challenge[®]

1/2" SQUARE DRIVE TORQUE WRENCH



INSTRUCTIONS
IMPORTANT: PLEASE READ BEFORE USE

Range 28 ~ 210 Newton Metres Range 2.9 ~ 21.4 Kg.m

Introduction

This torque wrench has been designed and tested to meet the demands of workshop use, but it is also a precision measuring instrument and should be treated as such.

Important

Never use the wrench to undo nuts or bolts; this will result in the ratchet mechanism being damaged.

Always use the correct size socket and if necessary accessory.

Apply a steady pull to the handle of the torque wrench. When the applied torque is reached an audible click is heard and / or felt. At this point release the wrench immediately.

Do not jerk the wrench in any way to tighten the nut. Apply a steady even pressure throughout the operation. It should be noted that the click becomes weaker with the lower torque settings.

Maintenance

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

After use always store the wrench at the lowest torque setting

Do not turn the handle below lowest torque setting.

Clean wrench by wiping. Never immerse in any type of cleaning fluid

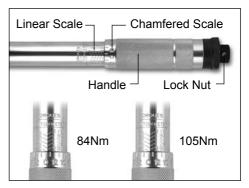
Operation – Torque setting Adjustment

Example: To set the torque to 84Nm Ensure that the locking nut is loosened, by turning anti-clockwise. Turn the knurled handle until the zero mark on the chamfered scales is in line with the graduation on the linear scale. In this case, 84Nm.

Example: To set the torque to 105Nm

Ensure that the locking nut is loosened, by turning anti-clockwise. Turn the knurled handle until the zero mark on the chamfered scales is in line with the next lowest graduation on the linear scale. In this case. 98Nm.

Continue to turn the knurled handle, 7 more graduations. (Note: 1 Graduation equals 1Nm) The wrench is now set to 105Nm. Half a turn = 14Nm: 1 Full turn = 28Nm



Operation - Method of use

Use a light lubricating oil and ensure that the nut is free to rotate before being torque up.

Note: It is preferable not to use knuckle or universal joints, as these could result in incorrect torque settings.

Place the square driven on the socket or extension bar, perpendicular to the nut / bolt to be tightened.

Gripping the knurled handles with on hand steady the drive socket with the other and gently but firmly pull the handle, (in a clockwise direction) until a click is heard and a slight break in the handle is felt. DO NOT turn any further.

Accessories

1/2" Square drive, x 5" Extension bar Carry case

CONVERSION TABLES

Metres kgm (ft.lbf) kgm Metres kgm	Newton	Foot	Kilogram	Kilogram	Newton	Foot	Foot	Kilogram	Newton
10 7.38 1.02 1 9.81 7.23 5 0.69 6.78 20 14.75 2.04 2 19.61 14.47 10 1.38 13.56 30 22.13 3.06 3 29.42 21.70 15 2.07 20.34 40 29.50 4.08 4 39.23 28.93 20 2.76 27.12 50 36.88 5.10 5 49.04 36.17 25 3.46 33.90 60 44.26 6.12 6 58.84 43.40 30 4.15 40.68 70 51.63 7.14 7 68.65 50.63 35 4.84 47.46 80 59.01 8.16 8 78.46 47.87 40 5.53 54.24 90 66.38 9.18 9 88.26 66.10 45 6.22 61.02 100 73.76 10.20 10 98.07	Metres	Pounds	Metres	Metres	Metres	Pounds	Pounds	Metres	Metres
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260 191.78 26.52 26 254.98 188.06 130 17.97 176.28 270 199.15 27.54 27 264.79 195.30 135 18.66 183.06 280 206.53 28.56 28 274.60 202.54 140 19.35 189.84 290 213.91 29.58 29 284.41 209.77 145 20.04 196.62 300 221.29 30.60 30 294.22 217.00 150 20.73 203.40 310 228.67 31.62 31 304.03 224.23 155 21.42 210.18	240	177.02	24.48	24	235.37	173.60	120	16.58	162.72
270 199.15 27.54 27 264.79 195.30 135 18.66 183.06 280 206.53 28.56 28 274.60 202.54 140 19.35 189.84 290 213.91 29.58 29 284.41 209.77 145 20.04 196.62 300 221.29 30.60 30 294.22 217.00 150 20.73 203.40 310 228.67 31.62 31 304.03 224.23 155 21.42 210.18	250	184.40	25.50	25	245.18	180.84	125	17.28	169.50
280 206.53 28.56 28 274.60 202.54 140 19.35 189.84 290 213.91 29.58 29 284.41 209.77 145 20.04 196.62 300 221.29 30.60 30 294.22 217.00 150 20.73 203.40 310 228.67 31.62 31 304.03 224.23 155 21.42 210.18	260	191.78	26.52	26	254.98	188.06	130	17.97	176.28
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300 221.29 30.60 30 294.22 217.00 150 20.73 203.40 310 228.67 31.62 31 304.03 224.23 155 21.42 210.18	280	206.53	28.56	28	274.60	202.54	140	19.35	189.84
310 228.67 31.62 31 304.03 224.23 155 21.42 210.18	290	213.91	29.58	29	284.41	209.77	145	20.04	196.62
	300	221.29	30.60	30	294.22	217.00	150	20.73	203.40
320 236.05 32.64 32 313.84 231.46 160 22.11 216.96	310	228.67	31.62	31	304.03	224.23	155	21.42	210.18
	320	236.05	32.64	32	313.84	231.46	160	22.11	216.96

CONVERSION OF VARIOUS UNITS OF TORQUE											
	Convert		Convert								
From	То	Multiply	From	То	Multiply						
lb.in	oz.in.	16	oz.in.	lb.in.	0.063						
lb.in	lb.ft	0.083	lb.ft.	lb.in.	12						
lb.in	kg.cm	1.152	kg.cm.	lb.in.	0.868						
lb.in	kg.m	0.012	kg.m	lb.in.	86.81						
lb.in	Nm	0.133	Nm	lb.in.	8.85						
lb.in	dNm	1.13	dNm	lb.in.	0.885						
lb.ft.	kg.m	0.138	kg.m	lb.ft.	7.236						
lb.ft.	Nm	1.356	Nm	lb.ft.	0.738						
Nm	dNm	10	dNm	Nm	0.1						
Nm	kg.cm	10.2	kg.cm.	Nm	0.098						
Nm	kg.m	0.102	kg.m.	Nm	9.807						

This product is guaranteed for domestic use for a period of 12 months against faulty manufacture or materials.

This product is not guaranteed for **HIRE** purposes. This guarantee does not affect the statutory rights of the consumer.

In the unlikely event of a defect occurring please contact our Helpline.

Office hours 9am – 5pm. Outside of office hours or during peak times you will be directed to an answer phone. Please leave your name, a brief description of your enquiry and your number.

One of our operators will attempt to contact you back as soon as possible.

Telephone Number 02083 916 767

Alternatively check the Q&A on our website www.hilka.co.uk/faq.php NOTE:

These important safeguards and instructions cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors, which cannot be built into any product. These factors must be supplied by the person using this product.

Manufactured on behalf of **Home Retail Group**489 - 499 Avebury Boulevard,
Central Milton Keynes,
MK9 2NW