

Torque Application Tools

For Assembly, Auditing, and Maintenance

The focus on quality for manufactured products over the last 20 years has been nothing short of extraordinary. One of the areas receiving significant attention has been on assemblies that require threaded fasteners.

There are numerous ways a product can be assembled but if the need exists to disassemble the product, the use of threaded fasteners remains the most cost effective and popular method of assembly. To ensure the integrity of an assembly using threaded fasteners, the proper application of torque is the method of choice.

In this section you will find the broadest array of torque application tools available worldwide. The basic categories consist of preset tools for repetitive assembly operations, micrometer adjustable tools for assembly and maintenance and direct reading tools for assembly, maintenance and auditing.

If you are not sure of the tools you need after reviewing the following section, please visit our website at www.srtorque.com and go to the Torque Application Selection Chart or call us at 1-800-877-1347 or 847/455-8677.



Torque Application Tools

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MD Series Features

- Oversized single scale dial face is extremely easy to read and helps to eliminate parallax error.
- Heavy duty dial guard protects against breakage.
- Memory indicator is provided on each wrench and remains at the maximum torque achieved for positive verification.
- Each wrench comes in its own custom storage box.
- Wrench can be used in both the left and right hand direction.
- Accuracy of +/- 3% Indicated Value (from 20% to 100% of capacity) meets or exceeds ASME B107.14M and ISO 6789.
- A neoprene rubber grip is provided for comfort and to insure proper hand placement for maximum accuracy; not available on 3/4" and 1" sq. dr. models.
- Dial faces are color coded: silver for inch pounds, gold for foot pounds and white for Newton metres.
- Extension handle included on 600 ft.-lb/800Nm and greater capacity models for ergonomic advantage.
- Includes FREE NIST-traceable tabulated certification!

Dial MD Series



Memory Dial Series – English

Part Number	Model	Torque Capacity	Steps of Graduation	Square Drive	Overall Length	Weight (lbs.)
850719	MD 50I	50 in. lbs.	1 in. lb.	¼ in.	10.3 in.	1.2
850701	MD 150I	150 in. lbs.	2 in. lbs.	⅜ in.	10.3 in.	1.2
850702	MD 300I	300 in. lbs.	5 in. lbs.	⅜ in.	10.3 in.	1.2
850703	MD 600I	600 in. lbs.	10 in. lbs.	⅜ in.	12.3 in.	1.4
850704	MD 150	150 ft. lbs.	2 ft. lbs.	½ in.	20.9 in.	2.8
850705	MD 250	250 ft. lbs.	5 ft. lbs.	½ in.	20.9 in.	2.8
850706	MD 600*	600 ft. lbs.	10 ft. lbs.	¾ in.	46.5 in.	7.5
850722	MD 1000*	1000 ft. lbs.	20 ft. lbs.	1 in.	71.5 in.	17.0

Memory Dial Series – Newton Metre

Part Number	Model	Torque Capacity	Steps of Graduation	Square Drive	Overall Length	Weight (lbs.)
850720	MD 6 Nm	6 Nm	.1 Nm	¼ in.	10.3 in.	1.2
850707	MD 15 Nm	15 Nm	.25 Nm	⅜ in.	10.3 in.	1.2
850708	MD 35 Nm	35 Nm	.5 Nm	⅜ in.	10.3 in.	1.2
850709	MD 70 Nm	70 Nm	1 Nm	⅜ in.	12.3 in.	1.4
850710	MD 200 Nm	200 Nm	2.5 Nm	½ in.	20.9 in.	2.8
850711	MD 350 Nm	350 Nm	5 Nm	½ in.	20.9 in.	2.8
850712	MD 800 Nm*	800 Nm	10 Nm	¾ in.	46.5 in.	7.5
850723	MD 1300 Nm*	1300 Nm	25 Nm	1 in.	71.5 in.	17.0

*Includes extension handle.



FREE Custom Storage Case Included



Flat Beam

M Series



Flat Beams Are Superior

The four most important requirements of a torque wrench, accuracy, reliability, durability, and low ownership cost, are combined into these exceptional tools. Accuracy is literally ground into the wrench. The special alloy steel beam is ground to a rate of deflection with the use of dead weights, rather than a dimensional tolerance. This process is time consuming and very labor intensive, but the result is a tool that remains accurate as long as the beam is intact and the pointer is on zero under no-load condition. The flat shape of the beam insures the wrench remains at a right angle to the fastener, reducing or eliminating side-loading error. This unique taper-grinding distributes stress evenly along the entire length of the beam, extending tool life indefinitely. With a minimum of moving parts, these tools are virtually repair and maintenance free.

M Series Features

- Incredibly durable design - actual service life frequently measured in decades!
- Very low cost of ownership - exceptional accuracy retention permits extended calibration intervals, and they are virtually maintenance and repair free!
- Ideal for prevailing-torque and destructive testing applications.
- Low mass/low inertia design of pointers helps eliminate reading distortion.
- Memory feature consists of fingers which follow a track in the scale and remain in place to indicate maximum torque achieved.
- Peak torque indicated on scale is accurate, even on destructive testing applications.
- Pivoted handle concentrates load at precise point on lever to assure torque accuracy.
- Meets or exceeds ASME B107.14M and ISO 6789.
- Accuracy of all flat beams is +/- 2% of indicated value from 20% to 100% of capacity, in both directions.
- Includes FREE ISO/IEC 17025 tabulated certification!

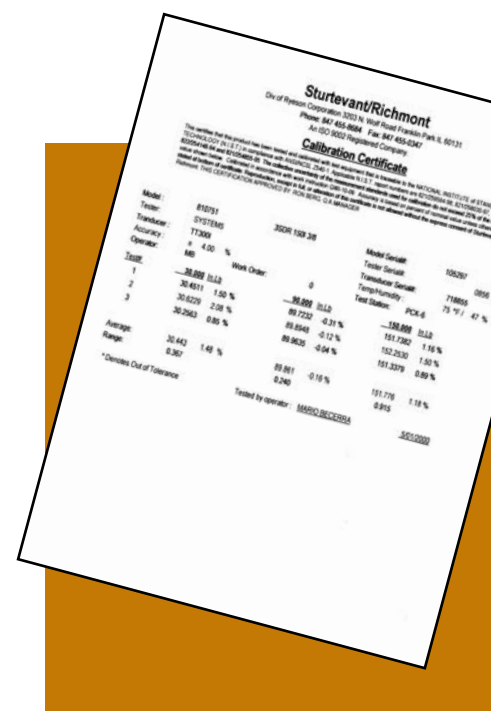
Crowfoot Adapter

- Gain the significant advantage of our interchangeable head system by attaching the SRA to any fixed square drive wrench.
- Ideal for use when a direct reading torque wrench is required but space is limited.
- Use of an adapter requires calculation of torque output.
- When used with our 1 7/16" Interchangeable Heads the adapter length will be 3".



Flat Beam Memory Series - English

Part Number	Model	Torque Capacity	Steps of Graduations	Square Drive	Lever Arm Distance	Weight (lbs.)
●850233	M 32 IO	0-32 in. ozs.	2 in. ozs.	¼ in.	6.0 in.	0.2
●850254	M 80 IO	0-80 in. ozs.	5 in. ozs.	¼ in.	6.2 in.	0.25
●850202	M 160 IO	0-160 in. ozs.	10 in. ozs.	¼ in.	6.0 in.	0.25
●850188	M 10 I	0-10 in. lbs.	½ in. lb.	¼ in.	6.0 in.	0.25
●850222	M 25 I	0-25 in. lbs.	1 in. lb.	¾ in.	6.3 in.	0.4
●850242	M 50 I	0-50 in. lbs.	2 in. lbs.	¾ in.	6.0 in.	0.4
●850191	M 100 I	0-100 in. lbs.	5 in. lbs.	¾ in.	6.5 in.	0.4
●850211	M 200 I	0-200 in. lbs.	10 in. lbs.	¾ in.	9.0 in.	0.5
■850228	M 300 I	0-300 in. lbs.	10 in. lbs.	¾ in.	13.5 in.	2.75
■850246	M 600 I	0-600 in. lbs.	25 in. lbs.	¾ in.	13.5 in.	2.75
■850247	M 600 I	0-600 in. lbs.	25 in. lbs.	½ in.	13.5 in.	2.75
■850195	M 1200 I	0-1200 in. lbs.	50 in. lbs.	½ in.	15.0 in.	2.75
■850205	M 1800 I	0-1800 in. lbs.	50 in. lbs.	½ in.	18.0 in.	3.75
■850220	M 25	0-25 ft. lbs.	1 ft. lb.	¾ in.	13.5 in.	2.75
■850240	M 50	0-50 ft. lbs.	2 ft. lbs.	¾ in.	13.5 in.	2.75
■850241	M 50	0-50 ft. lbs.	2 ft. lbs.	½ in.	13.5 in.	2.75
■850190	M 100	0-100 ft. lbs.	5 ft. lbs.	½ in.	15.0 in.	2.75
■850198	M 150	0-150 ft. lbs.	5 ft. lbs.	½ in.	18.0 in.	3.75
■850227	M 300	0-300 ft. lbs.	10 ft. lbs.	¾ in.	30.0 in.	10.75



Flat Beam Memory Series - Newton Metre

Part Number	Model	Torque Capacity	Steps of Graduations	Square Drive	Lever Arm Distance	Weight (lbs.)
●855276	M 110 cNm	0-110 cNm	5 cNm	¼ in.	6.0 in.	0.25
●855280	M 1 Nm	0-1 Nm	.05 Nm	¼ in.	6.0 in.	0.25
●855281	M 2.5 Nm	0-2.5 Nm	.1 Nm	¾ in.	6.3 in.	0.34
●855282	M 5 Nm	0-5 Nm	.2 Nm	¾ in.	6.0 in.	0.34
●855283	M 12 Nm	0-12 Nm	.5 Nm	¾ in.	6.3 in.	0.38
●855284	M 22 Nm	0-22 Nm	1 Nm	¾ in.	9.0 in.	0.50
■855285	M 34 Nm	0-34 Nm	1 Nm	¾ in.	13.5 in.	2.75
■855287	M 70 Nm	0-70 Nm	2 Nm	¾ in.	13.5 in.	2.75
■855288	M 70 Nm	0-70 Nm	2 Nm	½ in.	13.5 in.	2.75
■855289	M 140 Nm	0-140 Nm	5 Nm	½ in.	15.0 in.	2.75
■855290	M 210 Nm	0-210 Nm	10 Nm	½ in.	18.0 in.	3.75
■855292	M 410 Nm	0-410 Nm	10 Nm	¾ in.	30.0 in.	10.75

● Pivoted Ball Handle



■ Pivoted Handle

Crowfoot Adapter

Part Number	Model	Description
850653	SRA-¾	¾ Female-Male Dovetail
850655	SRA-½	½ Female-Male Dovetail





Micrometer Adjustable

Fixed Ratchet SDR Series



SDR Series Features

- Wrench is adjustable to torque value by rotating grip.
- Simple thumbscrew mechanism locks handle to avoid changing torque value while in use.
- Fast adjustment—takes the fewest rotations of any tool to reach full scale!
- Ball bearing rockover assembly assures smooth operation, enhances repeatability and increases the cycle life of the wrench.
- At preset torque value a strong audible and tactile impulse is emitted.
- Neoprene rubber grip for cushioning and oil/chemical resistance.
- Includes custom molded plastic case (250 ft. lbs./300 Nm and below).
- Aluminum increment band is color coded: black for inch lbs.; gold for foot lbs.; blue for Newton metre.
- Ratchet design is very strong and durable.
- Accuracy of +/- 4% Indicated Value (from 20% to 100% of capacity) meets or exceeds ASME B107.14M, ISO 6789, and AS 28431.
- Includes FREE ISO/IEC 17025 tabulated certification!

SDR Fixed Ratchet Head Series - English

Part Number	Model	Torque Capacity	Steps of Graduations	Square Drive	Overall Length
810749	2 SDR 50I	10-50 in. lbs.	1 in. lb.	¼ in.	10.1
810750	2 SDR 150I	30-150 in. lbs.	2 in. lbs.	¼ in.	10.1
810751	3 SDR 150I	30-150 in. lbs.	2 in. lbs.	⅜ in.	10.6
810761	3 SDR 200I	40-200 in. lbs.	2 in. lbs.	⅜ in.	10.7
810748	3 SDR 600I	100-600 in. lbs.	5 in. lbs.	⅜ in.	14.0
810752	3 SDR 750I	150-750 in. lbs.	5 in. lbs.	⅜ in.	14.0
810756	3 SDR 75	15-75 ft. lbs.	½ ft. lb.	⅜ in.	14.0
810747	3 SDR 1200I	200-1200 in. lbs.	10 in. lbs.	⅜ in.	17.6
810754	3 SDR 100	20-100 ft. lbs.	1 ft. lb.	⅜ in.	17.6
810755	4 SDR 1800I	300-1800 in. lbs.	10 in. lbs.	½ in.	18.3
810757	4 SDR 150	30-150 ft. lbs.	1 ft. lb.	½ in.	18.3
810758	4 SDR 250	50-250 ft. lbs.	2 ft. lbs.	½ in.	24.3
810760	6 SDR 300	50-300 ft. lbs.	2½ ft. lbs.	⅜ in.	29.0
810597	6 SDR 600*	100-600 ft. lbs.	5 ft. lbs.	⅜ in.	39.2
810525	6 SDR 700**	100-700 ft. lbs.	5 ft. lbs.	⅜ in.	39.2

SDR Fixed Ratchet Head Series - Newton Metre

Part Number	Model	Torque Capacity	Steps of Graduations	Square Drive	Weight (lbs.)
810774	2 SDR 6 Nm	1-6 Nm	.1 Nm	¼ in.	10.1
810775	2 SDR 20 Nm	4-20 Nm	.2 Nm	¼ in.	10.1
810776	3 SDR 20 Nm	4-20 Nm	.2 Nm	⅜ in.	10.6
810782	3 SDR 50 Nm	10-50 Nm	.5 Nm	⅜ in.	14.6
810777	3 SDR 100 Nm	20-100 Nm	.5 Nm	⅜ in.	14.6
810797	4 SDR 100 Nm	20-100 Nm	.5 Nm	½ in.	14.6
810798	4 SDR 140 Nm	28-140 Nm	1 Nm	½ in.	17.9
810783	3 SDR 140 Nm	28-140 Nm	1 Nm	⅜ in.	17.9
810778	4 SDR 200 Nm	40-200 Nm	1 Nm	½ in.	18.5
810779	4 SDR 300 Nm	60-300 Nm	2 Nm	½ in.	24.3
810789	6 SDR 300 Nm	60-300 Nm	2 Nm	⅜ in.	24.3
810598	6 SDR 800 Nm*	160-800 Nm	5 Nm	⅜ in.	39.2

* Optional extension tube, Part # 853363, can be ordered. Use of the extension requires recalibration of wrench.

** Includes extension tube.

SD Series Features

- Wrench is adjustable to torque value by rotating grip.
- Simple thumbscrew mechanism locks handle to avoid changing torque value while in use.
- Fast adjustment—takes the fewest rotations of any tool to reach full scale!
- Ball bearing rockover assembly assures smooth operation, enhances repeatability and increases the cycle life of the wrench.
- When preset torque value is reached a strong audible and tactile impulse is emitted.
- Neoprene rubber grip for cushioning and oil/chemical resistance.
- Includes custom molded plastic case (250 ft. lbs. and below).
- Aluminum increment band is color coded: black for inch lbs.; gold for foot lbs.; blue for Newton metre.
- Accuracy of +/- 4% Indicated Value (from 20% to 100% of capacity) meets or exceeds ASME B107.14M, ISO 6789, and AS 28431.
- Includes FREE ISO/IEC 17025 tabulated certification!

SD Fixed Male Square Drive Head Series - English

Part Number	Torque Model	Steps of Capacity	Graduations	Square Drive	Overall Length
810160	2 SD 50l	10-50 in. lbs	1 in. lb.	¼ in.	9.4
810161	2 SD 150l	30-150 in. lbs	2 in. lb.	¼ in.	9.4
810159	3 SD 200l	40-200 in. lbs	2 in. lb.	⅜ in.	9.4
810163	3 SD 750l	150-750 in. lbs	5 in. lb.	⅜ in.	13.6
810167	4 SD 150	30-150 ft. lbs	1 ft. lb.	½ in.	17.0
810600	6 SD 600*	100-600 ft. lbs	5 ft. lb.	¾ in.	36.4

SD Fixed Male Square Drive Head Series - Newton Metre

Part Number	Torque Model	Steps of Capacity	Graduations	Square Drive	Overall Length
810601	6 SD 800 Nm*	160-800 Nm	5 Nm	¾ in.	36.4

* Optional extension tube, Part # 853363, can be ordered. Use of the extension requires recalibration of wrench.

Carry and Storage Cases

Strong, durable cases for carrying and storing your S/R brand micrometer adjustable torque wrenches. Fits SDR, SD, and CCM series tools.

Part Number	Size	Type	Wrench Range
820122	Small	Molded Plastic	50l-200l, 6 Nm-20 Nm
820123	Medium	Molded Plastic	600l-150 ft. lbs., 50 Nm-200 Nm
820124	Large	Molded Plastic	250 ft. lbs., 300 Nm
820127	Extra Large	Metal	600-700 ft. lbs., 800 Nm



Each wrench includes molded plastic case.
(250 ft. lbs./300 Nm and below)



Micrometer Adjustable

Fixed Square Drive
SD Series





Preset

Fixed Ratchet LTCR Series

LTCR Series Features

- Designed specifically for use on production lines where many fasteners are to be tightened to the same torque.
- For handle extension, order Extension Adapter PN 853538 and custom length extension. Details on website.
- Light weight new comfort grip provides superior ergonomics, reducing operator fatigue.
- Accuracy of +/- 4% meets or exceeds ASME B107.14M and ISO 6789, offering consistent assembly quality.
- Wrench can be calibrated using any unit of torque measure.
- Ball bearing rockover assembly assures smooth operation, enhances repeatability, increases cycle life of wrench, and helps control ownership costs.
- Excellent audible and tactile impulse when preset torque is achieved.
- Slide pin ratchet is extremely strong and durable.
- Torque tester must be used to set torque value.

LTCR Fixed Ratchet Head Series

Part Number	Model	Torque Capacity*	Square Drive	Weight (lbs.) Length (in.)
810400	LTCR 50I	50 in. lbs./6 Nm/ 58 kgf•cm	¼ in.	0.5 7.3
810401	LTCR 150I	150 in. lbs./17 Nm/ 173 kgf•cm	¼ in.	0.5 7.3
810589	LTCR 150I	150 in. lbs./17 Nm/ 173 kgf•cm	⅜ in.	0.5 7.9
810058	LTCR 300I	300 in. lbs./34 Nm/ 346 kgf•cm	⅜ in.	1.0 10.4
810055	LTCR 750I	750 in. lbs./85 Nm/ 864 kgf•cm	⅜ in.	1.25 14.8
810060	LTCR 750I	750 in. lbs./85 Nm/ 864 kgf•cm	½ in.	1.25 14.8
810402	LTCR 1200I	1200 in. lbs./100 ft. lbs./ 136 Nm/14 kgf•m	⅜ in.	1.5 17.6
810056	LTCR 1800I	1800 in. lbs./150 ft. lbs./ 204 Nm/21 kgf•m	½ in.	1.75 18.3
810059	LTCR 3000I	3000 in. lbs./250 ft. lbs./ 339 Nm/35 kgf•m	½ in.	3.0 22.9
810138	LTCR 3600I	3600 in. lbs./300 ft. lbs./ 407 Nm/41 kgf•m	¾ in.	7.75 27.4
810151	LTCR 7200I**	7200 in. lbs./600 ft. lbs./ 813 Nm/83 kgf•m	¾ in.	10.0 37.4

* Minimum capacities of preset tools can be calculated at 20% of full capacities.

** Optional extension tube, Part # 853363, can be ordered. Use of the extension requires recalibration of wrench.



Combination adjusting and release tool (CART 819117) allows operator to easily adjust the torque on all S/R preset wrenches.

LTCS Series Features

- Designed specifically for use on production lines where many fasteners are to be tightened to the same torque.
- For handle extension, order Extension Adapter P/N 853538 and custom length extension. Details on website.
- Light weight new comfort grip provides superior ergonomics, reducing operator fatigue.
- Accuracy of +/- 4% meets or exceeds ASME B107.14M and ISO 6789, offering consistent assembly quality.
- Wrench can be calibrated using any unit of torque measure.
- Ball bearing rockover assembly assures smooth operation, enhances repeatability, increases cycle life of wrench, and helps control ownership costs.
- Excellent audible and tactile impulse when preset torque is achieved.
- Can be ordered preset from the factory or torque tester can be used to set torque value.
- Adjustments to torque settings can only be made with a Combination Adjusting and Release Tool (CART) to prevent tampering on the production line.

LTCS Fixed Male Square Drive Head Series

Part Number	Model	Torque Capacity*	Square Drive	Weight (lbs.) Length (in.)
810168	LTCS 50I	50 in. lbs./6 Nm/ 58 kgf•cm	¼ in.	0.5 6.8
810170	LTCS 150I	150 in. lbs./17 Nm/ 173 kgf•cm	⅜ in.	0.5 6.8
810171	LTCS 300I	300 in. lbs./34 Nm/ 346 kgf•cm	⅝ in.	1 9.4
810172	LTCS 750I	750 in. lbs./85 Nm/ 864 kgf•cm	¾ in.	1.25 13.3
810174	LTCS 1800I	1800 in. lbs./150 ft. lbs. 204 Nm/21 kgf•m	½ in.	1.5 16.9
810485	LTCS 3600I	3600 in. lbs./300 ft. lbs./ 407 Nm/41 kgf•m	¾ in.	5.5 25.1
810153	LTCS 7200I**	7200 in. lbs./600 ft. lbs./ 813 Nm/83 kgf•m	¾ in.	8.25 35.1

* Minimum capacities of preset tools can be calculated at 20% of full capacities.

** Optional extension tube, Part # 853363, can be ordered. Use of the extension requires recalibration of wrench.



Improved!
Combination adjusting and release tool (CART 819117) allows operator to easily adjust torque on all SLTC, SLTC-FM, LTC, LTCR and LTCS wrenches.



Preset Fixed Square Drive LTCS Series





Interchangeable Head Micrometer Adjustable CCM Series

CCM Series Features

- Incredible Versatility! Accepts over 100 interchangeable heads, as well as custom heads and extensions, and offers micrometer torque adjustment!
- The +/- 4% Indicated Value Accuracy meets or exceeds ASME B107.14M, AS 28431 and ISO 6789.
- Fast adjustment—takes the fewest rotations of any tool to reach full scale!
- Comes with FREE ISO/IEC 17025 calibration certificate!
- Neoprene rubber grip offers oil and chemical resistance, as well as cushioning and firm grip for excellent ergonomics!
- Excellent audible and tactile impulse when set torque achieved.
- Unique dovetail design transmits the load at right angle from the wrench to the head; exceptional strength and rigidity of connection.
- The pin lock assures positive head connection, yet permits head changeover in seconds!
- Bi-directional versatility obtained by simply removing head, turning wrench over, and replacing head.
- Aluminum increment band is color-coded: black for inch-pounds, gold for foot-pounds, and blue for Nm.

CCM Dovetail Head Series — English

Part Number	Model	Torque Capacity	Steps of Graduations	Overall Length
810769	CCM 50I	10-50 in. lbs.	1 in. lb.	9.0
810765	CCM 150I	30-150 in. lbs.	2 in. lbs.	9.0
810763	CCM 600I	100-600 in. lbs.	5 in. lbs.	12.8
810766	CCM 750I	150-750 in. lbs.	5 in. lbs.	12.8
810770	CCM 75	15-75 ft. lbs.	½ ft. lb.	12.8
810764	CCM 1200I	200-1200 in. lbs.	10 in. lbs.	16.3
810762	CCM 1800I	300-1800 in. lbs.	10 in. lbs.	16.3
810771	CCM 150	30-150 ft. lbs.	1 ft. lb.	16.3
810335	CCM 300†	50-300 ft. lbs.	2½ ft. lbs.	26.0
810772	CCM 400†	50-400 ft. lbs.	5 ft. lbs.	36.0

CCM Dovetail Head Series — Newton Metre

Part Number	Model	Torque Capacity	Steps of Graduations	Overall Length
810784	CCM 6 Nm	1-6 Nm	.1 Nm	9.0
810785	CCM 20 Nm	4-20 Nm	.2 Nm	9.0
810786	CCM 100 Nm	20-100 Nm	.5 Nm	12.8
810787	CCM 200 Nm	40-200 Nm	1 Nm	16.3
810788	CCM 400 Nm†	75-400 Nm	2.5 Nm	26.0
810794	CCM 600 Nm†	100-600 Nm	5 Nm	36.0

† Wrenches calibrated for use with heads having 3/8" common centerline.
On request wrenches can be calibrated for 1/8" centerline.

Includes FREE
certification from our ISO/IEC
17025 Accredited calibration
laboratory!



LTC Series Features

- The LTC-Series is superb for use on the assembly line AND in field maintenance kits!
- The +/- 4% Accuracy meets or exceeds ASME B107.14M and ISO 6789, and provides the quality your customers demand!
- The pin lock assures positive head connection, yet permits head changeover in seconds!
- Bi-directional versatility obtained by simply removing head, turning wrench over, and replacing head.
- Extremely versatile system permits use of fewer wrenches by connecting to over 100 standard interchangeable heads, plus extensions, adapters, and your own custom heads!
- Excellent audible and tactile impulse when set torque achieved.
- Unique dovetail design transmits the load at right angle from the wrench to the head; exceptional strength and rigidity of connection.
- Light weight new comfort grip provides superior ergonomics, reducing operator fatigue.
- For handle extension, order Extension Adapter P/N 853538 and custom length extension. Details on website.



Over 100
interchangeable heads to
choose from without changing torque values.
Simply slide the heads on and "lock on quality".

LTC Dovetail Head Series

Part Number	Model	Torque Capacity*	Weight (lbs.)	Overall Length (in.)
810100	LTC 50I	50 in. lbs./6 Nm/ 58 kgf•cm	0.5	6.9
810011	LTC 150I	150 in. lbs./17 Nm/ 173 kgf•cm	0.5	6.9
810574	LTC OHT**	300 in. lbs./34 Nm/ 346 kgf•cm	0.5	6.9
810016	LTC 300I	300 in. lbs./34 Nm/ 346 kgf•cm	0.75	8.8
810013	LTC 750I	750 in. lbs./85 Nm/ 864 kgf•cm	1.0	12.6
810014	LTC 1800I	1800 in. lbs./150 ft. lbs./ 204 Nm/21 kgf•m	1.25	15.9
810334	LTC 3600I	3600 in. lbs./300 ft. lbs./ 407 Nm/41 kgf•m	5.5	24.3
810137	LTC 4800I	4800 in. lbs./400 ft. lbs./ 542 Nm/55 kgf•m	8.25	34.3

* Minimum capacities of preset tools can be calculated at 20% of full capacities.

** For this tool only, minimum capacity is 50% of maximum capacity.

Interchangeable Head Preset LTC Series





Interchangeable Heads

Why Our Interchangeable Head System is the World's Best

Virtually all interchangeable heads on these pages are made as a single piece from alloy steel. This construction method provides strength and durability rarely attained by the more common cut and weld method. In addition, to achieve constant torque values when changing heads, exact lever length must be maintained. S/R heads share a precise distance from end of wrench to center of fastener. This is referred to as a Common Centerline and is very difficult to maintain when using the welded construction method.

The unique dovetail design used to join head and wrench provides exceptionally strong connection and allows complete interchange-ability. Competing manufacturers find it necessary to increase the size of the mating connection at higher torque values, creating duplication of wrenches and heads while losing interchangeability.



SQUARE DRIVE (SD)

SQUARE DRIVE (SD)

1 1/8" Common Centerline

SQUARE DRIVE

Part Number	Model	Drive Size	Max. Torque (in. lbs.)
819057	SD-1/4	1/4"	250
819058	SD-3/8	3/8"	1250
819059	SD-1/2	1/2"	2500
819119	SD-3/4*	3/4"	4800

* 3/8" Common Centerline

SQUARE DRIVE RATCHET (SDRT)

1 1/8" Common Centerline

RATCHET SQ. DR.

Part Number	Model	Drive Size	Max. Torque (in. lbs.)
809504	SDRT-1/4	1/4"	250
809505	SDRT-3/8	3/8"	1250
809506	SDRT-1/2	1/2"	2500
809507	SDRT-3/4*	3/4"	4800

* 3/8" Common Centerline



SQUARE DRIVE RATCHET (SDRT)

RATCHET RENEWAL KITS for ratcheting wrenches and SDRT Heads

1/4"	Ratchet Renewal Kit P/N 816998
3/8"	Ratchet Renewal Kit P/N 816958
1/2"	Ratchet Renewal Kit P/N 816956
3/4"	Ratchet Renewal Kit P/N 816999

OPEN END (OE)

1 1/8" Common Centerline

OPEN END - ENGLISH

Part Number	Model	Hex Size	Max. Torque (in. lbs.)
819000	OE-1/4	1/4"	100
819001	OE-5/16	5/16"	150
819002	OE-3/8	3/8"	200
819003	OE-7/16	7/16"	300
819004	OE-1/2	1/2"	350
819005	OE-9/16	9/16"	400
819006	OE-5/8	5/8"	600
819007	OE-11/16	11/16"	800
819008	OE-3/4	3/4"	1000
819009	OE-13/16	13/16"	1250
819010	OE-7/8	7/8"	1500
819011	OE-15/16	15/16"	1750
819012	OE-1	1"	2000
819013	OE-1 1/16	1 1/16"	2250
819014	OE-1 1/8	1 1/8"	2500
819015	OE-1 3/8	1 3/8"	2750
819016	OE-1 1/4	1 1/4"	3000

OPEN END - METRIC

Part Number	Model	Hex Size	Max. Torque (Nm)
809294	OE-5mm	5mm	8
809290	OE-6mm	6mm	9
809291	OE-7mm	7mm	11
809292	OE-8mm	8mm	16
809293	OE-9mm	9mm	22
819943	OE-10mm	10mm	22
819944	OE-11mm	11mm	34
809226	OE-12mm	12mm	39
819945	OE-13mm	13mm	39
819946	OE-14mm	14mm	45
809227	OE-15mm	15mm	67
819947	OE-16mm	16mm	67
819948	OE-17mm	17mm	90
809228	OE-18mm	18mm	90
819949	OE-19mm	19mm	113
819950	OE-21mm	21mm	141
819951	OE-22mm	22mm	169
819952	OE-24mm	24mm	197
809229	OE-27mm	27mm	254
819956	OE-30mm	30mm	310
853043	OE-31mm	31mm	328
819958	OE-32mm	32mm	338



OPEN END (OE)

See website for
head dimensions.

FLARE NUT (FN)

1 1/8" Common Centerline

FLARE NUT - ENGLISH			
Part Number	Model	Hex Size	Max.Torque (in. lbs.)
819025	FN-1/4	1/4"	100
819026	FN-3/16	3/16"	150
819027	FN-3/8	3/8"	200
819028	FN-7/16	7/16"	250
819029	FN-1/2	1/2"	300
819030	FN-9/16	9/16"	350
819031	FN-5/8	5/8"	400
819032	FN-11/16	11/16"	475
819033	FN-3/4	3/4"	600
819034	FN-13/16	13/16"	700
819035	FN-7/8	7/8"	800
819036	FN-15/16	15/16"	900
819037	FN-1	1"	1000
819038	FN-1 1/16	1 1/16"	1050
819039	FN-1 1/8	1 1/8"	1100
819040	FN-1 3/8	1 3/8"	1150
819041	FN-1 1/4	1 1/4"	1200

FLARE NUT - METRIC			
Part Number	Model	Hex Size	Max.Torque (Nm)
809243	FN-8mm	8mm	16
809217	FN-9mm	9mm	19
809218	FN-10mm	10mm	22
809221	FN-11mm	11mm	28
809241	FN-12mm	12mm	30
809000	FN-12mm*	12mm	30
809219	FN-13mm	13mm	33
809220	FN-14mm	14mm	40
809001	FN-14mm*	14mm	40
809222	FN-15mm	15mm	45
809238	FN-16mm	16mm	50
809223	FN-17mm	17mm	54
809239	FN-18mm	18mm	61
809224	FN-19mm	19mm	68
809240	FN-21mm	21mm	80
809242	FN-22mm	22mm	90
809225	FN-24mm	24mm	105
809244	FN-27mm	27mm	118

* 6 pt hex



FLARE NUT (FN)

BOX HEAD (BH)

1 1/8" Common Centerline

BOX HEAD - ENGLISH			
Part Number	Model	Hex Size	Max.Torque (in. lbs.)
819060	BH-1/4	1/4"	250
819061	BH-3/16	3/16"	350
819062	BH-3/8	3/8"	450
819063	BH-7/16	7/16"	650
819064	BH-1/2	1/2"	850
819065	BH-9/16	9/16"	1050
819066	BH-5/8	5/8"	1250
819067	BH-11/16	11/16"	1450
819068	BH-3/4	3/4"	1800
819069	BH-13/16	13/16"	2100
819070	BH-7/8	7/8"	2400
819071	BH-15/16	15/16"	2700
819072	BH-1	1"	3000
819073	BH-1 1/16	1 1/16"	3150
819074	BH-1 1/8	1 1/8"	3300
819085	BH-1 3/8	1 3/8"	3450
819075	BH-1 1/4	1 1/4"	3600

BOX HEAD - METRIC			
Part Number	Model	Hex Size	Max.Torque (Nm)
809301	BH-7mm	7mm	28
809302	BH-8mm	8mm	39
809303	BH-9mm	9mm	50
809230	BH-10mm	10mm	50
809231	BH-11mm	11mm	73
809304	BH-12mm	12mm	96
809232	BH-13mm	13mm	96
809233	BH-14mm	14mm	119
809234	BH-15mm	15mm	141
809305	BH-16mm	16mm	141
809235	BH-17mm	17mm	163
809306	BH-18mm	18mm	163
809236	BH-19mm	19mm	203
809307	BH-21mm	21mm	237
809308	BH-22mm	22mm	271
809237	BH-24mm	24mm	305
809352	BH-27mm	27mm	355



BOX HEAD (BH)

HEX DRIVE (HD)

1 1/8" Common Centerline

HEX DRIVE - ENGLISH			
Part Number	Model	Hex Size	Max.Torque (in. lbs.)
853030	HD-5/64	5/64"	20
819687	HD-3/32	3/32"	30
853031	HD-7/64	7/64"	40
819689	HD-1/8	1/8"	70
853032	HD-9/64	9/64"	70
819691	HD-5/32	5/32"	135
819692	HD-3/16	3/16"	235
819693	HD-7/32	7/32"	340
819694	HD-1/4	1/4"	450
819695	HD-5/16	5/16"	850
819696	HD-3/8	3/8"	850
819697	HD-7/16	7/16"	1450
819699	HD-9/16	9/16"	1450
819700	HD-5/8	5/8"	2100
819701	HD-3/4	3/4"	2400
819702	HD-7/8	7/8"	2700

HEX DRIVE - METRIC			
Part Number	Model	Hex Size	Max.Torque (Nm)
809315	HD-4mm	4mm	15
809316	HD-5mm	5mm	27
809317	HD-6mm	6mm	38
809328	HD-8mm	8mm	96
809330	HD-10mm	10mm	141
809332	HD-12mm	12mm	164
809334	HD-14mm	14mm	164
809339	HD-19mm	19mm	270

See website for head dimensions.



HEX DRIVE (HD)



Interchangeable Heads



RATCHETING OPEN END (ROE)



RATCHETING FLARE NUT (RFN)



RATCHETING TUBE WRENCH (RTW)

RATCHETING OPEN END (ROE)

1 $\frac{1}{8}$ " Common Centerline

Slight disengagement from the fastener allows operator to rapidly rotate wrench.

RATCHETING OPEN END - ENGLISH

Part Number	Model	Hex Size	Max.Torque (in. lbs.)
819200	ROE- $\frac{1}{4}$ "	$\frac{1}{4}$ "	60
819202	ROE- $\frac{3}{8}$ "	$\frac{3}{8}$ "	120
819203	ROE- $\frac{7}{16}$ "	$\frac{7}{16}$ "	180
819204	ROE- $\frac{1}{2}$ "	$\frac{1}{2}$ "	210
819205	ROE- $\frac{9}{16}$ "	$\frac{9}{16}$ "	240
819206	ROE- $\frac{5}{8}$ "	$\frac{5}{8}$ "	360
819208	ROE- $\frac{3}{4}$ "	$\frac{3}{4}$ "	600
819209	ROE- $1\frac{1}{16}$ "	$1\frac{1}{16}$ "	750
819210	ROE- $\frac{7}{8}$ "	$\frac{7}{8}$ "	900
819211	ROE- $1\frac{1}{8}$ "	$1\frac{1}{8}$ "	1050
819212	ROE-1"	1"	1200
819213	ROE- $1\frac{1}{2}$ "	$1\frac{1}{2}$ "	1350
819214	ROE- $1\frac{1}{2}$ "	$1\frac{1}{2}$ "	1500
819215	ROE- $1\frac{3}{8}$ "	$1\frac{3}{8}$ "	1650

RATCHETING OPEN END - METRIC

Part Number	Model	Hex Size	Max.Torque (Nm)
819217	ROE-7mm	7 mm	7
819218	ROE-8mm	8 mm	10
819219	ROE-9mm	9 mm	13
819220	ROE-10mm	10 mm	13
819221	ROE-11mm	11 mm	20
819222	ROE-12mm	12 mm	23
819223	ROE-13mm	13 mm	23
819224	ROE-14mm	14 mm	27
819225	ROE-15mm	15 mm	40
819226	ROE-16mm	16 mm	40
819227	ROE-17mm	17 mm	54
819228	ROE-18mm	18 mm	54
819229	ROE-19mm	19 mm	68
819231	ROE-22mm	22 mm	101
819232	ROE-24mm	24 mm	118
819233	ROE-27mm	27 mm	152
819238	ROE-32mm	32 mm	203

RATCHETING FLARE NUT (RFN)

1 $\frac{1}{8}$ " Common Centerline

Single-direction ratchet for use with hydraulic or pneumatic fittings.

Part Number	Model	Hex Size	Max.Torque (Nm)
819086	RFN-10mm	10 mm	25
819087	RFN-11mm	11 mm	25

RATCHETING TUBE WRENCH (RTW)

RTW snaps open to fit around hydraulic, AC lines, etc. When jaws close, wrench ratchets.

RATCHETING TUBE WRENCH - ENGLISH

Part Number	Model	Hex Size	Max.Torque (in. lbs.)
853151	RTW- $\frac{3}{8}$ "	$\frac{3}{8}$ "	225
853152	RTW- $\frac{7}{16}$ "	$\frac{7}{16}$ "	250
853154	RTW- $\frac{9}{16}$ "	$\frac{9}{16}$ "	400
853156	RTW- $1\frac{1}{16}$ "	$1\frac{1}{16}$ "	750
853157	RTW- $\frac{3}{4}$ "	$\frac{3}{4}$ "	850
853158	RTW- $1\frac{1}{8}$ "	$1\frac{1}{8}$ "	1000
853159	RTW- $\frac{7}{8}$ "	$\frac{7}{8}$ "	1250
853160	RTW- $1\frac{1}{8}$ "	$1\frac{1}{8}$ "	1400
853161	RTW-1"	1"	1500
853180	RTW- $1\frac{1}{2}$ "	$1\frac{1}{2}$ "	2210
853194	RTW-2"	2"	3600

RATCHETING TUBE WRENCH - METRIC

Part Number	Model	Hex Size	Max.Torque (Nm)
853164	RTW-13mm	13mm	34
853165	RTW-14mm	14mm	68
853170	RTW-16mm	16mm	68

CAUTION WHEN USING RTW HEADS!

Because of the configuration of the ratcheting tube wrenches, it is not possible to maintain our common centerline for these heads. We, therefore, recommend these heads for the LTC preset wrenches and when setting the torque value of the wrench, to use the appropriate head to insure accuracy.

See website for head dimensions.

See website for head dimensions.



STANDARD TOOLING ADAPTERS*

When fabricating special heads to be used with CCM torque handles other than Model CCM 300 and CCM 400, the 1 7/8 in. dimension must be maintained between the inside of the attachment block and the centerline of the wrench head. Model CCM 300 and CCM 400 are calibrated to 3/8 in. common centerline.

Part Number	Model	Max.Torque (in. lbs.)
819901	STA-1	1600
819902	STA-2	2500
809917	STA-3	4800

* Made of heat treated 4140 alloy steel.

STANDARD
TOOLING
ADAPTER



STRAIGHT EXTENSION

Part Number	Model	Angle (degrees)	Max.Torque (in. lbs.)
819424	LTCE-4	0	300
819467	LTCE-6	0	800
819021	LTCE-14	0	4800
819768	LTCE-20	0	4800

15° ANGLE EXTENSION

Part Number	Model	Angle (degrees)	Max.Torque (in. lbs.)
819487	LTCE-4-15°	15	300
819504	LTCE-6-15°	15	800



STRAIGHT AND 15°
ANGLE EXTENSIONS

ADAPTERS FOR DIN STYLE HEADS

- Can be used to convert most DIN style heads to a female dovetail for use on all S/R LTC series wrenches. Torque values should be set with the adapter and head attached to the wrench.
- Because of the variation in the length of the DIN plug type heads it is not recommended that this adapter be used with CCM micrometer adjustable wrenches.

Part Number	Model
819136	Adapter, 9mm x 12mm
819137	Adapter, 14mm x 18mm



ADAPTER FOR
DIN STYLE HEADS

ADAPTERS FOR ROUND STYLE HEADS

- Can be used to convert most round style heads to a female dovetail for use on all S/R LTC series wrenches. Torque values should be set with the adapter and head attached to the wrench.
- Because of the variation in the length of the round plug type heads it is not recommended that this adapter be used with CCM micrometer adjustable wrenches.

Part Number	Model	Description
853021	BAJ	"J" size female-female dovetail
853022	BAY	"Y" size female-female dovetail



ADAPTER FOR ROUND
STYLE HEADS

See website for head dimensions.



STANDARD TOOLING ADAPTERS*

When fabricating special heads to be used with CCM torque handles other than Model CCM 300 and CCM 400, the 1 7/8 in. dimension must be maintained between the inside of the attachment block and the centerline of the wrench head. Model CCM 300 and CCM 400 are calibrated to 3/8 in. common centerline.

Part Number	Model	Max. Torque (in. lbs.)
819901	STA-1	1600
819902	STA-2	2500
809917	STA-3	4800

* Made of heat treated 4140 alloy steel.

STANDARD
TOOLING
ADAPTER



STRAIGHT EXTENSION

Part Number	Model	Angle (degrees)	Max. Torque (in. lbs.)
819424	LTCE-4	0	300
819467	LTCE-6	0	800
819021	LTCE-14	0	4800
819768	LTCE-20	0	4800

15° ANGLE EXTENSION

Part Number	Model	Angle (degrees)	Max. Torque (in. lbs.)
819487	LTCE-4-15°	15	300
819504	LTCE-6-15°	15	800



STRAIGHT AND 15°
ANGLE EXTENSIONS

ADAPTERS FOR DIN STYLE HEADS

- Can be used to convert most DIN style heads to a female dovetail for use on all S/R LTC series wrenches. Torque values should be set with the adapter and head attached to the wrench.
- Because of the variation in the length of the DIN plug type heads it is not recommended that this adapter be used with CCM micrometer adjustable wrenches.

Part Number	Model
819136	Adapter, 9mm x 12mm
819137	Adapter, 14mm x 18mm



ADAPTER FOR
DIN STYLE HEADS

ADAPTERS FOR ROUND STYLE HEADS

- Can be used to convert most round style heads to a female dovetail for use on all S/R LTC series wrenches. Torque values should be set with the adapter and head attached to the wrench.
- Because of the variation in the length of the round plug type heads it is not recommended that this adapter be used with CCM micrometer adjustable wrenches.

Part Number	Model	Description
853021	BAJ	"J" size female-female dovetail
853022	BAY	"Y" size female-female dovetail



ADAPTER FOR ROUND
STYLE HEADS



ExacTorq®

Adjustable Series



ExacTorq® Series Features

Exact Torque Adjustment Using DigiLock Control Mechanism

Gone are the days of estimating torque. A simple twist of ExacTorq's end-mounted DigiLock mechanism sets your torque levels in exact, single digit increments. The positive locking detent secures your selection.

Enhance Comfort and Accuracy with Advanced Ergonomics

Enhanced comfort translates into enhanced accuracy. The ExacTorq® features a tri-lobular handle design. This gives users enhanced leverage, plus rounded surfaces for comfort and superior grip control. With each turn, this unique design involves only major muscle groups to reduce strain and potential repetitive-motion injury. Additionally, the ExacTorq® is comfortable in even the smallest of hands, performing flawlessly when used by women and men on the assembly line.

Features

- DigiLock Control Mechanism revolutionizes manual torque adjustment.
- Positive locking detent secures selected torque value.
- Can be used in both right and left hand directions.
- Designed to meet or exceed ASME B107.14M and ISO 6789 specifications, each ExacTorq ships with a calibration certificate from our ISO/IEC 17025 Accredited laboratory.
- Operator cannot over torque. Clutch releases automatically when desired torque has been achieved.
- Uses standard bits, sockets and adapters.
- Anti-backlash design enhances repeatability.
- Accuracy of +/- 6% Indicated Value.



Specifications	ExacTorq 100	ExacTorq 74
Part Number	810045	810046
Capacity	20-100 in. oz.	15-74 cNm
Graduation	1 in. oz.	1cNm
Length (less bit)	6.8 in.	6.8 in.
Weight	0.4 lbs	0.4 lbs
Drive Size	¼ in. Female Hex	¼ in. Female Hex

Includes FREE certification from our ISO /IEC17025 Accredited calibration laboratory.

CAL 36/4 Screwdriver & Kits

- Accuracy of +/- 6% Indicated Value (from 20% to 100% of capacity) meets or exceeds ASME B107.14M and ISO 6789.
- Incredibly durable! Many users have experienced a service life of 10+ years!
- Operators cannot overtorque - clutch releases at set torque.
- Anti-backlash design for repeatability.
- To operate, simply dial in torque and insert bit.
- Bi-directional CW/CCW versatility.
- Polished aluminum exterior.
- Scales clearly engraved on shaft and magnified for ease of reading.
- Comes with FREE calibration certificate from our ISO/IEC 17025 Accredited laboratory! Can be ordered with certification for English or Metric units of measure. (Use P/N 810017 for Nm certification on Cal 36/4.)
- Uses standard bits, adapters, and sockets.

CAL 36/4 Adjustable Screwdriver & Kits

Specifications	CAL 36/4 Part No. 810587	CAL 40 Part No. 810477
Capacity	2-36 in. lbs./ .2-4 Nm	3-40 kgf•cm.
Graduation	2 in. lbs./ .2 Nm	2 kgf•cm
Length (less bit)	7.8 in.	7.8 in.
Grip Diameter	1.4 in.	1.4 in.
Weight	0.5 lbs.	0.5 lbs.
Drive Size	1/4" Female Hex	1/4" Female Hex



**CAL 36/4K
Screwdriver Kit**
29 Piece Kit

Part No. 810568

Contains 1 each of the listed bits and a CAL 36/4 screwdriver

Hex 3/4	Slotted 8-10	Torx T20
Hex 3/2	Slotted 12-14	Torx T25
Hex 7/4	Socket Adapter 1/4	Torx T30
Hex 1/2	Bit Holder 1/4	Torx T40
Hex 3/4	Phillips #0	Sq. Recess 0
Posidriv #1	Phillips #1	Sq. Recess 1
Posidriv #2	Phillips #2	Sq. Recess 2
Slotted 0-1	Phillips #3	Sq. Recess 3
Slotted 3-4	Torx T10	
Slotted 5-6	Torx T15	

Includes Custom Case



Part No. 810588

Part Number	Description
810587	CAL 36/4 Screwdriver
819953	1/4" Hex to 1/4" Sq. Drive
809449	No. 1 Phillips Power Bit
809467	No. 2 Phillips Power Bit
809434	No. 2 Slotted Power Bit
809448	No. 4 Slotted Power Bit

Includes Custom Case

EMTSK 36/4 Screwdriver Kit

6 Piece Kit



Includes FREE certification from our ISO/IEC 17025 Accredited calibration laboratory.



TIC Kit

Torque Inserts Correctly Kit



Making Chips? You need the TIC Kit!

The "TIC Kit" will eliminate the problems associated with overtightened or loose tool insert screws!

The TIC Kit comes with a torque limiting screwdriver marked with the correct torque for each size of Torx screw used in toolholders, Torx bits for each of the screw sizes (T6, T7, T8, T9, T10), all contained in a custom molded plastic case. To use the TIC Kit, simply adjust the screwdriver to the size Torx screw to be tightened, insert the Torx bit from the kit, and tighten the screw. When the correct torque is reached, the clutch will index and no greater torque will be applied to the screw, even if the operator keeps turning the screwdriver!

The TIC Kit will eliminate the expense and problems of buying and keeping track of multiple keys and T-handles, as well as the problems associated with their inability to assure the correct torque.

The screwdriver in the TIC Kit is accurate to $\pm 6\%$ of the indicated T value, and is calibrated in our ISO/IEC 17025 Accredited Calibration Laboratory. It even comes with a FREE NIST-traceable calibration certificate!

It's time to stop drilling out toolholder screws and breaking expensive insert bits! The TIC Kit will increase your uptime and profits!

Part No.	Description
810581	TIC Kit w/TIC screwdriver, 1 each bits T6 – T10, case
810582	TIC screwdriver only
816771	T6 bits, pack of 5
816772	T7 bits, pack of 5
816773	T8 bits, pack of 5
816774	T9 bits, pack of 5
816775	T10 bits, pack of 5
816776	Bits, pack, 1 ea. T6 – T10



Increase your
cutting tool and tool
holder life!

PM Series Features

- Perfect for assembly of electronic components and precision mechanical products!
- Ideal for use in field maintenance kits - factory assembled quality in field reassembly!
- Clutch releases automatically when preset torque attained - no overtorquing.
- Anti-backlash design for repeatability.
- Long shaft allows operator to reach limited-access applications.
- Accuracy of +/- 6% (from 20% to 100% of capacity) meets or exceeds ASME B107.14M and ISO 6789 requirements.
- Bi-directional versatility - CW and CCW operation.
- Uses standard bits, adapters, and sockets.
- Torque value can be set using any unit of torque measure.
- Polished aluminum exterior.
- Minimum capacity of PM-series torque screwdrivers is 20% of maximum capacity.

Specifications	PM-5 Part No. 810007	PM-15 Part No. 810064	PM-36 Part No. 810563
Capacity	100 in. ozs. 70 cNm 7.2 kgf•cm	15 in. lbs. 1.65 Nm 17.2 kgf•cm	36 in. lbs. 4 Nm 40 kgf•cm
Length (less bit)	5.5 in.	6.3 in.	7.8 in.
Grip Diameter	0.8 in.	1.0 in.	1.4 in.
Weight	0.25 lbs.	0.3 lbs.	0.5 lbs.
Drive Size	1/4" Female Hex	1/4" Female Hex	1/4" Female Hex



PM-36

COLOR CODE ALL YOUR SCREWDRIVERS.

When you place your order, just mention you want colors and we will send a package of five easy-to-apply heat shrink sleeves.

Part No.	Package Contents
816734	Multi-color (1 each)
816735	Blue (5)
816736	Yellow (5)
816737	Red (5)
816738	White (5)
816739	Green (5)



PM-5



Preset Screwdriver

PM Series



PM-15



Torque Multipliers

Torque multipliers with S/R Flat Beam torque wrenches are perfect for the high torque/limited access applications frequently found in the construction, heavy equipment, and power generation industries! The Flat Beam torque wrench provides accurate torque measurement, which is then multiplied by the gears in the multiplier for torque achieved. This combination is extremely portable, thus well-suited to job site use.

Two styles are available, high- and low-ratio, offering the versatility of either design approach. For those with limited height applications, the low-ratio style offers a lower, longer profile. For those with restricted diameter applications, the taller, high-ratio style is offered.

- Capacities to 4000 ft.-lbs. or metric equivalent.
- Multipliers can be used with either English or Metric Flat Beam wrenches.
- Reaction bar or reaction foot keeps gear box from turning.
- Gear train within multiplier has natural frictional loss. For normal requirements, a loss factor of 10% to 20% may be used.



Part Number	Model	Style	Max. Torque ft. lbs.	Input Drive Size	Output Drive Size	Gear Ratio	Overall Length	Weight
850369	TM 1000	Low-ratio	1000	1/2"	3/4"	4-1	26 in.	12 lbs.
850367	TM 2000	Low-ratio	2000	3/4"	1"	4-1	26 in.	14 lbs.
850368	TM 4000	Low-ratio	4000	1"	1 1/2"	4.33:1	30 1/2 in.	35 lbs.
806300	XVK 15	Low-ratio*	1250	3/4"	1"	4.5:1	17 1/2 in.	7 lbs.

*Made in Germany

Spring Testing Fixture



- Simple-to-use spring tester can be used to inspect coil springs up to 7" in length and 2 1/2" in diameter, minimum I.D. 5/8".
- Provides the accurate tension readings necessary to match sets of springs.
- Height of test platform is adjusted by rotating platform on threaded column. A flat is milled on the column and stamped with 1/16" increments. One full revolution of the platform adjusts the height by 1/8".
- During compression testing an audible tone is emitted when arm is parallel to the test base indicating predetermined compression length is achieved.
- Maximum capacity of torque wrench that can be used is 150 ft. lbs. or equivalent.
- Wrench not included.

Model SPT
Part No. 850285