

GEARWRENCH

FORGE AHEAD



Torque Products for Industry



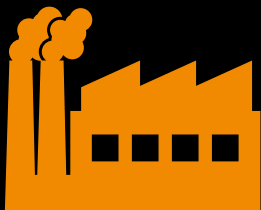
Torque Products for Industry

Regardless of industry, when there is a requirement for the precise application of torque, GEARWRENCH has the right tool for the job. From structural steel framing to concrete anchor bolts to electrical clamps, GEARWRENCH torque wrenches are up to the task, meeting or exceeding ASME requirements for a wide range of fastener applications.



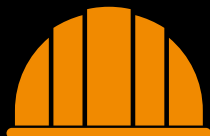
AUTOMOTIVE

- 120XP Micrometer Torque Wrenches
- 120XP Electronic with Angle Torque Wrenches



PLANT MAINTENANCE

- "E-Spec" Torque Wrenches
- 3/4" and 1" Drive Mechanical and Electronic Torque Wrenches
- Torque Testers
- Service and Calibration Program



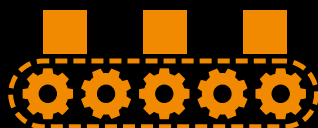
CONSTRUCTION

- 3/4" and 1" Drive Mechanical and Electronic Torque Wrenches
- Torque Conversion Charts for Concrete Anchor Applications



ELECTRICAL

- Torque Screwdrivers
- 20pc. Electrical Service Kit
- Torque Conversion Charts for Terminal Connections



ASSEMBLY

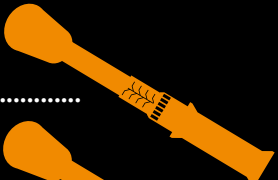
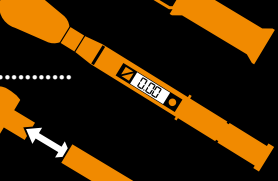
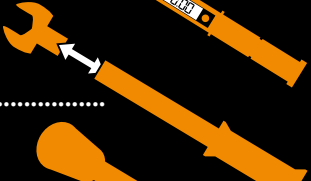
- "E-Spec" Torque Wrenches
- Preset Torque Wrenches
- Interchangeable Head Torque Wrenches
- Torque Screwdrivers



GEARWRENCH

GEARWRENCH has been an innovator in the manufacture of torque wrenches since early in its history. Our promise is to meet the demanding needs of professional users by supplying high quality products and expert support. With design innovations on everything from micrometer "click" wrenches to full featured electronic torque wrenches, we continue to provide an expanding selection of high performance torque products. This guide covers the full line of GEARWRENCH torque wrenches and related products, including recent additions of proven designs in new product categories.

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120^{XP} Micrometer Torque Wrenches

- Accurate in clockwise direction +/- 3% from 20% to 100% of full scale
- Meets or exceeds ASME B107.300
- Enclosed head design for extreme resistance to dirt infiltration
- Teardrop low profile head and flush mounted on/off switch allow better access in tight spaces
- Pull back locking collar

- Injection molded cases with removable lids for convenient storage



- Two double-stacked 60-tooth pawls for exceptional strength that exceeds ASME specifications



- 120 positions, 3 degree ratcheting arc



85181
1/2" Drive

- High definition scale markings are easier to read

- Dual Scales, Metric and SAE

- Pull back locking collar

- Knurled aluminum grip
- Midpoint marked for accuracy

PRECISION FOR
+/- 3%
TORQUE ACCURACY

3° SWING ARC
120
FOR TIGHTER TURNS

LOW PROFILE HEAD
FLUSH REVERSING LEVER

FLEX HEAD
FOR ACCESS

THIN PROFILE
FOR ACCESS

Cat. No.	Certified Model No.	Drive Size	Head Style	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt Scale Increments	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
85171	85171CERT	1/4"	Standard	30-200 in-lbs	1 in-lbs	4 - 23 Nm	0.1 Nm	60T/120 Pos.	0.4	1.0	11.0	0.9
85176	85176CERT	3/8"	Standard	10-100 ft-lbs	1 ft-lbs	20 - 142 Nm	14 Nm	60T/120 Pos.	0.6	1.3	18.4	2.6
85181	85181CERT	1/2"	Standard	30-250 ft-lbs	2 ft-lbs	54 - 353 Nm	2.7 Nm	60T/120 Pos.	0.8	1.8	24.9	3.7
85174	85174CERT	3/8"	Standard	30 - 250 in-lbs	1 in-lbs	4 - 23 Nm	0.1 Nm	60T/120 Pos.	0.6	1.3	18.3	2.6
85180	85180CERT	1/2"	Standard	20 - 150 ft-lbs	1 ft-lbs	27 - 203 Nm	14 Nm	60T/120 Pos.	0.8	1.8	24.9	3.7
85188	85188CERT	3/8"	Flex	5-75 ft-lbs	1 ft-lbs	7 - 136 Nm	14 Nm	60T/120 Pos.	0.6	1.3	18.5	2.6
85189	85189CERT	1/2"	Flex	30-250 ft-lbs	2 ft-lbs	54 - 353 Nm	2.7 Nm	60T/120 Pos.	0.8	1.8	26.0	4.0

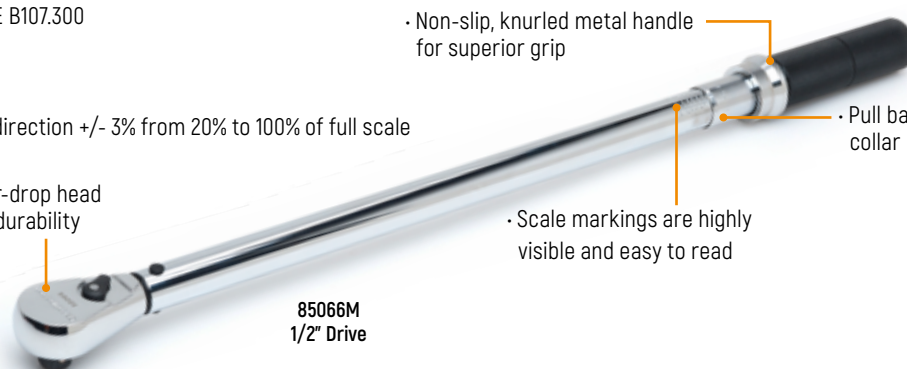
Micrometer Torque Wrenches

- Meets or exceeds ASME B107.300
- Accurate in clockwise direction +/- 3% from 20% to 100% of full scale
- Thin profile, sealed tear-drop head design for access and durability

- Non-slip, knurled metal handle for superior grip

- Pull back locking collar

- Scale markings are highly visible and easy to read



85066M
1/2" Drive

PRECISION FOR
+/- 3%
TORQUE ACCURACY

LOW PROFILE HEAD
FLUSH REVERSING LEVER

FLEX HEAD
FOR ACCESS

Cat. No.	Certified Model No.	Drive Size	Head Style	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt. Scale Increments	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
85060M	85060MCERT	1/4"	Standard	30 - 200 in-lbs	1 in-lbs	4 - 23 Nm	0.1 Nm	22	0.5	1.1	10.5	0.8
85061M	85061MCERT	3/8"	Standard	20 - 250 in-lbs	1 in-lbs	5 - 29 Nm	0.2 Nm	30	0.7	1.4	14.0	2.0
85062M	85062MCERT	3/8"	Standard	10 - 100 ft-lbs	1 ft-lbs	20 - 142 Nm	1.0 Nm	30	0.7	1.4	18.0	2.5
85063M	85063MCERT	1/2"	Standard	20 - 150 ft-lbs	1 ft-lbs	34 - 210 Nm	1.0 Nm	32	0.8	1.75	21.9	3.1
85066M	85066MCERT	1/2"	Standard	30 - 250 ft-lbs	2 ft-lbs	54 - 353 Nm	3.0 Nm	32	0.8	1.75	24.3	3.5
85086M	85086MCERT	3/8"	Flex	5 - 75 ft-lbs	0.5 ft-lbs	10 - 105 Nm	1.0 Nm	30	0.7	1.4	17.7	2.4
85087M	85087MCERT	1/2"	Flex	30 - 250 ft-lbs	2 ft-lbs	54 - 353 Nm	3.0 Nm	36	0.9	1.75	25.3	3.8

3/4" & 1" Micrometer Torque Wrenches

- Meets or exceeds ASME B107.300
- Accurate in clockwise direction +/- 3% from 20% to 100% of full scale
- Easy lock and adjustment design

- Scale markings are highly visible and easy to read

- Knurled steel for durability and grip



PRECISION FOR
+/- 3%
TORQUE ACCURACY

FIXED HEAD

Cat. No.	Certified Model No.	Drive Size	Head Style	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt Scale Increments	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
85065M	85065MCERT	3/4"	Standard	100 - 600 ft-lbs	2.5 ft-lbs	153 - 831 Nm	4.0 Nm	36	1.1	2.6	42.4	15.8
85067		1"	Standard	150 - 750 ft-lbs	5 ft-lbs	237 - 983 Nm	5.0 Nm	24	1.3	2.8	48.8	14.1
85068		1"	Standard	200 - 1000 ft-lbs	5 ft-lbs	305 - 1322 Nm	5.0 Nm	24	1.3	2.8	73.0	23.3

Tire Shop Micrometer Torque Wrench

- Used for tightening wheel lug nuts to manufacturer's recommended torque

- Pull adjustment collar for easy and quick torque setting changes

- Scale markings are highly visible and easy to read

- Accurate in clockwise direction +/- 3% from 20% to 100% of full scale



PRECISION FOR
+/- 3%
TORQUE ACCURACY

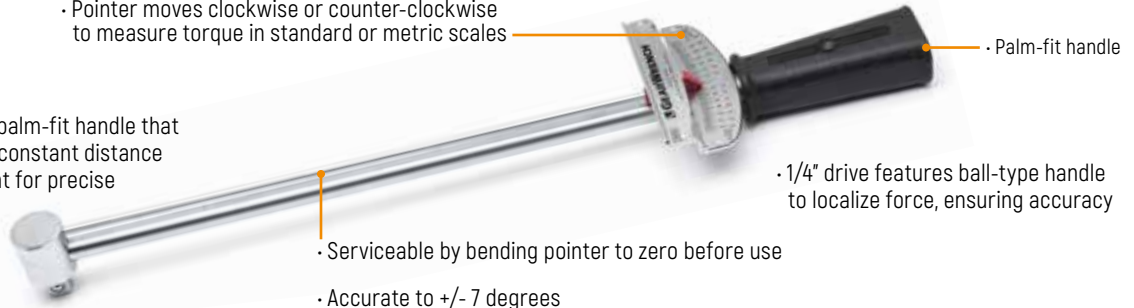
Cat. No.	Certified Model No.	Drive Size	Head Style	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt Scale Increments	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
85088M	85088MCERT	1/2"	Standard - Protective Boot	30 - 250 ft-lbs	2 ft-lbs	54.2 - 352.6 Nm	2.7 Nm	32	1.0	2.2	24.9	3.5

Beam Torque Wrenches

- Pointer moves clockwise or counter-clockwise to measure torque in standard or metric scales

- 3/8" and 1/2" drives feature palm-fit handle that pivots on beam to maintain constant distance from drive point to load point for precise measurement

- 1/4" drive features ball-type handle to localize force, ensuring accuracy



- Serviceable by bending pointer to zero before use
- Accurate to +/- 7 degrees

Cat. No.	Drive Size	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt Scale Increments	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
2955N	1/4"	0 - 80 in-lbs	2.5 in-lbs	0-9 Nm	0.3 Nm	1.3	0.8	11.3	0.8
2956N	3/8"	0 - 800 in-lbs	50 in-lbs	0-90 Nm	12 Nm	1.3	0.8	16.0	1.0
2957N	1/2"	0 - 150 ft-lbs	5 ft-lbs	0-190 Nm	27 Nm	1.3	1.1	20.0	2.5

120^{XP} Electronic Flex Head Torque Wrenches with Angle

Maximum Access and Accuracy

- "Target Torque Alert" and "Target Angle Alert" gives a warning as the target torque or target angle is approached to prevent over torquing of the fastener
- Angle Accuracy of +/-1% of reading at angular velocity >10 degree/sec and <180 degree/sec
- Ten torque setting presets for frequently repeated applications
- Accurate in clockwise direction +/- 2% from 20% to 100% of full scale



- Two double-stacked 60-tooth pawls for exceptional strength that exceeds ASME specifications



- 15 degree flex head for improved access

- Requires (2) AA batteries

- Handle vibrates, buzzer sounds and LCD screen alerts when the target torque is reached

85196
1/2" Drive

- Five torque measurement units available: Nm, ft-lbs, in-lbs, kgf-m, kgf-cm

- Meets or exceeds ASME B107.300



PRECISION FOR
+/-2%
TORQUE ACCURACY

PRECISION FOR
+/-1%
ANGLE ACCURACY

Cat. No.	Drive Size	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt. Scale Increments	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Weight (lbs)
85194	1/4"	2.0 – 20 ft-lbs	0.1 ft-lbs	2.7 – 27 Nm	0.1 Nm	120	0.4	1.0	15.5	1.6
85195	3/8"	10 – 100 ft-lbs	0.1 ft-lbs	13.5 – 135 Nm	0.1 Nm	120	0.6	1.3	15.9	1.9
85196	1/2"	25 – 250 ft-lbs	0.1 ft-lbs	34 – 340 Nm	0.1 Nm	120	0.7	1.8	24.3	3.0

Electronic Torque Wrenches

- "Target Torque Alert" and "Target Angle Alert" gives a warning as the target torque or target angle is approached to prevent over torquing of the fastener

- Angle Accuracy of +/-1% of reading between angular velocity of 10 degree/sec and 180 degree/sec

- Ten torque setting presets for frequently repeated applications

- Accurate in clockwise direction +/- 2% from 20% to 100% of full scale

- 15 degree flex head for improved access



85079
1/2" Drive

85082
3/4" Drive

- Handle vibrates, buzzer sounds and LCD screen alerts when the target torque is reached

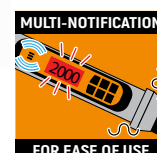
- Handle and housing are oil and solvent resistant

- All steel design

- Five torque measurement units are available: Nm, ft-lbs, in-lbs, kgf-m, kgf-cm

- Meets or exceeds ASME B107.300

PRECISION FOR
+/-2%
TORQUE ACCURACY



Cat. No.	Drive Size	Head Style	Primary Scale Range	Primary Scale Increments	Alt. Scale Range	Alt. Scale Increments	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Weight (lbs)	Torque Angle Feature
85076	3/8"	Standard	10 – 100 ft-lbs	0.1 ft-lbs	10 – 135 Nm	0.1 ft-lb	72	0.7	1.3	15.8	1.9	No
85077	1/2"	Standard	25 – 250 ft-lbs	0.1 ft-lbs	34 – 340 Nm	0.1 ft-lb	72	0.9	1.6	25.8	2.9	No
85078	3/8"	Flex	10 – 100 ft-lbs	0.1 ft-lbs	10 – 135 Nm	0.1 ft-lb	72	0.7	1.3	16.8	2.1	Yes
85079	1/2"	Flex	25 – 250 ft-lbs	0.1 ft-lbs	34 – 340 Nm	0.1 ft-lb	72	0.9	1.6	25.0	3.1	Yes
85082	3/4"	Standard	75 – 750 ft-lbs	0.1 ft-lbs	100 – 1000 Nm	0.1 ft-lb	24	2.2	2.4	49.1	13.1	No
85085	1"	Standard	100 – 1100 ft-lbs	0.1 ft-lbs	150 – 1500 Nm	0.1 ft-lb	24	2.3	2.4	49.1	13.1	No

Introducing E-Spec, a connected electronic torque wrench designed specifically for production environments where a high level of precision is required. With $\pm 1.5\%$ torque accuracy and $\pm 1\%$ angle accuracy, E-Spec is a high-tech workhorse. E-Spec software allows users to set torque parameters and download torque process data via standard text format. All E-spec wrenches incorporate 120XP™ technology that turns fasteners in a 3° swing arc for tight areas. E-Spec is the new standard for premium industrial torque application.

Connected Torque Wrench for Assembly and Production

Ease of Use:

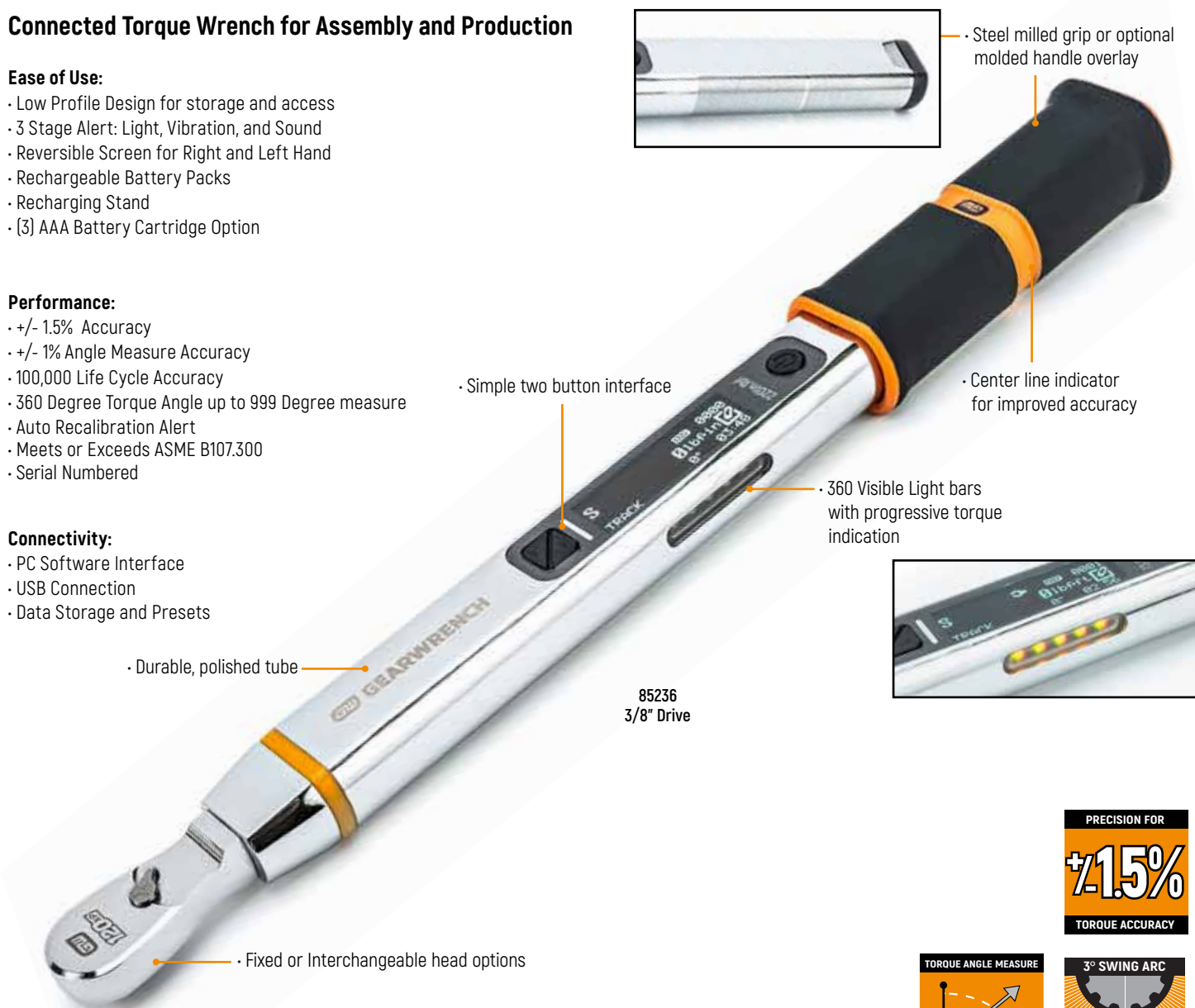
- Low Profile Design for storage and access
- 3 Stage Alert: Light, Vibration, and Sound
- Reversible Screen for Right and Left Hand
- Rechargeable Battery Packs
- Recharging Stand
- (3) AAA Battery Cartridge Option

Performance:

- $\pm 1.5\%$ Accuracy
- $\pm 1\%$ Angle Measure Accuracy
- 100,000 Life Cycle Accuracy
- 360 Degree Torque Angle up to 999 Degree measure
- Auto Recalibration Alert
- Meets or Exceeds ASME B107.300
- Serial Numbered

Connectivity:

- PC Software Interface
- USB Connection
- Data Storage and Presets



120XP™



- Two Double-stacked 60-tooth pawls for exceptional strength, exceeding ASME specifications



- EVA and Injection box Storage

PRECISION FOR
 $\pm 1.5\%$
TORQUE ACCURACY

TORQUE ANGLE MEASURE

FOR PRECISION

3° SWING ARC

FOR TIGHTER TURNS

THIN PROFILE

FOR ACCESS

FLEX HEAD

FOR ACCESS

FIXED HEAD

INTERCHANGEABLE HEAD



Cat. No.	Drive Size	Head Style	Scale Range	Scale Increments	Scale Range	Scale Increments	Scale Range	Scale Increments	Adapter Size	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
85235	1/4"	Fixed Head Standard	4 - 18 ft-lbs	0.1 ft-lbs	44 - 220 in-lbs	0.1 in-lbs	5-25 Nm	0.1 Nm	-	60T/120 Pos.	0.9	1.0	22.0	4.2
85236	3/8"	Fixed Head Standard	1 - 20 ft-lbs	0.1 ft-lbs	12 - 240 in-lbs	0.1 in-lbs	14-28 Nm	0.1 Nm	-	60T/120 Pos.	1.1	1.3	22.0	4.4
85237	3/8"	Fixed Head Standard	15 - 74 ft-lbs	0.1 ft-lbs	177 - 885 in-lbs	0.1 in-lbs	20-100 Nm	0.1 Nm	-	60T/120 Pos.	1.1	1.3	22.0	4.4
85238	1/2"	Fixed Head Standard	50 - 255 ft-lbs	0.1 ft-lbs	600 - 3010 in-lbs	0.1 in-lbs	68-340 Nm	0.1 Nm	-	60T/120 Pos.	1.5	1.7	31.5	6.9
85243	1/4"	Interchangeable Head	4 - 18 ft-lbs	0.1 ft-lbs	44 - 220 in-lbs	0.1 in-lbs	5-25 Nm	0.1 Nm	9 x 12mm	60T/120 Pos.	-	-	19.5	4.6
85244	3/8"	Interchangeable Head	1 - 20 ft-lbs	0.1 ft-lbs	12 - 240 in-lbs	0.1 in-lbs	14-28 Nm	0.1 Nm	9 x 12mm	60T/120 Pos.	-	-	19.5	4.9
85245	3/8"	Interchangeable Head	15 - 74 ft-lbs	0.1 ft-lbs	177 - 885 in-lbs	0.1 in-lbs	20-100 Nm	0.1 Nm	9 x 12mm	60T/120 Pos.	-	-	19.5	4.5
85246	1/2"	Interchangeable Head	50 - 255 ft-lbs	0.1 ft-lbs	600 - 3010 in-lbs	0.1 in-lbs	68-340 Nm	0.1 Nm	14 x 18mm	60T/120 Pos.	-	-	29.0	7.8

Wrench Only

Cat. No.	Drive Size	Wrench Only
85235-01	1/4"	Fixed Head Standard
85236-01	3/8"	Fixed Head Standard
85237-01	3/8"	Fixed Head Standard
85238-01	1/2"	Fixed Head Standard
85243-01	1/4"	Interchangeable
85244-01	3/8"	Interchangeable
85245-01	3/8"	Interchangeable
85246-01	1/2"	Interchangeable

Replacement Parts

Cat. No.	Part	
85250-01	Replacement Lithium Ion Battery for E-Spec Torque Wrench	
85250-02	Replacement (3) AAA Battery Cartridge only for E-Spec Torque Wrench	
85250-03	Replacement Charging stand for E-Spec Torque Wrench	
85250-04	Replacement AC Adapter for E-Spec Torque Wrench	
85250-05	Replacement USB Stick with instructions for E-Spec Torque Wrench	
85250-06	Replacement Case for 1/4" E-Spec Torque Wrench	
85250-07	Replacement Case for 1/2" E-Spec Torque Wrench	
85250-08	Replacement Handle for E-Spec Torque Wrench	



	1/4" Drive	3/8" Drive		1/2" Drive
E-Spec Fixed Head	85235	85236	85237	85238
E-Spec Interchangeable Head	85243	85244	85245	85246
Interchangeable Adapter	9 x 12mm	9 x 12mm	9 x 12mm	14 x 18mm
Drive	1/4"	3/8"	3/8"	1/2"
Torque Range, in lb.	44-220	12-240	177-885	600-3010
Torque Range, ft. lb.	4-18	1-20	15-74	50-255
Torque Range, Nm	5-25	14-28	20-100	68-340
Torque Range, Display	0.5% - 130% Full Scale	0.5% - 130% Full Scale	0.5% - 130% Full Scale	0.5% - 130% Full Scale
Torque Accuracy CW	+/-1.5% of reading	+/-1.5% of reading	+/-1.5% of reading	+/-1.5% of reading
Torque Accuracy CCW	+/-2.5% + of reading	+/-2.5% + of reading	+/-2.5% + of reading	+/-2.5% + of reading
Angle Accuracy	+/- 1% of reading and +/- 1 degree	+/- 1% of reading and +/- 1 degree	+/- 1% of reading and +/- 1 degree	+/- 1% of reading and +/- 1 degree
Angle Range	0-999.9 Degrees	0-999.9 Degrees	0-999.9 Degrees	0-999.9 Degrees
Ratchet Style	120XP	120XP	120XP	120XP
Head Depth	0.86"	1.05"	1.05"	1.46"
Head Width	1"	1.26"	1.26"	1.73"
Swing Arc	3 degree	3 degree	3 degree	3 degree
Storage Capacity	Simple mode: 2000 Production Mode: 6000	Simple mode: 2000 Production Mode: 6000	Simple mode: 2000 Production Mode: 6000	Simple mode: 2000 Production Mode: 6000
Number of Presets	100 Preset (P00-P99) 999 pcs for each (0-999)	100 Preset (P00-P99) 999 pcs for each (0-999)	100 Preset (P00-P99) 999 pcs for each (0-999)	100 Preset (P00-P99) 999 pcs for each (0-999)
Data management +	USB+Software	USB+Software	USB+Software	USB+Software
Rechargeable	Yes	Yes	Yes	Yes
Batteries Included	Li-ion battery pack, 2000mAh Rechargeable - Type C DATA/Charging	Li-ion battery pack, 2000mAh Rechargeable - Type C DATA/Charging	Li-ion battery pack, 2000mAh Rechargeable - Type C DATA/Charging	Li-ion battery pack, 2000mAh Rechargeable - Type C DATA/Charging
Alkaline Battery cartridge option	Yes (3 AAA)	Yes (3 AAA)	Yes (3 AAA)	Yes (3 AAA)
Progressive Lights	Yes - 30%, 50%, 70%, 90%, 98%	Yes - 30%, 50%, 70%, 90%, 98%	Yes - 30%, 50%, 70%, 90%, 98%	Yes - 30%, 50%, 70%, 90%, 98%
Buzzer	Yes - Off/Low/Mid/High	Yes - Off/Low/Mid/High	Yes - Off/Low/Mid/High	Yes - Off/Low/Mid/High
Decible Level	Variable - 40 to 70db	Variable - 40 to 70db	Variable - 40 to 70db	Variable - 40 to 70db
Vibration	Yes - Off/Low/Mid/High	Yes - Off/Low/Mid/High	Yes - Off/Low/Mid/High	Yes - Off/Low/Mid/High
LCD backlight	OLED, 5% to 100%	OLED, 5% to 100%	OLED, 5% to 100%	OLED, 5% to 100%
Approbation	CE for product, UL for rechargeable battery pack and power adapter	CE for product, UL for rechargeable battery pack and power adapter	CE for product, UL for rechargeable battery pack and power adapter	CE for product, UL for rechargeable battery pack and power adapter
USB Access Location	Type C on the end	Type C on the end	Type C on the end	Type C on the end
Calibration and Settings on Tool	Yes	Yes	Yes	Yes
Odometer of Torque Cycles	Yes	Yes	Yes	Yes
Adjustable Calibration/ Cert. Time Warning	Yes - Yes	Yes - Yes	Yes - Yes	Yes - Yes
All Steel Body	Yes	Yes	Yes	Yes
Methyl Propyl Ketone resistant display/buttons	Yes	Yes	Yes	Yes
Length	22"	22"	22"	31.5"
Weight	4.2 lbs	4.4 lbs	4.4 lbs	6.9 lbs
Storage Case Included	Yes	Yes	Yes	Yes

Interchangeable Torque Wrenches



- Torque accuracy of +/- 3% CW between 20% and 100% of full scale

- Pull adjustment collar for easy and quick torque setting changes

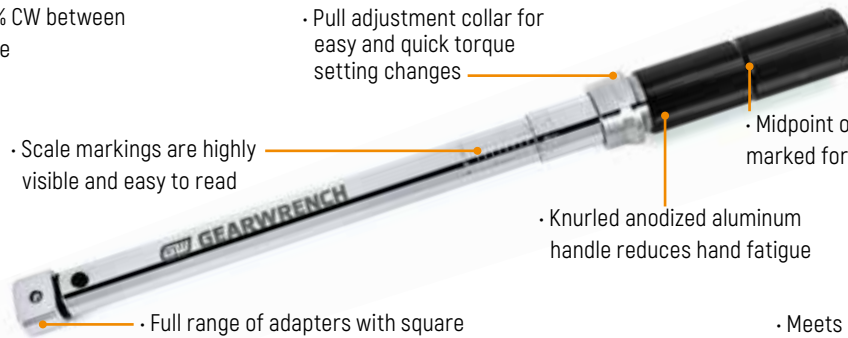
- Scale markings are highly visible and easy to read

- Midpoint on handle clearly marked for accuracy

- Knurled anodized aluminum handle reduces hand fatigue

- Full range of adapters with square style 9x12 and 14x18 drive tang

- Meets or exceeds ASME B107.300



Cat. No.	Adapter Size	Primary Scale Range	Increments	Alt. Scale Range	Scale Increments	Scale Range	Scale Increments	Tube Diameter (in)	Handle Diameter (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
89470	9 x 12mm	1 - 5 Nm	0.1 Nm	9 - 44 in-lbs	0.9 in-lbs	1 - 4 ft-lbs	0.1 ft-lbs	0.6	1.8	1.0	8.3	1.3
89471	9 x 12mm	5 - 25 Nm	0.1 Nm	44 - 221 in-lbs	0.9 in-lbs	4 - 18 ft-lbs	0.1 ft-lbs	0.6	2.0	1.3	9.8	1.8
89472	9 x 12mm	20 - 100 Nm	0.5 Nm	177 - 885 in-lbs	4.8 in-lbs	15 - 74 ft-lbs	0.4 ft-lbs	0.9	2.0	1.3	16.6	3.8
89473	14 x 18mm	40 - 200 Nm	1 Nm	354 - 1770 in-lbs	8.9 in-lbs	30 - 148 ft-lbs	0.7 ft-lbs	0.9	2.8	1.6	20.7	3.9
89474	14 x 18mm	68 - 340 Nm	2 Nm	602 - 3009 in-lbs	17.7 in-lbs	50 - 251 ft-lbs	1.5 ft-lbs	0.9	2.8	1.6	23.2	4.5

Interchangeable Torque Wrench Sets



- Available in SAE and Metric

- 5-25Nm

- 20-100Nm



89450
1/4" Drive



89452
3/8" Drive

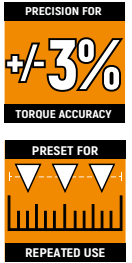
Cat. No.	Description	Set Range	Adapter Size	Ratchet Head Adapter Drive Size	Case Length (in)	Case Width (in)	Case Height (in)	Product Weight (lbs)
89450	12pc SAE Interchangeable Torque Wrench 5-25Nm	5/16" - 13/16"	9 x 12mm	1/4"	11.4	7.3	2.0	2.9
89451	12pc Metric Interchangeable Torque Wrench 5-25Nm	8mm - 17mm	9 x 12mm	1/4"	11.4	7.3	2.0	2.9
89452	12pc SAE Interchangeable Torque Wrench 20-100Nm	5/16" - 13/16"	9 x 12mm	3/8"	18.5	10.6	2.4	4.4
89453	12pc Metric Interchangeable Torque Wrench 20-100Nm	8mm - 17mm	9 x 12mm	3/8"	18.5	10.6	2.4	4.4

Cat. No.	Style	Size	Adapter Size	89450	89451	89452	89453	Cat. No.	Style	Size	Adapter Size	89450	89451	89452	89453
89512	Open End	5/16"	9x12	X		X		89493	Open End	10 mm	9x12		X		X
89513	Open End	11/32"	9x12	X		X		89494	Open End	11 mm	9x12		X		X
89514	Open End	3/8"	9x12	X		X		89495	Open End	12 mm	9x12		X		X
89515	Open End	7/16"	9x12	X		X		89496	Open End	13 mm	9x12		X		X
89516	Open End	1/2"	9x12	X		X		89497	Open End	14 mm	9x12		X		X
89517	Open End	9/16"	9x12	X		X		89498	Open End	15 mm	9x12		X		X
89518	Open End	5/8"	9x12	X		X		89499	Open End	16 mm	9x12		X		X
89519	Open End	11/16"	9x12	X		X		89500	Open End	17 mm	9x12		X		X
89520	Open End	3/4"	9x12	X		X		89471	Interchangeable Torque Wrench	5 - 25 Nm	9x12	X	X		
89521	Open End	13/16"	9x12	X		X		89480	Ratchet Adapter	1/4"	9x12	X	X		
89491	Open End	8 mm	9x12		X		X	89472	Interchangeable Torque Wrench	20-100 Nm	9x12			X	X
89492	Open End	9 mm	9x12		X		X	89482	Ratchet Adapter	3/8"	9x12			X	X

Preset Torque Wrenches

- Meets or exceeds ASME B107.300
- Accurate in clockwise direction +/- 3% from 20% to 100% of full scale

- Fixed Ratchet head or Square Drive receiver - 9x12mm and 14x18mm
- Matte chrome finish



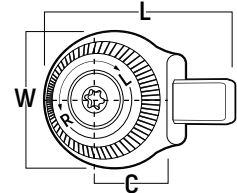
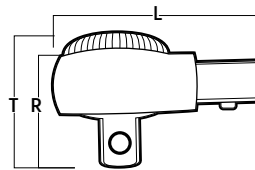
Cat. No.	Drive Size	Range	Range	Range	Tooth Count	Head Thickness (in)	Head Width (in)	Overall Length (in)	Product Weight (lbs)
85160	1/4"	1-5 Nm	9 - 44 in-lbs	1 - 4 ft-lbs	36	0.8	1.0	7.5	0.4
85161	3/8"	5-25 Nm	44 - 221 in-lbs	4 - 18 ft-lbs	36	1.0	1.0	8.5	0.5
85162	3/8"	10-50 Nm	89 - 442 in-lbs	7 - 37 ft-lbs	36	1.0	1.0	9.3	0.8
85163	1/2"	20-100 Nm	177 - 885 in-lbs	15 - 74 ft-lbs	36	1.3	1.3	12.4	1.4
85164	1/2"	40-200 Nm	354 - 1770 in-lbs	30 - 148 ft-lbs	36	1.3	1.3	18.2	2.7



Cat. No.	Adapter Size	Range	Range	Range	(°C) Overall Length (mm)	Product Weight (lbs)
89460	9x12mm	1-5 Nm	9 - 44 in-lbs	1 - 4 ft-lb	164	0.39
89461	9x12mm	5-25 Nm	44 - 221 in-lbs	4 - 18 ft-lb	189	0.44
89462	9x12mm	10-50 Nm	89 - 442 in-lbs	7 - 37 ft-lb	209	0.74
89463	9x12mm	20-100 Nm	177 - 885 in-lbs	15 - 74 ft-lb	289	1.23
89464	14 x18mm	40-200 Nm	354 - 1770 in-lbs	30 - 148 ft-lb	437	2.46

Ratchet Heads

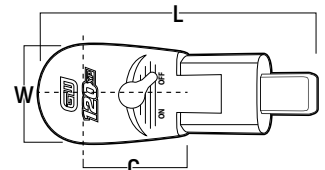
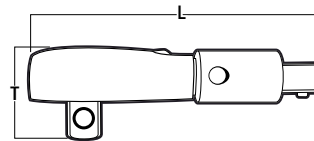
- Round Head Design
- 52 tooth 7-Degree Swing arc



Cat. No.	Adapter Type	Drive Size	Adapter Size	Center of Ratchet (in)	Tooth Count	Ratchet Thickness (in)	Head Thickness (in)	Head Width (mm)	(L) Overall Length (mm)	Product Weight (lbs)
89480	Ratcheting Head	1/4"	9x12mm	0.7	52	0.8	1.0	1.0	46	0.15
89482	Ratcheting Head	3/8"	9x12mm	0.7	52	1.3	1.1	1.4	51	0.31
89484	Ratcheting Head	1/2"	9x1mm	0.7	52	1.5	1.4	1.5	52	0.34
89485	Ratcheting Head	1/2"	14x18mm	1.0	52	1.7	1.6	1.6	72	0.66

120XP Ratchet Heads

- 120 position, 60-tooth double-pawl design delivers 3 degrees of swing arc
- Tear Drop Low profile head
- Flip Lever for quick forward and reverse

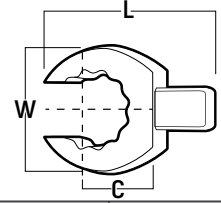
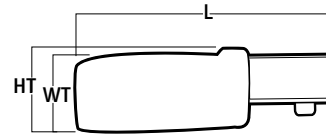


Cat. No.	Adapter Type	Drive Size	Adapter Size	Center of Ratchet (in)	Tooth Count	Head Thickness (in)	Head Width (mm)	Overall Length (in)	Product Weight (lbs)
89614	120XP Ratcheting Head	1/4"	9x12mm	1.5	60T/120 Pos.	0.9	1.0	2.6	0.2
89615	120XP Ratcheting Head	3/8"	9x12mm	1.5	60T/120 Pos.	1.1	1.3	2.8	0.4
89616	120XP Ratcheting Head	1/2"	14x18mm	2.0	60T/120 Pos.	1.5	1.7	3.8	0.9
89617	120XP Flex Ratcheting Head	1/4"	9x12mm	2.4	60T/120 Pos.	0.9	1.0	3.5	0.3
89618	120XP Flex Ratcheting Head	3/8"	9x12mm	2.4	60T/120 Pos.	1.1	1.3	3.6	0.5
89619	120XP Flex Ratcheting Head	1/2"	14x18mm	3.1	60T/120 Pos.	1.5	1.7	4.9	1.2

Flare Nut Adapters



- Open Box Flare Nut
- 12pt configuration
- Chrome Plated

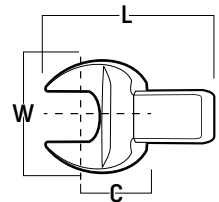
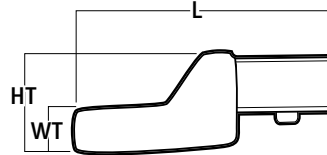


Cat. No.	Adapter Type	Size	Adapter Size	Center of Wrench (mm)	(WT) Wrench Thickness (mm)	Head Thickness (mm)	Head Width (mm)	Overall Length (mm)	Product Weight (lbs)
89590	Flare Nut	10mm	9x12	17.5	12	14.5	21.2	42.3	0.1
89591	Flare Nut	11mm	9x12	17.5	12	14.5	22.6	42.8	0.1
89592	Flare Nut	12mm	9x12	17.5	12	14.5	24.1	43.4	0.1
89593	Flare Nut	13mm	9x12	17.5	12	14.5	25.2	43.7	0.1
89594	Flare Nut	14mm	9x12	17.5	13	14.5	27.3	44.5	0.1
89595	Flare Nut	16mm	9x12	17.5	13	14.5	30.1	45.4	0.1
89596	Flare Nut	17mm	9x12	17.5	13	14.5	31.6	45.9	0.1
89597	Flare Nut	18mm	9x12	17.5	15	15	33.3	46.1	0.2
89598	Flare Nut	19mm	9x12	17.5	15	15	34.6	46.8	0.2
89599	Flare Nut	21mm	9x12	17.5	15	15	37.7	48	0.2
89600	Flare Nut	22mm	9x12	17.5	15	15	39.3	48.8	0.2
89601	Flare Nut	11/32"	9x12	17.5	8	14.7	17.6	42.5	0.1
89602	Flare Nut	3/8"	9x12	17.5	12	14.5	21.2	42.3	0.1
89603	Flare Nut	7/16"	9x12	17.5	12	14.5	22.6	42.8	0.1
89604	Flare Nut	1/2"	9x12	17.5	12	14.5	25.2	43.7	0.1
89605	Flare Nut	9/16"	9x12	17.5	13	14.5	27.3	44.5	0.1
89606	Flare Nut	5/8"	9x12	17.5	13	14.5	30.1	45.4	0.1
89607	Flare Nut	11/16"	9x12	17.5	15	15	33.3	46.1	0.2
89608	Flare Nut	3/4"	9x12	17.5	15	15	34.6	46.8	0.2
89609	Flare Nut	13/16"	9x12	17.5	15	15	37.7	48	0.2
89610	Flare Nut	7/8"	9x12	17.5	15	15	39.3	48.8	0.2
89611	Flare Nut	15/16"	9x12	25	15	21.5	38	60	0.2
89612	Flare Nut	1"	9x12	31	17.5	21.5	42	68	0.4

Open End Adapters



- Open end wrench style
- Chrome plated



Cat. No.	Adapter Type	Size	Adapter Size	Center of Wrench (mm)	Wrench Thickness (mm)	Head Thickness (mm)	Head Width (mm)	Overall Length (mm)	Product Weight (lbs)
89490	Open End	7mm	9x12	17.5	5.7	14.7	20.7	37.5	0.1
89491	Open End	8mm	9x12	17.5	5.7	14.7	22	37.9	0.1
89492	Open End	9mm	9x12	17.5	5.7	14.7	23.5	37.9	0.1
89493	Open End	10mm	9x12	17.5	5.7	14.7	24.8	39.9	0.1
89494	Open End	11mm	9x12	17.5	5.7	14.7	26	39.1	0.1
89495	Open End	12mm	9x12	17.5	5.7	14.7	27.5	38.8	0.1
89496	Open End	13mm	9x12	17.5	5.7	14.7	28.8	40	0.1
89497	Open End	14mm	9x12	20.0	7.7	14.7	31.5	43	0.1
89498	Open End	15mm	9x12	20.0	7.7	14.7	33.5	43.5	0.1
89499	Open End	16mm	9x12	20.0	7.7	14.7	36	44	0.1
89500	Open End	17mm	9x12	20.0	7.7	14.7	37.7	44	0.1
89501	Open End	18mm	9x12	20.0	7.7	14.7	39	45	0.2
89502	Open End	19mm	9x12	20	7.7	14.7	41.6	46	0.2

Open End Adapters continued

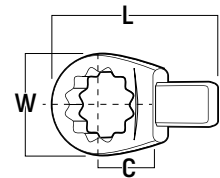
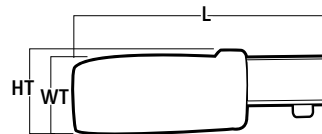


Cat. No.	Adapter Type	Size	Adapter Size	Center of Wrench (mm)	Wrench Thickness (mm)	Head Thickness (mm)	Head Width (mm)	Overall Length (mm)	Product Weight (lbs)
89503	Open End	17 mm	14x18	25	9	21.5	37.0	59.5	0.3
89504	Open End	18 mm	14x18	25	9	21.5	38.6	60.0	0.3
89505	Open End	19 mm	14x18	25	9	21.5	40.6	60.5	0.3
89506	Open End	21 mm	14x18	25	11	21.5	45.2	61.0	0.4
89507	Open End	22 mm	14x18	25	11	21.5	47.3	62.0	0.4
89508	Open End	24 mm	14x18	25	11	21.5	50.8	63.1	0.4
89509	Open End	27 mm	14x18	32.5	13.5	21.5	58.7	69.0	0.5
89510	Open End	30 mm	14x18	32.5	13.5	21.5	62.7	70.6	0.5
89511	Open End	32 mm	14x18	32.5	13.5	21.5	65.2	72.1	0.5
89512	Open End	5/16"	9x12	17.5	5.70	14.7	22.0	37.9	0.1
89513	Open End	11/32"	9x12	17.5	5.70	14.7	23.5	37.9	0.1
89514	Open End	3/8"	9x12	17.5	5.70	14.7	24.8	39.9	0.1
89515	Open End	7/16"	9x12	17.5	5.7	14.7	26.0	39.1	0.1
89516	Open End	1/2"	9x12	17.5	5.7	14.7	28.8	40.0	0.1
89517	Open End	9/16"	9x12	20	7.7	14.7	31.5	43.0	0.1
89518	Open End	5/8"	9x12	20	7.7	14.7	36.0	44.0	0.1
89519	Open End	11/16"	9x12	20	7.7	14.7	39.0	45.0	0.2
89520	Open End	3/4"	9x12	20	7.7	14.7	41.6	46.0	0.2
89521	Open End	13/16"	9x12	25	11	21.5	45.2	52.0	0.3
89522	Open End	7/8"	9x12	25	11	21.5	47.3	53.0	0.3
89523	Open End	15/16"	9x12	25	11	21.5	50.8	54.0	0.3
89524	Open End	11/16"	14x18	25	9	21.5	38.6	60.0	0.3
89525	Open End	3/4"	14x18	25	9	21.5	40.6	60.5	0.3
89526	Open End	13/16"	14x18	25	11	21.5	45.2	61.0	0.4
89527	Open End	7/8"	14x18	25	11	21.5	47.3	62.0	0.4
89528	Open End	15/16"	14x18	25	11	21.5	50.8	63.1	0.4
89529	Open End	1"	14x18	32.5	13.5	21.5	58.7	69.0	0.5
89530	Open End	1-1/6"	14x18	32.5	13.5	21.5	58.7	69.0	0.5
89531	Open End	1-1/8"	14x18	32.5	13.5	21.5	62.7	70.6	0.5
89532	Open End	1-3/16"	14x18	32.5	13.5	21.5	62.7	70.6	0.5
89533	Open End	1-1/4"	14x18	32.5	13.5	21.5	65.2	72.1	0.5

Box End Adapters



- Box End Style
- 12pt Configuration
- Chrome Plated



Cat. No.	Adapter Type	Size	Adapter Size	Center of Wrench (mm)	Wrench Thickness (mm)	Head Thickness (mm)	Head Width (mm)	Overall Length (mm)	Product Weight (lbs)
89540	12pt Box End	7mm	9x12	17.5	8.0	14.7	13.1	40.3	0.1
89541	12pt Box End	8mm	9x12	17.5	8.0	14.7	13.1	40.3	0.1
89542	12pt Box End	9mm	9x12	17.5	8.0	14.7	17.6	42.5	0.1
89543	12pt Box End	10mm	9x12	17.5	8.0	14.7	17.6	42.5	0.1
89544	12pt Box End	11mm	9x12	17.5	8.0	14.7	19	43.5	0.1
89545	12pt Box End	12mm	9x12	17.5	12.2	14.7	20.3	44.0	0.1
89546	12pt Box End	13mm	9x12	17.5	12.2	14.7	21.1	44.5	0.1

Box End Adapters continued



Cat. No.	Adapter Type	Size	Adapter Size	Center of Wrench (mm)	(WT) Wrench Thickness (mm)	(HT) Head Thickness (mm)	Head Width (mm)	Overall Length (mm)	Product Weight (lbs)
89547	12pt Box End	14 mm	9x12	17.5	12.2	14.7	23.4	45.5	0.1
89548	12pt Box End	15 mm	9x12	17.5	12.2	14.7	24.4	48.0	0.1
89549	12pt Box End	16 mm	9x12	17.5	13.2	14.7	26.4	47.0	0.1
89550	12pt Box End	17 mm	9x12	17.5	13.2	14.7	27.4	48.0	0.1
89551	12pt Box End	18 mm	9x12	17.5	13.2	14.7	28.9	48.3	0.1
89552	12pt Box End	19 mm	9x12	17.5	13.2	14.7	31.0	49.5	0.1
89553	12pt Box End	21 mm	9x12	17.5	14.7	14.7	33.4	50.5	0.2
89554	12pt Box End	22 mm	9x12	17.5	14.7	14.7	35.0	51.5	0.2
89555	12pt Box End	17 mm	14x18	25.0	12.5	21.5	27.5	64.0	0.3
89556	12pt Box End	18 mm	14x18	25.0	12.5	21.5	29.5	64.5	0.3
89557	12pt Box End	19 mm	14x18	25.0	12.5	21.5	31.0	66.0	0.3
89558	12pt Box End	21 mm	14x18	25.0	15.0	21.5	33.0	67.1	0.3
89559	12pt Box End	22 mm	14x18	25.0	15.0	21.5	35.0	68.1	0.3
89560	12pt Box End	24 mm	14x18	25.0	15.0	21.5	38.0	69.1	0.3
89561	12pt Box End	27 mm	14x18	31.0	17.5	21.5	42.0	77.3	0.4
89562	12pt Box End	30 mm	14x18	31.0	17.5	21.5	45.1	78.7	0.4
89563	12pt Box End	32 mm	14x18	31.0	17.5	21.5	48.0	79.8	0.4
89564	12pt Box End	5/16"	9x12	17.5	8.0	14.7	13.1	40.3	0.1
89565	12pt Box End	11/32"	9x12	17.5	8.0	14.7	17.6	42.5	0.1
89566	12pt Box End	3/8"	9x12	17.5	8.0	14.7	17.6	42.5	0.1
89567	12pt Box End	7/16"	9x12	17.5	8.0	14.7	19.0	43.5	0.1
89568	12pt Box End	1/2"	9x12	17.5	12.2	14.7	21.1	44.5	0.12
89569	12pt Box End	9/16"	9x12	17.5	12.2	14.7	23.4	45.5	0.11
89570	12pt Box End	5/8"	9x12	17.5	13.2	14.7	26.4	47.0	0.1
89571	12pt Box End	11/16"	9x12	17.5	13.2	14.7	28.9	48.3	0.1
89572	12pt Box End	3/4"	9x12	17.5	13.2	14.7	31.0	49.5	0.1
89573	12pt Box End	13/16"	9x12	17.5	14.7	14.7	33.4	50.5	0.2
89574	12pt Box End	7/8"	9x12	17.5	14.7	14.7	35.0	51.5	0.2
89575	12pt Box End	15/16"	9x12	25	15.0	21.5	38.0	60.0	0.3
89576	12pt Box End	1"	9x12	31.0	21.5	21.5	42.0	68.0	0.4
89577	12pt Box End	1-1/16"	9x12	31.0	21.5	21.5	42.0	68.0	0.4
89578	12pt Box End	1-1/8"	9x12	31.0	21.5	21.5	45.1	69.5	0.4
89579	12pt Box End	11/16"	14x18	25.0	21.5	21.5	29.5	64.5	0.3
89580	12pt Box End	3/4"	14x18	25	21.5	21.5	31	66.0	0.3
89581	12pt Box End	13/16"	14x18	25.0	21.5	21.5	33	67.1	0.3
89582	12pt Box End	7/8"	14x18	25.0	21.5	21.5	35	68.1	0.3
89583	12pt Box End	15/16"	14x18	25.0	21.5	21.5	38	69.1	0.3
89584	12pt Box End	1"	14x18	31.0	21.5	21.5	42.0	77.3	0.4
89585	12pt Box End	1-1/16"	14x18	31.0	17.5	21.5	42.0	77.2	0.4
89586	12pt Box End	1-1/8"	14x18	31.0	17.5	21.5	45.1	78.7	0.4
89587	12pt Box End	1-3/18"	14x18	31.0	17.5	21.5	45.1	78.7	0.4
89588	12pt Box End	1-1/4"	14x18	31.0	17.5	21.5	48.0	79.8	0.4

Torque Screwdrivers

89624
Torque
Screwdriver

• Comfort grip, high torque handle

• Accuracy to $\pm 6\%$

PRECISION FOR
 $\pm 6\%$
TORQUE ACCURACY

• Drive quick release adapter

• Locking sleeve device

• Meets or exceeds ASME B107.300

89625
Mini Torque
Screwdriver



Cat. No.	Description	Range	Increments	Accuracy	Handle Thickness (mm)	Handle Length (mm)	Overall Length (mm)	Product Weight (lbs)
89621	Torque Screwdriver (1/4")	1 - 6 Nm	0.1	$\pm 6\%$	37.0	95.0	195.0	0.8
89622	Torque Screwdriver (1/4")	21 -165 in-oz	0.01	$\pm 6\%$	37.0	95.0	180.0	0.8
89623	Torque Screwdriver (1/4")	5 - 25 in-lbs	0.5	$\pm 6\%$	37.0	95.0	195.0	0.8
89624	Torque Screwdriver (1/4")	10 to 50 in-lbs	1.0	$\pm 6\%$	37.0	95.0	195.0	0.8
89625	Mini Torque Screwdriver (5/32")	5-60 cNm	0.5	$\pm 6\%$	26.0	25.0	100.0	0.2

Torque Screwdriver Set

- Designed for electrical service and assembly applications
- Popular 10-50 in/lb torque driver
- Includes 1/4" quick release chuck
- Comes with 19 special length adapters as shown
- Meets or exceeds ASME B107.300
- Storage case included

WARNING: This is not an insulated tool. Grip is for comfort only and will not protect against electrical shock.



89620
Screwdriver Set

PRECISION FOR
 $\pm 6\%$
TORQUE ACCURACY

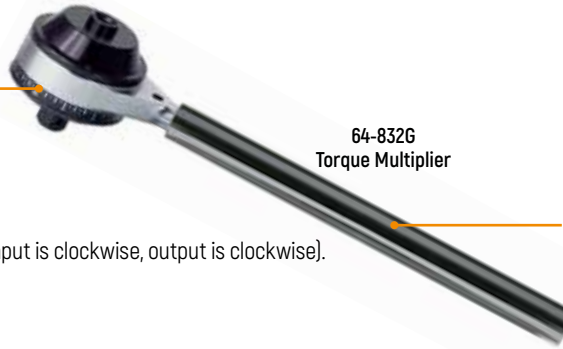
20 Piece Screwdriver Set Contents

Cat. No.	Type	Size	Overall Length (in)	Cat. No.	Type	Size	Overall Length (in)
89624	Torque Screwdriver (1/4")	10 - 50 in-lbs	195.0	89020 - 06	Square	#2	3.5
89020 - 01	Phillips	#1	3.5	89020 - 11	Square	#1	6.0
89020 - 02	Phillips	#2	3.5	89020 - 12	Square	#2	6.0
89020 - 07	Phillips	#1	6.0	89020 - 13	Nut Driver	3/16	6.0
89020 - 08	Phillips	#2	6.0	89020 - 14	Nut Driver	1/4	6.0
89020 - 03	Slotted	3/16	3.5	89020 - 15	Nut Driver	5/16	6.0
89020 - 04	Slotted	1/4	3.5	89020 - 16	Nut Driver	11/32	6.0
89020 - 09	Slotted	3/16	6.0	89020 - 17	Nut Driver	3/8	6.0
89020 - 10	Slotted	1/4	6.0	89020 - 18	Nut Driver	7/16	6.0
89020 - 05	Square	#1	3.5	89020 - 19	Nut Driver	1/2	6.0

Torque Multipliers



- Internal planetary gear system provides strength and durability



64-832G
Torque Multiplier

- Designed for high torque applications.
- Input and output rotation directions are the same (if input is clockwise, output is clockwise).
- Low input torque is required and can be applied easily by one person

Cat. No.	Input Drive	Output Drive	Max Input (ft-lbs)	Max Output (ft-lbs)	Gear Ratio	Torque Ratio	Torque Multiplier Type	Head Thickness [in]	Head Width [in]	Overall Length [in]	Product Weight [lbs]	Replacement Square Drive
64-830G	1/2"	3/4"	227	750	4.0:1	3.3:1	Reaction Bar	3.3	2.8	8.5	4.7	-
64-832G	1/2"	3/4"	200	1200	6.3:1	6.0:1	Reaction Bar	4.0	3.9	14.1	9.1	64-850G
64-833G	3/4"	1"	500	2000	4.7:1	3.5:1	Reaction Bar	4.5	3.8	19.5	14.0	-
64-834G	1/2"	1"	162	2200	15.0:1	13.6:1	Reaction Bar	5.7	4.0	20.0	20.6	64-851G
64-836G	1/2"	1"	173	3200	20.2:1	18.5:1	Reaction Bar	6.5	4.0	20.0	22.1	64-852G

Bench Top Torque Testers



- Designed for inspection of torque wrenches in production workshop
- Accuracy: +/-1%
- Three modes: Track, Peak, First Peak
- ft-lb, in-lb, Nm, and kg-cm
- Backlit display for dark conditions
- Four screw bolts that can be fixed on the workbench or other base plate

- Includes rechargeable lithium battery and AC/DC adapter
- Provides percentage error between the measured value and set value; no calculations needed
- 1500 data storage
- Data upload through the USB interface
- Auto shut-off after 10 minutes of inactivity
- Audible and visual alarm



89633
1/2" drive

Cat. No.	Drive Size	Primary Range	Accuracy	Height (in)	Width (in)	Depth (in)	Product Weight [lbs]
89631	1/4"	10 - 100 in-lbs (11 - 11.3 Nm)	+/- 1%	3.4	5.4	5.3	4.8
89632	3/8"	3 - 30 ft-lbs (4.1 - 40.7 Nm)	+/- 1%	3.4	5.4	5.3	5.7
89633	1/2"	10 - 100 ft-lbs (13.6 - 135.6 Nm)	+/- 1%	3.4	5.4	5.3	6.4
89634	1/2"	25 - 250 ft-lbs (33.9 - 339.0 Nm)	+/- 1%	3.4	5.4	5.3	6.8
89635	3/4"	75 - 750 ft-lbs (101.7 - 1016.9 Nm)	+/- 1%	3.4	5.4	5.3	7.5

Touch Screen and Transducer



- +/-0.5% accuracy within 10-100% of full load
- 7" color touch screen
- Three Modes: Track, Peak, First peak
- Three Interfaces: Regular, Preset, Curve
- Nm, cNm, kg-m, ck-gm, lb-ft, lb-in, oz-in
- Easy menu operation mode
- Upload data through the USB interface
- Compatible with 89640 Torque Testing Stand

- Automatically stores up to 15 test readings
- Stores 100 preset parameters
- Stores 5000 data points



89639
1/2" drive

Cat. No.	Drive Size	Primary Range	Accuracy	(A) Height (in)	(B) Width (in)	Depth (in)	Product Weight [lbs]
89636	1/4"	10 - 100 In-lbs (11 - 11.3 Nm)	+/- .5%	3.0	4.0	4.0	4.6
89637	3/8"	3.0 - 30 ft-lbs (4.1 - 40.7 Nm)	+/- .5%	3.0	4.0	4.0	5.1
89638	1/2"	10 - 100 ft-lbs (13.6 - 135.6 Nm)	+/- .5%	3.0	4.0	4.0	5.4
89639	1/2"	30 - 300 ft-lbs (40.7 - 406.7 Nm)	+/- .5%	3.0	4.0	4.0	5.6

Torque Testing Stand and Fixture



- Large diameter wheel for easy and smooth application
- Instrument rack tray is adjustable for ease of use
- Adjustable to accommodate different wrench lengths
- Torque tester not included



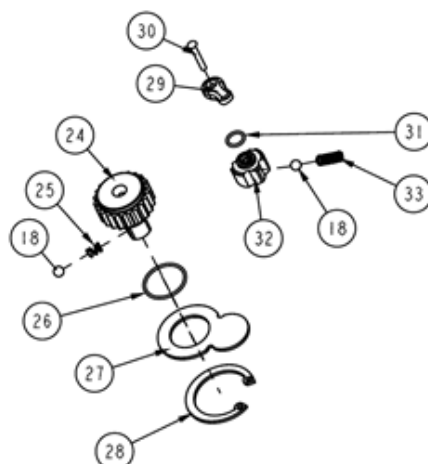
Cat. No.	Drive Size	Primary Range
89636	1/4"	10 - 100 In-lbs (11-113 Nm)
89637	3/8"	3.0 - 30 ft-lbs (41 - 40.7Nm)
89638	1/2"	10 - 100 ft-lbs (13.6 - 135.6 Nm)
89639	1/2"	30 - 300 ft-lbs (40.7 - 406.7 Nm)

Cat. No.	Drive Size	Height (in)	Width (in)	Length (in)	Product Weight (lbs)
89640	1/4", 3/8" & 1/2"	23.2	11.4	33.9	71.7

Torque Wrench Replacement Parts

Wrench No.	Description	Kit Cat. No.
120XP Torque Wrench Repair Kits		
85171	WR TRQ Micro 1/4" DR. 30-200 in/lb 120XP	81099P
85176	WR TRQ Micro 3/8" DR. 10-100FT/LB 120XP	81227P
85181	WR TRQ Micro 1/2" DR. 30-250FT/LB 120XP	81339P
85174	WR TRQ Micro 3/8" DR. 30-250 IN 120XP	81227P
85180	WR TRQ Micro 1/2" DR. 20-150 FT 120XP	81339P
85188	TRQ WR Flex Head 3/8" DR. 10-100 FT-LB 120XP	81227P
85189	TRQ WR Flex Head 1/2" DR. 30-250FT-LB 120XP	81339P
Standard Torque Wrenches		
85060	WR TRQ Micro 1/4" DR. 30-200 IN/LB	89224
85061	WR TRQ Micro 3/8" DR. 30-250FT/LB	89225
85062	WR TRQ Micro 3/8" DR. 10-100FT/LB	89225
85063	WR TRQ Micro 1/2" DR. 20-150 FT	89226
85066	WR TRQ Micro 1/2" DR. 30-250 FT	89226
85086	TRQ WR FLEX HEAD 3/8" DR. 5-75 FT-LB	89225
85087	TRQ WR FLEX HEAD 1/2" DR. 30-250 FT-LB	89228
85088	TRQ WR TIRE SHOP 1/2" DR. 30-250 FT-LB	89226
85065	TRQ WR Micro 3/4" DR. 100-600 FT LB	89227

Wrench No.	Description	Kit Cat. No.
E-Spec Torque Wrenches		
85235	1/4" DR. 5-25NM FIXED HEAD E-SPEC ETW	81099P
85236	3/8" DR. 14 - 272 NM FIXED HEAD E-SPEC ETW	81227P
85237	3/8" DR. 20-100NM FIXED HEAD E-SPEC ETW	81339P
85238	1/2" DR. 68-340 NM FIXED HEAD E-SPEC ETW	81227P
85235-01	1/4" DR. 5-25NM FIXED HEAD E-SPEC ETW - ONLY	81099P
85236-01	3/8" DR. 14 - 272 NM FIXED HEAD E-SPEC ETW - ONLY	81227P
85237-01	3/8" DR. 20-100NM FIXED HEAD E-SPEC ETW - ONLY	81339P
85238-01	1/2" DR. 68-340 NM FIXED HEAD E-SPEC ETW - ONLY	81227P
Interchangeable Ratchet Heads		
89614	120XP RATCHETING HEAD 1/4" DR. 9X12	81099P
89615	120XP RATCHETING HEAD 3/8" DR. 9X12	81227P
89616	120XP RATCHETING HEAD 1/2" DR. 14X8	81339P
89617	120XP FLEX RATCHETING HEAD 1/4" DR. 9X12	81099P
89618	120XP FLEX RATCHETING HEAD 3/8" DR. 9X12	81227P
89619	120XP FLEX RATCHETING HEAD 1/2" DR. 14X18	81339P



Torque Conversion Charts

In the International Metric System, there is a term for "force" called the "Newton," which is defined as "the force necessary to move one kilogram one meter per second." Therefore, with torque being "Force X Length," the International Metric System measure torque in "Newton metres" (N m).

From ft lb to N m

	0	1	2	3	4	5	6	7	8	9
ft lb	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m
0	0	1.36	2.71	4.07	5.42	6.78	8.13	9.49	10.84	12.20
10	13.56	14.91	16.27	17.62	18.98	20.33	21.69	23.05	24.40	25.76
20	27.11	28.47	29.83	31.18	32.54	33.89	35.25	36.61	37.97	39.32
30	40.67	42.02	43.38	44.73	46.09	47.45	48.80	50.16	51.51	52.87
40	54.22	55.58	56.94	58.29	59.65	61.00	62.36	63.71	65.07	66.42
50	67.78	69.14	70.49	71.85	73.20	74.56	75.91	77.27	78.62	79.98
60	81.33	82.69	84.05	85.40	86.76	88.11	89.47	90.83	92.18	93.54
70	94.89	96.25	97.60	98.96	100.31	101.67	103.03	104.38	105.74	107.09
80	108.45	109.80	111.16	112.51	113.87	115.23	116.58	117.94	119.29	120.65
90	122.00	123.36	124.72	126.07	127.43	128.78	130.14	131.49	132.85	134.20
100	135.56									

$$\text{ft lb} \times 1.3558 = \text{N m}$$

From in lb to N m

	0	1	2	3	4	5	6	7	8	9
in lb	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m
0	0	.113	.226	.339	.452	.565	.678	.791	.904	1.02
10	1.13	1.24	1.36	1.47	1.58	1.70	1.81	1.92	2.03	2.15
20	2.26	2.37	2.49	2.60	2.71	2.83	2.94	3.05	3.16	3.28
30	3.39	3.50	3.62	3.73	3.84	3.96	4.07	4.18	4.29	4.41
40	4.52	4.63	4.75	4.86	4.97	5.09	5.20	5.31	5.42	5.54
50	5.65	5.76	5.88	5.99	6.10	6.22	6.33	6.44	6.55	6.67
60	6.78	6.89	7.01	7.12	7.23	7.35	7.46	7.57	7.68	7.80
70	7.91	8.02	8.14	8.25	8.36	8.48	8.59	8.70	8.81	8.93
80	9.04	9.15	9.27	9.38	9.49	9.61	9.72	9.83	9.94	10.06
90	10.17	10.28	10.40	10.51	10.62	10.74	10.85	10.96	11.07	11.19
100						11.30				

$$\text{in lb} \times .1130 = \text{N m}$$

From in oz to N m

	0	1	2	3	4	5	6	7	8	9
in oz	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m
0	0	.007	.014	.021	.028	.035	.042	.049	.056	.064
10	.071	.078	.085	.092	.098	.106	.113	.120	.127	.134
20	.141	.148	.155	.162	.169	.177	.184	.191	.198	.205
30	.212	.219	.226	.232	.240	.247	.254	.261	.268	.275
40	.282	.289	.297	.304	.312	.318	.325	.332	.339	.346
50	.353	.360	.367	.374	.381	.388	.395	.402	.409	.417
60	.424	.431	.438	.445	.452	.459	.466	.473	.480	.487
70	.494	.501	.508	.515	.522	.530	.537	.544	.551	.558
80	.565	.572	.579	.586	.593	.600	.607	.624	.621	.628
90	.635	.642	.650	.657	.664	.671	.678	.685	.692	.699
100						.706				

$$\text{in oz} \times .00706 = \text{N m}$$

From m kg to N m

	0	1	2	3	4	5	6	7	8	9
m kg	N m	N m	N m	N m	N m	N m	N m	N m	N m	N m
0	0	9.81	19.61	29.42	39.23	49.03	58.84	68.65	78.45	88.26
10	98.07	107.87	117.68	127.49	137.30	147.10	156.90	166.71	176.52	186.33
20	196.13	205.94	215.75	225.55	235.36	245.17	254.98	264.78	274.59	284.40
30	294.20	304.00	313.81	323.62	333.43	343.23	353.04	362.85	372.65	382.46
40	392.27	402.07	411.88	421.69	431.49	441.30	451.11	460.91	470.72	480.53
50	490.33	500.14	509.95	519.75	529.56	539.37	549.17	558.98	568.79	578.60
60	588.40	598.21	608.01	617.82	627.63	637.43	647.24	657.05	666.86	676.66
70	686.47	696.27	706.08	715.89	725.70	735.50	745.30	755.11	764.92	774.73
80	784.53	794.34	804.15	813.95	823.76	833.57	843.37	853.18	862.99	872.79
90	882.60	892.41	902.21	912.02	921.83	931.63	941.44	951.25	961.05	970.86
100						980.67				

$$\text{m kg (or m kp)} = 9.80665 \text{ N m}$$

From N m to ft lb

	0	1	2	3	4	5	6	7	8	9
N m	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb
0	0	.74	1.48	2.21	2.95	3.69	4.43	5.16	5.90	6.64
10	7.38	8.11	8.85	9.59	10.33	11.06	11.80	12.54	13.28	14.01
20	14.75	15.49	16.23	16.96	17.70	18.44	19.18	19.91	20.65	21.39
30	22.13	22.86	23.60	24.34	25.08	25.81	26.55	27.29	28.03	28.76
40	29.50	30.24	30.98	31.72	32.45	33.19	33.93	34.67	35.40	36.14
50	36.88	37.62	38.35	39.09	39.83	40.57	41.30	42.04	42.78	43.52
60	44.25	44.99	45.73	46.47	47.20	47.94	48.68	49.42	50.15	50.89
70	51.63	52.37	53.10	53.84	54.58	55.32	56.05	56.79	57.53	58.27
80	59.00	59.74	60.48	61.22	61.96	62.69	63.43	64.17	64.91	65.64
90	66.38	67.12	67.86	68.59	69.33	70.07	70.81	71.54	72.28	73.02
100					73.76					

$$1 \text{ N m} = 0.73756 \text{ ft lb}$$

From N m to in lb

	0	1	2	3	4	5	6	7	8	9
N m	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb
0	0	8.85	17.70	26.55	35.40	44.25	53.10	61.95	70.81	79.66
10	88.51	97.36	106.21	115.06	123.91	132.76	141.61	150.46	159.31	168.16
20	177.01	185.86	194.72	203.57	212.42	221.27	230.12	238.98	247.82	256.67
30	265.52	274.38	283.22	292.07	300.92	309.77	318.62	327.48	336.33	345.18
40	354.03	362.88	371.73	380.58	389.43	398.28	407.13	415.98	424.83	433.68
50	442.53	451.36	460.24	469.09	477.94	486.79	495.64	504.49	513.34	522.19
60	531.04	539.89	548.74	557.59	566.44	575.30	584.15	592.10	601.85	610.70
70	619.55	628.40	637.25	646.10	654.95	663.80	672.65	681.50	690.35	699.20
80	708.06	716.91	725.76	734.61	743.46	752.31	761.16	770.01	778.86	787.71
90	796.56	805.41	814.26	823.12	831.97	840.82	849.67	858.52	867.37	876.22
100					885.07					

$$\text{N m} \times 8.8507 = \text{in lb}$$

From N m to in oz

	0	1	2	3	4	5	6	7	8	9
N m	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz
0	0	142	283	425	566	708	850	991	1133	1274
1	1416	1558	1699	1841	1983	2124	2266	2407	2549	2691
2	2832	2974	3115	3257	3399	3540	3682	3823	3965	4107
3	4248	4390	4532	4673	4815	4956	5098	5240	5381	5523
4	5664	5806	5948	6089	6231	6372	6514	6656	6797	6939
5	7081	7222	7364	7505	7647	7789	7930	8072	8213	8355
6	8497	8641	8780	8921	9063	9205	9346	9488	9630	9771
7	9913	10054	10196	10338	10479	10621	10762	10904	11046	11187
8	11329	11470	11612	11754	11895	12037	12179	12320	12462	12603
9	12745	12887	13028	13170	13311	13453	13595	13736	13878	14019
10					14161					

$$.01 \text{ N m} \times 141.6112 = .01 \text{ in oz}$$

From N m to m kg

	0	1	2	3	4	5	6	7	8	9
N m	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg
0	0	.102	.204	.306	.408	.510	.611	.714	.816	.918
10	1.020	1.122	1.224	1.326	1.428	1.530	1.632	1.733	1.835	1.937
20	2.039	2.141	2.243	2.345	2.447	2.549	2.651	2.753	2.855	2.957
30	3.059	3.161	3.263	3.365	3.467	3.569	3.671	3.773	3.875	3.977
40	4.079	4.181	4.283	4.385	4.487	4.589	4.691	4.793	4.895	4.997
50	5.099	5.200	5.302	5.404	5.506	5.608	5.710	5.812	5.914	6.016
60	6.118	6.220	6.322	6.424	6.526	6.628	6.730	6.832	6.934	7.036
70	7.138	7.240	7.342	7.444	7.546	7.648	7.750	7.852	7.954	8.056
80	8.158	8.260	8.362	8.464	8.566	8.668	8.769	8.871	8.973	9.075
90	9.177	9.279	9.381	9.483	9.585	9.687	9.789	9.891	9.993	10.095
100	10.197									

$$\text{N m} \times .10197 = \text{m kg (or m kp)}$$

Torque Conversion Charts

NOTE: A meter kilogram is equal to a meter kilopond. (1m kg = 1m kp)

From in lb to in oz											
	0	1	2	3	4	5	6	7	8	9	
in lb	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz	in oz
0	0	16	32	48	64	80	96	112	128	144	
10	160	176	192	208	224	240	256	272	288	304	
20	320	336	352	368	384	400	416	432	448	464	
30	480	496	512	528	544	560	576	592	608	624	
40	640	656	672	688	704	720	736	752	768	784	
50	800	816	832	848	864	880	896	912	928	944	
60	960	976	992	1008	1024	1040	1056	1072	1088	1104	
70	1120	1236	1152	1168	1184	1200	1216	1232	1248	1264	
80	1280	1296	1312	1328	1344	1360	1376	1392	1408	1424	
90	1440	1456	1472	1488	1504	1520	1536	1552	1568	1584	
100	1600										
in lb X 16 = in oz											

From ft lb to in lb											
	0	1	2	3	4	5	6	7	8	9	
ft lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb
0	0	12	24	36	48	60	72	84	96	108	
10	120	132	144	156	168	180	192	204	216	228	
20	240	252	264	276	288	300	312	324	336	348	
30	360	372	384	396	408	420	432	444	456	468	
40	480	492	504	516	528	540	552	564	576	588	
50	600	612	624	636	648	660	672	684	696	708	
60	720	732	744	756	768	780	792	804	816	828	
70	840	852	864	876	888	900	912	924	936	948	
80	960	972	984	996	1008	1020	1032	1044	1056	1068	
90	1080	1092	1104	1116	1128	1140	1152	1164	1176	1188	
100						1200					
ft lb X 12 = in lb											

From in lb to cm kg											
	0	1	2	3	4	5	6	7	8	9	
in lb	cm kg	cm kg	cm kg	cm kg	cm kg	cm kg	cm kg	cm kg	cm kg	cm kg	cm kg
0	0	1.52	2.304	3.456	4.608	5.760	6.912	8.064	9.217	10.36	
10	11.52	12.67	13.83	14.97	16.13	17.28	18.43	19.59	20.74	21.89	
20	23.04	24.19	25.35	26.49	27.65	28.80	29.96	31.07	32.26	33.41	
30	34.56	35.71	36.87	38.02	39.17	40.32	41.47	42.62	43.77	44.93	
40	46.09	47.23	48.39	49.54	50.69	51.85	52.99	54.14	55.29	56.45	
50	57.61	58.75	59.90	61.06	62.21	63.37	64.51	65.66	66.81	67.96	
60	69.13	70.27	71.42	72.57	73.73	74.89	76.03	77.18	78.33	79.49	
70	80.65	81.79	82.94	84.09	85.24	86.40	87.55	88.70	89.85	91.00	
80	92.17	93.32	94.47	95.62	96.78	97.93	99.08	100.2	101.4	102.6	
90	103.7	104.9	106.1	107.2	108.3	109.5	110.7	111.8	112.9	114.1	
100						115.2					
in lb X 1.152 = cm kg											

From ft lb to m kg											
	0	1	2	3	4	5	6	7	8	9	
ft lb	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg	m kg
0	0	.138	.276	.415	.553	.691	.830	.968	1.106	1.245	
10	1.383	1.521	1.660	1.798	1.936	2.074	2.212	2.351	2.489	2.628	
20	2.766	2.904	3.043	3.181	3.319	3.457	3.596	3.734	3.872	4.011	
30	4.149	4.287	4.426	4.564	4.702	4.840	4.979	5.117	5.255	5.394	
40	5.532	5.670	5.809	5.947	6.085	6.223	6.362	6.500	6.638	6.777	
50	6.915	7.053	7.191	7.330	7.468	7.606	7.745	7.883	8.021	8.159	
60	8.298	8.436	8.574	8.713	8.851	8.989	9.128	9.266	9.404	9.543	
70	9.681	9.819	9.957	10.09	10.23	10.37	10.51	10.65	10.79	10.92	
80	11.06	11.20	11.34	11.48	11.62	11.75	11.89	12.03	12.17	12.31	
90	12.45	12.59	12.73	12.86	13.00	13.14	13.28	13.42	13.55	13.69	
100						13.83					
ft lb X .1383 = m kg											

From in oz to in lb											
	0	1	2	3	4	5	6	7	8	9	
in oz	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb
0	0	.063	.125	.188	.250	.313	.375	.438	.500	.563	
10	.625	.688	.750	.813	.875	.938	1.000	1.063	1.125	1.188	
20	1.250	1.313	1.375	1.438	1.500	1.563	1.625	1.688	1.750	1.813	
30	1.875	1.938	2.000	2.063	2.125	2.188	2.250	2.313	2.375	2.438	
40	2.500	2.563	2.625	2.688	2.750	2.813	2.875	2.938	3.000	3.063	
50	3.125	3.188	3.250	3.313	3.375	3.438	3.500	3.563	3.625	3.688	
60	3.750	3.813	3.875	3.938	4.000	4.063	4.125	4.188	4.250	4.313	
70	4.375	4.438	4.500	4.563	4.625	4.688	4.750	4.813	4.875	4.938	
80	5.000	5.063	5.125	5.188	5.250	5.313	5.375	5.438	5.500	5.563	
90	5.625	5.688	5.750	5.813	5.875	5.938	6.000	6.063	6.125	6.188	
100						6.250					
in oz ÷ 16 = in lb											

From in lb to ft lb											
	0	1	2	3	4	5	6	7	8	9	
in lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb
0	0	.083	.167	.250	.333	.417	.500	.583	.667	.750	
10	.833	.917	1.000	1.083	1.167	1.250	1.333	1.417	1.500	1.583	
20	1.667	1.750	1.833	1.917	2.000	2.083	2.167	2.250	2.333	2.417	
30	2.500	2.583	2.667	2.750	2.833	2.917	3.000	3.083	3.167	3.250	
40	3.333	3.417	3.500	3.583	3.667	3.750	3.833	3.917	4.000	4.083	
50	4.167	4.250	4.333	4.417	4.500	4.583	4.667	4.750	4.833	4.917	
60	5.000	5.083	5.167	5.250	5.333	5.417	5.500	5.583	5.667	5.750	
70	5.833	5.917	6.000	6.083	6.167	6.250	6.333	6.417	6.500	6.583	
80	6.667	6.750	6.833	6.917	7.000	7.083	7.167	7.250	7.333	7.417	
90	7.500	7.583	7.667	7.750	7.833	7.917	8.000	8.083	8.167	8.250	
100						8.333					
in lb ÷ 12 = ft lb											

From cm kg to in lb											
	0	1	2	3	4	5	6	7	8	9	
cm kg	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb	in lb
0	0	.868	1.735	2.603	3.471	4.339	5.206	6.074	6.942	7.809	
10	8.677	9.545	10.412	11.280	12.148	13.016	13.883	14.751	15.619	16.486	
20	17.354	18.222	19.089	19.957	20.825	21.693	22.560	23.428	24.296	25.163	
30	26.031	26.899	27.766	28.634	29.502	30.370	31.237	32.105	32.973	33.840	
40	34.708	35.576	36.443	37.311	38.179	39.047	39.914	40.782	41.650	42.517	
50	43.385	44.253	45.120	45.988	46.856	47.724	48.591	49.459	50.327	51.194	
60	52.062	52.930	53.797	54.665	55.533	56.401	57.268	58.136	59.004	59.871	
70	60.739	61.607	62.474	63.342	64.210	65.078	65.945	66.813	67.681	68.548	
80	69.416	70.284	71.151	72.019	72.887	73.754	74.622	75.490	76.358	77.225	
90	78.093	78.961	79.828	80.696	81.564	82.432	83.299	84.167	85.035	85.902	
100						86.770					
cm kg X .8677 = in lb											

From m kg to ft lb											
	0	1	2	3	4	5	6	7	8	9	
m kg	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb	ft lb
0	0	7.23	14.47	21.70	28.93	36.17	43.40	50.63	57.86	65.10	
10	72.4	79.6	86.8	94.0	101.3	108.5	115.7	123.0	130.2	137.4	
20	144.7	151.9	159.1	166.4	173.6	180.8	188.1	195.3	202.5	209.8	
30	217.0	224.2	231.5	238.7	245.9	253.2	260.4	267.6	274.9	284.1	
40	289.3	296.6	303.9	311.0	318.3	325.5	332.7	340.0	347.2	354.4	
50	361.7	368.9	376.1	383.3	390.6	397.8	405.0	412.3	419.5	426.7	
60	434.0	441.2	448.4	455.7	462.9	470.1	477.4	484.6	491.8	499.1	
70	506.3	513.5	520.8	528.0	535.2	542.5	549.7	556.9	564.2	571.4	
80	578.6	585.9	593.1	600.3	607.6	614.8	622.0	629.3	636.5	643.7	
90	651.0	658.2	665.4	672.7	679.9	687.1	694.4	701.6	708.8	716.1	
100	723.3										
m kg X 7.233 = ft lb											

Warranty Information

GEARWRENCH branded torque wrenches have a one year limited part warranty. Accuracy standards for calibration are warranted for 90 days from the date of the buyer delivery.

Apex Tool Group offers a comprehensive warranty and service plan with exclusive torque wrench repair partners for all GEARWRENCH and previously Apex Tool Group manufactured torque wrenches.

Repair, Service, and Warranty Repair Partners are listed on GEARWRENCH.com

Warranty within warranty period: [1 year part warranty]

Repair Center will determine if wrench can be repaired. If wrench is determined to be unrepairable or parts are no longer available, a new wrench at same or equivalent value will be provided. Wrenches found to be misused or abused are not covered under this warranty.

Repair outside of warranty:

Repair Center will determine if wrench can be repaired. If not, Customers will be offered the opportunity to purchase a new GEARWRENCH branded Torque Wrench of equal value at a special replacement price. Any current or previously Apex Manufactured Torque Wrenches are covered under this plan. Repair Center will determine and advise of eligibility.

Wrenches found to be misused or abused are not covered under this warranty. Transactions for the purchase or repair of new Torque Wrenches are between the Customer and Repair Center.

Recalibration:

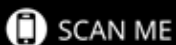
Apex Tool Group, will continue to offer a recalibration service through our exclusive Repair centers below. Wrenches found to be outside of calibration within 90 days from date of the buyer delivery will be recalibrated at no charge. Service Centers offer recalibration at cost outside of warranty.

For all warranty, calibration, and repair information, please visit GEARWRENCH.com.



Apex Tool Group provides additional Calibration Service and Certificate. When placing order, see SKU's with the suffix "CERT".

TORQUE LANDING PAGE



GW LANDING PAGE

