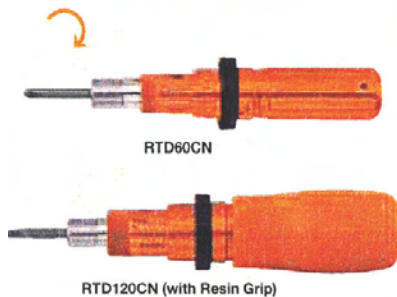


RTD

Rotary Slip Adjustable Torque Screwdriver

Direction



Assembly Adjustable Rotary Slip Graduation RoHS

- Ratcheting mechanism prevents over torque.
- Torque value 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.		
-	-	-	-	-	-	RTD24Z	6-24	0.2	100	50
-	-	-	-	-	-	RTD50Z	15-50	0.5	-	-
-	-	-	-	-	-	RTD100Z	20-100	1	110	80
RTD15CN	2-15	0.1	1.5RTD	0.2-1.5	0.01	1.5RTD-A	0.2-1.5	0.01	100	50
RTD30CN	4-30	0.2	3RTD	0.4-3	0.02	3RTD-A	0.4-3	0.02	-	-
RTD60CN	10-60	0.5	6RTD	1-6	0.05	6RTD-A	1-6	0.05	110	80
RTD120CN	20-120	1	12RTD	2-12	0.1	12RTD-A	2-12	0.1	130	160
RTD260CN	60-260	2	26RTD	6-26	0.2	26RTD-A	6-26	0.2	150	270
RTD500CN	100-500	5	50RTD	10-50	0.5	50RTD-A	10-50	0.5	155	320

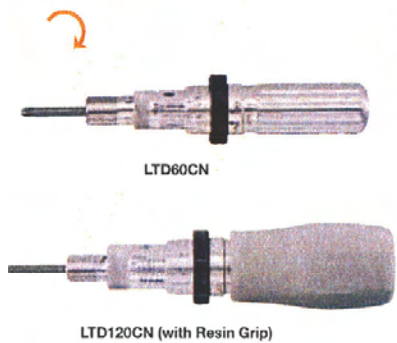
Note
1. Auxiliary tightening tool for RTD500CN is available, sold separately.
2. Bits are sold separately. Refer to page 11.

Standard Accessories
1. Preset hook spanner (for RTD260CN and RTD500CN only)
2. Resin grip (for RTD120CN and RTD260CN only)

LTD

Adjustable Torque Screwdriver

Direction



Assembly Adjustable Graduation RoHS

- Clicks at set torque value
- Torque value 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.		
-	-	-	-	-	-	LTD24Z	6-24	0.2	100	50
-	-	-	-	-	-	LTD50Z	15-50	0.5	-	-
-	-	-	-	-	-	LTD100Z	20-100	1	110	80
LTD15CN	2-15	0.1	1.5LTD	0.2-1.5	0.01	1.5LTD-A	0.2-1.5	0.01	100	50
LTD30CN	4-30	0.2	3LTD	0.4-3	0.02	3LTD-A	0.4-3	0.02	-	-
LTD60CN	10-60	0.5	6LTD	1-6	0.05	6LTD-A	1-6	0.05	110	80
LTD120CN	20-120	1	12LTD	2-12	0.1	12LTD-A	2-12	0.1	130	160
LTD260CN	60-260	2	26LTD	6-26	0.2	26LTD-A	6-26	0.2	150	270
LTD500CN	100-500	5	50LTD	10-50	0.5	50LTD-A	10-50	0.5	155	320
LTD1000CN	200-1000	5	100LTD	20-100	0.5	100LTD-A	20-90	0.5	185	580
LTD2000CN	300-2000	5	200LTD	30-200	0.5	200LTD-A	30-180	0.5	255	1150

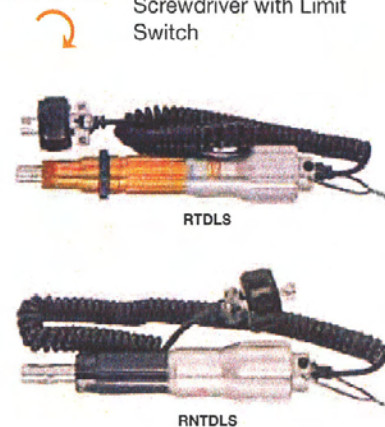
Note
1. Auxiliary tightening tool for LTD500CN and LTD1000CN is available, sold separately.
2. Bits are sold separately. Refer to page 11.

Standard Accessories
1. Preset hook spanner (for LTD260CN-LTD2000CN only)
2. LTD2000CN comes with an auxiliary tightening tool.
3. Resin grip (for LTD120CN and LTD260CN only)

RTDLS/RNTDLS

Direction

Rotary Slip type Torque Screwdriver with Limit Switch



Assembly Rotary Slip RoHS

- RTD/RNTD style with Limit Switch output
- Ideal for torque verification (Pokayoke) assembly processes

Accuracy ±3%

S.I. Model	Torque Range [cN-m]		Metric Model	Torque Range [kgf-cm]		American Model	Torque Range [lbf-in]		Overall Length [mm]	Weight [g]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.		
RTDLS120CN	20-120	1	12RTDLS	2-12	0.1	12RTDLS-A	2-12	0.1	184	340
RTDLS260CN	60-260	2	26RTDLS	6-26	0.2	26RTDLS-A	6-26	0.2	201	450
RTDLS500CN	100-500	5	50RTDLS	10-50	0.5	50RTDLS-A	10-50	0.5	212	540
RNTDLS120CN	40-120	-	RNTDLS120CN	4-12	-	RNTDLS120CN	4-10	-	166	320
RNTDLS260CN	100-260	-	RNTDLS260CN	10-26	-	RNTDLS260CN	10-22	-	167	390
RNTDLS500CN	200-500	-	RNTDLS500CN	20-50	-	RNTDLS500CN	20-40	-	175	480

Note
1. Bits are sold separately. Refer to page 11.
2. RNTDLS models are required a torque driver tester for torque setting. Please specify required torque when you order. (Ex. RNTDLS120CN x 100cN-m)
3. Limit switch specifications AC30V below 1A, DC30V below 1A
4. Female connector for LS cable is sold separately, Part# WA5219K.

POKA Patrol (Count Checker)
CNA-4mk2



* Sold separately

Phone 0800 48 2000

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RNTD Rotary Slip Preset Torque Screwdriver

Direction



Assembly Preset Rotary Slip RoHS

- Preset version of RTD
- No external scale, Torque value set using tester

Model	Torque Range			Overall Length [mm]	Weight [g]	
	[cN-m]		[kgf-cm]			[lbf-in]
	Min.-Max.	Min.-Max.	Min.-Max.			Min.-Max.
RNTD15CN	5-15	0.5-1.5	0.5-1.3	95	71	
RNTD30CN	10-30	1-3	1-2.5			
RNTD60CN	20-60	2-6	2-5			
RNTD120CN	40-120	4-12	4-10	110	110	
RNTD260CN	100-260	10-26	10-22		180	
RNTD500CN	200-500	20-50	20-40		120	270

Note 1. A torque driver tester is necessary for torque setting. Please specify required set torque when you order. (Ex. RNTD120CN x 100cN-m)
2. Torque adjusting bar is sold separately. Refer to page 44.
3. Bits are sold separately. Refer to page 11.

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

NTD Preset Torque Screwdriver

Direction



Assembly Preset RoHS

- Preset version of LTD
- No external scale, Torque value set using tester

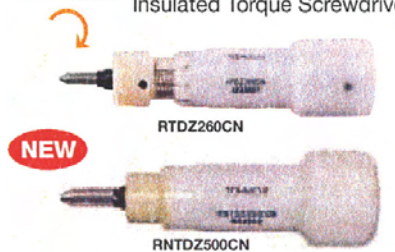
Model	Torque Range			Overall Length [mm]	Weight [g]	
	[cN-m]		[kgf-cm]			[lbf-in]
	Min.-Max.	Min.-Max.	Min.-Max.			Min.-Max.
NTD15CN	5-15	0.5-1.5	0.5-1.3	95	70	
NTD30CN	10-30	1-3	1-2.5			
NTD60CN	20-60	2-6	2-5			
NTD120CN	40-120	4-12	4-10	110	110	
NTD260CN	100-260	10-26	10-22		180	
NTD500CN	200-500	20-50	20-40		120	270
NTD1000CN	400-1000	40-100	40-90	155	550	

Note 1. A torque driver tester is necessary for torque setting. Please specify required set torque when you order. (Ex. NTD120CN x 100cN-m)
2. Torque adjusting bar is sold separately. Refer to page 44.

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

RTDZ/RNTDZ Rotary Slip Adjustable/Preset Insulated Torque Screwdriver

Direction



Assembly Rotary Slip Resin Body RoHS

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

Model	Torque Range						Overall Length [mm]	Weight [g]
	[cN-m]		[kgf-cm]		[lbf-in]			
	Min.-Max.	Grad.	Min.-Max.	Grad.	Min.-Max.	Grad.		
RTDZ260CN	60-260	2	6-26	0.2	-	-	150	220
RTDZ500CN	100-500	5	10-50	0.5	-	-	183	380
RNTDZ260CN	100-260	-	10-26	-	10-22	-	123	240
RNTDZ500CN	200-500	-	20-50	-	20-40	-	138	340

Note 1. RNTDZ models are required a torque driver tester for torque setting. Please specify required torque when you order. (Ex. RNTDZ260CN x 200cN-m)
2. Torque adjusting bar is sold separately. Refer to page 7.
3. Bits are sold separately. Refer to page 11.
4. Bits are not insulation coating.

SPECIAL TOOLS FOR TORQUE SCREWDRIVER RESIN GRIP (for 120CN, 260CN)



For 120CN

Part #	Color	Applicable Model
850	Orange	
851	Gray	RTD120CN
852	Black	LTD120CN
853	Green	RNTD120CN
854	Red	NTD120CN
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	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
451	LTD/RTD15CN, 30CN
46	LTD/RTD60CN
47	LTD/RTD260CN
48	LTD/RTD500CN
49	LTD/RTD1000CN
104b	LTD/RTD120CN

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
40	LTD2000CN
1031	RTDLS500CN RNTDSL500CN

PRESET HOOK SPANNER (for RTD/LTD)

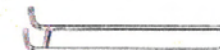
- Make easier for middle and large torque setting



Part #	Applicable Model
52	LTD/RTD260CN
53	LTD/RTD500CN
54	LTD1000CN
55	LTD2000CN

TORQUE ADJUSTING BAR (for RNTD/NTD)

- Used for torque setting of preset torque screwdriver



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

AMRD/BMRD

Direction



Rotary Slip Adjustable Torque Screwdriver for Small Screws



Assembly Adjustable Rotary Slip Graduation RoHS

- Low torque version of RTD
- AMRD includes special size 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
AMRD1CN	0.3-1	0.01	100AMRD	30-100	1	-	-	-	93	26	# 0	0.15 x 1 0.2 x 1.5 0.3 x 2
AMRD2CN	0.5-2	0.025	200AMRD	50-200	2.5	AMRD3Z	1-3	0.05				
AMRD4CN	1-4	0.05	400AMRD	100-400	5	AMRD6Z	2-6	0.1				
AMRD8CN	2-8	0.1	800AMRD	200-800	10	AMRD12Z	3-12	0.2				
BMRD15CN2	2-15	0.1	1.5BMRD2	kgf-cm	kgf-cm	1.5BMRD2-A	lbf-in	lbf-in	116	50		
BMRD30CN2	4-30	0.2	3BMRD2	0.2-1.5	0.01	3BMRD2-A	0.2-1.5	0.005				
				0.4-3	0.02	3BMRD2-A	0.4-3	0.01				

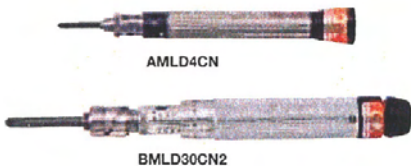
Note 1. Bits for BMRD are sold separately. Refer to page 11.
2. Bits for AMRD are supplied from only Tohnichi.

AML D/BMLD

Direction



Adjustable Torque Screwdriver for Small Screws



Assembly Adjustable Graduation RoHS

- Low torque version of LTD
- AMLD includes special size 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 D1CN	0.3-1	0.01	100AML D	30-100	1	-	-	-	83	26	# 0	0.15 x 1 0.2 x 1.5 0.3 x 2
AML D2CN	0.5-2	0.025	200AML D	50-200	2.5	AML D3Z	1-3	0.05				
AML D4CN	1-4	0.05	400AML D	100-400	5	AML D6Z	2-6	0.1				
AML D8CN	2-8	0.1	800AML D	200-800	10	AML D12Z	3-12	0.2				
BML D15CN2	2-15	0.1	1.5BML D2	kgf-cm	kgf-cm	1.5BML D2-A	lbf-in	lbf-in	116	50		
BML D30CN2	4-30	0.2	3BML D2	0.2-1.5	0.01	3BML D2-A	0.2-1.5	0.005				
				0.4-3	0.02	3BML D2-A	0.4-3	0.01				

Note 1. Bits for BMLD are sold separately. Refer to page 11.
2. Bits for AMLD 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 AMLD/AMRD and BMLD/BMRD. Monitoring drivers with daily inspections confirms driver function and accuracy prior to use.

- Six models of ATGE-G cover a torque capacity from 0.1 cN-m to 20 cN-m.
- Five models of BTGE-G cover a torque capacity from 2 to 20 cN-m.
- #808 (for ATGE-G) and #809 (for BTGE-G) Measurement Board (Optional Accessory shown at the right)



Torque checking figure for AMRD torque screwdriver for small screws with ATGE-G and optional ATGE-G Measurement board



Torque checking figure for BMRD torque screwdriver for small screws with BTGE-G

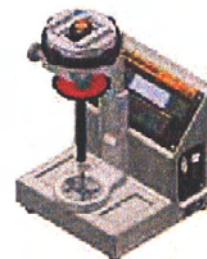
Torque Driver Tester for Calibration and Adjustments

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

- TDT60CN3-G (2-60 c-Nm)
- TDT600CN3-G (20-200 c-Nm)



Calibration figure for torque screwdriver RTD left and FTD right with TDT3-G



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