



# Torque Wrenches

## Proto<sup>®</sup> "C" Series Torque Wrenches

Calibrated to +/- 3% in clockwise direction and +/- 6% in counter clockwise direction. Manufactured to meet precision and accurate torque applications.

### Micrometer Torque Wrenches - Ratcheting Head - In/Lbs

Part#	Drive Size	Torque Range		Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
		Min.	Max.							
J6060A	1/4"	10 in. lb.	50 in. lb.	1 in. lb.	9-1/2"	1-1/16"	7/8"	J6006PBF	J6062RK	1.2
J6062C	1/4"	40 in. lb.	200 in. lb.	1 in. lb.	11-7/8"	1-1/32"	3/4"	J6006PBF	J6062RK	2.6
J6064C	3/8"	40 in. lb.	200 in. lb.	1 in. lb.	11-7/8"	1-1/32"	7/8"	J6006PBF	J6064RK	2.6
J6066C	3/8"	200 in. lb.	1000 in. lb.	5 in. lb.	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6068C	1/2"	360 in. lb.	1800 in. lb.	10 in. lb.	21-1/2"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.0
J6072C	1/2"	600 in. lb.	3000 in. lb.	10 in. lb.	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9

ASME B107.14M, ISO 6789, JIS B4650, AS28431

### Micrometer Torque Wrenches - Ratcheting Head - Ft/Lbs

Part#	Drive Size	Torque Range		Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
		Min.	Max.							
J6006C	3/8"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6012C	3/8"	20 ft. lb.	100 ft. lb.	.5 ft. lb.	17"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.3
J6008C	1/2"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-1/2"	1-7/16"	1-7/32"	J6006PBF	J6008RK	3.0
J6016C	1/2"	30 ft. lb.	150 ft. lb.	1 ft. lb.	21-1/2"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.0
J6014C	1/2"	50 ft. lb.	250 ft. lb.	1 ft. lb.	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9
J6018AB	3/4"	60 ft. lb.	300 ft. lb.	2 ft. lb.	32-23/32"	2-5/8"	2-1/16"	J6007PBF	J6018RK	14.0
J6020AB	3/4"	120 ft. lb.	600 ft. lb.	2 ft. lb.	41-9/16"	2-5/8"	2-1/16"	J6007PBF	J6018RK	15.5
J6022B	1"	140 ft. lb.	700 ft. lb.	2 ft. lb.	46-27/32"	2-5/8"	2-5/16"	J6007PBF	J6022RK	20.5

ASME B107.14M, ISO 6789, JIS B4650, AS28431

### Micrometer Torque Wrenches - Ratcheting Head - Nm

Part#	Drive Size	Torque Range		Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
		Min.	Max.							
J6006NMC	3/8"	16 Nm	80 Nm	.5 Nm	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6006MC	3/8"	16 Nm	80 Nm	.5 Nm	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6016NMC	1/2"	40 Nm	200 Nm	1 Nm	21-1/2"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.0
J6014NMC	1/2"	70 Nm	350 Nm	1 Nm	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9
J6014MC	1/2"	70 Nm	350 Nm	1 Nm	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9
J6016MC	1/2"	40 Nm	200 Nm	1 Nm	21-1/2"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.0
J6020NM	3/4"	120 Nm	800 Nm	4 Nm	41-9/16"	2-5/8"	2-1/16"	J6007PBF	J6018RK	15.5

ASME B107.14M, ISO 6789, JIS B4650, AS28431

### Micrometer Torque Wrenches - Fixed Head - In/Lbs

Part#	Drive Size	Torque Range		Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
		Min.	Max.							
J6061C	1/4"	40 in. lb.	200 in. lb.	1 in. lb.	11-45/64"	25/32"	3/4"	J6006PBF	N/A	2.6
J6063C	3/8"	40 in. lb.	200 in. lb.	1 in. lb.	11-45/64"	25/32"	7/8"	J6006PBF	N/A	2.6
J6065C	3/8"	200 in. lb.	1000 in. lb.	5 in. lb.	15-13/64"	55/64"	7/8"	J6006PBF	N/A	3.0

ASME B107.14M, ISO 6789, JIS B4650, AS28431

### Micrometer Torque Wrenches - Fixed Head - Ft/Lbs

Part#	Drive Size	Torque Range		Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
		Min.	Max.							
J6005C	3/8"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-13/64"	55/64"	7/8"	J6006PBF	N/A	3.0
J6015C	1/2"	30 ft. lb.	150 ft. lb.	1 ft. lb.	21-1/8"	1-1/8"	1-7/32"	J6014PBF	N/A	5.0
J6013C	1/2"	50 ft. lb.	250 ft. lb.	1 ft. lb.	26-23/32"	1-1/8"	1-7/32"	J6014PBF	N/A	5.9
J6017B	3/4"	120 ft. lb.	600 ft. lb.	2 ft. lb.	41-11/64"	1-7/8"	1-7/8"	J6007PBF	N/A	15.5
J6023	1"	200 ft. lb.	1,000 ft. lb.	5 ft. lb.	69"	1-7/8"	2-1/4"	N/A	N/A	24.5
J6025	1"	300 ft. lb.	2,000 ft. lb.	10 ft. lb.	107-1/2"	3-1/16"	4-1/8"	N/A	N/A	53.1

ASME B107.14M, ISO 6789, JIS B4650, AS28431

## Micrometer Torque Wrenches

Proto offers 1/4" - 1" drive in both ratcheting and fixed head styles, covering torque ranges from 10 in. lb. to 2,000 ft. lb., and 16 - 800 Nm.

Proto<sup>®</sup> micrometer torque wrenches are calibrated to +/- 3% of torque reading clockwise and +/- 6% of torque reading counter clockwise at 20% to 100% of full scale.

In order to meet customer requirements Proto offers three series of micrometer torque wrenches:

- "C" series - Manufactured to meet ASME B107.14M specifications. The "C" series torque wrenches meet normal industrial torque applications, general industry, heavy equipment and maintenance.
- "CX" series - Manufactured to meet TO33K6-4-2193-1 military loading requirements.
- "CXCERT" series - Proto<sup>®</sup> certified program for customers requiring the paperwork that documents traceability to N.I.S.T. (National Institute of Standards and Technology).

Special order certified micrometer wrenches to +/- 2% in one direction are available upon request. Pre-set torque wrenches are also available on special request.

	"C" Series	"CX" Series	"CXCERT" Series
Description	Micrometer	Micrometer	Micrometer Certified
Accuracy	+/- 3% CW, +/- 6% CCW	+/- 3% CW, +/- 6% CCW	+/- 3% CW, +/- 6% CCW
Specifications	ASME B107.14M	TO33K6-4-2193-1	TO33K6-4-2193-1
Calibration	Manual	Mechanical	Mechanical
Inspection	Hand Loaded, Vertical Position 3 Click Average	Mechanical Loaded Horizontal Position Three Click (20%, 60%, 100%) Maximum Instrument Capacity	Mechanical Loaded Horizontal Position Three Click (20%, 60%, 100%) Maximum Instrument Capacity Includes N.I.S.T. Documentation
Application	Production/General Manufacturing	Precision/Highly Accurate Applications Military, Aerospace	Precision/Highly Accurate Applications Military, Aerospace



# Torque Wrenches

## Proto<sup>®</sup> Torque Wrench Features

When desired torque is reached, there is an audible click and a "feel impulse," on the wrench itself. Designed to retain calibration for 30,000 cycles under normal use.

Spring and tilt block design help prolong wrench life and repeatability. 1/4" to 1" drive ratcheting micrometer torque wrenches incorporate ratchet gears made from high grade steel for strength and durability. Clockwise and counterclockwise torque capability.

Long length for operating ease, helping to reduce operator effort. Positive locking mechanism allows you to simply dial and lock in the desired torque. Most wrenches feature a dual scale for versatility. Linear scale assures uniform accuracy and is offset for readability.

Thin head design allows access in tight areas. Large grip area helps required effort in setting torque. Knurled handle for a slip-resistant grip.

## Safety:

- Use safety goggles. Serious eye injury is possible.
- Do not use cheater bars, hammers or other damaging objects.
- Do not exceed rated torque capacity of wrench.
- Do not use torque wrenches to break fasteners loose.
- Pull wrench towards you. Do not push.
- Do not use torque multipliers with impact wrenches.

## Proto "CX" Series Torque Wrenches

Calibrated to +/- 3% in clockwise direction and +/- 6% in counter clockwise direction. Calibration is accomplished by mechanical loading each wrench in a horizontal position, and performing a three click test at 20%, 60% and 100% of maximum instrument capacity. Manufactured to meet precision and accurate torque applications.

### Micrometer Torque Wrenches - Fixed Head - In/Lbs

Part#	Drive Size	Torque Range Min.	Max.	Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
J6061CX	1/4"	40 in. lb.	200 in. lb.	1 in. lb.	11-45/64"	25/32"	3/4"	J6006PBF	N/A	2.6
J6063CX	3/8"	40 in. lb.	200 in. lb.	1 in. lb.	11-45/64"	25/32"	7/8"	J6006PBF	N/A	2.6
J6065CX	3/8"	200 in. lb.	1000 in. lb.	5 in. lb.	15-13/64"	55/64"	7/8"	J6006PBF	N/A	3.0

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### Micrometer Torque Wrenches - Ratcheting Head - In/Lbs

Part#	Drive Size	Torque Range Min.	Max.	Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
J6062CX	1/4"	40 in. lb.	200 in. lb.	1 in. lb.	11-7/8"	1-1/32"	3/4"	J6006PBF	J6062RK	2.6
J6064CX	3/8"	40 in. lb.	200 in. lb.	1 in. lb.	11-7/8"	1-1/32"	7/8"	J6006PBF	J6064RK	2.6
J6066CX	3/8"	200 in. lb.	1000 in. lb.	5 in. lb.	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6072CX	1/2"	600 in. lb.	3000 in. lb.	10 in. lb.	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9

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### Micrometer Torque Wrenches - Ratcheting Head - Ft/Lbs

Part#	Drive Size	Torque Range Min.	Max.	Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
J6006CX	3/8"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6008CX	1/2"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-1/2"	1-7/16"	1-7/32"	J6006PBF	J6008RK	3.0
J6016CX	1/2"	30 ft. lb.	150 ft. lb.	1 ft. lb.	21-1/2"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.0
J6014CX	1/2"	50 ft. lb.	250 ft. lb.	1 ft. lb.	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9
J6018CX	3/4"	60 ft. lb.	300 ft. lb.	2 ft. lb.	32-23/32"	2-5/8"	2-1/16"	J6007PBF	J6018RK	14.0
J6020CX	3/4"	120 ft. lb.	600 ft. lb.	2 ft. lb.	41-9/16"	2-5/8"	2-1/16"	J6007PBF	J6018RK	15.5

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## Proto "XCERT" Series Torque Wrenches

Calibrated to +/- 3% in clockwise direction and +/- 6% in counter clockwise direction. Calibration is accomplished by mechanical loading each wrench in a horizontal position, and performing a three click test at 20%, 60% and 100% of maximum instrument capacity. Manufactured to meet precision and accurate torque applications.

Includes paperwork that documents traceability to N.I.S.T. (National Institute of Standards and Technology)

### Micrometer Torque Wrenches - Fixed Head - In/Lbs

Part#	Drive Size	Torque Range Min.	Max.	Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
J6061XCERT	1/4"	40 in. lb.	200 in. lb.	1 in. lb.	11-45/64"	25/32"	3/4"	J6006PBF	N/A	2.6
J6063XCERT	3/8"	40 in. lb.	200 in. lb.	1 in. lb.	11-45/64"	25/32"	7/8"	J6006PBF	N/A	2.6
J6065XCERT	3/8"	200 in. lb.	1000 in. lb.	5 in. lb.	15-13/64"	55/64"	7/8"	J6006PBF	N/A	3.0

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### Micrometer Torque Wrenches - Ratcheting Head - In/Lbs

Part#	Drive Size	Torque Range Min.	Max.	Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
J6062XCERT	1/4"	40 in. lb.	200 in. lb.	1 in. lb.	11-7/8"	1-1/32"	3/4"	J6006PBF	J6062RK	2.6
J6064XCERT	3/8"	40 in. lb.	200 in. lb.	1 in. lb.	11-7/8"	1-1/32"	7/8"	J6006PBF	J6064RK	2.6
J6066XCERT	3/8"	200 in. lb.	1000 in. lb.	5 in. lb.	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6072XCERT	1/2"	600 in. lb.	3000 in. lb.	10 in. lb.	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9

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### Micrometer Torque Wrenches - Ratcheting Head - Ft/Lbs

Part#	Drive Size	Torque Range Min.	Max.	Increments	Length	Head Width	Head Depth	Storage Case	Repair Kit	Weight (lbs.)
J6006XCERT	3/8"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-1/2"	1-7/16"	1-1/64"	J6006PBF	J6006RK	3.0
J6008XCERT	1/2"	16 ft. lb.	80 ft. lb.	.5 ft. lb.	15-1/2"	1-7/16"	1-7/32"	J6006PBF	J6008RK	3.0
J6016XCERT	1/2"	30 ft. lb.	150 ft. lb.	1 ft. lb.	21-1/2"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.0
J6014XCERT	1/2"	50 ft. lb.	250 ft. lb.	1 ft. lb.	27-1/8"	1-7/8"	1-13/32"	J6014PBF	J6014RK	5.9
J6018XCERT	3/4"	60 ft. lb.	300 ft. lb.	2 ft. lb.	32-23/32"	2-5/8"	2-1/16"	J6007PBF	J6018RK	14.0
J6020XCERT	3/4"	120 ft. lb.	600 ft. lb.	2 ft. lb.	41-9/16"	2-5/8"	2-1/16"	J6007PBF	J6018RK	15.5

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