

TWH-N | HYDRAULIC TORQUE WRENCHES - LOW PROFILE HEXAGON



Torque capacities up to 48181 Nm

Torque accuracy of +/- 3%

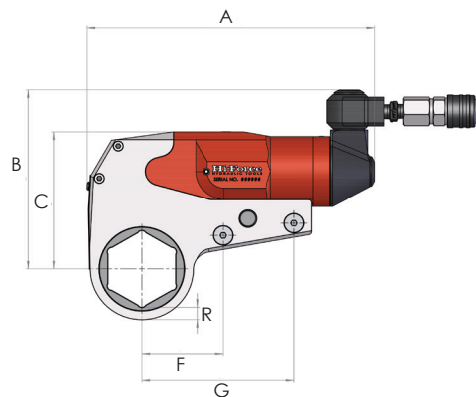
Working pressure 700 bar

- ▶ Lightweight, high grade aluminium body (excluding TWH430N)
- ▶ Output torque capacities from 2625 to 48181 Nm (1906 to 34985 lbf.ft)
- ▶ Low profile design for direct in-line reaction
- ▶ Narrow cassette head design makes it ideal for limited access applications
- ▶ Ratchet head can be easily changed by simply withdrawing/inserting a single pin
- ▶ Imperial ratchet heads available with across flat (AF sizes) sizes from 1 1/16" to 6 7/8" (page 89)
- ▶ Metric ratchet heads available with across flat (AF sizes) sizes from 24 to 175 mm (page 90)
- ▶ Fitted with 360° uni-swivel with quick release couplings for easy positioning of hydraulic hoses

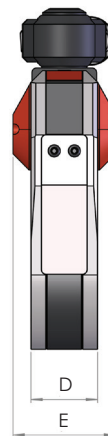
TWH27N, TWH54N, TWH120N, TWH210N
(aluminium body)

Note: Drawing shows drive cylinder, including ratchet head as detailed on pages 89 and 90.

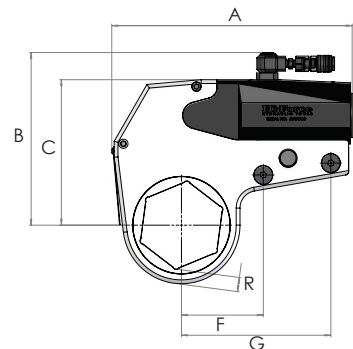
Drive cylinder and ratchet head are separate items and must be ordered separately.



All models



TWH430N (steel body)



Model number	Torque capacity		Hexagon AF Size				Weight (kg)	Dimensions (mm)									
	Nm at 700 bar	lbf.ft at 10,000 psi	Metric min	Metric max	Imperial min	Imperial max		A	B	C	D	E	F	G	R (min)	R (max)	
TWH27N	2625	1906	24	46	1 1/16"	1 13/16"	1.4	193	125	97	32	51	54	109	9.5	12.2	
	3068	2228	50	60	2"	2 3/8"	1.4	193	136	108	32	51	54	109	10.1	10.5	
TWH54N	5372	3901	36	65	1 7/16"	2 1/16"	2.3	250	158	125	41	64	73	137	10.7	13.8	
	6037	4384	70	80	2 3/4"	3 1/8"	2.3	250	169	136	41	64	73	137	11.7	14.6	
TWH120N	11737	8522	50	80	2 3/16"	3 1/8"	3.8	310	189	157	52	78	92	172	14.7	15.2	
	14349	10419	85	100	3 1/2"	3 7/8"	3.8	310	214	182	52	78	92	172	15.9	18.7	
TWH210N	21216	15405	70	100	2 3/4"	3 7/8"	6.4	378	223	191	64	97	114	213	18.1	18.6	
	23124	16791	105	115	4 1/4"	4 5/8"	6.4	378	236	204	64	97	114	213	18.3	20.7	
TWH430N	43792	31798	80	115	3 1/8"	4 5/8"	16.1	405	291	242	83	93	146	267	25.6	31.3	
	48181	34985	130	175	5"	6 7/8"	16.1	425	309	260	83	93	146	267	24.8	27.3	

Note: Above selection table is for drive unit only. Ratchet head(s) to be ordered separately see pages 89 and 90. Weight as stated is drive cylinder only, exact radius size (R) varies according to ratchet AF size selected.

TWH-NRH | IMPERIAL HEXAGON AF SIZE RATCHET HEADS

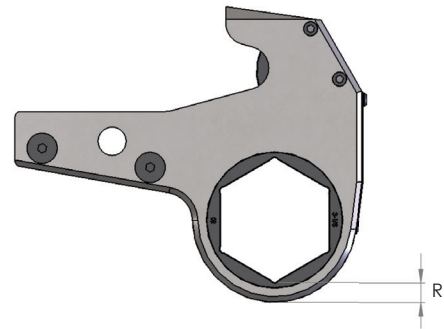


Choice of standard imperial sizes

Easily fitted to TWH-N drive units

High grade steel construction

- ▶ Imperial hexagon ratchet heads suitable for across flat (AF sizes) from 1 1/16" to 6 7/8"
- ▶ Easily fitted to TWH-N drive units by simply withdrawing/inserting a single pin
- ▶ Low profile design and minimum nose radius allows for fitment in confined spaces
- ▶ Imperial hexagon reducer bushes and square drive conversion kits also available (see pages 91 and 92)
- ▶ Special design ratchet heads made to order



IMPERIAL RATCHET HEAD SELECTION TABLE

Bolt size	Nut AF size	For TWH27N			For TWH54N			For TWH120N			For TWH210N			For TWH430N		
		Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg
5/8"	1 1/16"	TWH27NRH-101	10.5	1.5												
3/4"	1 1/4"	TWH27NRH-104	9.8	1.6												
7/8"	1 1/2"	TWH27NRH-107	9.8	1.6	TWH54NRH-107	13.5	2.9									
1"	1 5/8"	TWH27NRH-110	10	1.6	TWH54NRH-110	10.8	2.8									
1 1/8"	1 3/4"	TWH27NRH-113	10.5	1.7	TWH54NRH-113	10.7	2.9									
1 1/4"	2"	TWH27NRH-200	10	1.7	TWH54NRH-200	11.7	3.0	TWH120NRH-200	14.8	5.8						
1 3/8"	2 1/8"	TWH27NRH-203	9.8	1.8	TWH54NRH-203	11.8	3.1	TWH120NRH-203	14.7	6.1						
1 1/2"	2 3/8"	TWH27NRH-206	10.3	1.8	TWH54NRH-206	11.8	3.2	TWH120NRH-206	14.8	6.4						
1 5/8"	2 1/2"				TWH54NRH-209	11.6	3.3	TWH120NRH-209	14.8	6.4						
1 3/4"	2 3/4"				TWH54NRH-212	11.8	3.4	TWH120NRH-212	14.9	6.5	TWH210NRH-212	18.3	12.1			
1 7/8"	2 5/8"				TWH54NRH-215	14.8	3.5	TWH120NRH-215	14.9	6.5	TWH210NRH-215	18.3	12.2			
2"	3 1/8"				TWH54NRH-302	12.1	3.5	TWH120NRH-302	15.1	6.5	TWH210NRH-302	18.5	12.3	TWH430NRH-302	26	23.2
2 1/4"	3 1/2"							TWH120NRH-308	16.9	7.9	TWH210NRH-308	19.3	12.4	TWH430NRH-308	26.8	23.9
2 1/2"	3 3/8"							TWH120NRH-314	19.6	8.5	TWH210NRH-314	19.5	12.5	TWH430NRH-314	26.5	25.7
2 3/4"	4 1/4"										TWH210NRH-404	19.5	13.3	TWH430NRH-404	26.9	26.1
3"	4 5/8"										TWH210NRH-410	19.3	13.8	TWH430NRH-410	25.9	26.3
3 1/4"	5"													TWH430NRH-500	27.4	27.9
3 1/2"	5 3/8"													TWH430NRH-506	25.8	28.3
3 3/4"	5 1/2"													TWH430NRH-512	24.8	29.3
4"	6 1/8"													TWH430NRH-602	25	30.1
4 1/4"	6 1/2"													TWH430NRH-608	25	31.0
4 1/2"	6 7/8"													TWH430NRH-614	27.3	31.8

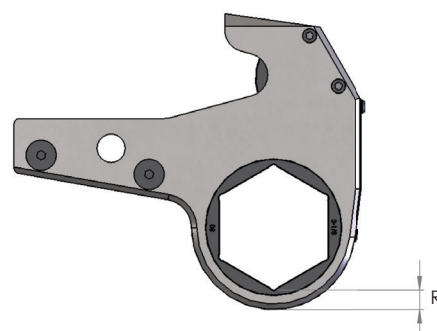
TWH-NRH | METRIC HEXAGON AF SIZE RATCHET HEADS


Choice of standard metric sizes

Easily fitted to TWH-N drive units

High grade steel construction

- ▶ Metric hexagon ratchet heads suitable for across flat (AF sizes) from 24 to 175 mm
- ▶ Easily fitted to TWH-N drive units by simply withdrawing/inserting a single pin
- ▶ Low profile design and minimum nose radius allows for fitment in confined spaces
- ▶ Metric hexagon reducer bushes and square drive conversion kits also available (see pages 91 and 93)
- ▶ Special design ratchet heads made to order



METRIC RATCHET HEAD SELECTION TABLE																
Bolt size	Nut AF size	For TWH27N			For TWH54N			For TWH120N			For TWH210N			For TWH430N		
		Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg	Model number	R mm	Wt kg
16	24	TWH27NRH-24	12.2	1.5												
18	27	TWH27NRH-101	10.5	1.5												
20	30	TWH27NRH-30	10.8	1.6												
22	32	TWH27NRH-32	9.6	1.6												
24	36	TWH27NRH-36	10.1	1.6	TWH54NRH-36	13.8	2.9									
-	38				TWH54NRH-38	12.7	2.8									
27	41	TWH27NRH-110	10.1	1.6	TWH54NRH-110	10.9	2.8									
30	46	TWH27NRH-113	10.5	1.7	TWH54NRH-113	10.7	2.9									
33	50	TWH27NRH-200	10.4	1.7	TWH54NRH-200	12.1	3.0	TWH120NRH-200	15.2	5.8						
36	55	TWH27NRH-203	10.1	1.8	TWH54NRH-203	12.1	3.1	TWH120NRH-203	15	6.1						
39	60	TWH27NRH-206	10.5	1.8	TWH54NRH-206	12	3.2	TWH120NRH-206	15	6.4						
42	65				TWH54NRH-209	11.7	3.3	TWH120NRH-209	14.9	6.4						
45	70				TWH54NRH-212	11.7	3.4	TWH120NRH-212	14.8	6.5	TWH210NRH-212	18.2	12.1			
48	75				TWH54NRH-215	14.6	3.5	TWH120NRH-215	14.7	6.5	TWH210NRH-215	18.1	12.2			
52	80				TWH54NRH-302	11.7	3.5	TWH120NRH-302	14.7	6.5	TWH210NRH-302	18.1	12.3	TWH430NRH-302	25.6 23.2	
56	85							TWH120NRH-85	16.4	7.8	TWH210NRH-85	18.2	12.4	TWH430NRH-85	29 24.0	
60	90							TWH120NRH-90	16.2	7.9	TWH210NRH-90	18.6	12.4	TWH430NRH-90	31.3 26.0	
64	95							TWH120NRH-95	15.9	7.9	TWH210NRH-95	18.6	12.5	TWH430NRH-95	28.5 25.8	
68	100							TWH120NRH-100	18.7	8.5	TWH210NRH-100	18.6	12.5	TWH430NRH-100	25.6 25.6	
72	105										TWH210NRH-105	18.4	12.9	TWH430NRH-105	28.6 26.5	
76	110										TWH210NRH-110	18.3	13.3	TWH430NRH-110	25.7 26.2	
80	115										TWH210NRH-115	20.7	13.8	TWH430NRH-115	27.3 26.4	
90	130													TWH430NRH-130	25.6 27.3	
-	135													TWH430NRH-135	26.7 28.3	
100	145													TWH430NRH-145	25.4 29.4	
110	155													TWH430NRH-602	25.3 30.1	
115	165													TWH430NRH-608	25 31.0	
-	175													TWH430NRH-614	27.1 31.8	