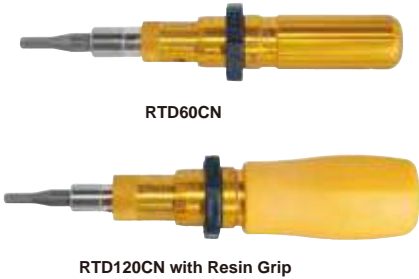


RTD

Rotary Slip Adjustable Torque Screwdriver

Direction



Assembly Adjustable Rotary Slip Graduation ISO6789:2003

- Ratcheting mechanism prevents over torque.
- Torque easily set with external scale

Accuracy ±3%

S.I. Model	Torque Range [cN·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [ozf-in/lbf-in]		Overall Length [mm]	Weight [g]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
-	-	-	-	-	-	RTD20Z	6-20	0.2	100	50
-	-	-	-	-	-	RTD40Z	15-40	0.5	110	80
-	-	-	-	-	-	RTD80Z	20-80	1	130	160
-	-	-	-	-	-	RTD150Z	30-150	2	130	160
RTD15CN	2-15	0.1	1.5RTD	0.2-1.5	0.01	RTD1.3I	0.2-1.3	0.01	100	50
RTD30CN	4-30	0.2	3RTD	0.4-3	0.02	RTD2.6I	0.4-2.6	0.02	110	80
RTD60CN	10-60	0.5	6RTD	1-6	0.05	RTD5I	1-5	0.05	110	80
RTD120CN	20-120	1	12RTD	2-12	0.1	RTD10I	2-10	0.1	130	160
RTD260CN	60-260	2	26RTD	6-26	0.2	RTD22I	6-22	0.2	150	270
RTD500CN	100-500	5	50RTD	10-50	0.5	RTD40I	10-40	0.5	155	320

Note 1. Auxiliary tightening tool for RTD500CN is sold separately.
2. Bits are sold separately. Refer to page 10.

Standard Accessories 1. Hook spanner for RTD260CN and RTD500CN
2. Resin grip for RTD120CN and RTD260CN

LTD

Adjustable Torque Screwdriver

Direction



Assembly Adjustable Graduation ISO6789:2003

- Clicks at set torque value
- Torque easily set with external scale

Accuracy ±3%

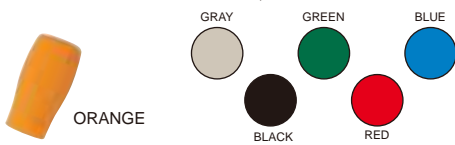
S.I. Model	Torque Range [cN·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [ozf-in/lbf-in]		Overall Length [mm]	Weight [g]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
-	-	-	-	-	-	LTD20Z	6-20	0.2	100	50
-	-	-	-	-	-	LTD40Z	15-40	0.5	110	80
-	-	-	-	-	-	LTD80Z	20-80	1	130	160
-	-	-	-	-	-	LTD150Z	30-150	2	130	160
LTD15CN	2-15	0.1	1.5LTD	0.2-1.5	0.01	LTD1.3I	0.2-1.3	0.01	100	50
LTD30CN	4-30	0.2	3LTD	0.4-3	0.02	LTD2.6I	0.4-2.6	0.02	110	80
LTD60CN	10-60	0.5	6LTD	1-6	0.05	LTD5I	1-5	0.05	110	80
LTD120CN	20-120	1	12LTD	2-12	0.1	LTD10I	2-10	0.1	130	160
LTD260CN	60-260	2	26LTD	6-26	0.2	LTD22I	6-22	0.2	150	270
LTD500CN	100-500	5	50LTD	10-50	0.5	LTD40I	10-40	0.5	155	320
LTD1000CN	200-1000	5	100LTD	20-100	0.5	LTD90I	20-90	0.5	185	580
LTD2000CN2	400-2000	5	LTD200M2	40-200	0.5	LTD180I2	40-180	0.5	255	1150

Note 1. Auxiliary tightening tool for LTD500CN and LTD1000CN is available, sold separately.
2. Bits are sold separately. Refer to page 10.
3. LTD2000CN2 and the equivalent metric and American models has an 9.53mm square drive head.

Standard Accessories 1. Hook spanner for LTD260CN-LTD2000CN2
2. LTD2000CN2 comes with an auxiliary tightening tool.
3. Resin grip for LTD120CN and LTD260CN

Torque Screwdriver Optional Accessories

RESIN GRIP for 120CN, 260CN



For 120CN

Part #	Color	Applicable Model
850	Orange	RTD120CN LTD120CN RNTD120CN NTD120CN
851	Gray	
852	Black	
853	Green	
854	Red	
855	Blue	

For 260CN

Part #	Color	Applicable Model
856	Orange	RTD260CN
857	Gray	LTD260CN
858	Black	
859	Green	RNTD260CN
860	Red	NTD260CN
861	Blue	

Resin Grip Dimensions

	120CN		260CN	
	RTD LTD	RNTD NTD	RTD LTD	RNTD NTD
Hexagon width across flats Maximum value [mm]	33		41	
Hexagon width across corner Maximum value [mm]	35		44	
Length [mm]	67		81	68
Overall Length with torque screwdriver [mm]	130	110	150	110

ADJUSTING TOOL for RTD/LTD

- Used for zero adjustment



Part #	Applicable Model
51	LTD/RTD15CN, 30CN
46	LTD/RTD60CN
1046	LTD/RTD120CN
47	LTD/RTD260CN
48	LTD/RTD500CN
49	LTD/RTD1000CN
1050	LTD2000CN2

AUXILIARY TIGHTENING TOOL for RTD/LTD/RNTD/NTD

- Make easier for large torque tightening



Part #	Applicable Model
31	LTD/RTD/NTD/RNTD500CN
32	LTD/NTD1000CN, RTDFH/RNTDFH500CN
40	LTD2000CN2
1031	RTDLS500CN RNTDSL500CN

HOOK SPANNER for RTD/LTD/MNTD

- Torque setting for middle and large size torque screwdriver



Part #	Applicable Model
52	LTD/RTD260CN, MNTD120CN
53	LTD/RTD500CN, MNTD260CN
54	LTD1000CN, MNTD500CN
55	LTD2000CN2

TORQUE ADJUSTING BAR for RNTD/NTD/RNTDZ

- Used for torque setting of preset torque screwdriver



Part #	Applicable Model
42	NTD/RNTD15CN-120CN
43	NTD/RNTD260CN, RNTDZ260CN
44	NTD/RNTD500CN-1000CN, RNTDZ500CN

RNTD Rotary Slip Preset Torque Screwdriver

Direction



RNTD120CN with Resin Grip

Assembly Preset Rotary Slip ISO6789:2003

- Preset version of RTD
- No external scale, torque set by a torque driver tester

Accuracy ±3%

Model	Torque Range			Overall Length [mm]	Weight [g]
	[cN·m]	[kgf·cm]	[lbf·in]		
	Min.-Max.	Min.-Max.	Min.-Max.		
RNTD15CN	5-15	0.5-1.5	0.5-1.3	95	71
RNTD30CN	10-30	1-3	0.9-2.5		
RNTD60CN	20-60	2-6	2-5		
RNTD120CN	40-120	4-12	4-10	110	110
RNTD260CN	100-260	10-26	9-23		180
RNTD500CN	200-500	20-50	20-40	120	270

Note
 1. A torque driver tester is necessary for torque setting. Specify required set torque when you order. Ex. RNTD120CN x 100cN-m
 2. Torque adjusting bar is sold separately. Refer to page 49.
 3. Bits are sold separately. Refer to page 10.

Standard Accessories
 1. Resin grip for RNTD120CN and RNTD260CN
 2. Auxiliary tightening bar for RNTD500CN

NTD Preset Torque Screwdriver

Direction



NTD120CN with Resin Grip

Assembly Preset ISO6789:2003

- Preset version of LTD
- No external scale, torque set by a torque driver tester

Accuracy ±3%

Model	Torque Range			Overall Length [mm]	Weight [g]
	[cN·m]	[kgf·cm]	[lbf·in]		
	Min.-Max.	Min.-Max.	Min.-Max.		
NTD15CN	5-15	0.5-1.5	0.5-1.3	95	70
NTD30CN	10-30	1-3	1-2.5		
NTD60CN	20-60	2-6	2-5		
NTD120CN	40-120	4-12	4-10	110	110
NTD260CN	100-260	10-26	10-22		180
NTD500CN	200-500	20-50	20-40	120	270
NTD1000CN	400-1000	40-100	40-88	155	550

Note
 1. A torque driver tester is necessary for torque setting. Specify required set torque when you order. Ex. NTD120CN x 100cN-m
 2. Torque adjusting bar is sold separately.

Standard Accessories
 1. Resin grip for NTD120CN and NTD260CN
 2. Auxiliary tightening bar for NTD500CN and NTD1000CN

RTDZ Insulated Rotary Slip Adjustable Torque Screwdriver

Direction



RTDZ260CN

Assembly Adjustable Rotary Slip Resin Body Insulated ISO6789:2003

- Insulated design suited for use in electric shock hazard conditions
- Ideal for electric car assembly, connection of battery terminal wiring work etc

Accuracy ±3%

S.I. Model	Torque Range [cN·m]		Metric Model	Torque Range [kgf·cm]		Torque Range [lbf·in]		Overall Length [mm]	Weight [g]
	Min.-Max.	Grad.		Min.-Max.	Grad.	Min.-Max.	Grad.		
RTDZ260CN	60-260	2	26RTDZ	6-26	0.2	-	-	150	220
RTDZ500CN	100-500	5	50RTDZ	10-50	0.5	-	-	183	380

Note
 1. Torque adjusting bar is sold separately.
 2. Bits are sold separately. Refer to page 10.
 3. Bits are not insulation coating.

RNTDZ Insulated Rotary Slip Preset Torque Screwdriver

Direction



RNTDZ500CN

Assembly Preset Rotary Slip Resin Body Insulated ISO6789:2003

- Insulated design suited for use in electric shock hazard conditions
- Ideal for electric car assembly, connection of battery terminal wiring work etc

Accuracy ±3%

S.I. Model	Torque Range [cN·m]		Metric Model	Torque Range [kgf·cm]		Torque Range [lbf·in]		Overall Length [mm]	Weight [g]
	Min.-Max.	Grad.		Min.-Max.	Grad.	Min.-Max.	Grad.		
RNTDZ260CN	100-260	-	-	10-26	-	10-22	-	123	240
RNTDZ500CN	200-500	-	-	20-50	-	20-40	-	138	340

Note
 1. A torque driver tester is necessary for torque setting. Specify required torque when you order. Ex. RNTDZ260CN x 200cN-m
 2. Torque adjusting bar is sold separately.
 3. Bits are sold separately. Refer to page 10.
 4. Bits are not insulation coating.

Torque Screwdriver



AMRD/BMRD

Direction Rotary Slip Adjustable Torque Screwdriver for Small Screws



AMRD4CN



BMRD30CN2

Assembly Adjustable Rotary Slip Graduation ISO6789:2003

- Low torque version of RTD
- AMRD includes Tohnichi original bits.

Accuracy ±3%

S.I. Model	Torque Range [cN-m]		Metric Model	Torque Range [gf-cm/kgf-cm]		American Model	Torque Range [ozf-in/lbf-in]		Overall Length [mm]	Weight [g]	Standard Accessory Bit	
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			⊕	⊖ Thickness x Width
AMRD	cN-m	cN-m		gf-cm	gf-cm		ozf-in	ozf-in				
AMRD1CN	0.3-1	0.01	100AMRD	30-100	1	-	-	-				0.15 x 1
AMRD2CN	0.5-2	0.025	200AMRD	50-200	2.5	AMRD3Z	1-3	0.05	93	26	# 0	0.2 x 1.5
AMRD4CN	1-4	0.05	400AMRD	100-400	5	AMRD6Z	2-6	0.1				0.3 x 2
AMRD8CN	2-8		800AMRD	200-800	10	AMRD12Z	3-12	0.2				
BMRD		0.1		kgf-cm	kgf-cm		lbf-in	lbf-in				
BMRD15CN2	2-15		1.5BMRD2	0.2-1.5	0.01	1.5BMRD2-A	0.2-1.5	0.005	116	50	-	-
BMRD30CN2	4-30	0.2	3BMRD2	0.4-3	0.02	3BMRD2-A	0.4-3	0.01				

Note 1. Bits for BMRD are sold separately. Refer to page 10.
2. Bits for AMRD are supplied from only Tohnichi.

AML D/BML D

Direction Adjustable Torque Screwdriver for Small Screws



AML D4CN



BML D30CN2

Assembly Adjustable Graduation ISO6789:2003

- Low torque version of LTD
- AML D includes Tohnichi original bits.

Accuracy ±3%

S.I. Model	Torque Range [cN-m]		Metric Model	Torque Range [gf-cm/kgf-cm]		American Model	Torque Range [ozf-in/lbf-in]		Overall Length [mm]	Weight [g]	Standard Accessory Bit	
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			⊕	⊖ Thickness x Width
AML D	cN-m	cN-m		gf-cm	gf-cm		ozf-in	ozf-in				
AML D1CN	0.3-1	0.01	100AML D	30-100	1	-	-	-				0.15 x 1
AML D2CN	0.5-2	0.025	200AML D	50-200	2.5	AML D3Z	1-3	0.05	83	26	# 0	0.2 x 1.5
AML D4CN	1-4	0.05	400AML D	100-400	5	AML D6Z	2-6	0.1				0.3 x 2
AML D8CN	2-8		800AML D	200-800	10	AML D12Z	3-12	0.2				
BML D		0.1		kgf-cm	kgf-cm		lbf-in	lbf-in				
BML D15CN2	2-15		1.5BML D2	0.2-1.5	0.01	1.5BML D2-A	0.2-1.5	0.005	116	50	-	-
BML D30CN2	4-30	0.2	3BML D2	0.4-3	0.02	3BML D2-A	0.4-3	0.01				

Note 1. Bits for BML D are sold separately. Refer to page 10.
2. Bits for AML D are supplied from only Tohnichi.

Daily Check and Calibration of Torque Screwdrivers

Digital Torque Gauges for Daily Inspections

One use of ATGE-G and BTGE-G digital torque gauges is to check the accuracy of small torque screwdrivers such as AML D/AMRD and BML D/BMRD. Monitoring drivers with daily inspections confirms driver function and accuracy prior to use. Refer to page 59 and 60.

- ATGE-G
- BTGE-G
- ATGE-G with Measurement stand, #808
- BTGE-G with Measurement stand, #809



Torque checking figure for AMRD with ATGE-G and measurement stand, #808.



Torque checking figure for BMRD with BTGE-G

Torque Driver Tester for Calibration and Adjustments

TDT3-G digital torque screwdriver testers are for the calibration of torque screwdrivers such as click type and indicating type. The loading device keeps the driver steady and in a vertical position during testing for highly accurate calibration and easy adjustments.

- TDT3-G: Refer to page 57.



Click type RTD with TDT3-G and loading device STA.



Indicating type FTD with TDT3-G and optional loading device LTA.