



# TOHNICHI *Major Product Line*

*Torque Wrenches*

*Torque Drivers*

*Torque Measuring  
Instruments*



## Click Type Torque Wrench

Basic adjustable click style with resin grip

# QL

For Tightening ◀  
Adjustable ◀  
Ratchet Head ◀



Accuracy ±3%

MODEL	CAPACITY		OVERALL LENGTH mm	SQUARE DRIVE mm	WEIGHT APPROX. kg
	MIN.-MAX. N-m	GRAD. N-m			
QL1.5N4	0.3~1.5	0.01	160	6.35	0.16
QL3N4	0.6~3	0.02			
QL6N4	1~6	0.05	195		
QL12N4	2~12	0.1	230	9.5	0.25
QL25N	5~25	0.25	260	9.5	0.45
QL50N	10~50	0.5	335	12.7	0.69
QL100N4	20~100	1	400	12.7	0.88
QL140N	30~140		490		1.4
QL200N4	40~200		695	19.0	2.0
QL280N	40~280	2	995	19.0	3.4

## Dial Indicating Torque Wrench

Ideal for torque measuring with memory pointer

# DB-S

For Inspection ◀  
Dial Indicating ◀  
Memory Pointer ◀



Accuracy ±3%

MODEL	CAPACITY		OVERALL LENGTH mm	SQUARE DRIVE mm	WEIGHT APPROX. kg
	MIN.-MAX. N-m	GRAD. N-m			
DB1.5N4-S	0.2~1.5	0.02	205	6.35	0.4
DB3N4-S	0.3~3	0.05			
DB6N4-S	0.6~6	0.1			
DB12N4-S	1~12	0.2	245		
DB25N-S	3~25		320	9.5	0.6
DB50N-S	5~50	0.5	400	12.7	0.7
DB100N-S	10~100	1	500	12.7	1
DB200N-S	20~200	2	690	19.0	1.65
DB280N-S	30~280	5	890	19.0	2.5

## Click Type Torque Wrench

Interchangeable head style for multi-purpose use

# CL

For Tightening ◀  
Adjustable ◀  
Interchangeable Head ◀



Accuracy ±3%

MODEL	CAPACITY		OVERALL LENGTH mm	TOHNIKI HEAD SIZE	WEIGHT APPROX. kg
	MIN.-MAX. N-m	GRAD. N-m			
CL1.5N4x8D	0.3~1.5	0.01	140	8D	0.13
CL3N4x8D	0.6~3	0.02			
CL6N4x8D	1~6	0.05	175		
CL12N4x8D	2~12	0.1	205	10D	0.22
CL25Nx10D	5~25	0.25	230	12D	0.4
CL50Nx12D	10~50	0.5	235		0.4
CL100Nx15D	20~100		310	15D	0.6
CL140Nx15D	30~140	1	370		0.72
CL200Nx19D	40~200		455	19D	1.3
CL280Nx22D	40~280	2	655	22D	1.8
CL420Nx22D	60~420		940	22D	3.1

## Beam Type Torque Wrench

Scale plate with pointer for torque measuring

# SF/F

For Inspection ◀  
Beam Type ◀  
Direct Reading ◀



Accuracy ±3%

MODEL	CAPACITY		OVERALL LENGTH mm	SQUARE DRIVE mm	WEIGHT APPROX. kg
	MIN.-MAX. cN-m	GRAD. cN-m			
SF40CN	8~40	2	110	6.35	0.04
SF70CN	10~70		135		
SF1.5N	0.2~1.5	0.05	145		0.07
SF3N	0.5~3	0.1	175	6.35	0.09
SF6N	0.6~6	0.2	205		
SF12N	2~12	0.5	235		0.25
F23N	3~23		295	9.5	0.4
F46N	5~46	1	355		
F92N	10~92	2	400		0.95
F130N	20~130		445	12.7	1.2
F190N	30~190	5	490		1.5

## Click Type Torque Wrench

Knurled metal handle version of QL

# QL-MH

For Tightening ◀  
Adjustable ◀  
Ratchet Head ◀



Accuracy ±3%

MODEL	CAPACITY		OVERALL LENGTH mm	SQUARE DRIVE mm	WEIGHT APPROX. kg
	MIN.-MAX. N-m	GRAD. N-m			
QL25N-MH	5~25	0.25	230	9.5	0.25
QL50N-MH	10~50	0.5	260	9.5	0.45
QL100N4-MH	20~100		335	12.7	0.69
QL140N-MH	30~140	1	400	12.7	0.79
QL200N4-MH	40~200		490		1.4
QL280N-MH	40~280	2	695	19.0	2.0

## Digital Type Torque Wrench

Data Tork, dual LED & LCD displays for tightening and inspection

# CEM3

For Tightening & Inspection ◀  
Digital Display ◀  
Interchangeable Head ◀



Accuracy ±1%+1digit

MODEL	CAPACITY		OVERALL LENGTH mm	TOHNIKI INTERCHANGEABLE HEAD SIZE	WEIGHT APPROX. kg
	MIN.-MAX. N-m	1 DIGIT N-m			
CEM10N3x8D	2~10	0.01	212	8D	0.46
CEM20N3x10D	4~20	0.02	214	10D	0.47
CEM50N3x12D	10~50	0.05	282	12D	0.58
CEM100N3x15D	20~100	0.1	384	15D	0.63
CEM200N3x19D	40~200	0.2	475	19D	0.78
CEM360N3x22D	70~360	0.4	713	22D	1.13
CEM500N3x22D	100~500	0.5	949	22D	4
CEM850N3x32D	170~850	1	1387	32D	5.14

## Semi-Automatic Airtork

Pneumatic motor mounted on torque wrench

# AC

For Tightening ◀  
Pneumatic ◀  
Adjustable ◀



Accuracy ±3%

MODEL	CAPACITY		MAX. PROVISIONAL TIGHTENING TORQUE N-m	FREE ROTATION r.p.m	AIR PRESSURE MPa	HOSE IN DIA. mm	OVERALL LENGTH mm	SQUARE DRIVE mm	WEIGHT APPROX. kg
	MIN.-MAX. N-m	GRAD. N-m							
AC25N	5~25	0.25		1000	0.6	ø5	293	9.5	1.3
AC50N	10~50	0.5							
AC100N	20~100	1	17.5	900					
AC180N	40~180	2	19	800		ø6	335.3	12.7	1.8
							489		2.7

## Digital Type Angle Wrench

Snug torque and angle setting functions

# CTA

For Tightening ◀  
Digital Display ◀  
Interchangeable Head ◀



Accuracy ±1%+1digit

MODEL	ANGLE MEASURING RANGE MIN.-MAX. 1 DIGIT	ANGLE ACCURACY	CAPACITY		OVERALL LENGTH mm	WEIGHT APPROX. kg	TOHNIKI HEAD SIZE
			MIN.-MAX. N-m	1 DIGIT N-m			
CTA50x12D		±2°+1digit	(2.5)10~50	0.05	360	0.7	12D
CTA100x15D		Angular Velocity is 30°/s	(5)20~100	0.1	433	0.8	15D
CTA200x19D	0~999°	~180°/s when the bolt is turned to 90°	(10)40~200	0.2	500	1.1	19D
CTA360x22D			(18)72~360	0.4	743	1.6	22D

Note: Metric (kgf.cm, kgf.m, etc.) and American (in.lbs, ft.lbs, etc.) units are available for all the above products.

## Rotary Slip Torque Driver

Ratcheting mechanism prevents over torque

# RTD

- For Tightening ◀
- Rotary Slip ▶
- Adjustable ▶



Accuracy ±3%

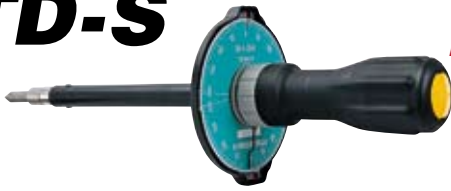
MODEL	CAPACITY		OVERALL LENGTH	WEIGHT APPROX.
	MIN.-MAX.	GRAD.		
RTD15CN	2-15	0.1		
RTD30CN	4-30	0.2	100	50
RTD60CN	10-60	0.5	110	80
RTD120CN	20-120	1	130	155
RTD260CN	60-260	2	150	265
RTD500CN	100-500	2.5	155	320

## Dial Indicating Torque Driver

Direct reading style for measuring torque

# FTD-S

- For Inspection ◀
- Dial Indicating ▶
- Memory Pointer ▶



Accuracy ±3%

MODEL	CAPACITY		OVERALL LENGTH	BITS	WEIGHT APPROX.
	MIN.-MAX.	GRAD.			
FTD2CN-S	0.3-2	0.05			
FTD5CN-S	0.5-5	0.1	152		140
FTD10CN-S	1-10	0.2			
FTD20CN-S	3-20	0.5			
FTD50CN2-S	5-50	1		Bits are options	
FTD100CN2-S	10-100	2	272		370
FTD200CN2-S	30-200	5			
FTD400CN2-S	50-400	10			
	N-m	N-m			
FTD8N2-S	1-8	0.2	340	#3	900
FTD16N2-S	3-16	0.5		1.2x12	930

## Digital Type Torque Driver

Digital torque screwdriver for measuring torque

# STC

- For Inspection ◀
- Digital Display ▶
- Direct Reading ▶



Accuracy ±1%+1digit

MODEL	CAPACITY		OVERALL LENGTH	WEIGHT APPROX.
	MIN.-MAX.	GRAD.		
STC50CN	10-50	0.05		
STC200CN	40-200	0.2	201	420
STC400CN	80-400	0.5		

## Torque Gauge

Ideal for measuring and calibration for micro torque

# ATG

- Dial Indicating ◀
- 3-jaw Chuck ▶
- Hand-held Type ▶



Accuracy ±2%

MODEL	CAPACITY		CHUCK GRIP	DIMENSIONS		WEIGHT APPROX.
	MIN.-MAX.	GRAD.		OVERALL LENGTH	DIAMETER	
ATG045CN	0.05-0.45	0.01				
ATG09CN-S	0.1-0.9					
ATG1.5CN-S	0.2-1.5	0.02				
ATG3CN-S	0.3-3	0.05	1-ø6.5	90	43.5	180
ATG6CN-S	0.6-6	0.1				
ATG12CN-S	1-12	0.2				
ATG24CN-S	3-24	0.5				

## Digital Torque Wrench Tester

Mechanical loading device with data processing capabilities

# DOTE

- For Calibration ◀
- Digital Display ▶
- Manual Operation ▶



Accuracy ±1%+1digit

MODEL	CAPACITY		MAX. EFFECTIVE LENGTH	INLET DRIVE	DIMENSIONS			WEIGHT APPROX.	STANDARD ADAPTER	
	MIN.-MAX.	1 DIGIT			OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT		SQUARE	HEX
DOTE20N3	2-20	0.005								
DOTE50N3	5-50	0.01	410	9.5	505	263	221	11	6.3	10-13-19
DOTE100N3	10-100	0.02		12.7					6.3, 9.5	12-14-17
DOTE200N3	20-200	0.05	660	17.65	765	323	275	13	-	17-19-22-24-27-30
DOTE500N3	50-500	0.1	1020	19.0	1135	394	306	24	-	22-27-29-30-32-36
DOTE1000N3	100-1000	0.2	1650	25.4	1765	509	361	45	19.0	34-41-46-50

## Digital Torque Wrench Checker

Line checker, for daily inspections of torque wrenches

# LC

- For Calibration ◀
- Digital Display ▶
- Manual Operation ▶



Accuracy ±1%+1digit

MODEL	CAPACITY		INLET SQUARE DRIVE	OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT	WEIGHT APPROX.
	MIN.-MAX.	1 DIGIT					
LC20N	0.5-20	0.005	9.5	278	160	169	10.5
LC200N	5-200	0.05	12.7				
LC1000N	50-1000	0.2	25.4	500	230	185	34

## Digital Torque Driver Tester

Ideal for testing click and dial indicating drivers

# TDT

- For Calibration ◀
- Digital Display ▶
- Manual, Rotary ▶



Accuracy ±1%+1digit

MODEL	CAPACITY		INLET SQUARE DRIVE	OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT	WEIGHT APPROX.
	MIN.-MAX.	1 DIGIT					
TDT60CN	2-60	0.02	Hex Size 6.35mm (Male)	220	220	220	13.5
TDT600CN	20-600	0.2	with a groove (0.7mm).				

## Digital Torque Meter

Ideal for bottle cap testing

# TME

- For Calibration ◀
- Digital Display ▶
- Built-in Clamping ▶



Accuracy ±1%+1digit

MODEL	CAPACITY		INLET SQUARE DRIVE	OVERALL LENGTH	OVERALL WIDTH	OVERALL HEIGHT	WEIGHT APPROX.
	MIN.-MAX.	1 DIGIT					
3TME10CN2	2-10	0.01					
3TME20CN2	4-20	0.02					
3TME50CN2	10-50	0.05	ø14-ø110	252	158	185	3.5
3TME100CN2	20-100	0.1					
2TME200CN2	40-200	0.2					
2TME500CN2	100-500	0.5					
2TME1000CN2	200-1000	1	ø18-ø190	331	223	283	12
2TME2000CN2	400-2000	2					

Note: Metric (kgf.cm, kgf.m, etc.) and American (in.lbs, ft.lbs, etc.) units are available for all the above products.

# Selecting the Correct TOHNICHI Product for an Application

## Torque Wrenches

### Tightening

#### QL

Adjustable Click Style



#### QSP

Preset Click Style



#### CL

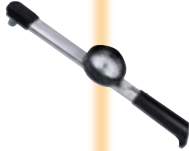
Interchangeable Head Adjustable Style



### Inspection

#### DB

Dial Indicating Style



#### SF/F

Flat Beam Style



#### CEM3

Digital Display Style



## Torque Drivers

### Tightening

#### RTD

Rotary Slip Adjustable Style



#### RNTD

Rotary Slip Preset Style



#### LTD

Adjustable Click Style



### Inspection

#### FTD-S

Dial Indicating Style



#### STC

Digital Display Style



#### MTD

Micro Dial Indicating Style



## Torque Measuring Instruments

### Tester/Checker

#### DOTE

Torque Wrench Tester



#### LC

Torque Wrench Checker



#### TDT

Torque Driver Tester



### Torque Meter

#### ATG/BTG

Torque Gauge



#### TM

Analog Torque Meter

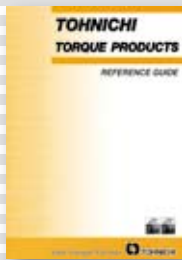


#### TME

Digital Torque Meter

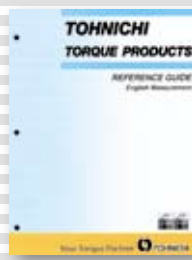


For full range of Tohnichi products and torque technical information, please refer to the following catalogs.



### Tohnichi Reference Guide

- All Newton and Metric models



### Tohnichi Reference Guide (English Measurement)

- All American unit models



### Torque Handbook

- Torque technical materials and products



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