D-M for 20-100kgf·cm
English model is named "-A", e.g. CEM20N3 x 10D-A for 36-180lbf·in

CEM3 OPTION

BATTERY PACK

MODEL	DESCRIPTION
BP-5	

PRINTER.....P.41

MODEL	DESCRIPTION
EPP16M2	

SOFTWARE.....P.41

MODEL	DESCRIPTION
DFS	

BATTERY CHARGER

MODEL	DESCRIPTION	MODEL	DESCRIPTION
BC-3-100	110V	BC-3-200	220V

CONNECTING CABLE

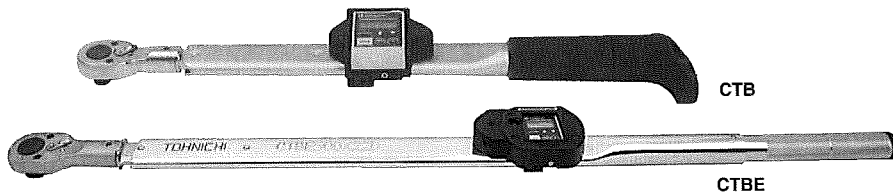
MODEL	DESCRIPTION
379	CEM2, CEM3, R-DT999 → EPP16M2
375	CEM2, CEM3, R-DT999 → PC (D-SUB 9 pins Female)
384	CEM3, R-DT999 → PC (USB A Connector)

DISPLAY (Torque value) (Counter)	7 segments LED 4 lines 14 segments LCD 3 lines
DIGIT HEIGHT (Torque value) (Counter)	10mm for LED 14 segments 7mm, 7 segments 3mm for LCD
NUMBER OF DATA MEMORY	999 (99 for CEM2 mode)
BASIC FUNCTION	Peak hold Peak data Memory Run Mode Auto Memory & Resetting Auto Zero setting Auto Off (3 min) Over Torque Alarm Clock
COMMUNICATION FUNCTIONS	RS232C (2400-19200bps) Serial output corresponding to a USB connector
BATTERY LIFE INDICATOR	Available
POWER SUPPLY	Ni-MH rechargeable battery
CONTINUOUS USE	Approx. 20 hours with fully charged (8 hours by 1 hour recharging)
RECHARGING TIME	Approx. 3.5 hours
TEMPERATURE IN USE	0~40 degree

CTB DIGITAL RETIGHTENING WRENCH



Digital Torque Wrench for Re-Start Torque Method.



CTB

CTBE

Accuracy ± 1% + 1 digit

MODEL	EFFECTIVE LENGTH mm	OVERALL LENGTH mm	WEIGHT Approx. kg	TOHNICHI HEAD SIZE	CAPACITY								
					N.M		KG.F.CM		LBF.IN		LBF.FT		
					MIN.~MAX.	1 DIGIT	MIN.~MAX.	1 DIGIT	MIN.~MAX.	1 DIGIT	MIN.~MAX.	1 DIGIT	
CTB20 x 10D	231	295	0.6	10D	4~20	0.02	40~200	0.2	36~180	0.2			
CTB50 x 12D	319	360	0.7	12D	10~50	0.05	100~500	0.5	100~450	0.5			
CTB100 x 15D	409	433	0.8	15D	20~100	0.1	200~1000	1	200~900	1		15~75	0.1
CTB200 x 19D	489	500	1.1	19D	40~200	0.2	400~2000	2				30~150	0.2
CTB360 x 22D	749	743	1.6	22D	72~360	0.4	720~3600	4				52~260	0.4
CTBE500 x 22D	917	912	3.5	22D	100~500	0.5	100~5000	5				72~360	0.5
CTBE850 x 32D	1370	1383	4.9	32D	170~850	1	1700~8500	10				124~620	1

MEASUREMENT DIRECTION	Clockwise Only
DISPLAY	LCD Display, Counter : 3mm and torque : 7mm
DATA MEMORY	50 data
ARITHMETIC FUNCTION	Sampling, Maximum, Minimum and Means
MEASUREMENT METHOD	PEAK/RUN
DATA OUTPUT	RS232C, I/F Infrared ray
ZERO ADJUSTMENT	Auto zero
OTHER FUNCTION	Auto-power off and auto-memory, Battery Check
POWER SOURCE	Ni-Cd battery
CONTINUOUS USE	8 hours
BATTERY CHARGE	1 hour
OPERATING CONDITION	0~40°C

CTA/CTB OPTION

BATTERY PACK

MODEL	DESCRIPTION
BP-3	

PRINTER.....P.41

MODEL	DESCRIPTION
EPP16M2	

SOFTWARE.....P.41

MODEL	DESCRIPTION
DFS	

AC ADAPTER

MODEL	DESCRIPTION	MODEL	DESCRIPTION
QC-1	AC adapter, 110V	QC-2	AC adapter, 220V

CONNECTING CABLE

MODEL	DESCRIPTION
378	CTA/CTB to EPP16M2
379	CTA/CTB to PC, D-SUB 9 pins Female

Note 1 : Overall length is without head.
Note 2 : GH head is provided. Other interchangeable heads are sold separately.
Note 3 : PH interchangeable heads can not be used with this series.
Note 4 : AC adapter is included for charging the unit.
Note 5 : For data transfer by infrared, use R-DT100-3, Data Tank. See page 4.1.

Note 6 : Please specify desired scale, S.I., Metric or Imperial, when ordering.
Note 7 : Statistic data processing can be done by DFS.