

Hand Torque Tool CATALOG



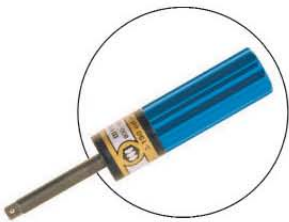
mountz
the torque tool specialists®

01

Hand Torque Screwdrivers



TT
Dial Measuring
Torque Screwdriver
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TLS
Torque Limiting Screwdriver
Internally Adjustable
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**CLEAN ROOM
SCREWDRIVERS**
Torque Limiting Screwdriver
Internally Adjustable
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ERGO MICRO TORQUE
Torque Limiting Screwdriver
Externally Adjustable
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PSE
Torque Limiting Screwdrivers
Internally Adjustable
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The cam-over philosophy of each Mountz torque screwdriver prevents operators from influencing the torque output when tightening fasteners. Whether using a preset or adjustable tool, the patented design of each cam mechanism introduces a “slip” sensation when the set torque is reached. This slip is actually a precision ball or several balls aligning themselves in the next cam detent.

Mountz offers the most complete array of torque screwdrivers available on the market today. **Internally Adjustable (preset)** models can be set over a wide range and sealed for tamper proof operation. Designed for production or field service environments these tools are simple to calibrate and offer years of reliable service. Mountz preset screwdrivers are available in a variety of colors to allow “color-coding” of torque values. Color coding allows torque values to be designated in a clear and simple manner to prevent error.

Mountz preset drivers are made for special applications as well. The advent of clean rooms in the medical and electronic industry prompted Mountz to introduce the first and only class 100 clean room approved torque screwdriver. **CRS** models have polished, sealed handles to prevent contamination. The **IFR Series** screwdrivers have a special cam to prevent “backlash”, which causes shock to assemblies such as disc drives, ceramics and other critical components or materials.

Externally Adjustable models offer versatile setting options for applications that require more than one torque value. Each tool incorporates a pull down ring to engage the adjustment mechanism. Simply turning the collar right or left increases or decreases torque respectively.

The Mountz line of screwdriver Accessories allow the tools to be utilized in the most effective and productive manner. Screwdriver bits are available in a variety of lengths and configurations, including those made special for the most difficult access or application. Plastic grips aid in making the driver comfortable to the operator. In addition, each tool is available in a Tool Kit format for flexible and user friendly storage of common parts and accessories.

Most important is the quality of each product. Mountz screwdrivers are known to be reliable and accurate. The majority of equipment sold by Mountz meets or exceeds the principal requirements of International Standard ISO 6789:2003.

These standards state:

- The effective working range of a tool is from 20% to 100% of its maximum torque value.
- The accuracy requirements for Torque Screwdrivers is $\pm 6\%$ of reading.
- The maximum torque value for each square drive size.
- An overload ability of 125% of maximum torque capacity.
- A calibration life of 5000 cycles.
- Test and measuring procedures, at $23^\circ \pm 5^\circ \text{C}$.
- The accuracy of calibration devices to be $\pm 1\%$ of reading or better.
- Scale and marking requirements.

Official ISO specification can be obtained at www.iso.org



Mountz Torque Conversion Calculator

Quickly convert torque measurement from one type of unit measurement to another. Visit www.mountztorque.com/calculator

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Dial Measuring Torque Screwdrivers

HAND TORQUE
SCREWDRIVERS



EASY DIAL ADJUSTMENT



American & S.I. scales

KEY FEATURES

The preferred and certified ranges of these tools is in accordance with ISO 6789:2003 ($\pm 6\%$ of indicated reading).

Covering a calibrated range of 14 ozf.in to 40 lbf.in.

Memory system holds maximum torque reached. TT dial measuring screwdrivers can be used to monitor torque as it increases or decreases or to display peak torque applied.

Flat tension spring is used to give the best linear characteristics in both directions.

Especially designed for torque evaluation and verification.

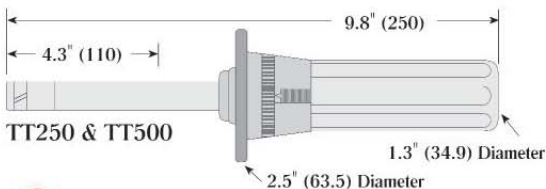
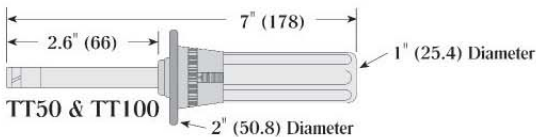
Quality constructed with stainless steel shafts, attractive colored aluminum handles and sturdy dials for maximum tool life.

Corrosion resistant.

Ideal tool for QC, R & D, and assembly operations.

Model	Item #	Calibrated Ranges		Handle Color
		American	S.I.	
TT50F/H	020151	14 - 70 ozf.in	10 - 50 cN.m	Gold
TT100F/H	020153	28 - 140 ozf.in	20 - 100 cN.m	Blue
TT250F/H	020155	4 - 20 lbf.in	50 - 250 cN.m	Red
TT500F/H	020157	8 - 40 lbf.in	100 - 500 cN.m	Green

Model	Graduation			Weight	
	American	S.I.	Drive	oz.	gm.
TT50F/H	2 ozf.in	2 cN.m	1/4" Female/Hex	6.7	190
TT100F/H	5 ozf.in	5 cN.m	1/4" Female/Hex	6.7	190
TT250F/H	0.5 lbf.in	10 cN.m	1/4" Female/Hex	16.4	465
TT500F/H	1 lbf.in	20 cN.m	1/4" Female/Hex	16.4	465



NOTE!

1/4" square drive models available upon request.

Larger models (TT250F/H and TT500F/H) supplied with removable sliding T-Bar.



BITS
SEE PAGES
03.1 - 03.3

MicroTorque

Torque Limiting Screwdrivers Externally Adjustable

KEY FEATURES

The preferred and certified ranges of these tools is in accordance with the requirements of ISO 6789:2003 (+/-6% of setting).

Various models that range from 20 ozf.in to 80 lbf.in.

Externally adjustable tool offers different setting options for applications that require more than torque value.

The "positive" locking system prevents incidental torque adjustment.

The screwdriver "slips free" once the set torque has been reached making over-tightening impossible.

Adjustment ring disengages to prevent incidental torque adjustment.

Precision radial ball clutch and cam allows for automatic resetting.

Micrometer adjustment allows for accurate tool setting.

Color coded anodized aluminum handles allow for differentiation of models.



T-BAR

Removable 1/4" Sliding T-Bar supplied with larger models.

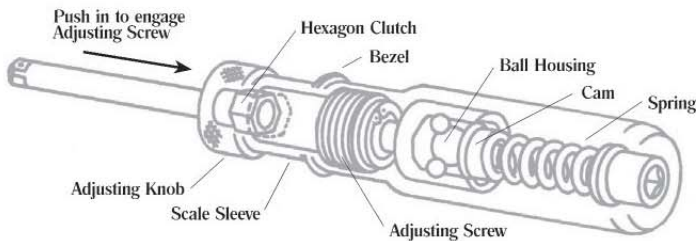
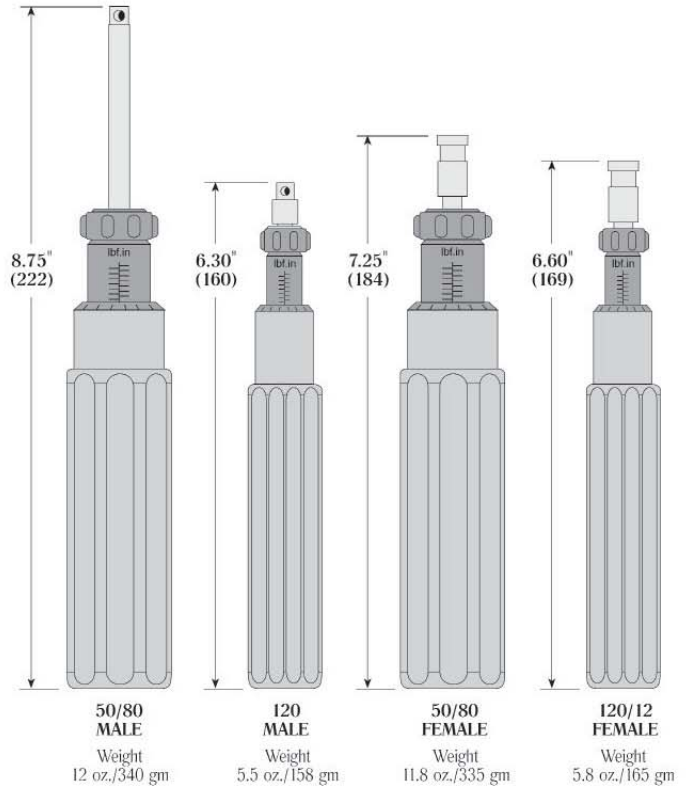


HAND TORQUE SCREWDRIVERS

1/4" Male Square Drives		1/4" Female Hex Drives		Torque Ranges	Graduation	Color
Model	Item #	Model	Item #			
MT120-A	020375	MT120-AFH	020374	20 - 120 ozf.in	1 ozf.in	Black
MT12-A	020378	MT12-AFH	020369	2 - 12 lbf.in	0.1 lbf.in	Grey
MT50-A*	020370	MT50-AFH*	020373	5 - 50 lbf.in	1 lbf.in	Red
MT80-A*	020383	MT80-AFH*	020384	40 - 80 lbf.in	1 lbf.in	Green
MT120-N	020376	MT120-NFH	020377	20 - 120 cN.m	1 cN.m	Black
MT6-N*	020379	MT6-NFH*	020380	1 - 6 N.m	0.1 N.m	Red
MT9-N*	020381	MT9-NFH*	020382	4 - 9 N.m	0.1 N.m	Green

*Large models are supplied with removable sliding T-bar.

"A" and "AFH" designates American models OR "N" and "NFH" designates S.I. models.



Ergo Micro Torque

Torque Limiting Screwdrivers
Externally Adjustable

HAND TORQUE
SCREWDRIVERS

AMERICAN MODELS

Model	1/4" Male Square Drives Item #	1/4" Female Hex Drives Item #	Torque Ranges	Graduation
EMT60	020447	020441	10 - 60 ozf.in	1 ozf.in
EMT160	020448	020442	20 - 160 ozf.in	1 ozf.in
EMT4	020444	020439	0.5 - 4 lbf.in	0.1 lbf.in
EMT12	020446	020440	2 - 12 lbf.in	0.1 lbf.in
EMT50*	020454	020452	10 - 50 lbf.in	1 lbf.in
EMT80*	020458	020456	30 - 80 lbf.in	1 lbf.in

* Supplied with Sliding T-Bar

Model	Adjustable Ring Color	Overall Length		Overall Width		Weight	
		in.	mm.	in.	mm.	oz.	gm.
EMT60	Gold	6.3	159	1.0	25	4.3	124
EMT160	Blue	7.2	183	1.4	35	8.1	230
EMT4	Red	6.3	159	1.0	25	4.3	124
EMT12	Silver Grey	7.2	183	1.4	35	8.1	230
EMT50*	Red	7.7	196	1.5	37.5	11.8	335
EMT80*	Green	7.7	196	1.5	37.5	11.8	335

S.I. MODELS

Model	1/4" Male Square Drives Item #	1/4" Female Hex Drives Item #	Torque Ranges	Graduation
EMT40	020443	020437	5 - 40 cN.m	1 cN.m
EMT120	020445	020438	20 - 120 cN.m	1 cN.m
EMT6*	020453	020449	1 - 6 N.m	0.1 N.m
EMT9*	020457	020455	4 - 9 N.m	0.1 N.m

* Supplied with Sliding T-Bar

Model	Adjustable Ring Color	Overall Length		Overall Width		Weight	
		in.	mm.	in.	mm.	oz.	gm.
EMT40	Blue	6.3	159	1.0	25	4.3	124
EMT120	Blue	7.2	183	1.4	35	8.1	230
EMT6*	Red	7.7	196	1.5	37.5	11.8	335
EMT9*	Green	7.7	196	1.5	37.5	11.8	335

4mm FEMALE HEX DRIVE MODELS

Model	Item #	Torque Ranges	Graduation
EMT60	020490	10 - 60 ozf.in	1 ozf.in
EMT4	020489	0.5 - 4 lbf.in	0.1 lbf.in
EMT40	020488	5 - 40 cN.m	1 cN.m

Model	Adjustable Ring Color	Overall Length		Overall Width		Weight	
		in.	mm.	in.	mm.	oz.	gm.
EMT60	Gold	5.9	149	1.0	25	4.1	116
EMT4	Red	5.9	149	1.0	25	4.1	116
EMT40	Blue	5.9	149	1.0	25	4.1	116



KEY FEATURES

The preferred and certified ranges of these tools is in accordance with the requirements of ISO 6789:2003 ($\pm 6\%$ of setting).

Externally adjustable tool offers different setting options for applications that require more than torque value.

The "positive" locking system prevents incidental torque adjustment.

The screwdriver "slips free" once the set torque has been reached making over-tightening impossible.

Adjustment ring disengages to prevent incidental torque adjustment.

Ergonomic rubber hand grip.

Precision radial ball clutch and cam allows for automatic resetting.

Micrometer adjustment allows for accurate tool setting.

Color coded adjustment ring allows for differentiation of models.

ESD compliant.



BITS

A wide variety of bits available.
SEE PAGES O3.1 - O3.3



T-BAR

Removable 1/4" Sliding T-Bar
supplied with larger models.

HAND TORQUE
SCREWDRIVERS



1/4" MALE
SQUARE
ADAPTER
SEE PAGE
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RTU
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ERGONOMIC
GRIP
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TLS
01.5

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TLS

Preset Torque Limiting Screwdrivers (Internally Adjustable)

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).

Various models that range from 0.7 ozf.in to 120 lbf.in.

Precision radial ball clutch "slips-free" when the preset torque is reached preventing overtorquing.

Thrust bearings insure that the torque setting is independent of any end load applied by the operator.

All models provide bi-directional operation and are calibrated in either the CW or CCW direction.

Four different colored lightweight aluminum handles allow color coding of specific torque values in production areas (TLS1360 - Black only).

FEATURES TLS-IFR

The design action of the standard TLS cammed screwdriver is such that when the tool reaches its preset torque value the mechanism disengages from the drive thus limiting the torque applied. Further rotation of the screwdriver handle resets the mechanism ready for the next torquing operation. The IFR models eliminates any small reaction during resetting.

All IFR models are "impact-free" when the cam resets.

Screwdriver is torque limiting in the CW direction only.

CCW operation available upon request.

FEATURES TLS-OWC

One-way clutch system is designed for the screwdriver to apply torque in one direction and lockup in the opposite direction for easy screw removal.

Ideal for maintenance and refurbishing applications.

Screwdriver is torque limiting in the CW direction only.

CCW operation available upon request.

1/4" male square drive models available upon request.



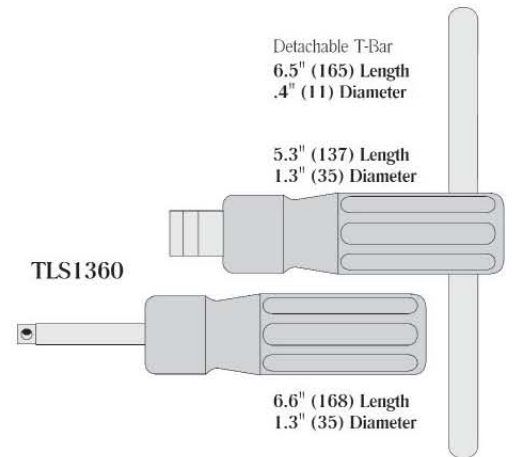
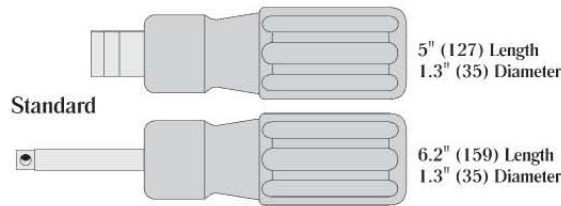
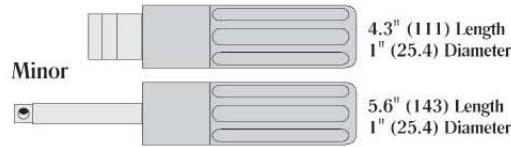
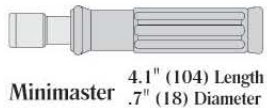
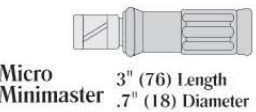
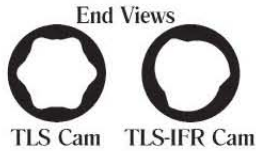
EASY TORQUE ADJUSTMENT

Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.



SMA Connector Bit

SEE PAGE O1.11



Model	1/4" Male Square Drives		1/4" Female Hex Drives			Color	Torque Ranges			Weight			
	TLS Item #	TLS-IFR Item #	TLS Item #	TLS-IFR Item #	TLS-OWC Item #		American	S.I.	Metric	TLS & IFR		TLS OWC	
									oz.	gm.	oz.	gm.	
Micro Minimaster (TLS0022M)	-	-	020083	-	-	Red	3 - 32 ozf.in	2 - 22 cN.m	0.2 - 2.2 kgf.cm	1.8	50	-	-
Minimaster (TLS0022)	-	-	020074	-	020289	Gold	0.7 - 32 ozf.in	0.5 - 22 cN.m	0.05 - 2.2 kgf.cm	2.5	72	3	86
Minor (TLS0135)	020062	020465	020066	020464	020298	Blue	3 ozf.in - 12 lbf.in	2 - 135 cN.m	0.2 - 13.7 kgf.cm	7.4	210	7.9	224
	020063	020467	020067	020466	020301	Gold							
	020064	020469	020068	020468	020299	Green							
	020065	020471	020069	020470	020300	Red							
Standard (TLS0406)	020075	020473	020079	020472	020302	Blue	8 ozf.in - 36 lbf.in	6 - 406 cN.m	0.6 - 41 kgf.cm	9.9	280	10.4	294
	020076	020475	020080	020476	020304	Gold							
	020077	020477	020081	020478	020293	Green							
	020078	020479	020082	020480	020303	Red							
TLS1360	020060	020481	020061	020482	020290	Black	10 - 120 lbf.in	1 - 13.6 N.m	10.5 - 138 kgf.cm	11.5	325	12	339

NOTE!
Clean Room models available, see page O1.7

CRS

Clean Room Preset Torque Limiting Screwdriver (Internally Adjustable)



HAND TORQUE
SCREWDRIVERS

KEY FEATURES

- Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).
- Exceeds Class 100 clean room standards.
- Special seals prevent contamination.
- External components are high grade stainless steel to inhibit any form of corrosion.
- Special microfiltered internal lubricant.
- Aluminum handle sealed with PTFE impregnated anodized finish.
- Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.

FEATURES IFR

- The design action of the standard CRS cammed screwdriver is such that when the tool reaches its preset torque value the mechanism disengages from the drive thus limiting the torque applied. Further rotation of the screwdriver handle resets the mechanism ready for the next torquing operation. The IFR models eliminate any small reaction during resetting.
- All IFR models are "impact-free" when the cam resets.
- Screwdriver is torque limiting in the CW direction only.
- CCW operation available upon request.

CLEAN ROOM STANDARDS

According to the United States specification FED-STD-209D, classes of cleanliness are defined by the number of particles per cubic foot.

Particle sizes shown in the following table.

MEASURED PARTICLE SIZE (Microns)

Class	0.1	0.2	0.3	0.5	5.0
1	35	7.5	3	1	-
10	350	75	30	10	-
100	-	750	300	100	-
1,000	-	-	-	1,000	7
10,000	-	-	-	10,000	70
100,000	-	-	-	100,000	700

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Model	Item #	Torque Ranges			Drive F/Hex	Weight	
		American	S.I.	Metric		oz.	gm.
CRS100-0022FH	020320	3 - 32 ozf.in	2 - 22 cN.m	0.2 - 2.2 kgf.cm	1/4"	2.5	72
CRS100-0135FH	020321	1 - 12 lbf.in	11 - 135 cN.m	1.1 - 13.7 kgf.cm	1/4"	7.4	210
CRS100-0406FH	020322	1.4 - 36 lbf.in	16 - 406 cN.m	1.6 - 41 kgf.cm	1/4"	9.9	280
CRS100-1360FH	020498	10 - 120 lbf.in	1 - 13.6 N.m	10.5 - 138 kgf.cm	1/4"	11.5	325
IFR CRS 100-00135FH	020483	1 - 12 lbf.in	11 - 135 cN.m	1.1 - 13.7 kgf.cm	1/4"	7.4	210
IFR CRS 100-00406FH	020484	1.4 - 36 lbf.in	16 - 406 cN.m	1.6 - 41 kgf.cm	1/4"	9.9	280

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Mountz Torque Conversion Calculator

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Mountz Tool Selector

Easy to navigate, a guide that assists engineers in selecting the proper tool for the application. Visit www.mountztorque.com/torque-tool-selector.



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CLEAN ROOM
01.7

PSE

Preset Torque Limiting Screwdrivers Internally Adjustable

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).

Various models that range from 0.7 ozf.in - 120 lbf.in

Precision radial ball clutch "slips-free" when the preset torque is reached preventing over-torquing.

Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.

Thrust bearings insure that the torque setting is independent of any end load applied by the operator.

All models provide bi-directional operation and are calibrated in either the CW or CCW direction.

ESD compliant.



◀ Ergonomic rubber hand grip.



1/4" MALE SQUARE DRIVE ADAPTER

Adapter can be used with any 1/4" Female Hex screwdriver to convert it into a 1/4" Male Square Drive screwdriver
SEE PAGE O1.10

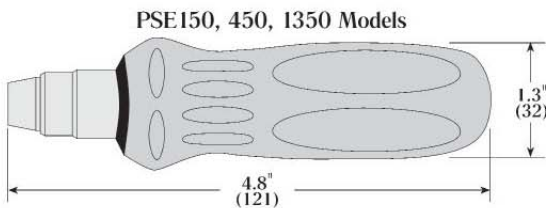
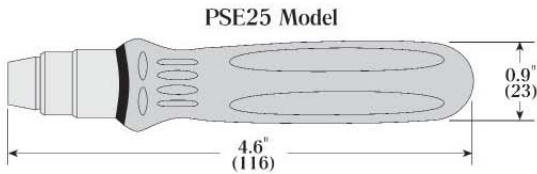


T-BAR

Removable 1/4" Sliding T-Bar supplied with PSE1350.



HAND TORQUE SCREWDRIVERS



Model	Item #	Torque Ranges			Drive	Color	Weight	
		American	S.I.	Metric			oz.	gm.
PSE25	020186	0.7 - 35 ozf.in	0.5 - 25 cN.m	0.05 - 2.5 kgf.cm	1/4" Female/Hex	Gold	3.2	91
PSE150	020173	3 ozf.in - 13 lbf.in	2 - 150 cN.m	0.2 - 15.3 kgf.cm	1/4" Female/Hex	Red	6.5	185
PSE450	020187	8 ozf.in - 40 lbf.in	6 - 450 cN.m	0.6 - 45.8 kgf.cm	1/4" Female/Hex	Green	7.1	202
PSE1350*	020188	10 - 120 lbf.in	100 - 1350 cN.m	10.5 - 138 kgf.cm	1/4" Female/Hex	Blue	8	229

* Supplied with sliding T-Bar

HAND TORQUE
SCREWDRIVERS



TorqueMate® Screwdriver

Digital Torque Screwdriver

KEY FEATURES

- Accuracy $\pm 1\%$ of reading from 10% to 100% of full scale.
- Microprocessor controlled digital screwdriver for delivering precision torque, and storing & downloading torque readings.
- Ideal for torque measurement and auditing in R&D, QC, a lab, maintenance and production areas.
- USB cable for data transfer - Windows, MS Excel, SPC compatible. Additional download can be made in ASCII or binary format.
- Bi-directional operation.
- Programmable pre-sets up to 99 pre-sets of torque can be programmed on screwdriver or uploaded from PC (software provided), all with individual minimum and maximum limits or percentage tolerances. Audible and visual alarms signal approach and achievement of preset torque values.
- Over torque warning system.
- Can store torque readings with a time and date stamp.
- Selectable languages and units of measurement.
- Large OLED screen for high visibility.

SPECIFICATIONS

Operation Modes	Peak, Pre-set, Set, Recall, Upload, Clear, Date, Language, Units, Track, Backlite, Com
Units	ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.cm, kgf.m
Alarms	Preset Value Approach, Fastener Overload, Range Overload, Mechanical Overload, Low Battery, Memory Full
Data Memory	2094 values
Power	4 x AA Batteries
Display Digits	Four
Languages	English, French, German, Italian, Portuguese & Spanish



BITS

A wide variety of bits available.
SEE PAGES
03.1 - 03.3

Model	Item #	Torque Ranges	
		American	S.I.
TMS50	240190	7.1 - 70.8 ozf.in	5 - 50 cN.m
TMS350	240191	3.1 - 31 lbf.in	35 - 350 cN.m
TMS1700	240192	1.2 - 12 lbf.ft	1.7 - 17 N.m

Model	Square Drive	Length		Weight	
		in.	mm.	lbs.	kg.
TMS50	1/4"	6 2/3	170	1.6	.72
TMS350	1/4"	6 2/3	170	1.6	.72
TMS1700	1/4"	7 7/8	200	1.7	.77

RTU

Rotary Torque Units

Designed to be used "in-line" to limit torque for both manual and power-driven applications.

CH models are suitable for chuck adaptation.

Repeatability within $\pm 6\%$ of pre-set torque value.

Reliable radial torque mechanism.

The mechanism "slips-free" when the pre-set torque value is reached, eliminating overtightening. The mechanism then automatically resets.

Pre-set the torque using a torque analyzer, see our torque analyzer catalog.

Robust construction with corrosion-free finish.

Non-length dependent and bi-directional.

Model	Item #	Torque Ranges		Max RPM	Input	Output
		lbf.in	S.I.			
RTU170	020584	0.9 - 15	10 - 170 cN.m	500	1/4" M/Hex	1/4" F/Hex
RTU170	020345	0.9 - 15	10 - 170 cN.m	500	3/8" F/Sq	3/8" M/Sq
RTU170CH	020346	0.9 - 15	10 - 170 cN.m	500	1/2" M/Hex	3/8" x 24*
RTU450	020585	9 - 40	1 - 4.5 N.m	500	1/4" M/Hex	1/4" F/Hex
RTU450	020347	9 - 40	1 - 4.5 N.m	500	3/8" F/Sq	3/8" M/Sq
RTU450CH	020348	9 - 40	1 - 4.5 N.m	500	1/2" M/Hex	3/8" x 24*
RTU1000	020586	36 - 88	4 - 10 N.m	250	1/4" M/Hex	1/4" F/Hex
RTU1000	020349	36 - 88	4 - 10 N.m	250	3/8" F/Sq	3/8" M/Sq
RTU1000CH	020350	36 - 88	4 - 10 N.m	250	1/2" M/Hex	3/8" x 24*



WARNING!

Not recommended for impact wrenches or pulse tools.

*UNF Thread

Accessories

Hand Torque Screwdrivers

FREEWHEEL ADAPTERS

Transmit torque in one direction and "freewheel" in the reverse direction.

The "one way" feature is achieved using a roller clutch, which provides minimal backlash and drag.

Provided with a 1/4" male hex on one end and 1/4" female hex drive on the other end.

Easily adapts to 1/4" F/Hex torque screwdrivers.

Absorbs unwanted shock loads.

Model: FWA-R
Torque: Clockwise
Freewheel: Counter Clockwise
Weight: 2.4 oz.
Item #20-A8842R

Model: FWA-L
Torque: Counter Clockwise
Freewheel: Clockwise
Weight: 2.4 oz.
Item #20-A8842L

1/4" MALE SQUARE DRIVE ADAPTER

Adapter can be used with any 1/4" Female Hex screwdriver to convert it into a 1/4" Male Square Drive screwdriver.

Item #020175

ERGONOMIC GRIPS

Molded from clear PVC.

Custom shaped to match TLS screwdriver.

Provides softer, semi-cushioned feel to the operator.

Transparent PVC enables the screwdriver label, serial number and handle color to be clearly visible and readable through the grip.

Labels with preset and recalibration dates on the driver handle are protected.

Easily fitted using special P80 temporary lubricating emulsion (silicon free). When fitted, lubricant dries giving long-term grip even in moist conditions.

Model: Minor Grip
Weight (approx): 15 grams
Item #20-P19030

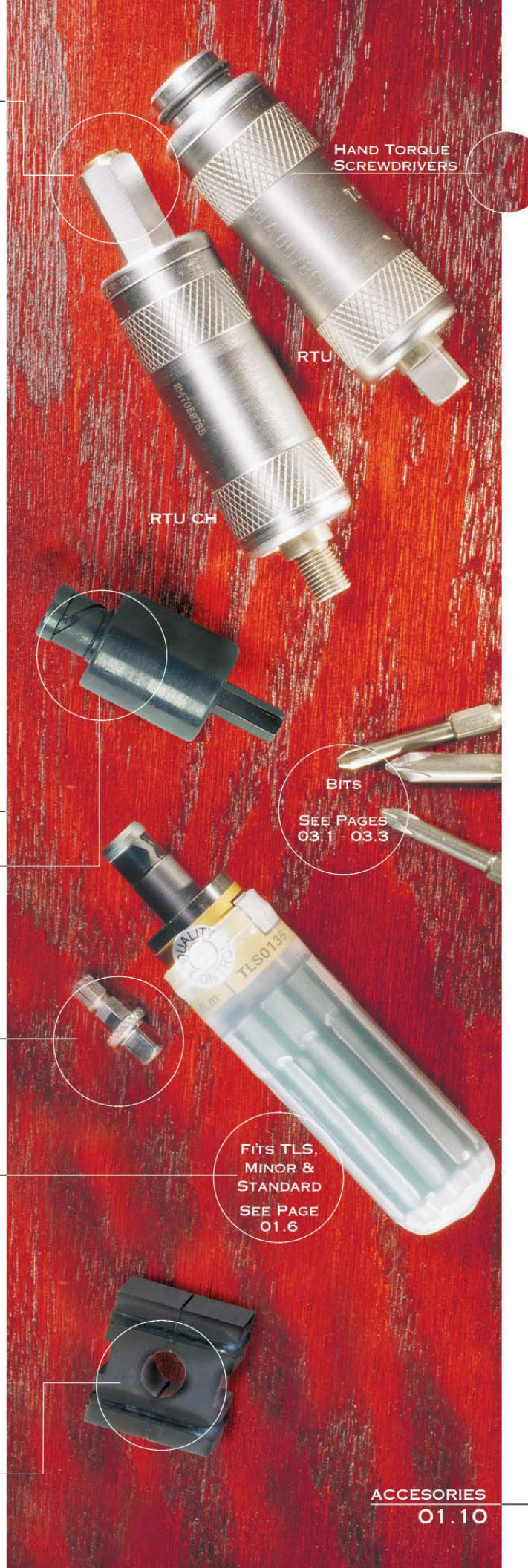
Model: Standard Grip
Weight (approx): 24 grams
Item #20-P19040

Model: P80 Lubricant
(100mL)
Item #20-A90220

MAGNETIZER / DEMAGNETIZER

Magnetize or demagnetize bits and parts instantly.

Item #120815



HAND TORQUE SCREWDRIVERS

RTU

RTU CH

BITS

SEE PAGES 03.1 - 03.3

FITS TLS, MINOR & STANDARD
SEE PAGE 01.6

Screwdriver Kits

Ideal for field service and maintenance applications, these screwdriver kits are compatible with the Mountz torque screwdrivers. The kits provide technicians with a simple storage system for commonly used bits and accessories.

HAND TORQUE
SCREWDRIVERS



ERGO MICRO TORQUE DRIVERS

Torque Limiting Screwdrivers,
Externally Adjustable
SEE PAGE O1.4



PSE DRIVERS

Preset Torque Limiting Screwdrivers,
Internally Adjustable
SEE PAGE O1.8



TLS DRIVERS

Preset Torque Limiting
Screwdrivers,
Internally Adjustable
SEE PAGES
O1.5 & O1.6



NOTE!

Screwdriver Kits feature a blow-mold case with a locking cover and non-torque screwdriver handle, which can be removed and the Mountz torque screwdriver added. Each bit size has an individual marked location within the kit. See photo of kit on website.

SCREWDRIVER KIT #1 (Sockets & Bits Set - 55 pieces) Item #125004

Contents in Kit:

Extension Ratchet Screwdriver

1/4" Dr. Sockets: 3.2, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm

Phillips Bits: PH0, PH1, PH2, PH3

Pozi Bits: PZ0, PZ1, PZ2, PZ3

Slotted Bits: 3, 4, 5, 5.5, 6.5, 7mm

Star Tampered Bits: T10, T15, T20, T25, T30, T40

Star Bits: T8, T9, T10, T15, T20, T25, T27, T30, T40

Hex Bits: 2.5, 3, 4, 5, 6, 7mm

Spline Bits: M4, M5, M6, M8

25mm Bit Adapter

SCREWDRIVER KIT #2 (Bits Set - 75 pieces) Item #125005

Contents in Kit:

Extension Ratchet Screwdriver

Phillips Bits: PH0, PH1, PH2 (Qty 3), PH3

Pozi Bits: PZ0, PZ1, PZ2 (Qty 3), PZ3

Slotted Bits: 3, 4, 5.5, 6.5, 7, 8mm

Star Bits: T8, T9, T10, T15, T20, T25, T27, T30, T35, T40

Star Tampered Bits: T8, T9, T10, T15, T20, T25, T27, T30, T40

Hex Bits: 1.5, 2, 2.5, 3, 4, 5, 6, 7mm

Hex Tampered Bits: 2, 2.5, 3, 4, 5, 6mm

Spanner Bits: 4, 6, 8, 10mm

Tri-Wing Bits: #1, #2, #3, #4

Torque Set: #6, #8, #10

Robertson Bits: #0, #1, #2, #3

Clutch Head: C1, C2, C3

Spline Bits: M5, M6, M8

Bit Adapter

Hook Adapter

SMA CONNECTOR BITS



The correct tightening of SMA Connectors used in RF cabling applications is essential to ensure optimum performance. This is particularly important in high frequency applications using stainless steel or beryllium-copper bodies.

A torque value of around 1 N.m is generally being specified by connector manufacturers for the tightening of precision connectors and around 0.5 N.m for brass bodied connectors.

TB Break-Over wrenches & Hand Torque Screwdrivers are tools available to accurately tighten SMA connectors and to ensure that over tightening cannot occur. The TB is commonly used with an open ended spanner (usually 8mm), while the pre-set Minor Screwdriver with a Crowsfoot Spanner Head enables vertical access in places where conventional torque tools cannot be used. Spanners are available to suit the A/F sizes of all the major connector manufacturers.

Other sizes and lengths available upon request.

Crowsfoot Spanner Heads

For Hand Torque Screwdrivers

Model	Length			Length		
	in.	mm	Item #	in.	mm	Item #
1/4" Crowsfoot Spanner	3	76.2	061670	5	127	066100
5/16" Crowsfoot Spanner	3	76.2	061628	5	127	066101
3/8" Crowsfoot Spanner	3	76.2	061585	5	127	066103
7/16" Crowsfoot Spanner	3	76.2	061621	5	127	066104
1/2" Crowsfoot Spanner	3	76.2	061622	5	127	066105

Model	Length			Length		
	in.	mm	Item #	in.	mm	Item #
5mm Crowsfoot Spanner	3	76.2	061624	5	127	066102
8mm Crowsfoot Spanner	3	76.2	061619	-	-	-
14mm Crowsfoot Spanner	3	76.2	061623	5	127	066106
17mm Crowsfoot Spanner	3	76.2	061647	5	127	066107
18mm Crowsfoot Spanner	3	76.2	061625	5	127	066108
19mm Crowsfoot Spanner	3	76.2	061626	5	127	066109

SCREWDRIVER KITS
SMA CONNECTOR BITS

O1.11

SECTION 02

Torque Wrenches

Mountz offers a variety of torque wrench options with different shapes, sizes and torque delivery mechanisms. Not all torque wrenches are alike. Before selecting a torque wrench, understand the features of each wrench option and select the tool that meets your critical fastening application. In the maintenance and manufacturing world, tightening, controlling, or measuring torque of fasteners is imperative for production efficiency and quality control. With inadequate torque a fastener can vibrate or work loose. A torque wrench is a precision tool and should be treated and maintained like a measuring instrument.

Instead of a one-size-fits-all philosophy, our selection ensures that the wrench you purchase will work properly for the job it was intended.

Cam-Over Wrenches are perfect for maintenance and production applications where over-torque conditions are not tolerated. Each cam-over wrench utilizes a ball and lobe design allowing the wrench to slip free when torque is reached, eliminating the possibility of over-torque. Cam-over wrenches are non-length dependent and effectively take the guesswork out of torque delivery. The use of cam-over wrenches takes operator influence out of the torque equation and offers more accurate and repeatable results than a standard click type wrench.

Break-Over Wrenches are essential to limiting the amount of torque applied to an assembly or fastening application. Break-over torque wrenches, typically deflect 20-90 degrees on torque delivery, thus indicating torque has been reached. Many break-over wrenches require manual

resetting, while others have an automatic resetting feature. The flexible break-over wrench can be used for a variety of applications with the ability to change head configurations like open, box, flare, hex key or a ratchet head.

Click Wrenches are undoubtedly the most widely used torque product in the world. Click wrenches typically emit a loud audible iclick when the set torque is reached. The click should also be felt in the handle to ensure recognition of torque delivery. Most click type wrenches break about 3 degrees after set torque is reached and then become positive. This positive action can cause over-torque conditions. Proper use and training is required so that operators stop pulling the moment the click sound is heard or felt.

Digital Torque Wrenches are used for production, auditing, joint validation as well as fastener testing. Digital wrenches are available with and without memory. Designed for R&D, Quality Control, a lab, and maintenance or production areas a digital wrench with memory is ideal for testing and storing torque measurement data for ISO, SPC and QC documentation.

Dial Wrenches are robust and durable. Dial wrenches are typically used as a quality control instrument to verify or monitor torque. However, some customers find them a resourceful production tool.

Insulated Wrenches are for life-threatening high voltage and low voltage electrical assembly applications where over-torque conditions are not tolerated and operator safety is mandatory. Designed with non-conductive plastic insulation, the torque wrenches provide operators with the proper

safety for fastening applications. The Insulated torque wrenches ensure proper torque control and eliminate the possibility of product failure due to shorting, arcing or other electrical damage.

Mountz features two styles of Insulated Torque wrenches. The 1000V Insulated torque wrenches are built to protect against voltages up to 1,000 volts making these torque tools ideal for use in electrically live situations for a wide range of industries. The 50V Insulated torque wrenches are crafted for low voltage applications. Designed for use in uninterrupted power supply and other battery applications where protection up to 50 volts is required.

The majority of equipment sold by Mountz meets or exceeds the principal requirements of International Standard ISO 6789:2003. Official ISO specification can be obtained by contacting: www.iso.org

These standards state:

- The effective working range of a tool is from 20% to 100% of its maximum torque value.
- The accuracy requirements for torque wrenches is as follows:
 - Tools < 10 N.m ±6% of setting
 - Tools > 10 N.m ±4% of setting
- The maximum torque value for each Square Drive size.
- An overload ability of 125% of maximum torque capacity.
- A calibration life of 5000 cycles.
- Test and measuring procedures, at 23° + 5° C.
- The accuracy of calibration devices to be + 1% of reading or better.
- Scale and marking requirements.



CAM-OVER

TSC & TSP PAGE 02.3
TSN PAGE 02.2
STB PAGE 02.4

BREAK-OVER

ATB PAGE 02.6
MMTB PAGE 02.7
MTBN PAGE 02.5
TBIH PAGE 02.8
TB PAGE 02.9

CLICK

DM PAGE 02.12
TITAN PAGE 02.11

DIGITAL

MTWD PAGE 02.14
TORQUEMATE PAGE 02.15

DIAL

PAGES 02.18/19

INSULATED

PAGE 02.13



TORQUE WRENCHES

TSC & TSP

Cam-Over Torque Wrenches
Preset and Adjustable

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).

When the preset torque is reached, the unique cam action provides high repeatability while eliminating overtorquing.

Anodized quality finish with stainless steel head.

Comfortable rubber hand grip.

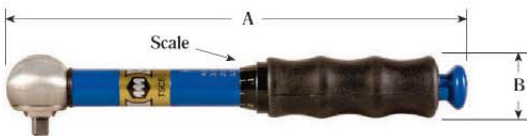
Slim profile and light weight.

Non-length dependent.

ESD compliant.

TSP features a tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.

TSC features externally adjustable micrometer scale and easy-to-use positive locking adjustment system.

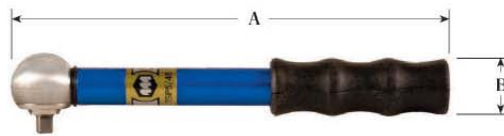


TSC - EXTERNALLY ADJUSTABLE

Model	Item #	Torque Ranges		Graduations
		lbf.in	N.m	
TSC5	020338	-	1 - 5	0.05 N.m
TSC10	020339	-	2 - 10	0.1 N.m
TSC45	020340	10 - 45	-	0.5 lbf.in
TSC90	020341	20 - 90	-	1.0 lbf.in

DIMENSIONS AND WEIGHT

Model	Length A		Diameter B		Square Drive	Weight	
	in.	mm	in.	mm		oz.	gm.
TSC5	7.68	195	1.14	29	1/4"	8.3	235
TSC10	7.68	195	1.14	29	1/4"	8.3	235
TSC45	7.68	195	1.14	29	1/4"	8.3	235
TSC90	7.68	195	1.14	29	1/4"	8.3	235



TSP - INTERNALLY ADJUSTABLE

Model	Item #	Torque Ranges		
		lbf.in	N.m	kgf.cm
TSP5/45	020342	10 - 45	1 - 5	10.2 - 51
TSP10/90	020344	20 - 90	2 - 10	20.4 - 102

DIMENSIONS AND WEIGHT

Model	Length A		Diameter B		Square Drive	Weight	
	in.	mm	in.	mm		oz.	gm.
TSP5/45	7.28	185	1.14	29	1/4"	6.7	190
TSP10/90	7.28	185	1.14	29	1/4"	6.7	190

NOTE!

For Signal Output (Electric Signal) models, see page 02.16

Left-Hand, Pin-Retention & CW Direction Only Models available upon request. (See website www.mountztorque.com)



SOCKETS
SEE PAGE O3.4



TSP - HANGING LOOP

Replace end cap of TSP with a Loop end cap for hanging the wrench safely when it's not being used. Sold separately.

Item #020587



TORQUE WRENCHES

TSN

Cam-Over Torque Wrench Internally Preset

Model	Item #	Torque Ranges		
		lbf.ft	N.m	kgf.m
TSN25D	020250	2 - 18	3 - 25	0.3 - 2.5
TSN25A	020249	2 - 18	3 - 25	0.3 - 2.5
TSN55	020251	10 - 40	15 - 55	1.5 - 5.6
TSN125	020252	30 - 90	40 - 125	4 - 12.7

DIMENSIONS AND WEIGHT

Model	Length		Square Drive	Weight	
	in.	mm		lbs.	kg.
TSN25D	8 1/2	216	1/4"	0.75	0.34
TSN25A	8 1/2	216	3/8"	0.75	0.34
TSN55	12 3/4	324	3/8"	1.75	0.80
TSN125	18 1/8	460	1/2"	3.0	1.36

NOTE!
 For Signal Output (Electric Signal) models, see page 02.16
 For Insulated TSN wrenches see page 02.17
 For Left-hand, Pin-Retention & CW Direction Only Models available upon request. (See Website www.mountztorque.com)

KEY FEATURES

- Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 4\%$ of setting).
- A preset production torque wrench.
- The wrench "slips" free when preset torque is reached, thus eliminating overtorquing.
- Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.
- Non-length dependent.
- Fully supported non-strip ratchet head.
- Strong corrosion-resistant stainless steel head, protective coated handle and non-slip rubber grip.
- Features a mechanical torque adjustment locking device (M-TALD). An auto locking single key operation prevents tampering.
- ESD compliant (TSN25 models only).



TSN HEAD PROTECTION COVERS

This rubber cover fits the head and protects the work piece from accidental damage from the tool during use. Ideal for production areas, like automotive industry.

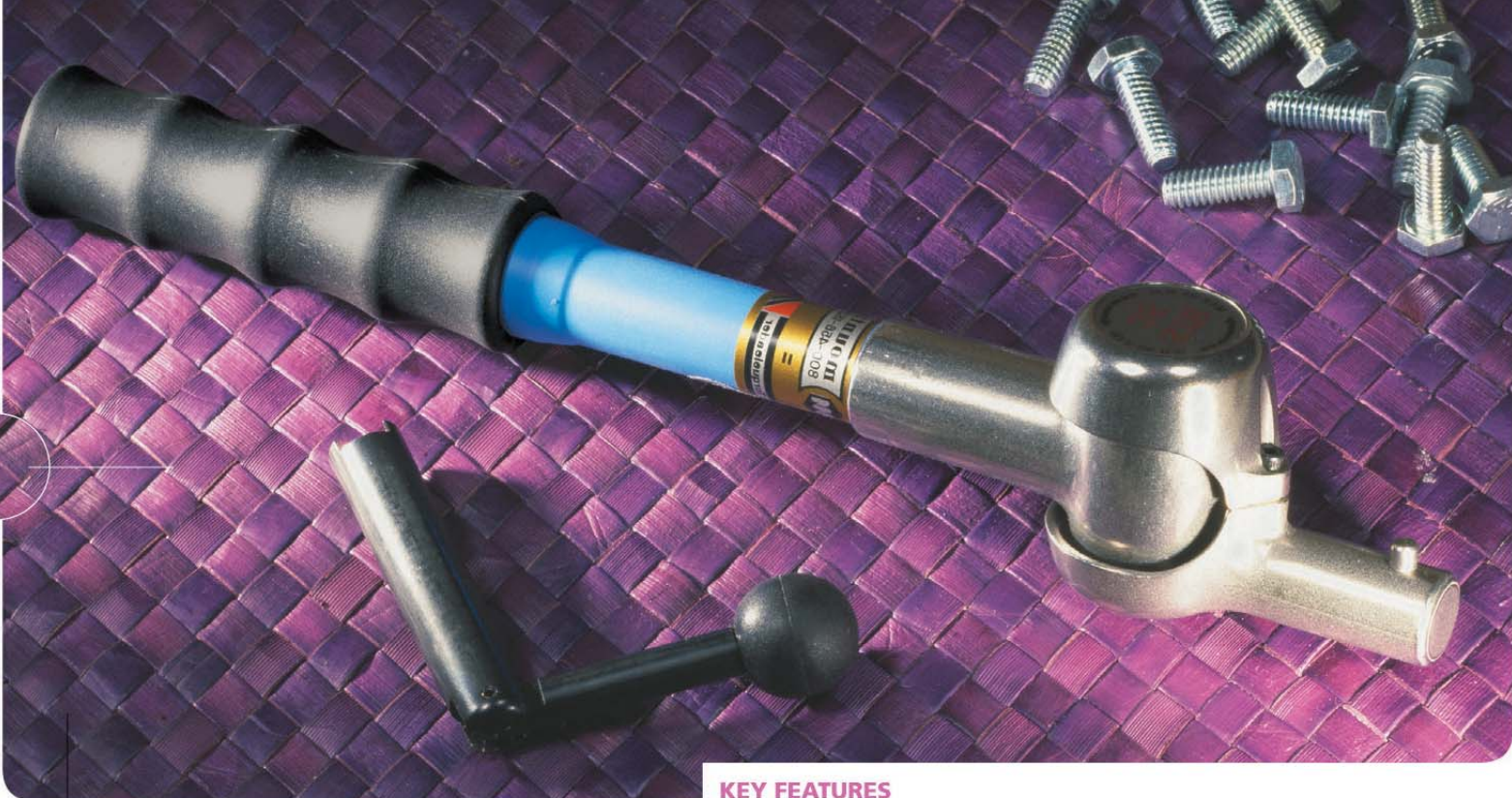
Model	Item #
TSN25	020183
TSN55	020184
TSN125	020185



HANGING LOOP

Replace end cap of TSN with a "Loop" end cap for hanging the wrench safely when it's not being used. Sold separately.

Model	Item #
TSN25D	020588
TSN25A	020588
TSN55	020590
TSN125	020589



STB

Cam-Over Breaking Torque Wrench Internally Preset



INTERCHANGEABLE HEADS

The versatile STB features a interchangeable end, which allows it to be used with a variety of head options.

1. Open End
2. Box End
3. Flare End
4. Ratchet Drive
5. Blank End

SEE PAGE 02.21



HANGING LOOP

Item #020588

Replace the end of the cap of the STB with a "Loop" end cap for hanging the wrench safely when it's not being used.

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789 2003 ($\pm 4\%$ of setting).

A preset production torque wrench.

The wrench "slips" through a 110° break before automatically resetting in-line reducing the possibility of overtightening.

Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.

Features a mechanical torque adjustment locking device (M-TALD). An auto-locking single key operation prevents tampering.

Interchangeable end fittings for all models are available. Interchangeable Heads on page 02.21

Versatile wrench suitable for most applications. Ideal for use in hydraulic pipe work applications where open end or flare end wrenches are necessary.

Model	Item #	Torque Ranges			Drive Type	Length		Weight		Break
		lbf.ft	N.m	kgf.m		in.	mm	lbs.	kg.	
STB35	020158	5.2 - 25	7 - 35	0.7 - 3.5	16mm Spigot	8 ⁷ / ₈ "	225	1.1	0.49	110°
STB70	020159	14 - 51	20 - 70	2 - 7.1	16mm Spigot	14 ¹ / ₃ "	365	2	0.91	110°



NOTE!

For Signal Output (Electric Signal) models see page 02.16



Mountz Tool Selector

Easy to navigate, a guide that assists engineers in selecting the proper tool for the application. Visit www.mountztorque.com/torque-tool-selector.



Mountz Learning Center

Your Resource for Torque Knowledge! For more on torque, including "how to" guides, product videos and other useful resources visit www.mountztorque.com/learning-center.

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Mr. Metric is the leading metric fastener specialist in North America. Well regarded as experts in metric. Mr. Metric is known for hard to find metric items at competitive prices. Visit www.mrmetric.com

MTBN

Break-Over Torque Wrench Internally Preset

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003

- Tools < 10 N.m (\pm 6% of setting): MTBN2 & MTBN10
- Tools > 10 N.m (\pm 4% of setting): MTBN25, MTBN65, MTBN135 & MTBN200

A preset production torque wrench with flexibility to adapt to different applications with ability to change different head options. Breaks over upon reaching preset torque and reset automatically.

Tamper proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.

All models are fitted with "double positive" torque adjustment locking system to prevent tampering.

Compact and well balanced. Ideal for use in restricted areas.

Interchangeable end fittings for all models are available. Interchangeable heads on page 02.21

ESD Compliant (MTBN2 & 10 models only)



Model	Item #	Torque Ranges			Drive Type	Length		Weight		Break
		lbf.in	N.m	kgf.cm		in.	mm	oz.	gm.	
MTBN2	020314	1.8 - 18	0.2 - 2	2 - 20	Captive Pin	4.1	105	3.9	110	20° or 90°
MTBN10	020315	9 - 89	1 - 10	10 - 102	Captive Pin	4.1	105	4.6	130	20° or 90°
MTBN25*	020491	44 - 221	5 - 25	51 - 255	16mm Spigot	10.4	265	14.3	405	20°
MTBN25*	020333	44 - 221	5 - 25	51 - 255	Dovetail	10.4	265	14.3	405	20°
MTBN65*	020631	89 - 575	10 - 65	102 - 663	16mm Spigot	11.9	302	26.5	750	20°
MTBN65*	020353	89 - 575	10 - 65	102 - 663	Dovetail	11.9	302	26.5	750	20°
MTBN135*	020632	177 - 1194	20 - 135	204 - 1377	16mm Spigot	16.1	408	36.4	1030	20°
MTBN135*	020354	177 - 1194	20 - 135	204 - 1377	Dovetail	16.1	408	36.4	1030	20°
MTBN200*	020642	354 - 1770	40 - 200	408 - 2039	16mm Spigot	20.5	520	49.4	1400	20°

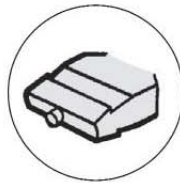
*Models operate in single direction (clockwise).



HANGING LOOP

Replace end cap of MTBN with a "Loop" end cap for hanging the wrench safely when it's not being used. Sold separately.

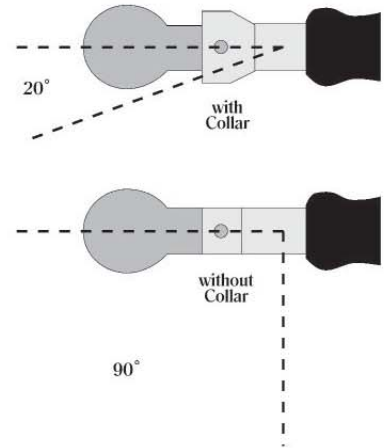
Model	Item #
MTBN2	020587
MTBN10	020587
MTBN25	020588
MTBN65	020589
MTBN135	020589
MTBN200	020589



DOVETAIL END FITTINGS

Can be used with Sturtevant Richmond heads.

BREAK DIAGRAMS



MTBN2 and MTBN10 are supplied with a removable collar, which restricts the "break" angle to 20°. If the collar is removed, the "break" angle increases to 90°.



NOTE!

For Signal Output (Electric Signal) models see page 02.16



Mountz Torque Conversion Calculator

Quickly convert torque measurement from one type of unit measurement to another. Visit www.mountztorque.com/calculator



ATB

Break-Over Torque Wrench Adjustable



INTERCHANGEABLE HEADS

The versatile ATB features a interchangeable end, which allows it to be used with a variety of head options.

1. Open End
2. Box End
3. Flare End
4. Ratchet Drive
5. Blank End

SEE PAGES 02.20 & 02.21

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003

- Tools < 10 N.m ($\pm 6\%$ of setting): ATB5 & ATB10
- Tools > 10 N.m ($\pm 4\%$ of setting): ATB25

Adjustable torque wrench that breaks over upon reaching preset torque and resets automatically.

Easy-to-read single scale models protected by a display window. Graduation collar on the torque handle.

Externally adjustable tool that offers different setting options for applications that require more than one torque value.

The "positive" locking system securely prevents incidental torque adjustment.

Compact and well balanced. Ideal for use in restricted areas.

Interchangeable end fittings for all models are available.

Interchangeable Heads, see pages 02.21 & 02.22

Model	Item #	Torque Ranges	Graduation Scale	Drive Type	Length		Weight		Break
					in.	mm	oz.	gm.	
ATB5	020628	1 - 5 N.m	0.025 N.m	8mm Spigot	8 2/3"	220	10.2	290	20°
ATB5i	020629	10 - 45 lbf.in	0.25 lbf.in	8mm Spigot	8 2/3"	220	10.2	290	20°
ATB10	020620	2 - 10 N.m	0.05 N.m	8mm Spigot	8 2/3"	220	10.6	300	20°
ATB10i	020622	20 - 90 lbf.in	0.5 lbf.in	8mm Spigot	8 2/3"	220	10.6	300	20°
ATB25	020625	5 - 25 N.m	1 N.m	16mm Spigot	11 2/3"	297	24	678	20°
ATB25i	020626	40 - 220 lbf.in	10 lbf.in	16mm Spigot	11 2/3"	297	24	678	20°
ATB25F	020627	4 - 18 lbf.ft	1 lbf.ft	16mm Spigot	11 2/3"	297	24	678	20°



Mountz Learning Center

Your Resource for Torque Knowledge! For more on torque, including "how to" guides, product videos and other useful resources visit www.mountztorque.com/learning-center.



Mountz Tool Selector

Easy to navigate, a guide that assists engineers in selecting the proper tool for the application. Visit www.mountztorque.com/torque-tool-selector.

Follow Mountz

Keep informed about our torque tool products, events and industry news. Select your favorite social media site to catch the latest news from Mountz.



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LinkedIn

MMTB

Miniature Break-Over Wrench with Fixed Heads

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).

"Breaks-over" when preset torque is reached eliminating overtorquing.

The break-over mechanism minimizes shock to assemblies.

Tamper-proof internal adjustment. No external adjustment scale – must be preset using a torque analyzer.

Torque ranges from 1 ozf.in to 80 ozf.in.

One-way operation standard.

Bi-directional break available.

Small and lightweight aluminum handle (3/8" dia. x approx. 3 1/2" overall length).

HEAD STYLES (additional sizes and special heads available)

OE (Open End) Sizes 7/32" to 3/4"

BH (Box Head) Sizes 1/4" to 3/4"

FN (Flare Nut) Sizes 1/4" to 9/16"

HK (Hex Key) Sizes 1/16" to 5/32"

RH (Ratchet Head) Size 1/4"

GH (Grip Head) provide size (samples preferred) & clearance issues.

WHEN ORDERING:

There are two torque range models available:

1 ozf.in - 39 ozf.in

40 ozf.in - 80 ozf.in

Example:

1. Specify your requested pre-set torque: 10 ozf.in
2. Specify head: OE (Open End)
3. Specify size: 1/4"



LTT ANALYZER

Torque analyzer for calibrating and testing small hand tools and power tools.



BMX

Torque transducer for calibrating and testing small hand tools and power tools.

For Torque Analyzers and Calibration Equipment, ask for our "Torque Analyzer & Torque Measurement" Catalog.



Mountz Torque Conversion Calculator

Quickly convert torque measurement from one type of unit measurement to another. Visit www.mountztorque.com/calculator



MMTB's shown at actual size.

GRIP HEAD

These are custom made; provide size information (sample preferred) and any clearance issues. Head can be used for round knurled or non-knurled nut(s) where gripping to tighten might damage the surface. Typically, for odd sizes and with no flats for a wrench head to grip. Also, can be used to tighten certain tube shapes that wouldn't collapse under torque pressure.





SELECT
ACCESSORY
HEAD

SEE PAGE
02.10

TBIH

Break-Over Wrench Interchangeable Head Style

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).

"Breaks-over" when preset torque is reached eliminating overtorquing.

The break-over mechanism minimizes shock to assemblies.

Tamper-proof internal adjustment. No external adjustment scale – must be preset using a torque analyzer.

Torque ranges 25 ozf.in - 50 lbf.in.

Six different colored aluminum handles allow for color coding of specific torque values in production areas.

Small and lightweight. Ideal for use in restricted spaces.
Handle size: 5 1/2" L x 9/16" Dia.

Interchangeable heads are manufactured with a common center line so the torque setting remains the same when head sizes are changed.

TBIH also accepts Utica® "A" size heads.

Handle Color



Item #	Item #	Item #	Item #	Item #	Item #	Torque Ranges
068000-A	068001-A	068002-A	068003-A	068004-A	067999-A	25 - 50 ozf.in
068000-B	068001-B	068002-B	068003-B	068004-B	067999-B	3 - 12 lbf.in
068000-C	068001-C	068002-C	068003-C	068004-C	067999-C	12 - 21 lbf.in
068000-D	068001-D	068002-D	068003-D	068004-D	067999-D	20 - 50 lbf.in

NOTE!

Torque is easily adjusted by removing the end cap and turning the adjustment screw with the 3/16" Hex Key (supplied). Then verify torque output using a torque analyzer.

Standard TBIH models have a "break" angle range up to 90°. For models that limit the "break" angle to 20° or 30°, available upon request.



800.456.1828



ACCESSORIES
TB BITS
SEE PAGE
02.10

TB

Break-Over Wrench with Fixed Heads

KEY FEATURES

- Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting).
- "Breaks-over" when preset torque is reached eliminating overtorquing.
- The break-over mechanism minimizes shock to assemblies.
- Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.
- Torque ranges 25 ozf.in - 50 lbf.in.
- Six different colored aluminum handles allow for color coding of specific torque values in production areas.
- Small and lightweight. Handle: 5" L x 9/16" Dia.



TB FIXED HEADS

To configure the TB fixed head wrench, select Handle part number below and then select Head part number on page 02.10
Order Example: #06004C - 156

Handle Color

Item #	Item #	Item #	Item #	Item #	Item #	Torque Ranges
06001A	06002A	06003A	06004A	06005A	06006A	25 - 50 ozf.in
06001B	06002B	06003B	06004B	06005B	06006B	3 - 12 lbf.in
06001C	06002C	06003C	06004C	06005C	06006C	12 - 21 lbf.in
06001D	06002D	06003D	06004D	06005D	06006D	20 - 50 lbf.in



BREAK-OVER FEATURE

When the TB wrench achieves torque, the head breaks-over preventing the operator from overtorquing the fastener.

NOTE!

Torque is easily adjusted by removing the end cap and turning the adjustment screw with the 3/16" Hex Key. Then verify torque output using a torque analyzer.

Heads

TBIH Interchangeable & TB Fixed

OPEN END



AMERICAN

Size in.	TBIH Item #	TB Item #
5/64	068115	115
1/8	068100	100
9/64	068180	180
5/32	068101	101
3/16	068102	102
13/64	068314	314
7/32	068103	103
15/64	068215	215
1/4	068104	104
9/32	068105	105
5/16	068106	106
11/32	068107	107
3/8	068108	108
13/32	068098	098
7/16	068109	109
1/2	068110	110
9/16	068111	111
5/8	068112	112
11/16	068114	114
3/4	068113	113
13/16	068099	099
7/8	068042	042

METRIC

Size mm	TBIH Item #	TB Item #
3	068159	159
4	068202	202
5	068139	139
5.5	068046	046
6	068140	140
6.5	068160	160
7	068141	141
8	068142	142
8.5	068149	149
9	068143	143
10	068144	144
11	068145	145
12	068146	146
13	068147	147
14	068148	148
15	068136	136
17	068237	237
18	068222	222
19	068208	208
20	068199	199
21	068138	138
22	068209	209

BOX END



AMERICAN

Size in.	TBIH Item #	TB Item #
1/8	068120	120
5/32	068121	121
3/16	068122	122
7/32	068123	123
1/4	068124	124
9/32	068125	125
5/16	068126	126
11/32	068127	127
3/8	068128	128
7/16	068129	129
1/2	068130	130
9/16	068131	131
5/8	068132	132
11/16	068133	133
3/4	068134	134

METRIC

Size mm	TBIH Item #	TB Item #
5	068313	313
6	068150	150
7	068151	151
8	068152	152
9	068153	153
10	068154	154
11	068155	155
12	068156	156
13	068157	157
17	068137	137

HEX KEY



AMERICAN

Size in.	TBIH Item #	TB Item #
0.05	068175	175
1/16	068174	174
5/64	068162	162
3/32	068163	163
7/64	068164	164
1/8	068165	165
9/64	068166	166
5/32	068167	167
3/16	068168	168
7/32	068169	169
1/4	068170	170
3/8	068171	171
7/16	068172	172
3/4	068173	173

METRIC

Size mm	TBIH Item #	TB Item #
1.5	068236	983
2	068181	181
2.5	068182	182
3	068183	183
3.5	068184	184
4	068185	185
5	068186	186

FLARE END



AMERICAN

Size in.	TBIH Item #	TB Item #
1/4	068188	188
5/16	068189	189
3/8	068187	187
7/16	061553	553
1/2	068198	198
9/16	068190	190
11/16	068320	320
3/4	068235	235
13/16	068321	321

METRIC

Size mm	TBIH Item #	TB Item #
13	068232	232
15	068194	194
17	068355	355
19	068298	298

TB Bits

Adapters for Ratchet Heads

SLOTTED HEAD ADAPTERS



Model	Item #	Bit Width
CM-25	120035	3/16"
CM-26	120374	7/32"
CM-17	120031	1/4"
CM-19	120375	3/8"

Package Quantity: 10

PHILLIPS HEAD ADAPTERS



Model	Item #	Point Size
CMP-20	120032	No. 1
CMP-21	120033	No. 2
CMP-33	120376	No. 3

Package Quantity: 10

SQUARE DRIVE ADAPTERS



Model	Item #	Size in.
CM-24	120034	1/4

Package Quantity: 10

HEX HEAD ADAPTERS



Model	Item #	Size in.
CMS-3	120366	0.050
CMS-4	120367	1/16
CMS-5	120368	5/64
CMS-6	120036	3/32
CMS-7	120037	7/64
CMS-8	120369	1/8
CMS-9	120038	9/64
CMS-10	120039	5/32
CMS-12	120370	3/16
CMS-14	120371	7/32
CMS-16	120372	1/4
CMS-18	120373	5/16

Model	Item #	Size mm
CMS-40	120040	1.5
CMS-41	120041	2.0
CMS-42	120042	2.5
CMS-43	120043	3.0
CMS-44	120044	4.0
CMS-45	120045	5.0

Package Quantity: 10

REED & PRINCE ADAPTERS



Model	Item #	Point Size
CM-37	120377	No. 2

Package Quantity: 10

GRIP HEADS

These are custom made; please provide size information (sample part number) and any clearance issues. Head can be used for round knurled or non-knurled nut(s) where gripping to tighten might damage the surface. Typically, for odd sizes and with no flats for a wrench head to grip. Also, can be used to tighten certain tube shapes that wouldn't collapse under torque pressure.



RATCHET

Size in.	TBIH Item #	TB Item #
1/4 Hex	068195	195

Note: 6pt - 20 Teeth



Titan

Click Wrench (Adjustable)

Designed and manufactured to meet or exceed the accuracy and repeatability of ISO 6789:2003 ($\pm 4\%$ of setting).

Adjustable torque wrench available with square drive models and 16mm Spigot models. Interchangeable heads on page 02.21.

Square drive models feature a bi-directional ratchet head.

Easy-to-read dual scale (American & S.I.) protected by a display window. Graduation collar on the torque handle.

Crafted with strong steel shaft with high corrosion resistance. The handle is shaped to provide a firm, ergonomic grip.

Features a "Push-Button Locking Device". It securely locks the preset torque and prevents inadvertent adjustment.

Supplied with a certificate of calibration.

Positive "click" can be heard and felt when torque is reached.

Model	Item #	Torque Ranges		Drive Size
		American	N.m	
Titan100i	280010	20 - 100 lbf.in	2.3 - 11.3	1/4" Sq. Dr.
Titan250i	280011	50 - 250 lbf.in	5.6 - 28.2	3/8" Sq. Dr.
Titan250i-S	280021	50 - 250 lbf.in	5.6 - 28.2	16mm Spigot
Titan75F	280012	10 - 75 lbf.ft	13.5 - 101.6	3/8" Sq. Dr.
Titan75F-S	280022	10 - 75 lbf.ft	13.5 - 101.6	16mm Spigot
Titan150F	280013	30 - 150 lbf.ft	40.6 - 203.3	1/2" Sq. Dr.
Titan150F-S	280023	30 - 150 lbf.ft	40.6 - 203.3	16mm Spigot
Titan300F	280014	60 - 300 lbf.ft	81.3 - 406.7	1/2" Sq. Dr.
Titan300F-S	280024	60 - 300 lbf.ft	81.3 - 406.7	16mm Spigot
Titan600F	280015	120 - 600 lbf.ft	162.7 - 813.5	3/4" Sq. Dr.

Model	Graduation		Length		Weight	
	Scale	Collar	in.	mm	lbs.	kg.
Titan100i	5 lbf.in	-	12	307	1.1	0.5
Titan250i	10 lbf.in	1 lbf.in	13.8	350	1.3	0.6
Titan250i-S	10 lbf.in	1 lbf.in	13.2	335	1.1	0.5
Titan75F	2.5 lbf.ft	0.25 lbf.ft	15.5	395	2	0.9
Titan75F-S	2.5 lbf.ft	0.25 lbf.ft	14.8	375	1.3	0.6
Titan150F	5 lbf.ft	0.5 lbf.ft	19.1	485	2.5	1.1
Titan150F-S	5 lbf.ft	0.5 lbf.ft	18.3	465	1.8	0.8
Titan300F	10 lbf.ft	1 lbf.ft	26.2	665	3.5	1.6
Titan300F-S	10 lbf.ft	1 lbf.ft	25.6	650	3.5	1.6
Titan600F	10 lbf.ft	1 lbf.ft	48.8	1240	11.5	5.2

NOTE!

After being used, torque click wrenches should be turned back to the minimum scale value. This helps to preserve the springs and ensures a longer product life cycle with high precision.

Mountz Tool Selector

Easy to navigate, a guide that assists engineers in selecting the proper tool for the application. Visit www.mountztorque.com/torque-tool-selector.

Mountz Learning Center

Your Resource for Torque Knowledge! For more on torque, including "how to" guides, product videos and other useful resources visit www.mountztorque.com/learning-center.



TORQUE
WRENCHES

DM

Lightweight Click Wrench (Adjustable)



Single or double square drive models.



Model	Item #	Square Drive	Torque Ranges		Graduation	
			American	S.I.	American	S.I.
DM 12	110100	Single	18 - 106 lbf.in	2 - 12 N.m	5 lbf.in	0.5 N.m
DM 30	110115	Single	50 - 270 lbf.in	6 - 30 N.m	10 lbf.in	1 N.m
DM 30-D	110121	Double	50 - 270 lbf.in	6 - 30 N.m	10 lbf.in	1 N.m
DM 40	110102	Single	70 - 350 lbf.in	8 - 40 N.m	50 lbf.in	5 N.m
DM 40-D	110122	Double	70 - 350 lbf.in	8 - 40 N.m	50 lbf.in	5 N.m
DM 120	110103	Single	15 - 90 lbf.ft	20 - 120 N.m	5 lbf.ft	5 N.m
DM 120-D	110108	Double	15 - 90 lbf.ft	20 - 120 N.m	5 lbf.ft	5 N.m
DM 200	110110	Single	30 - 150 lbf.ft	40 - 200 N.m	5 lbf.ft	5 N.m
DM 200-D	110114	Double	30 - 150 lbf.ft	40 - 200 N.m	5 lbf.ft	5 N.m
DM 300	110104	Single	35 - 220 lbf.ft	50 - 300 N.m	5 lbf.ft	5 N.m
DM 300-D	110113	Double	35 - 220 lbf.ft	50 - 300 N.m	5 lbf.ft	5 N.m
DM 360	110127	Single	60 - 260 lbf.ft	80 - 360 N.m	5 lbf.ft	5 N.m
DM 360-D	110129	Double	60 - 260 lbf.ft	80 - 360 N.m	5 lbf.ft	5 N.m
DM 550	110130	Single	80 - 400 lbf.ft	110 - 550 N.m	10 lbf.ft	10 N.m
DM 550-D	110135	Double	80 - 400 lbf.ft	110 - 550 N.m	10 lbf.ft	10 N.m
DM 760	110105	Single	100 - 560 lbf.ft	140 - 760 N.m	10 lbf.ft	10 N.m
DM 760-D	110136	Double	100 - 560 lbf.ft	140 - 760 N.m	10 lbf.ft	10 N.m
DM 1000	110106	Single	380 - 730 lbf.ft	520 - 1000 N.m	10 lbf.ft	10 N.m
DM 1000-D	110137	Double	380 - 730 lbf.ft	520 - 1000 N.m	10 lbf.ft	10 N.m
DM 2000	110107	Single	553 - 1475 lbf.ft	750 - 2000 N.m	*	50 N.m
DM 2000-D	110138	Double	553 - 1475 lbf.ft	750 - 2000 N.m	*	50 N.m
DM 3000	110150	Single	1106 - 2212 lbf.ft	1500 - 3000 N.m	*	50 N.m

* DM 2000 & DM 3000 models are only available as a single scale model - N.m



RATCHET ADAPTER

Enables controlled tightening in combination with DM Series wrenches.

SEE PAGE 02.20

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability of ISO 6789:2003 ($\pm 4\%$ of setting).

Lightweight design crafted with high-strength aluminum alloy. Full-metal construction (except DM12).

DM12 model crafted with lightweight, high-grade glass-fiber reinforced polyamide, with soft-grip handle.

Non-length dependent.

Ergonomically designed handgrip enables simple and safe operations.

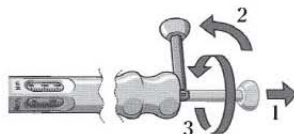
Adjustable torque wrench available with single or double square drive.

Single square drive for controlled clockwise tightening.
Double square drive for controlled bi-directional tightening.

Setting of the torque by non-losable hexagon key in the handgrip. The smooth-running mechanism enables the setting to be made quickly without significant force needing to be applied.

Easy-to-read dual scale (American & S.I.) with a graduation scale. Except DM 2000 & 3000 models - N.m scale only.

Positive "click" can be heard and felt when torque is reached.



Setting the torque by non-losable hexagon key in the handgrip. The smooth-running mechanism enables the setting to be made quickly without significant force.

Model	Square Drive	Length		Weight	
		in.	mm	lbs.	kg.
DM 12	1/4"	8 1/3"	211	0.6	0.25
DM 30	1/4"	10 1/2"	265	1.3	0.58
DM 30-D	1/4"	10 1/2"	265	1.3	0.58
DM 40	3/8"	13 3/8"	340	2.2	1
DM 40-D	3/8"	13 3/8"	340	2.2	1
DM 120	1/2"	18 1/4"	463	3.3	1.5
DM 120-D	1/2"	18 1/4"	463	3.3	1.5
DM 200	1/2"	21 3/4"	553	3.1	1.4
DM 200-D	1/2"	21 3/4"	553	3.1	1.4
DM 300	1/2"	24 1/3"	618	4.4	2
DM 300-D	1/2"	24 1/3"	618	4.4	2
DM 360	3/4"	28 1/4"	718	5.3	2.4
DM 360-D	3/4"	28 1/4"	718	5.3	2.4
DM 550	3/4"	32"	812	6.4	2.9
DM 550-D	3/4"	32"	812	6.4	2.9
DM 760	3/4"	32"	812	7.1	3.2
DM 760-D	3/4"	32"	812	7.1	3.2
DM 1000	3/4"	*55 1/8" +	*1400 +	12.4	5.6
DM 1000-D	3/4"	*55 1/8" +	*1400 +	12.4	5.6
DM 2000	1"	*78 2/3" +	*1988 +	25.6	11.6
DM 2000-D	1"	*78 2/3" +	*1988 +	25.6	11.6
DM 3000	1 1/2"	*92 1/4" +	*2343 +	29.1	13.2

* Models come with an extension tube.



NOTE!

After being used, torque click wrenches should be turned back to the minimum scale value. This helps to preserve the springs and ensures a longer product life cycle with high precision.



Insulated

Torque Wrenches

KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003

Tools < 10 N.m ($\pm 6\%$ of setting): MTBN 21 & MTBN 101

Tools > 10 N.m are ($\pm 4\%$ of setting): TSN & SLO models

For life-threatening high voltage and low voltage electrical assembly applications where over-torque conditions are not tolerated and operator safety is mandatory.

Designed with non-conductive plastic insulation, the torque wrenches provide operators with the proper safety for fastening applications.

Ensure proper torque control and eliminate the possibility of product failure due to shorting, arcing or other electrical damage.

1000V Models

The 1000V Insulated torque wrenches are built to protect against voltages up to 1,000 volts making these torque tools ideal for use in electrically live situations for a wide range of industries.

SLO - EXTERNALLY ADJUSTABLE, CLICK WRENCHES

Model	Item #	Torque Ranges		Sq. Drive	Ratchet Dia.		Length		Weight	
		lbf.in	N.m		in.	mm	in.	mm	lbs.	kg.
SLO1/4I	060398	40 - 180	4 - 20	1/4"	1 1/2	38	8 5/8	220	1.3	0.6
SLO3/8I	060113	40 - 180	4 - 20	3/8"	1 1/2	38	8 5/8	220	1.3	0.6

TSN - INTERNALLY PRESET, CAM-OVER WRENCHES

Model	Item #	Torque Ranges		Square Drive	Length		Weight
		lbf.ft	N.m		in.	mm	
TSN25DI	020271	2 - 18	3 - 25	1/4"	8 2/3	220	14.1 oz.
TSN25AI	020272	2 - 18	3 - 25	3/8"	8 2/3	220	14.1 oz.
TSN55I	020273	10 - 40	15 - 55	3/8"	13	330	31.8 oz.
TSN125I	020274	30 - 90	40 - 125	1/2"	17 3/4	450	53 oz.

MTBN - INTERNALLY PRESET, BREAK-OVER WRENCHES

Model	Item #	Torque Ranges		Drive Type	Length		Weight	
		lbf.in	N.m		in.	mm	oz.	gm.
MTBN2I	020610	1.8 - 18	0.2 - 2	Captive Pin	5	125	14.1	400
MTBN10I	020611	9 - 89	1 - 10	Captive Pin	5	125	14.1	400

50V Models

The 50V Insulated torque wrenches are crafted for low voltage applications. Designed for use in uninterrupted power supply and other battery applications where protection up to 50 volts is required.

TSN - INTERNALLY PRESET, CAM-OVER WRENCHES

Model	Item #	Torque Ranges		Square Drive	Length		Weight	
		lbf.ft	N.m		in.	mm	oz.	kg.
TSN25DI	020612	2 - 18	3 - 25	1/4"	8 2/3	220	14.1	0.4
TSN25AI	020613	2 - 18	3 - 25	3/8"	8 2/3	220	14.1	0.4

MTBN - INTERNALLY PRESET, BREAK-OVER WRENCHES

Model	Item #	Torque Ranges		Sq. Drive	Length		Weight	
		lbf.in	N.m		in.	mm	oz.	gm.
MTBN2I	020592	1.8 - 18	0.2 - 2	1/4"	4 1/8	105	6	170
MTBN10I	020593	9 - 89	1 - 10	1/4"	4 1/8	105	6	170



NOTE!

Meets IEC900 Standards.

When ordering the TSN and MTBN models, the preset torque value must be provided.

MTWD

Digital Torque Wrench

TORQUE
WRENCHES

Mountz
MTWD135 15-135Nm

KEY FEATURES

Accuracy $\pm 2.5\%$ of reading CW, ± 1 digit
Accuracy $\pm 2.5\%$ of reading CCW, ± 1 digit

Designed for daily screw tightening production environment.

Program pre-set torque.

Visual, acoustic and sensory signal (handle vibrates) when the set torque is reached.

Four units of torque measurement available: N.m, lbf.ft, lbf.in, kgf.m

Heavy duty bi-directional ratchet head.

Operating mode: Peak

Holds "Peak" torque readings for 15 seconds.

Large LCD screen for high visibility.

Soft texture ergonomic grip.

Four-digit display.

Battery operation.

Model	Item #	Torque Ranges			Drive Size	Length		Weight	
		lbf.in	lbf.ft	N.m		in.	mm	lbs.	kg.
MTWD135	290121	132.8 - 1195	11.1 - 99.6	15 - 135	3/8"	15 1/2	394	2.4	1.1
MTWD135	290122	132.8 - 1195	11.1 - 99.6	15 - 135	1/2"	15 1/2	394	2.4	1.1
MTWD200	290123	221.3 - 1780	18.5 - 147	25 - 200	3/8"	22 1/2	569	3	1.4
MTWD200	290124	221.3 - 1780	18.5 - 147	25 - 200	1/2"	22 1/2	569	3	1.4
MTWD340	290125	345.2 - 3010	28.8 - 250	39 - 340	1/2"	30 1/2	769	3.7	1.7



NOTE!

Uses standard AAA batteries.



Mountz Tool Selector

Easy to navigate, a guide that assists engineers in selecting the proper tool for the application. Visit www.mountztorque.com/torque-tool-selector.



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TorqueMate® Wrench

Digital Torque Wrench

Accuracy ± 1% of reading from 10% to 100% of full scale.

Microprocessor controlled digital memory wrench for delivering precision torque and storing & downloading torque readings.

Ideal for torque measurement and auditing in R&D, QC, a lab, maintenance and production areas.

Large OLED screen for high visibility.

USB cable for data transfer - Windows, MS Excel, SPC compatible. Additional download can be made in ASCII or binary format.

Soft texture ergonomic grip.

Bi-directional operation with built-in ratchet head.

Programmable pre-sets up to 99 pre-sets of torque or torque & angle* can be programmed on wrench or uploaded from PC (software provided), all with individual minimum and maximum limits or percentage tolerances. Audible and visual alarms signal approach and achievement of preset torque values.

Over torque warning system.

The recalibration period can be set by cycles and/or time.

Can store torque readings with a time and date stamp.

Selectable languages and units of measurement.

For angle models, both torque and angle values are displayed simultaneously.

Model	Measures	Item #	Torque Ranges		Square Drive	Length		Weight	
			lbf.ft	N.m		inches	mm	lbs.	kg.
TMW10	Torque	240196	0.73 - 73	1 - 10	1/4"	16 1/8	410	1.9	0.85
TMW10A	Torque & Angle	240197	0.73 - 73	1 - 10	1/4"	16 1/8	410	1.9	0.85
TMW20	Torque	240180	1.4 - 14	2 - 20	1/4"	16 1/8	410	1.9	0.85
TMW20A	Torque & Angle	240181	1.4 - 14	2 - 20	1/4"	16 1/8	410	1.9	0.85
TMW50	Torque	240182	3.6 - 36	5 - 50	3/8"	16 1/8	410	1.9	0.85
TMW50 A	Torque & Angle	240183	3.6 - 36	5 - 50	3/8"	16 1/8	410	1.9	0.85
TMW100	Torque	240184	7.3 - 73	10 - 100	3/8"	16 1/8	410	1.9	0.85
TMW100A	Torque & Angle	240185	7.3 - 73	10 - 100	3/8"	16 1/8	410	1.9	0.85
TMW150	Torque	240186	11 - 110	15 - 150	1/2"	24 1/2	625	2.9	1.3
TMW150A	Torque & Angle	240187	11 - 110	15 - 150	1/2"	24 1/2	625	2.9	1.3
TMW250	Torque	240188	18.4 - 184	25 - 250	1/2"	24 1/2	625	2.9	1.3
TMW250A	Torque & Angle	240189	18.4 - 184	25 - 250	1/2"	24 1/2	625	2.9	1.3
TMW340	Torque	240198	25 - 250	34 - 340	1/2"	24 1/2	625	2.9	1.3
TMW340A	Torque & Angle	240195	25 - 250	34 - 340	1/2"	24 1/2	625	2.9	1.3
TMW600	Torque	240199	44 - 440	60 - 600	3/4"	39 1/3	1000	8.6	3.9
TMW600A	Torque & Angle	240193	44 - 440	60 - 600	3/4"	39 1/3	1000	8.6	3.9
TMW800	Torque	240204	59 - 590	80 - 800	3/4"	39 1/3	1000	8.6	3.9
TMW800A	Torque & Angle	240194	59 - 590	80 - 800	3/4"	39 1/3	1000	8.6	3.9
TMW1000	Torque	240201	73 - 737	100 - 1000	3/4"	39 1/3	1000	8.6	3.9
TMW1000A	Torque & Angle	240202	73 - 737	100 - 1000	3/4"	39 1/3	1000	8.6	3.9

SPECIFICATIONS

Operation Modes Peak, Pre-set, Set, Recall, Upload, Clear, Date, Language, Units, Track, Backlite, Com (First Movement*, Torque & Angle*)

Units ozf.in, lbf.in, lbf.ft, cN.m, N.m, kgf.cm, kgf.m

Alarms Preset Value Approach, Fastener Overload, Range Overload, Mechanical Overload, Low Battery, Memory Full.

Data Memory 2094 values

Power 4 x AA Batteries

Display Digits Four

Languages Chinese, English, French, German, Italian, Japanese, Polish, Portuguese, Russian & Spanish

* For Torque & Angle Models only.

OLED DISPLAY

The wrench ensures product quality, cost savings and a reduction in over-all production failures through complete monitoring of the fastening and assembly process with full data collection of the measured values.



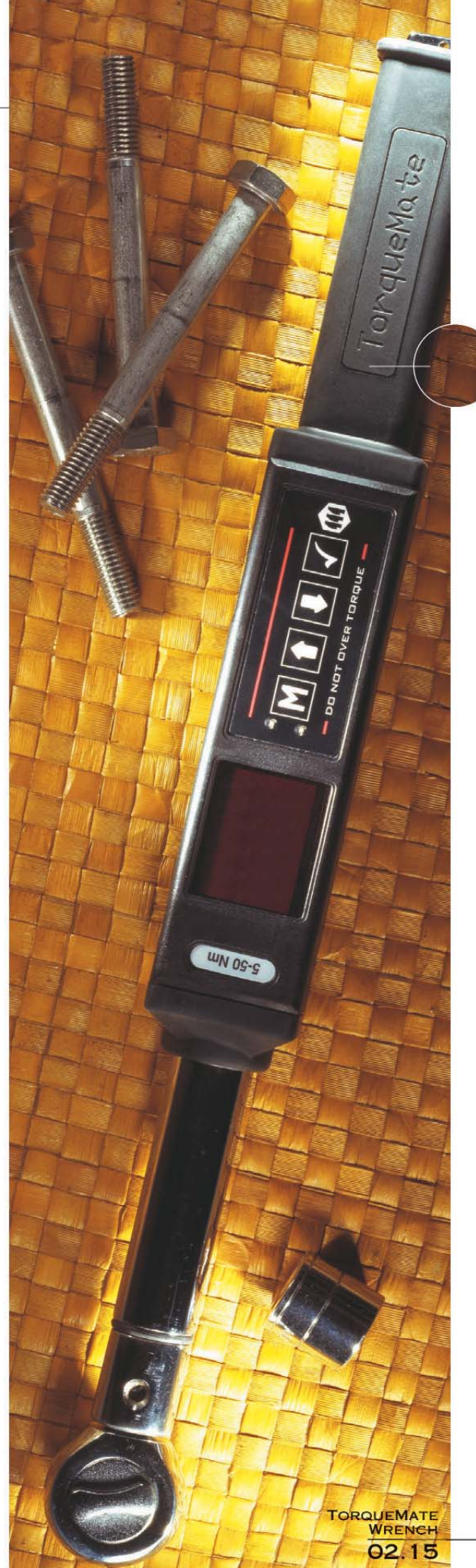
Displays Actual Torque as Applied



Screen Changes Color as Preset Torque Reached



Store & View 2000+ Results or Upload to PC or SPC



Signal Output Wrenches

Electric Signal Wrench

KEY FEATURES

PR wrenches are designed with a "Push Rod" connected to the mechanism of the wrench. When the wrench achieves its set torque, the rod makes contact with the microswitch housed within the Rotary Switch Module.

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003

- Tools < 10 N.m ($\pm 6\%$ of setting): MTBN2-PR & MTBN10-PR, TSP5/45-PR, TSP10/90-PR
- Tools > 10 N.m are ($\pm 4\%$ of setting): MTBN25-PR, MTBN65-PR & MTBN135-PR, MTBN200-PR, TSN25D-PR, TSN25A-PR, TSN55-PR, TSN125-PR, STB35-PR & STB70-PR

TSN - PUSH ROD WRENCH (Cam-Over Wrench style)

Model	Item #	Torque Ranges			Length		Square Drive	Weight	
		lbf.ft	N.m	kgf.m	inches	mm		oz.	gm.
TSN25D-PR	020500	2 - 18	3 - 25	0.3 - 2.5	9 3/4	247	1/4"	13.8	390
TSN25A-PR	020504	2 - 18	3 - 25	0.3 - 2.5	9 3/4	247	3/8"	13.8	390
TSN55-PR	020502	10 - 40	15 - 55	1.5 - 5.6	13	328	3/8"	30.1	850
TSN125-PR	020503	30 - 90	40 - 125	4 - 12.7	18 1/4	464	1/2"	50.8	1430

MTBN - PUSH ROD WRENCH (Break-Over Wrench style)

Model	Item #	Torque Ranges			Length		Drive Type	Weight		Break
		lbf.in	N.m	kgf.cm	inches	mm		oz.	gm.	
MTBN2-PR	020538	1.8 - 18	0.2 - 2	2 - 20	5 3/4	147	Captive Pin	5.7	160	20° or 90°
MTBN10-PR	020539	9 - 89	1 - 10	10 - 102	5 3/4	147	Captive Pin	6.4	180	20° or 90°
MTBN25-PR*	020494	44 - 221	5 - 25	51 - 255	10 3/8	270	16mm Spigot	16.3	460	20°
MTBN65-PR*	020495	89 - 575	10 - 65	102 - 663	13 1/2	345	16mm Spigot	29	820	20°
MTBN135-PR*	020505	177 - 1194	20 - 135	204 - 1377	17 1/8	435	16mm Spigot	38.2	1080	20°
MTBN200-PR*	020595	354 - 1770	40 - 200	408 - 2039	21	535	16mm Spigot	51	1450	20°

*Models operate in single direction (clockwise).

STB - PUSH ROD WRENCH (Cam-Over Breaking Wrench style)

Model	Item #	Torque Ranges			Length		Drive Type	Weight		Break
		lbf.ft	N.m	kgf.m	inches	mm		oz.	gm.	
STB35-PR	020575	5.2 - 25	7 - 35	0.7 - 3.5	10	256	16mm Spigot	19.1	540	110°
STB70-PR	020576	14 - 51	20 - 70	2 - 7.1	14 1/2	369	16mm Spigot	34	960	110°

TSP - PUSH ROD WRENCH (Cam-Over Wrench style)

Model	Item #	Torque Ranges			Length		Square Drive	Weight	
		lbf.in	N.m	kgf.cm	inches	mm		oz.	gm.
TSP5/45-PR	020537	10 - 45	1 - 5	10.2 - 51	7 7/8	200	1/4"	8.5	240
TSP10/90-PR	020549	20 - 90	20 - 90	20.4 - 102	7 7/8	200	1/4"	8.5	240



NOTE!

The weight and length does not include the Universal Rotary Switch Model attached to the wrenches.

SIGNAL OUTPUT WRENCHES (Electric Signal Wrenches)

Requires 3 components:



PUSH ROD WRENCH
Item # (Select from above)



UNIVERSAL ROTARY SWITCH MODULE
Item #20-B25900



STRAIGHT CABLE (pictured)
Length 20.5 ft. Item #20-D94402

SPIRAL CABLE
Free Length 5 ft., Max. Extension 19.6 ft.
Item #20-D94406

KEY FEATURES

Push Rod Tools are fitted with a Universal Rotary Switch Module (360° rotating connector prevents twisting or kinking of the cable), which signals when a pre-set torque value is reached.

Signal Output Wrenches can be connected to a Signal Delay Unit (accessory item) to monitor the use of the wrenches as the electrical signal is displayed each time the wrench achieves its pre-set torque value.

Micro-switch contained in internal shock-resistant housing.

Signal Output Wrenches can be interfaced with computers, counters, or gate switch.

Possible use in Production Line Control: Allowing only components with correctly torque fasteners to pass through a work station. This could be a simple matter of actuating a gate switch or signaling a computer controlled work station.

Counting Function: Count the number of times the torque has been applied - check against finished goods.

ACCESSORIES

SIGNAL DELAY UNIT

Item #20-C12870



Designed to exceed the duration of the electrical circuit completed and guarantee interface quality. It minimizes risk of multiple signals caused by rapid use or variable signal duration. The wall mountable box features adjustable signal duration and LED's to monitor the signal.

POWER SUPPLY for SIGNAL DELAY UNIT

Item #81-1060

WSTT

Weld Stud Test Tool



KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003.

- Tools < 10 N.m (\pm 6% of setting): WSTT 10
- Tools > 10 N.m (\pm 4% of setting): WSTT 20

The Weld Stud Test Tool is designed for use during the production of sheet metal products to test the strength and integrity of welds used to attach threaded studs to the sheet metal.

"T" shaped handle for easy operation.

Bi-directional.

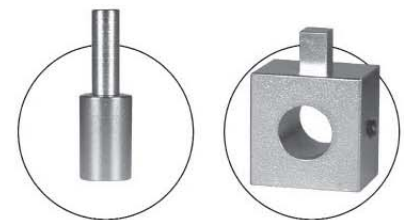
Tamper-proof internal adjustment. No external adjustment scale - must be preset using a torque analyzer.

Interchangeable end fittings are available.

Ideal tool for the automotive and appliance industry.

Model	Item #	Torque Ranges		
		lbf.in	N.m	kgf.cm
WSTT 10	020367	9 - 89	1 - 10	10 - 102
WSTT 20	020368	35 - 177	4 - 20	41 - 204

Model	Break	Length		Weight	
		in.	mm	oz.	gm.
WSTT 10	20°	8.5	215	4.2	120
WSTT 20	20°	12.5	320	7.8	220



PIN SETTING ADAPTERS

The system comprises of two components:

- 1) WSTT Setting Adapter - Item #061461**
Adapter with 1/4" male square drive and a pin-mounting hole, which accepts a variety of pin sizes.
- 2) Select pin size for the End Fitting on the WSTT:**

Item #	Model
061461-44	Pin for WSTT End Fitting 4-40
061461-66	Pin for WSTT End Fitting 6-32
061461-88	Pin for WSTT End Fitting 8
061461-100	Pin for WSTT End Fitting 10
061461-250	Pin for WSTT End Fitting 1/4
061461-31	Pin for WSTT End Fitting 5/16
061461-37	Pin for WSTT End Fitting 3/8



BLANK SETTING ADAPTER

Item #020572
The Setting Adapter features a 3/8" square drive on one side.

GET EASY TEST RESULTS

A simple way to test the shear torque of weld studs. Apply a straight pull of the WSTT wrench (no side load). When the wrench breaks-over and the weld stud is still attached then it passed. If the weld stud breaks off - then it failed.

METRIC END FITTINGS

Size	Item # for WSTT 10	Item # for WSTT 20
M2.5 x 25	020550	-
M3 x 50	020551	-
M4 x 50	020552	-
M5 x 50	020553	020556
M6 x 50	020554	020557
M8 x 50	020555	020558
M10 x 75	-	020559
M12 x 75	-	020560

AMERICAN END FITTINGS

Size	Item # for WSTT 10	Item # for WSTT 20
4-40 x 1.5"	020561	-
6-32 x 2"	020562	-
8-32 x 2"	020563	-
10-32 x 2.5"	020564	020567
10-24 x 2.5"	020565	020568
1/4-20 x 4"	020566	020569
5/16-18 x 4"	-	020570
3/8-16 x 4"	-	020571

061461-25	Pin for WSTT End Fitting 2.5mm
061461-3	Pin for WSTT End Fitting 3mm
061461-4	Pin for WSTT End Fitting 4mm
061461-5	Pin for WSTT End Fitting 5mm
061461-6	Pin for WSTT End Fitting 6mm
061461-8	Pin for WSTT End Fitting 8mm
061461-10	Pin for WSTT End Fitting 10mm
061461-12	Pin for WSTT End Fitting 12mm



Mountz Torque Conversion Calculator
Quickly convert torque measurement from one type of unit measurement to another. Visit www.mountztorque.com/calculator



NOTE!
The pin & blank setting adapters are used for setting the torque of the WSTT with a torque analyzer.

Dial Measuring

Torque Wrenches
ADS - EDS

TORQUE WRENCHES

MOUNTZ INC. 1700 WEST 10TH AVENUE, SUITE 200
DENVER, CO 80202
Model: BDS 200 S Serial No: B18P006439



KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003

- Tools < 10 N.m (\pm 6% of setting): ADS4 & ADS8 models.
- Tools > 10 N.m (\pm 4% of setting): All other Dial Wrench models.

For controlled screw tightening and torque measurements.

Non-length dependent.

Dual scale in American and S.I. units. Single scale models are available.

Fine main and memory pointers provide accurate readings.

Exclusive built-in ratchet mechanism.

Standard double-ended spindle ratchet mechanism allows for CW & CCW torque applications.

EDS models fitted with fixed double-end square drive.

Lightweight aluminum handle (w/non-slip grip) for improved balance. Scuff-resistant non-slip finish.

Quality constructed for accuracy and reliability with an attractive abrasive resistant finish for longer life.

Mechanical stop provides overload protection to 125% of full scale.

Recessed dial minimizes dial breakage.

Model serial numbers labeled for instant traceability / identification.

Torque indicating signal light - standard on CDS, DDS, and EDS models. Optional on certain ADS and BDS models.

ADS models are ESD compliant.



Mountz Learning Center
Your Resource for Torque Knowledge! For more on torque, including "how to" guides, product videos and other useful resources visit www.mountztorque.com/learning-center.



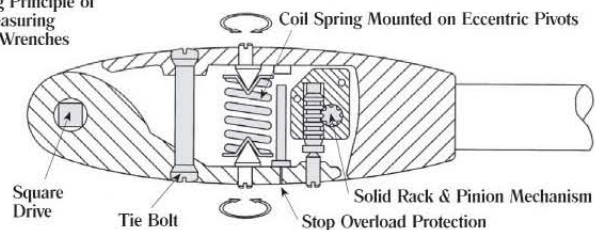
Mountz Tool Selector
Easy to navigate, a guide that assists engineers in selecting the proper tool for the application. Visit www.mountztorque.com/torque-tool-selector.

ADS - EDS
02.18

 **mountz**
mounting tool specialists
800.456.1828



Working Principle of Dial Measuring Torque Wrenches



Model	Item #	Calibrated Torque Ranges		Graduation	
		American	S.I.	American	S.I.
ADS4	020100	7 - 35 lbf.in	0.8 - 4 N.m	1 lbf.in	0.1 N.m
ADS8	020101	14 - 70 lbf.in	1.6 - 8 N.m	1 lbf.in	0.25 N.m
ADS12D	020102	24 - 120 lbf.in	2.4 - 12 N.m	2 lbf.in	0.5 N.m
ADS12A	020103	24 - 120 lbf.in	2.4 - 12 N.m	2 lbf.in	0.5 N.m
ADS25	020104	48 - 240 lbf.in	5 - 25 N.m	10 lbf.in	1 N.m
ADS25F	020105	4 - 20 lbf.ft	5 - 25 N.m	0.5 lbf.ft	1 N.m
ADS40	020106	72 - 360 lbf.in	8 - 40 N.m	10 lbf.in	1 N.m
ADS40F	020107	6 - 30 lbf.ft	8 - 40 N.m	1 lbf.ft	1 N.m
BDS80A	020108	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS80AS	020109	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS80E	020110	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS80ES	020111	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS160	020112	24 - 120 lbf.ft	32 - 160 N.m	2 lbf.ft	2.5 N.m
BDS160S	020113	24 - 120 lbf.ft	32 - 160 N.m	2 lbf.ft	2.5 N.m
BDS200	020114	30 - 160 lbf.ft	40 - 200 N.m	5 lbf.ft	5 N.m
BDS200S	020115	30 - 160 lbf.ft	40 - 200 N.m	5 lbf.ft	5 N.m
CDS400S	020117	60 - 300 lbf.ft	80 - 400 N.m	10 lbf.ft	10 N.m
DDS800S	020119	120 - 600 lbf.ft	160 - 800 N.m	20 lbf.ft	20 N.m
EDS1400	020120	200 - 1000 lbf.ft	280 - 1400 N.m	25 lbf.ft	25 N.m
EDS2000	020121	300 - 1500 lbf.ft	400 - 2000 N.m	50 lbf.ft	50 N.m

	Sq. Drive	Light Signal	Head Ht.		Length		Weight	
	in.		in.	mm	in.	mm	lbs.	kg.
ADS4	1/4	*	2.40	61	9.60	244	1.15	0.52
ADS8	1/4	*	2.40	61	9.60	244	1.15	0.52
ADS12D	1/4	*	2.40	61	9.60	244	1.15	0.52
ADS12A	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS25	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS25F	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS40	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS40F	3/8	*	2.70	69	9.60	244	1.15	0.52
BDS80A	3/8	-	3.06	78	17.12	435	2.98	1.35
BDS80AS	3/8	Yes	3.06	78	17.31	440	3.24	1.47
BDS80E	1/2	-	3.39	86	17.12	435	3.00	1.36
BDS80ES	1/2	Yes	3.39	86	17.31	440	3.28	1.49
BDS160	1/2	-	3.39	86	20.27	515	3.10	1.41
BDS160S	1/2	Yes	3.39	86	20.47	520	3.39	1.54
BDS200	1/2	-	3.39	86	20.27	515	3.10	1.41
BDS200S	1/2	Yes	3.39	86	20.47	520	3.39	1.54
CDS400S	3/4	Yes	4.38	111	27.95	710	6.94	3.15
DDS800S	3/4	Yes	4.88	123	39.37	1000	10.70	4.85
EDS1400	1	Yes	5.40	138	80.3	2040	36.72	16.69
EDS2000	1	Yes	5.40	138	80.3	2040	36.72	16.69

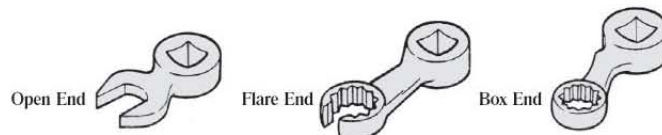
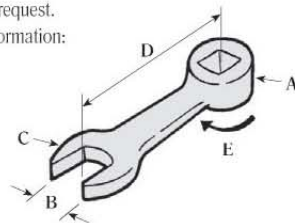
NOTE!

* SPECIAL ORDER
 All Light Signal Wrenches use standard size batteries.
 All ADS - EDS wrenches available in single scale models.
 ADS and BDS models are supplied with a protective plastic case.

EXTENSION SPANNERS

Special extensions spanners are available upon request. When ordering, please provide the following information:

- A) Square drive size.
- B) Size of spanner end.
- C) End type - Box, Open, or Flared.
- D) Center distance between the square drive and the spanner end fitting.
- E) Maximum torque to be applied.

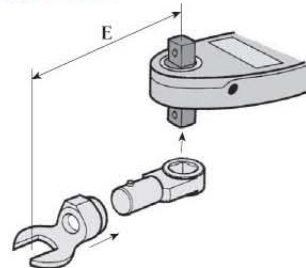


NOTE!
 Due to the low torque ranges and high accuracy, it is recommended that models ADS4 & ADS8 should not be used with Extension Spanners.

EXTENSION ADAPTERS

Adapters offer an alternative solution for overcoming space and access limitations and are available upon request.

1. Place the end fitting to the extension adapter.
2. Attach to the wrench's square drive.
3. Measure and note distance "E" from the center of the end fitting to the wrench square drive.



Square Drive	16mm Spigot	9x12 End Fitting	Dovetail End Fitting
	Item #	Item #	Item #
3/8"	20-A96102	20-A96112	20-A96122
1/2"	20-A96103	20-A96113	20-A96123

NOTE!
 Extension Adapters cannot be used with the ADS4, ADS8 and ADS12D.

When using extension spanners or adapters, the torque applied to the fastener is greater than that shown on the torque wrench dial. To calculate the increase, please use the formula on our website.

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Interchangeable Heads

Interchangeable Head Style, 8mm Spigot & Ratcheting Adapters



OPEN END HEADS

for ATB5, ATB10

Max. Torque Capacity: 10 N.m

AMERICAN		METRIC	
Size	Item #	Size	Item #
5/32	023003	3.2	023019
3/16	023004	4	023020
7/32	023005	5	023021
1/4	023006	5.5	023022
5/16	023007	6	023023
3/8	023008	7	023024
7/16	023009	8	023025
1/2	023010	9	023026
9/16	023011	10	023027
5/8	023012	11	023028
11/16	023013	12	023029
3/4	023014	13	023030
13/16	023015	14	023031
7/8	023016	15	023032
15/16	023017	16	023033
1	023018	17	023034
		18	023035
		19	023036
		20	023037
		21	023038
		22	023039
		23	023040
		24	023041
		25	023042

BOX END HEADS

for ATB5, ATB10

Max. Torque Capacity: 10 N.m

AMERICAN		METRIC	
Size	Item #	Size	Item #
5/32	023043	3.2	023059
3/16	023044	4	023060
7/32	023045	5	023061
1/4	023046	5.5	023062
5/16	023047	6	023063
3/8	023048	7	023064
7/16	023049	8	023065
1/2	023050	9	023066
9/16	023051	10	023067
5/8	023052	11	023068
11/16	023053	12	023069
3/4	023054	13	023070
13/16	023055	14	023071
7/8	023056	15	023072
15/16	023057	16	023073
1	023058	17	023074
		18	023075
		19	023076
		20	023077
		21	023078
		22	023079
		23	023080
		24	023081
		25	023082

FLARE END HEADS

for ATB5, ATB10

Max. Torque Capacity: 10 N.m

AMERICAN		METRIC	
Size	Item #	Size	Item #
1/4	023083	8	023093
5/16	023084	9	023094
3/8	023085	10	023095
7/16	023086	11	023096
1/2	023087	12	023097
9/16	023088	13	023098
5/8	023089	14	023099
3/4	023090	15	023100
7/8	023091	16	023101
1	023092	17	023102
		19	023103
		22	023105
		24	023107

SPECIAL HEADS

for ATB5, ATB10
8mm Spigot Wrenches



RATCHET, 1/4 SQ. DRIVE

Item #023000
Max. Torque Capacity: 10 N.m



FIXED END

1/4 SQ. DRIVE

Item #023001
Max. Torque Capacity: 10 N.m



BLANK END

Item #023002

HEX KEY ADAPTERS

Allows the use of hexagon keys to be used with MTBN2, MTBN10 and 16mm spigot wrenches. Hex keys can be inserted into adapter and secured with a locking screw.



for MTBN2 & MTBN10
Torque Wrenches

Item #	Hex Key Sizes
020619	1.0 - 2.5
020646	3.0 - 5.0
020614	6.0 - 8.0



for 16mm Spigot
Torque Wrenches

Item #	Hex Key Sizes
020655	2.5 - 5.0
020656	4.0 - 8.0

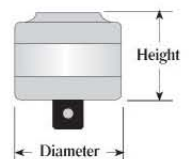
NOTE:
Hex keys are not included with the adapter.

RATCHETING ADAPTERS

Enables controlled tightening in combination with DM Series wrenches.

Sturdy ratchet head made of chrome vanadium steel.

Operates in Clockwise direction.



Square Drive	Item #	Height		Diameter		Weight	
		in.	mm	in.	mm	oz.	gm.
1/4"	110116	7/8	21	15/16	24	1.8	50
3/8"	110117	1 1/8	28	1 3/8	35	5.3	150
1/2"	110118	1 3/8	35	1 13/16	46	12.4	350
3/4"	110119	2 1/16	53	2 9/16	65	35.4	1000
1"	110120	2 1/2	63	2 7/8	73	88.4	2500

Interchangeable Heads Continued

Interchangeable Head Style, 16mm Spigot & Captive Pin Ends

Heads for MTBN2, MTBN10



Open End Box End Flare End

Heads for 16mm Spigot Wrenches



Open End Box End Flare End

Special Heads for: MTBN2, MTBN10

Ratchet, 1/4" Sq. Drive
Max Torque Capacity: 10 N.m
Item #020399



Fixed End, 1/4" Sq. Drive
Max Torque Capacity: 10 N.m
Item #020395

Blank End
Item #020400

16mm Spigot Wrenches

Special Heads for:

ATB MTBN25
STB MTBN65
Titan MTBN135
MTBN200

Blank End
Item #040069



Ratchet, 3/8" Sq. Drive
Item #040039G
Max Torque Capacity: 135 N.m

Ratchet, 1/2" Sq. Drive
Max Torque Capacity: 340 N.m
Item #040040G



Fixed, 3/8" Sq. Drive
Max Torque Capacity: 100 N.m
Item #040085

Fixed, 1/2" Sq. Drive
Max Torque Capacity: 330 N.m
Item #040086

16mm Spigot Wrenches for ATB, MTBN25, MTBN65, MTBN135, MTBN200, STB and Titan Models

Size mm	For MTBN2, MTBN10 Max. Torque Capacity: 10 N.m			Open End		Box End		Flare End	
	Open End	Box End	Flare End	Item #	Max Torque Capacity N.m	Item #	Max Torque Capacity N.m	Item #	Max Torque Capacity N.m
3.2	022000	022250	-	-	-	-	-	-	-
4	-	022255	-	-	-	-	-	-	-
5	020429	020528	-	-	-	-	-	-	-
5.5	022015	022265	-	-	-	-	-	-	-
6	020430	022270	-	-	-	-	-	-	-
7	022025	022275	-	040407	9	040476	25	040530	4
8	020427	022280	022505	040410	13	040426	35	040528	7
9	022035	022285	022510	040411	19	040427	45	040533	9
10	020508	022290	022515	040412	25	040428	52	040444	12
11	022045	022295	022520	040413	32	040429	73	040445	16
12	020431	022300	022525	040414	41	040430	89	040446	25
13	022055	022305	022530	040415	51	040431	107	040447	28
14	020428	022310	022535	040416	63	040432	128	040448	31
15	020432	022315	022540	040417	77	040433	150	040449	38
16	022070	022320	022545	040105	92	040434	175	040450	46
17	022075	022325	022550	040106	107	040435	201	040451	53
18	022080	022330	-	040418	128	040436	230	040452	65
19	022085	022335	022555	040419	149	040437	261	040229	74
20	022090	022340	-	040420	172	040438	294	040453	86
21	022095	022345	022222	040421	196	040439	330	040454	100
22	022100	022350	022560	040422	225	040440	330	040455	112
23	022105	022355	020496	040423	255	040441	330	040456	123
24	022110	022360	022565	040424	287	040442	330	040457	143
25	022115	022365	-	040425	322	040443	330	-	-
26	-	-	-	040409	330	-	-	-	-
27	-	-	-	040110	330	040478	330	040555	150
30	-	-	-	040650	330	-	-	-	-
32	-	-	-	040107	330	-	-	-	-
36	-	-	-	040111	330	-	-	-	-
5/32"	020415	022400	-	-	-	-	-	-	-
3/16"	020411	020405	-	-	-	-	-	-	-
7/32"	020414	022410	-	-	-	-	-	-	-
1/4"	020401	020396	022600	040047	7	040056	25	049748	4
5/16"	020402	020424	020426	040048	13	040057	35	040750	7
3/8"	020403	022425	020420	040072	21	040058	42	040041	9
7/16"	020407	020422	020419	040049	32	040059	73	040042	15
1/2"	020408	020421	022620	040050	48	040060	115	040043	23
9/16"	020404	022440	022625	040051	67	040061	170	040044	32
5/8"	020409	020417	020463	040052	90	040062	226	040045	44
11/16"	020418	021116	-	040053	118	040063	260	040310	58
3/4"	020397	022455	022635	040054	150	040064	305	040071	74
13/16"	022225	022460	-	040304	187	040065	330	040301	93
7/8"	020423	022465	022640	040073	230	040066	330	040311	114
15/16"	020425	022470	-	040055	281	040307	330	040312	140
1"	020410	022475	022645	040305	330	040067	330	040313	166
1 1/16"	-	-	-	040306	330	040308	330	040314	166
1 1/8"	-	-	-	040327	330	069712	330	-	-
1 3/16"	-	-	-	040716	330	-	-	040651	166
1 1/4"	-	-	-	040315	330	049742	330	040309	166
1 5/16"	-	-	-	060375	330	-	-	-	-
1 1/2"	-	-	-	065433	330	-	-	-	-

METRIC HEADS

AMERICAN HEADS

Item #

Wrench Chart

Selecting the Proper Torque Wrench

There are a wide variety of "Preset" and "Adjustable" torque wrenches and selecting the shape and size for your application can be easy. However, understanding the variety of torque delivery mechanisms of torque wrenches can be confusing.

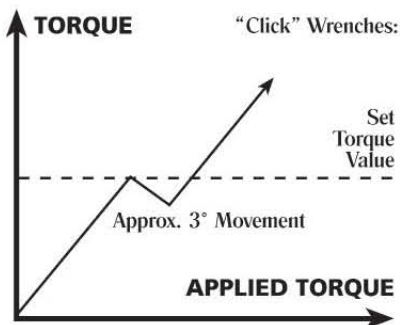
A "Preset" torque wrench is similar to a person setting an alarm clock to signal the achievement of a selected time. The wrench is preset to the required torque value of the application and then the tool signals the user when torque is achieved. A preset torque wrench must be preset using a torque analyzer. An "Adjustable" torque wrench features a torque scale that allows you to see and adjust the torque setting.

There are three styles in which the wrench can signal achieving torque, either by a "click," "break," or "slip". Each of three wrench styles have a specific purpose and utility. When you decide to spend the money for one, it's important that you select the one that will do the job properly and not generically.



CLICK WRENCHES

"Click" wrenches are the most widely used torque product in the world. When the set torque is reached, the tool typically emits a loud audible "click." The operator can feel the impulse from the tool and most break about 3° after set torque is reached and then become positive. This positive action can cause over-torque conditions. Proper use and training is required so that operators stop pulling the moment the click sound is heard or felt. Resetting of the tool takes place when the hand pressure is released. Work can then immediately continue on the next fastener.



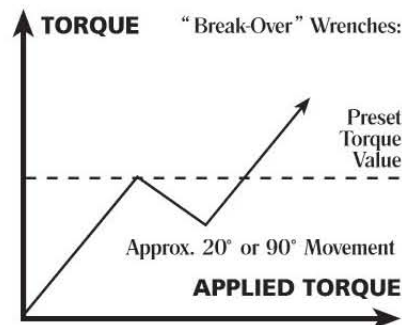
"Click" Wrenches:

Reset when pressure is released - length dependent.



BREAK-OVER WRENCHES

"Break-Over" wrenches are essential to limiting the amount of torque applied to an assembly or fastening. Upon reaching the preset torque value, the tool "breaks" at a specific point along the tool's length - usually at a pivot point near the tool's head. It typically deflects 20° or 90° on torque delivery; thus indicating torque has been reached. Continuing force after the break will increase the torque applied above the preset value. Many break-over wrenches require manual resetting, while others have an automatic resetting feature.



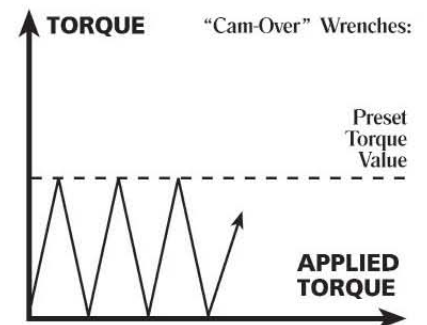
"Break-Over" Wrenches:

Reset at in-line position - length dependent.



CAM-OVER WRENCHES

"Cam-Over" wrenches utilize a ball and lobe design that allows the tool to slip free when torque is reached. Even if the application of force is repeated, the preset torque value won't be exceeded, eliminating the possibility of over-torque. These tools are perfect for maintenance and production applications where over-torque conditions are not tolerated. The use of cam-over wrenches takes the operator influence out of the torque equation and offers more accurate and repeatable results than a standard "click" type wrench.



"Cam-Over" Wrenches:

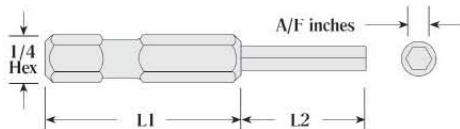
Reset automatically - non-length dependent.

When ordering special extended bits, we need the specific information below to provide a quote.

Special Bits

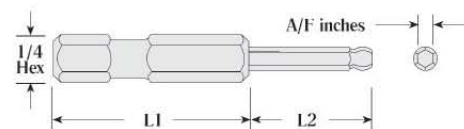


**TLS MINIMASTER
HAND SCREWDRIVER**
Torque Limiting Screwdriver
Internally Adjustable
SEE PAGES O1.5 & O1.6



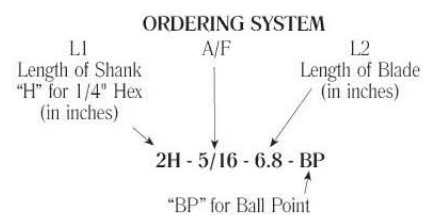
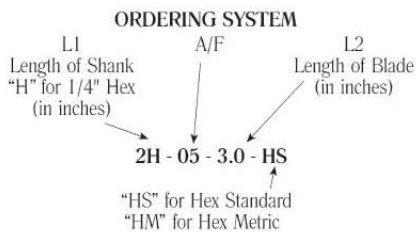
HEX BITS or BLADES

AMERICAN		METRIC	
A/F	L2 (max.)	A/F	L2 (max.)
.05"	3"	1.5mm	3 1/4"
1/16"	3 1/4"	2mm	4 3/4"
5/64"	3 1/2"	2.5mm	5 1/2"
3/32"	3 3/4"	3mm	7 1/4"
7/64"	7"	4mm	8 1/4"
1/8"	7 1/2"	5mm	9 1/4"
9/64"	8"	6mm	10"
5/32"	8 1/2"	8mm	10 3/4"
3/16"	9 1/4"		
1/4"	6"		
5/16"	7"		



BALL POINT BITS or BLADES

AMERICAN		METRIC	
A/F	L2 (max.)	A/F	L2 (max.)
.05"	3"	1.5mm	3 1/4"
1/16"	3 1/4"	2mm	4 3/4"
5/64"	3 1/2"	2.5mm	5 1/2"
3/32"	3 3/4"	3mm	7 1/4"
7/64"	7"	4mm	8 1/4"
1/8"	7 1/2"	5mm	9 1/4"
9/64"	8"	6mm	10"
5/32"	8 1/2"	8mm	10 3/4"
3/16"	9 1/4"		
1/4"	6"		
5/16"	7"		



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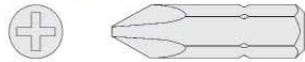
NOTE!

Bits in excess of 4" long are subject to "bowing".

Insert Bits

For use with ALL Drivers

PHILLIPS



Point Size	Item #	Overall Length	Package Quantity
0	120107	1"	10
1	120108	1"	10
2	120110	1"	10
3	120112	1"	10

PHILLIPS - REDUCED SHANK



Overall Length	Item #	Point Size	Package Quantity
1"	120109	1	10
1"	120111	2	10
2"	120291	1	10
2"	120292	2	10
3"	120684	2	1

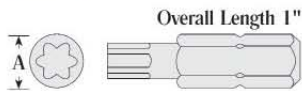


ERGO MICRO TORQUE HAND SCREWDRIVER

Torque Limiting Screwdriver
Externally Adjustable
SEE PAGE 01.4



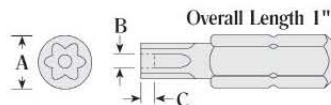
TORX®



Drive Size	Item #	A"	Package Quantity
T-1	126051	.033	1
T-4	126054*	.051	1
T-6	120601*	.065	5
T-7	120303	.077	5
T-8	120128	.090	5
T-9	120129	.097	5
T-10	120130	.107	5
T-15	120131	.128	5
T-20	120132	.151	5
T-25	120133	.173	5
T-27	120134	.195	5
T-30	120135	.216	10
T-40	120381	.260	10

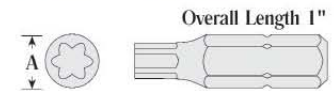
*OAL is 1¹⁵/₁₆"

TAMPER RESISTANT TORX®



Drive Size	Item #	A"	B"	C"	Package Quantity
T-7	120550	.077	-	-	1
T-8	120533	.090	.045	.030	1
T-9	120534	.097	.050	.032	1
T-10	120537	.107	.055	.037	1
T-15	120523	.128	.062	.047	1
T-20	120524	.151	.078	.062	1
T-25	120522	.173	.085	.077	1
T-27	120521	.195	.095	.087	1
T-30	120551	.216	.112	.107	1
T-40	120552	.260	.134	.124	1

TORXALIGN® WEDGE



Drive Size	Item #	A"	Package Quantity
T-6	120612	.065	5
T-7	120549	.077	5
T-8	120519	.090	5
T-9	120944	.097	5
T-10	120247	.107	5
T-15	120505	.128	5
T-20	120548	.151	5
T-25	120535	.173	5
T-27	120945	.195	5
T-30	120547	.216	5

mr. metric®

Mr. Metric is the leading metric fastener specialist in North America. Well regarded as experts in metric, Mr. Metric is known for hard to find metric items at competitive prices. Visit www.mrmetric.com



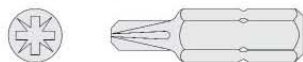


TLS MICRO MINIMASTER HAND SCREWDRIVER

Torque Limiting Screwdriver
Internally Adjustable

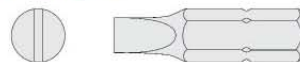
SEE PAGE O1.5 & O1.6

POZIDRIVE®



Overall Length	Item #	Point Size	Package Quantity
1"	I20113	1-PZD	10
1"	I20114	2-PZD	10
1"	I20115	3-PZD	10

SLOTTED



Overall Length	Item #	Blade			Package Quantity
		Thickness	Width	Screw Size	
1"	I20308	.034"	.187"	4F-5R	10
1 1/2"	I20137	.040"	.250"	6F-8R	10
1"	I20220	.042"	.281"	8F-10R	10
1 1/2"	I20139	.046"	.281"	10F-12R	10
1 1/2"	I20219	.050"	.311"	12F-14R	1
1"	I20141	.055"	.359"	14F-16R	5



HEX (Allen Type)



	Hex Size	Item #	Overall Length	Cap Screw Size	Set Screw Size	Package Quantity
AMERICAN	.050"	I20003	1"	0	3 - 4	5
	1/16"	I20116	1"	1	5 - 6	10
	5/64"	I20117	1"	2 - 3	8	10
	3/32"	I20118	1"	4 - 5	10	10
	7/64"	I20119	1"	6	-	10
	1/8"	I20120	1"	-	1/4	10
	9/64"	I20155	1"	8	-	5
	5/32"	I20122	1"	10	5/16	10
	3/16"	I20123	1"	1/4	3/8	10
	7/32"	I20124	1"	-	7/16	10
	1/4"	I20125	1"	5/16	1/2	10
	5/16"	I20126	1"	3/8	5/8	10
	3/8"	I20127	1"	3/16, 1/2	3/4	5
	METRIC	1.5mm	I20859	25.4mm	M1.6/2	M3
2mm		I20399	25.4mm	M2.3/2.5/2.6	M4	10
2.5mm		I20363	25.4mm	M3	M5	10
3mm		I20360	25.4mm	M4	M6	10
4mm		I20361	25.4mm	M5	M8	10
5mm		I20362	25.4mm	M6	M10	10
6mm		I20364	25.4mm	M8	M12	10
8mm		I20365	25.4mm	M10	M16	5

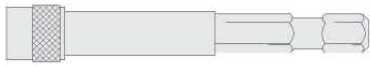
BALLPOINT (Hex)



	Hex Size	Item #	Overall Length	Cap Screw Size	Set Screw Size	Package Quantity	
AMERICAN	5/64"	I20710	1"	2 - 3	8	5	
	3/32"	I20711	1"	4 - 5	10	5	
	7/64"	I20712	1"	6	-	5	
	1/8"	I20713	1"	-	1/4	5	
	9/64"	I20714	1"	8	-	5	
	5/32"	I20715	1"	10	5/16	5	
	3/16"	I20716	1"	1/4	3/8	5	
	7/32"	I20717	1"	-	7/16	5	
	1/4"	I20718	1"	5/16	1/2	5	
	5/16"	I20962	1.5"	3/8	5/8	1	
	3/8"	I20963	1.5"	7/16, 1/2	3/4	1	
	1/2"	I20964	1.5"	5/8	7/8	1	
	METRIC	2mm	I20620	25.4mm	M2.5	M4	5
		2.5mm	I20621	25.4mm	M3	M5	5
3mm		I20622	25.4mm	M4	M6	5	
4mm		I20623	25.4mm	M5	M8	5	
5mm		I20624	25.4mm	M6	M10	5	
6mm		I20625	25.4mm	M8	M12	5	
8mm		I20965	38.1mm	M10	M16	1	
10mm		I20966	38.1mm	M12	M18, M20	1	
12mm	I20967	38.1mm	M14	M22, M24	1		

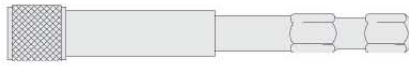
Bit Holders

For use with ALL Drivers



SCREW CAP RETAINER (non-magnetic)

Length	Item #	Drive	Diameter	
			Body	Nose
2 7/16"	120258	1/4 Hex	3/8"	7/16"
6"	120311	1/4 Hex	3/8"	7/16"



SCREW CAP RETAINER (magnetic)

Length	Item #	Drive	Diameter	
			Body	Nose
2 3/8"	120411	1/4 Hex	3/8"	7/16"
2 7/8"	120241	1/4 Hex	3/8"	7/16"
4"	120243	1/4 Hex	3/8"	7/16"
6"	120719	1/4 Hex	3/8"	7/16"



C-RING RETAINER (magnetic)

Length	Item #	Drive	Body Dia.
2 1/8"	120999	1/4 Hex	3/8"
2 7/8"	120242	1/4 Hex	3/8"
4"	120470	1/4 Hex	3/8"
6"	120471	1/4 Hex	3/8"
11"	120472	1/4 Hex	3/8"



NARO DRIVER & BIT SET
Item #125003



FLEXIBLE DRIVER AND BIT SET
Item #125000

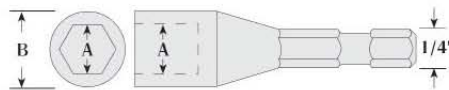


AUTOLOCK BIT HOLDER 60MM (NON-MAGNETIC)
Item #125001

AUTOLOCK BIT HOLDER 60MM (MAGNETIC)
Item #125006

Nutsetters

For use with ALL Drivers



MAGNETIC

Hex Size "A"	Item #	Overall Length	Socket Body Diameter "B"
3/16"	128806	2"	5/16"
1/4"	120430	1 5/8"	7/16"
1/4"	120743	2 9/16"	7/16"
1/4"	121037	4"	7/16"
1/4"	120970	6"	7/16"
5/16"	120431	1 5/8"	1/2"
5/16"	120323	2 9/16"	1/2"
5/16"	128810	3"	1/2"
3/8"	126165	1 7/8"	9/16"
3/8"	120256	2 9/16"	9/16"
3/8"	128812	3"	9/16"
7/16"	120746	2 9/16"	5/8"
5mm	128807	2 9/16"	1/4"
6mm	120705	1 5/8"	1/4"
7mm	120709	2 9/16"	7/16"
8mm	120706	1 5/8"	1/2"
10mm	120707	1 7/8"	9/16"

AMERICAN
METRIC

NON-MAGNETIC

Hex Size "A"	Item #	Overall Length	Socket Body Diameter "B"
3/16"	120007	2"	5/16"
3/16"	120008	3"	5/16"
1/4"	120262	1 5/8"	7/16"
1/4"	120740	2 9/16"	7/16"
1/4"	120808	3"	7/16"
5/16"	120263	1 5/8"	1/2"
5/16"	120747	2 9/16"	1/2"
5/16"	128102	2"	1/2"
5/16"	128103	3"	1/2"
5/16"	120887	4"	1/2"
5/16"	128106	6"	1/2"
11/32"	128112	2"	9/16"
11/32"	128113	3"	9/16"
3/8"	120264	1 7/8"	9/16"
3/8"	128122	2"	9/16"
3/8"	120742	2 9/16"	9/16"
7/16"	120322	2"	21/32"
7/16"	128143	3"	21/32"
7/16"	120592	6"	21/32"
1/2"	120052	2"	3/4"
1/2"	128163	3"	3/4"
4mm	120880	2 9/16"	11/32"
5mm	120840	2 9/16"	11/32"
7mm	120701	2 5/8"	11/32"

AMERICAN
METRIC

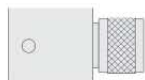
Adapters & Sockets

For use with ALL Drivers



SQUARE DRIVE ADAPTER

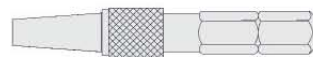
Sq. Drive	Item #	Drive	Overall Length
1/4"	120142	1/4 Hex	1"
1/4"	120225	1/4 Hex	1 3/8"
1/4"	120143	1/4 Hex	2"
1/4"	120144	1/4 Hex	3"
1/4"	122504	1/4 Hex	4"
1/4"	120146	1/4 Hex	6"
1/4"	120147	1/4 Hex	8"
3/8"	120148	1/4 Hex	2"
3/8"	120149	1/4 Hex	3"



FEMALE TO FEMALE ADAPTER

Sq. Drive	Item #	Drive	Overall Length
1/4"	120260	1/4 F/Hex	1 1/8"
3/8"	120261	1/4 F/Hex	1 15/16"
1/2"	120530	5/16 F/Hex	1 1/2"
1/2"	120634	1/4 F/Hex	1 3/4"

1/4" FEMALE SQUARE DRIVE TO 1/4" F/HEX Item # 205640



1/4" HEX INSERT PIN CHUCK

Size	Item #	Chuck Dia.	Length
1/4 Hex	020248	3/32"	1 1/8"

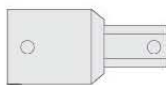


STANDARD 1/4" SQ. DR. SOCKETS

6pt. American		8pt. American		6pt. Metric	
A/F US	Item #	A/F US	Item #	A/F Metric	Item #
1/8"	230042	-	-	4 mm	230577
5/32"	240037	-	-	4.5 mm	230575
3/16"	230049	-	-	5 mm	230578
7/32"	230050	-	-	5.5 mm	230576
1/4"	230043	1/4"	230560	6 mm	230579
9/32"	230044	-	-	7 mm	230580
5/16"	230045	5/16"	230561	8 mm	230581
11/32"	230046	-	-	9 mm	230582
3/8"	230047	3/8"	230562	10 mm	230583
7/16"	230048	-	-	11 mm	230584
1/2"	230056	-	-	12 mm	230585

6 PT. DEEP WALL 1/4" SQ. DR. SOCKETS

A/F US	Item #	A/F Metric	Item #
1/4"	230563	4 mm	230587
9/32"	230564	5 mm	230904
5/16"	230565	6 mm	230905
11/32"	230566	7 mm	230089
3/8"	230567	8 mm	230083
7/16"	230568	9 mm	230906
1/2"	230569	10 mm	230090
		11 mm	230907
		12 mm	230908
		13 mm	230091



ADAPTER

Size, Square Male x Female	Item #
1/4" x 3/8"	230060
3/8" x 1/4"	230061
3/8" x 1/2"	230065
1/2" x 3/8"	230062
1/2" x 3/4"	230063
3/4" x 1/2"	230068
3/4" x 1"	230066
1" x 3/4"	230067



1/4" F/SQ. DR. to 1/4" F/HEX BIT HOLDER 45MM
Item #125002

American

Metric



Magnetic Power Socket

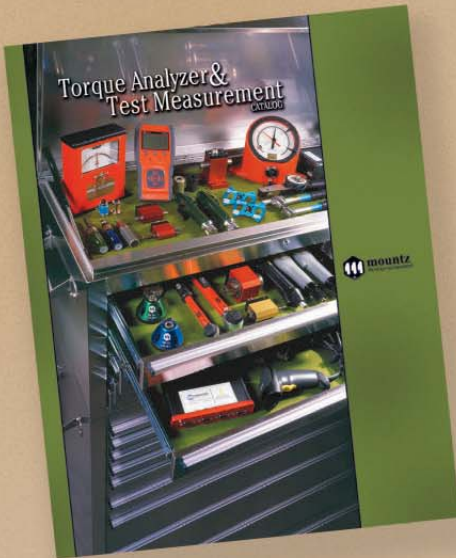
POWER SOCKETS 1/4" SQ. DR.

Hex Size	Mag. Item #	Standard		Deep Wall		Overall Length
		Non-Mag. Item #	Overall Length	Mag. Item #	Non-Mag. Item #	
3/16"	120249	-	7/8"	-	-	2"
7/32"	-	120342	7/8"	-	120784	2"
1/4"	120250	120270	7/8"	120295	-	2"
9/32"	120251	120271	7/8"	120296	120379	2"
5/16"	120267**	120272	7/8"	-	-	-
11/32"	120253	120259	1"	120310*	120380	2"
3/8"	120254	120274	1"	120294*	120597	2"
7/16"	120255	120275	1"	120299	120598	2"
1/2"	-	120779	1"	-	121218	1.75"
9/16"	-	120763	1"	-	120785	1.75"
3.5mm	-	120900	22.2mm	-	-	-
4mm	120333	121179	22.2mm	-	-	-
4.5mm	-	120955	22.2mm	-	-	-
5mm	120864	121180	22.2mm	-	-	-
5.5mm	120888	120956	22.2mm	-	-	-
6mm	120495	121181	22.2mm	-	-	-
7mm	120497	120499	22.2mm	-	121187	44.4mm
8mm	120931	120957	22.2mm	-	121082	44.4mm
9mm	120958	120959	22.2mm	-	120961	44.4mm
10mm	120498	120960	22.2mm	-	121084	44.4mm

*1 3/4" Overall Length

**1" Overall Length

ADAPTERS & SOCKETS



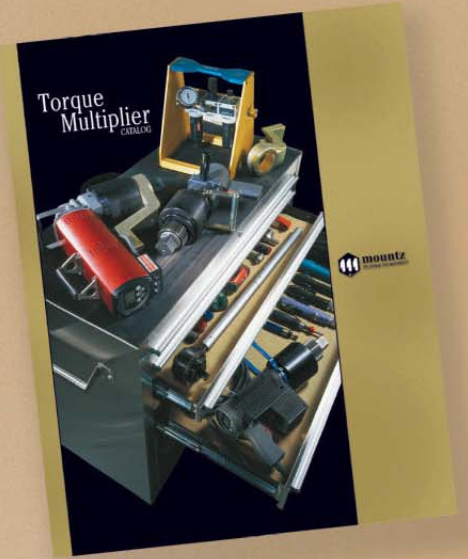
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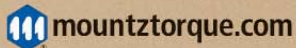
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