

# TORQUE WRENCHES

Gray Tools offers a range of professional quality torque wrenches from ¼" drive to 1" drive, micrometer type, dial type, torque limiting screwdrivers and torque multipliers up to 3,200 ft./lbs. Gray Tools torque products are 100% quality tested at the time of manufacturing and are manufactured to the ANSI B107.14 specifications, US Federal Specification GGG-W-686 and ISO Standard 6789. The quality standards permits the torque accuracy to be within ±3% for micrometer style torque wrenches and 2% accuracy with dial type torque wrenches when the wrench is used within the 20-100% rated capacity.

For ISO 9000 and QS 9000 customers, calibration certificates are available for an additional charge. Gray Tools offers a 1 year limited warranty on manufacturing defects from date of purchase. Annual calibration and a scheduled maintenance program is highly recommended.

## FEATURES

- Operates and ratchets in both left and right hand directions. May be used for uncontrolled wrenching as long as torque does not exceed maximum capacity.
- Lock ring prevents accidental change of torque setting.
- Durable aluminum handle features an easy to grip diamond knurl surface and scratch resistant anodized coating.
- Ratchet reverses easily - has positive locking action.
- May be used continually at maximum torque capacity.
- Ratchet action requires only 10° of handle travel.
- Mechanism protected from routine contamination.
- Wrench made of highest quality heat-treated steel.
- Finished with tough, durable chromium-nickel plating.
- Can be used with confidence in all automotive, aircraft, marine and industrial applications.

## SUGGESTIONS

- **DO NOT OVERTORQUE !**
- Do not break fasteners loose.
- Do not replace worn parts individually, use entire contents of repair kit.
- Greater torque accuracy is assured by gripping it properly. Grasp the GRIP, not the SHAFT, and pull smoothly.
- Never attempt to turn the GRIP when the LOCK RING is in the "LOCK" position.
- Each torque wrench is lubricated before leaving the factory. If it has not been used for some time, it should be operated several times to re-distribute the lubricant within the working mechanism.
- Return adjustment to lowest settings after use.
- Periodically calibrate.
- Clean and lubricate ratchet assembly with light oil.

## Certificate of Calibration



Model No.: **DIN75A** Serial Number: **18005670518**  
 Type: **Micrometer adjustable**  
 Range: **15.00 ft.-lb. - 75.00 ft.-lb.** Calibration Equipment: **CDI Digitest**  
 Manufacturer: **Gray Hand Tool Sales Ltd.** Accuracy of Calibration: **± 0.25%**  
 Set Torque (ft.-lb.) Readings (ft.-lb.)

### Clockwise Torque (Tolerance: ± 4.0%)

15.00	15.08	0.5%	15.16	1.1%	15.13	0.9%
45.00	45.71	1.6%	45.46	1.0%	45.46	1.0%
75.00	77.13	2.8%	76.48	2.0%	76.48	2.0%

### Counterclockwise Torque (Tolerance: ± 6.0%)

15.00	14.94	-0.4%	14.99	-0.1%	14.91	-0.6%
45.00	44.74	-0.6%	44.74	-0.6%	44.89	-0.2%
75.00	74.54	-0.6%	75.36	0.5%	75.11	0.1%

Result: Measured values are within tolerance according to ASME B107.14M-1994 for Type II, Class A, Style 1&2, Design A

Date: Operator: **Winston Mugford** Supervisor:

Calibration is performed by comparison with reference standards which have been calibrated by a recognized NIST-laboratory and are therefore traceable to the National Institute of Standards and Technology. The issuer of this certificate bears sole responsibility for calibration and documentation thereof. Duplication of this certificate or parts hereof is prohibited.

## CERTIFICATION

This torque wrench was calibrated prior to shipment from the factory within tolerance limits of ± 3% clockwise (right-handed) accuracy within upper 80% of range.

## LIMITED WARRANTY

Until one year from date of purchase, we will repair any defect in material or workmanship free of charge. Improper use of these products, including but not limited to the application of excessive force, will effect performance and may result in injury. The warranty does not apply to wrenches which do not function properly or within specified accuracy because of wear, improper or unreasonable use, damage not resulting from defect or malfunction, or which have been altered. Calibration is warranted for 90 days.

*For repair or calibration send torque wrench, postage prepaid, to:*

**Gray Hand Tool Sales Inc.**  
 Attn: Repair Department  
 299 Orenda Road  
 Brampton, Ontario  
 L6T 1E8

Factory certification included with all micrometer torque wrenches.



### 1/4" Micro-adjustable, Click-Type

Square Drive	Part No.	Capacity in. lb. (Nm)	Increments in. lb. (Nm)	Head Style	Length
1/4"	<b>71200</b>	30-200 (3.96-23.16)	1 (0.11)	Fixed Ratchet	10 1/4"

Torques both directions with quick release  
Includes Custom Molded Plastic Case



### 3/8" Micro-adjustable, Click-Type

Square Drive	Part No.	Capacity in. lb. (Nm)	Increments in. lb. (Nm)	Head Style	Length
3/8"	<b>72250</b>	50-250 (6.22-28.85)	1 (0.11)	Fixed Ratchet	10"

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Head Style	Length
3/8"	* <b>72075</b>	5-75 (10.1-105.1)	0.5 (0.7)	Flex Ratchet	17 5/8"
3/8"	* <b>72100</b>	10-100 (16.9-138.9)	0.5 (0.7)	Fixed Ratchet	17 3/4"

Torques both directions \* with quick release  
Includes Custom Molded Plastic Case



### 1/2" Micro-adjustable, Click-Type

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Head Style	Length
1/2"	<b>73250</b>	25-250 (43.4-348.4)	1 (1.4)	Fixed Ratchet	21 3/4"
1/2"	<b>73251</b>	25-250 (43.4-348.4)	1 (1.4)	Flex Ratchet	22 1/2"

Torques both directions with quick release  
Includes Custom Molded Plastic Case



### 3/4" & 1" Micro-adjustable, Click-Type

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Head Style	Length
3/4"	* <b>74600</b>	100-600 (153-830)	2.5 (3.4)	Round Head Fixed	41 1/4"
3/4"	* <b>MFR600HD</b>	100-600 (153-830)	5 (7)	Tear Drop Head Fixed	43"
1"	** <b>MF2000</b>	300-2,000 (474-2700)	10 (13.5)	Plain Head	109"

\*\* Torques both directions

\* Includes Custom Molded Plastic Case

All torque wrenches meet or exceed Federal Spec. GGG-W-00686C. ANSI/ASME B107.14M ISO 6789

# TORQUE WRENCHES



## Dial Type with Memory Needle - Inch Pound

Square Drive	Part No.	Capacity in. lb. (Nm)	Increments in. lb. (Nm)	Length
1/4"	<b>DIN75A</b>	0-75 (0-9)	0.5 (0.25)	10"
3/8"	<b>DIN250A</b>	0-250 (0-30)	5 (0.5)	12 1/4"
3/8"	<b>DIN600A</b>	0-600 (0-70)	10 (2)	12 1/4"

Includes Custom Molded Plastic Case



## Dial Type With Memory Needle - Foot Pound

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Length
3/8"	<b>DFN50A</b>	0-50 (0-70)	1 (2)	12"
1/2"	<b>DFN250A</b>	0-250 (0-350)	5 (10)	20 1/2"
1"	<b>**DFE1000</b>	0-1000 (0-1,400)	20 (25)	74"

\*\* Electric Light and Audible Buzzer in Metal Box

Includes Custom Molded Plastic Case



## Torque Screwdriver - Micrometer Adjustable

Part No.	Capacity in. lb.	Female Hex	Increments in. lbs.	Length in.	Width in.
<b>SM40</b>	5-40	1/4"	.5	5	1.2

Part No.	Capacity in. oz.	Female Hex	Increments in. oz.	Length in.	Width in.
<b>SM100</b>	20-100	1/4"	1	3.8	1.1



TM2200



TM1200



TM750A

## Torque Multipliers

Part No.	Input Drive	Output Drive	Max Input Torque ft. lb. (Nm)	Max Output Torque ft. lb. (Nm)	Torque Ratio	Length in. (mm)	Weight with Case	Accuracy	Overload Protection	Anti Backlash
<b>TM750A</b>	1/2" F	3/4" M	750	1017	3.3:1	8.6 (218)	4.0	+/- 5%	No	No
<b>TM1200*</b>	1/2" F	3/4" M	1200	1627	6.0:1	14.1.(358)	12.5	+/- 5%	Yes	No
<b>TM2200*</b>	1/2" F	1" M	2200	1627	13.6:1	19.6 (498)	15.2	+/- 5%	Yes	Yes
<b>TM3200*</b>	1/2" F	1" M	3200	4339	18.5:1	19.6 (498)	19.9	+/- 5%	Yes	Yes

\* Includes Custom Molded Plastic Case