



## 3/8" SQUARE DRIVE TORQUE WRENCH

MODEL: CHT204

0504

Thank you for purchasing this CLARKE Torque Wrench.

This torque wrench is designed to tighten nuts with precision. It should NOT be used for UNDOING nuts, as severe damage could occur. With correct use, this tool will produce an accuracy of plus or minus 4%. You can hear and feel when the desired torque setting has been reached. With careful and considerate use, the wrench will give years of reliable service.

### GUARANTEE

This product is guaranteed against faults in manufacture for 12 months from purchase date. Keep your receipt as proof of purchase. This guarantee is invalid if the product has been abused or tampered with in any way, or not used for the purpose for which it is intended. The reason for return must be clearly stated. This guarantee does not affect your statutory rights.

### OPERATION

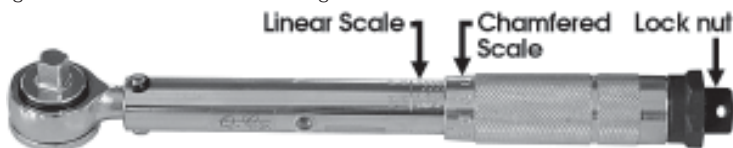
#### A. Torque Setting Adjustment

The main body is marked in both Inch Pounds (in lbs), and Metre Kilograms (Mkg).

The barrel is marked with 20 graduations, one graduation = 12 in lbs or 0.14 Mkg.

Example: To set the torque to 492 in lbs

1. Ensure the lock nut is loosened, by turning it anti-clockwise. Turn the knurled handle until one of the zero marks on the chamfered scale is exactly in line with the next lowest graduation on the linear scale on the main body - in this case it would be 480. (only one of the zero marks will line up correctly)
2. As the desired setting is higher than 480, continue to turn the knurled handle, one more graduations. (one graduation equals 12 in lbs). Therefore  $480 + 12 = 492$  in lbs
3. Finally, tighten lock nut to secure the setting.



#### B. Method of Use

**Note:** Preferably, DO NOT use knuckle or universal joints, as these could result in incorrect torque settings.

1. Place the square drive on to the socket or extension bar, perpendicular to the nut/bolt to be tightened.
2. Gripping the knurled handle with the right hand, whilst steadying the 3/8" square drive end with the left, gently but firmly, pull the handle (i.e. in a clockwise direction) until a click is heard, and a slight 'break' in the handle is felt. **IMPORTANT! DO NOT turn any further.**

#### IMPORTANT

1. Do not jerk the torque wrench in any way to tighten a nut. Apply even pressure throughout the operation.
2. Release the wrench immediately the click is heard/felt.
3. It should be noted that the 'click' becomes weaker with the lower torque settings.

### ACCESSORIES

1. 1/2" Square Drive, x 5" Extension bar.
2. 1/2" x 3/8" Square Drive adaptor.
3. Carrying Case

## MAINTENANCE

Each torque wrench has been lubricated before leaving the factory. If the torque wrench has not been used for some time, operate it several times allowing the lubricant to re-coat the internal working parts.

- After use, keep adjustment at lowest torque setting.
- Do not turn handle below lowest torque setting.
- Clean wrench by wiping. Never immerse in any type of cleaning fluid.
- The wrench may occasionally require servicing/recalibration in order to ensure accurate readings, in which case, contact your CLARKE dealer

## CONVERSION TABLES

Foot Pounds (ft.lbf)	Kilogram Metres kgm	Newton Metres Nm	Newton Metres Nm	Foot Pounds (ft.lbf)	Kilogram Metres kgm	Kilogram Metres kgm	Newton Metres Nm	Foot Pounds (ft.lbf)
5	0.69	6.78	10	7.38	1.02	1	9.81	7.23
10	1.38	13.56	20	14.75	2.04	2	19.61	14.47
15	2.07	20.34	30	22.13	3.06	3	29.42	21.70
20	2.76	27.12	40	29.50	4.08	4	39.23	28.93
25	3.46	33.90	50	36.88	5.10	5	49.04	36.17
30	4.15	40.68	60	44.26	6.12	6	58.84	43.40
35	4.84	47.46	70	51.63	7.14	7	68.65	50.63
40	5.53	54.24	80	59.01	8.16	8	78.46	47.87
45	6.22	61.02	90	66.38	9.18	9	88.26	65.10
50	6.91	67.80	100	73.76	10.20	10	98.07	72.33
55	7.60	74.58	110	81.14	11.22	11	107.88	79.57
60	8.29	81.36	120	88.51	12.24	12	117.68	86.80
65	8.98	88.14	130	95.89	13.26	13	127.49	94.03
70	9.67	94.92	140	103.26	14.28	14	137.30	101.27
75	10.37	101.70	150	110.64	15.30	15	147.11	108.50
80	11.06	108.48	160	118.02	16.32	16	156.91	115.74
85	11.75	115.26	170	125.39	17.34	17	166.72	122.97
90	12.44	122.04	180	132.77	18.36	18	176.53	130.20
95	13.13	128.82	190	140.14	19.38	19	186.33	137.43
100	13.82	135.60	200	147.52	20.40	20	196.14	144.67
105	14.51	142.38	210	154.90	21.42	21	205.95	151.90
110	15.20	149.16	220	162.27	22.44	22	215.75	159.13
115	15.89	155.94	230	169.65	23.46	23	225.57	166.37
120	16.58	162.72	240	177.02	24.48	24	235.37	173.60
125	17.28	169.50	250	184.40	25.50	25	245.18	180.84
130	17.97	176.28	260	191.78	26.52	26	254.98	188.08
135	18.66	183.06	270	199.15	27.54	27	264.79	195.30
140	19.35	189.84	280	206.53	28.56	28	274.60	202.54
145	20.04	196.62	290	213.91	29.58	29	284.41	209.77
150	20.73	203.40	300	221.29	30.60	30	294.22	217.00
155	21.42	210.18	310	228.67	31.62	31	304.03	224.23
160	22.11	216.96	320	236.05	32.64	32	313.84	231.46

## CONVERSION DATA

1kg cm = 13.887in oz

1kg cm = 0.08677in lbf

1kgm = 7.233ft lbf

1kg cm = 0.098Nm

1dNm = 14.161in oz

1Nm = 8.8507in lbf

1Nm = 0.73756 ft lbf

1kg cm = 9.80665 Nm