HYDRASTARK OFFICIAL ENGINEERING CATALOG (VECTOR PDF)

700 BAR HYDRAULIC TORQUE WRENCHES CATALOG

Square Drive Wrenches (183-72,000 N.m), Low-Profile Hollow Hex Cassette Wrenches & Heavy Impact Sockets

Browse Online Catalog ->

ASTM A193 B7 Bolt Torque Calculator ->

OEM Cross-Reference Matrix ->

FACTORY DIRECT
HANGZHOU, CHINA

- Since 2008 OEM/ODM
- 700 to 4,000 Bar Rated
- ISO 9001 & CE Certified
- 100% Proof-Load Tested

Web: www.hydrastark.com
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INCLUDED PRODUCT SERIES DIRECTORY (6 SERIES - CLICK ANY ITEM TO OPEN LIVE DATASHEET):

01. HS-SKT Series Heavy-Duty Impact Sockets
02. HSW Series Square Drive Hydraulic Torque Wrenches
03. HS-RED Series Hexagon Cassette Reducer Bushings
04. HHW Series Low-Profile Hollow Torque Wrenches
05. HHW-S Series Slim-Profile Low Clearance Wrenches
06. HHW-R Series Ring & Open-End Spanner Wrenches

HS-SKT Series Heavy-Duty Impact Sockets

Heavy-duty 42CrMo alloy steel impact sockets (HRC 42-46), engineered for high-torque hydraulic torque wrenches and heavy industrial bolting across 3/4" to 2-1/2" square drives and 22 to 180 mm hex sizes (M14 to M125).



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SQUARE DRIVE SIZES
3/4", 1", 1-1/2", 2-1/2" Female Drive (DIN 3121)

ACROSS-FLATS HEX RANGE
22 mm to 180 mm (Heavy-Duty 6-Point Hex)

COMPATIBLE FASTENERS
M14 to M125 High-Tensile Heavy Hex Bolts

MATERIAL GRADE
Hot-Forged 42CrMo Alloy Steel (HRC 42 - 46)

SURFACE PROTECTION
Industrial Black Manganese Phosphate (Anti-Galling)

Socket Model	Compatible Torque Wrench	Square Drive Input	Hex Nut Width Across Flats (S)	Applicable Bolt Size
HS-SKT-75022	HSW-1	3/4"	S22	M14
HS-SKT-75024	HSW-1	3/4"	S24	M16
HS-SKT-75027	HSW-1	3/4"	S27	M18
HS-SKT-75030	HSW-1	3/4"	S30	M20
HS-SKT-75032	HSW-1	3/4"	S32	M22
HS-SKT-75036	HSW-1	3/4"	S36	M24
HS-SKT-75041	HSW-1	3/4"	S41	M27
HS-SKT-75046	HSW-1	3/4"	S46	M30
HS-SKT-75050	HSW-1	3/4"	S50	M33
HS-SKT-75055	HSW-1	3/4"	S55	M36
HS-SKT-10027	HSW-3	1"	S27	M18
HS-SKT-10030	HSW-3	1"	S30	M20
HS-SKT-10032	HSW-3	1"	S32	M22
HS-SKT-10036	HSW-3	1"	S36	M24
HS-SKT-10041	HSW-3	1"	S41	M27
HS-SKT-10046	HSW-3	1"	S46	M30
HS-SKT-10050	HSW-3	1"	S50	M33
HS-SKT-10055	HSW-3	1"	S55	M36
HS-SKT-10060	HSW-3	1"	S60	M39
HS-SKT-10065	HSW-3	1"	S65	M42
HS-SKT-10070	HSW-3	1"	S70	M45
HS-SKT-10075	HSW-3	1"	S75	M48
HS-SKT-10080	HSW-3	1"	S80	M52
HS-SKT-10085	HSW-3	1"	S85	M56
HS-SKT-10090	HSW-3	1"	S90	M60
HS-SKT-10095	HSW-3	1"	S95	M64
HS-SKT-15032	HSW-5 / 8 / 10	1-1/2"	S32	M22
HS-SKT-15036	HSW-5 / 8 / 10	1-1/2"	S36	M24

HS-SKT Series Heavy-Duty Impact Sockets - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Socket Model	Compatible Torque Wrench	Square Drive Input	Hex Nut Width Across Flats (S)	Applicable Bolt Size
HS-SKT-15041	HSW-5 / 8 / 10	1-1/2"	S41	M27
HS-SKT-15046	HSW-5 / 8 / 10	1-1/2"	S46	M30
HS-SKT-15050	HSW-5 / 8 / 10	1-1/2"	S50	M33
HS-SKT-15055	HSW-5 / 8 / 10	1-1/2"	S55	M36
HS-SKT-15060	HSW-5 / 8 / 10	1-1/2"	S60	M39
HS-SKT-15065	HSW-5 / 8 / 10	1-1/2"	S65	M42
HS-SKT-15070	HSW-5 / 8 / 10	1-1/2"	S70	M45
HS-SKT-15075	HSW-5 / 8 / 10	1-1/2"	S75	M48
HS-SKT-15080	HSW-5 / 8 / 10	1-1/2"	S80	M52
HS-SKT-15085	HSW-5 / 8 / 10	1-1/2"	S85	M56
HS-SKT-15090	HSW-5 / 8 / 10	1-1/2"	S90	M60
HS-SKT-15095	HSW-5 / 8 / 10	1-1/2"	S95	M64
HS-SKT-150100	HSW-5 / 8 / 10	1-1/2"	S100	M68
HS-SKT-150105	HSW-5 / 8 / 10	1-1/2"	S105	M72
HS-SKT-150110	HSW-5 / 8 / 10	1-1/2"	S110	M76
HS-SKT-150115	HSW-5 / 8 / 10	1-1/2"	S115	M80
HS-SKT-150120	HSW-5 / 8 / 10	1-1/2"	S120	M85
HS-SKT-150130	HSW-5 / 8 / 10	1-1/2"	S130	M90
HS-SKT-150135	HSW-5 / 8 / 10	1-1/2"	S135	M95
HS-SKT-150145	HSW-5 / 8 / 10	1-1/2"	S145	M100
HS-SKT-150150	HSW-5 / 8 / 10	1-1/2"	S150	M105
HS-SKT-25055	HSW-20 / 25 / 35 / 50	2-1/2"	S55	M36
HS-SKT-25060	HSW-20 / 25 / 35 / 50	2-1/2"	S60	M39
HS-SKT-25065	HSW-20 / 25 / 35 / 50	2-1/2"	S65	M42
HS-SKT-25070	HSW-20 / 25 / 35 / 50	2-1/2"	S70	M45
HS-SKT-25075	HSW-20 / 25 / 35 / 50	2-1/2"	S75	M48
HS-SKT-25080	HSW-20 / 25 / 35 / 50	2-1/2"	S80	M52
HS-SKT-25085	HSW-20 / 25 / 35 / 50	2-1/2"	S85	M56
HS-SKT-25090	HSW-20 / 25 / 35 / 50	2-1/2"	S90	M60
HS-SKT-25095	HSW-20 / 25 / 35 / 50	2-1/2"	S95	M64
HS-SKT-250100	HSW-20 / 25 / 35 / 50	2-1/2"	S100	M68
HS-SKT-250105	HSW-20 / 25 / 35 / 50	2-1/2"	S105	M72
HS-SKT-250110	HSW-20 / 25 / 35 / 50	2-1/2"	S110	M76
HS-SKT-250115	HSW-20 / 25 / 35 / 50	2-1/2"	S115	M80
HS-SKT-250120	HSW-20 / 25 / 35 / 50	2-1/2"	S120	M85
HS-SKT-250130	HSW-20 / 25 / 35 / 50	2-1/2"	S130	M90

HS-SKT Series Heavy-Duty Impact Sockets - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Socket Model	Compatible Torque Wrench	Square Drive Input	Hex Nut Width Across Flats (S)	Applicable Bolt Size
HS-SKT-250135	HSW-20 / 25 / 35 / 50	2-1/2"	S135	M95
HS-SKT-250140	HSW-20 / 25 / 35 / 50	2-1/2"	S140	Custom
HS-SKT-250145	HSW-20 / 25 / 35 / 50	2-1/2"	S145	M100
HS-SKT-250150	HSW-20 / 25 / 35 / 50	2-1/2"	S150	M105
HS-SKT-250155	HSW-20 / 25 / 35 / 50	2-1/2"	S155	M110
HS-SKT-250165	HSW-20 / 25 / 35 / 50	2-1/2"	S165	M115
HS-SKT-250175	HSW-20 / 25 / 35 / 50	2-1/2"	S175	M120
HS-SKT-250180	HSW-20 / 25 / 35 / 50	2-1/2"	S180	M125

HSW Series Square Drive Hydraulic Torque Wrenches

Square drive hydraulic torque wrenches rated for 700 Bar (10,000 PSI), engineered with a titanium-aluminum alloy unibody and 360° × 180° swivel coupler delivering 183 to 72,000 N·m (±3% accuracy) across 3/4" to 2-1/2" drives.



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TORQUE OUTPUT RANGE
183 to 72,000 N·m (135 to 53,280 Ft-lbs)

SQUARE DRIVE SPECIFICATIONS
3/4", 1", 1-1/2", 2-1/2" Quick-Release Reversible Drive

OPERATING PRESSURE
700 Bar (10,000 PSI) Rating

TORQUE PRECISION
Within ±3% (3D CAD Engineered)

BODY METALLURGY
Aerospace Titanium-Aluminium Alloy Monolithic Unibody

REACTION ARM & SWIVEL
360° Fine-Tune Reaction Arm & 360° × 180° Swiveling Inlet Port

Model Number	Square Drive [in]	Torque Range [N·m]	Bolt Size [Metric]	Weight [kg]	Dimensions (mm)							
					L1 [mm]	L2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	R1 [mm]	R2 [mm]
HSW-1	3/4"	183 - 1,837	M16 - M36	2.0	130	182	50	72	99	144	26	99
HSW-3	1"	451 - 4,512	M22 - M48	4.0	166	241	68	95	130	176	34	134
HSW-5	1-1/2"	752 - 7,528	M27 - M56	7.0	198	281	80	123	155	198	39	152
HSW-8	1-1/2"	1,078 - 10,780	M30 - M64	9.1	213	308	90	130	171	216	47	171
HSW-10	1-1/2"	1,551 - 15,516	M36 - M72	13.1	231	336	100	141	187	230	51	174
HSW-20	2-1/2"	2,666 - 26,664	M42 - M90	25.0	295	443	120	182	228	268	59	186
HSW-25	2-1/2"	3,472 - 34,725	M48 - M100	31.0	314	464	137	200	255	295	67	199
HSW-35	2-1/2"	4,866 - 48,666	M64 - M120	45.0	355	489	153	217	290	330	79	241
HSW-50	2-1/2"	7,200 - 72,000	M72 - M125	87.0	400	516	160	223	291	341	81	259

HS-RED Series Hexagon Cassette Reducer Bushings

Forged 42CrMo alloy steel hexagon cassette reducer bushings (HRC 48-52), engineered to step down low-profile hydraulic torque wrench ratchet links from 32-155 mm master hex sizes to 27-145 mm across flats.



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PRODUCT CONFIGURATION	MASTER CASSETTE RANGE	REDUCED HEX RANGE
Hexagon Cassette Reducer Bushing Inserts & Locking Rings	32 - 155 mm Master Hex Link Sizes	27 - 145 mm Reduced Output Hex (A/F)
COMPATIBLE WRENCHES	**STRUCTURAL METALLURGY**	**RETENTION MECHANISM**
HHW-2, HHW-4, HHW-8, HHW-14, HHW-30 (& HHW-S Series)	Forged 42CrMo Alloy Steel, Heat-Treated to HRC 48-52	Snap-In Locking Ring (HS-RING-32 to HS-RING-155)

Compatible Workhead	Cassette Reducer Model			Locking Ring Model
	Option 1	Option 2	Option 3	
HHW-2-65	HS-RED-265/55	HS-RED-265/50	HS-RED-265/46	HS-RING-65
HHW-2-60	HS-RED-260/50	HS-RED-260/46	HS-RED-260/41	HS-RING-60
HHW-2-55	HS-RED-255/46	HS-RED-255/41	HS-RED-255/36	HS-RING-55
HHW-2-50	HS-RED-250/41	HS-RED-250/36	HS-RED-250/32	HS-RING-50
HHW-2-46	HS-RED-246/36	HS-RED-246/32	HS-RED-246/30	HS-RING-46
HHW-2-41	HS-RED-241/32	HS-RED-241/30	HS-RED-241/27	HS-RING-41
HHW-2-36	HS-RED-236/30	HS-RED-236/27	-	HS-RING-36
HHW-2-32	HS-RED-232/27	-	-	HS-RING-32
HHW-4-80	HS-RED-480/70	HS-RED-480/65	HS-RED-480/60	HS-RING-80
HHW-4-75	HS-RED-475/65	HS-RED-475/60	HS-RED-475/55	HS-RING-75
HHW-4-70	HS-RED-470/60	HS-RED-470/55	HS-RED-470/50	HS-RING-70
HHW-4-65	HS-RED-465/55	HS-RED-465/50	HS-RED-465/46	HS-RING-65
HHW-4-60	HS-RED-460/50	HS-RED-460/46	HS-RED-460/41	HS-RING-60
HHW-4-55	HS-RED-455/46	HS-RED-455/41	HS-RED-455/36	HS-RING-55
HHW-4-50	HS-RED-450/41	HS-RED-450/36	HS-RED-450/32	HS-RING-50
HHW-4-46	HS-RED-446/36	HS-RED-446/32	HS-RED-446/30	HS-RING-46
HHW-4-41	HS-RED-441/32	HS-RED-441/30	HS-RED-441/27	HS-RING-41
HHW-4-36	HS-RED-436/30	HS-RED-436/27	-	HS-RING-36
HHW-4-32	HS-RED-432/27	-	-	HS-RING-32
HHW-8-95	HS-RED-895/85	HS-RED-895/80	HS-RED-895/75	HS-RING-95
HHW-8-90	HS-RED-890/80	HS-RED-890/75	HS-RED-890/70	HS-RING-90
HHW-8-85	HS-RED-885/75	HS-RED-885/70	HS-RED-885/65	HS-RING-85
HHW-8-80	HS-RED-880/70	HS-RED-880/65	HS-RED-880/60	HS-RING-80
HHW-8-75	HS-RED-875/65	HS-RED-875/60	HS-RED-875/55	HS-RING-75
HHW-8-70	HS-RED-870/60	HS-RED-870/55	HS-RED-870/50	HS-RING-70
HHW-8-65	HS-RED-865/55	HS-RED-865/50	HS-RED-865/46	HS-RING-65
HHW-8-60	HS-RED-860/50	HS-RED-860/46	-	HS-RING-60
HHW-8-55	HS-RED-855/46	HS-RED-855/41	-	HS-RING-55

HS-RED Series Hexagon Cassette Reducer Bushings - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Compatible Workhead	Cassette Reducer Model			Locking Ring Model
	Option 1	Option 2	Option 3	
HHW-14-115	HS-RED-14115/105	HS-RED-14115/100	HS-RED-14115/95	HS-RING-115
HHW-14-110	HS-RED-14110/100	HS-RED-14110/95	HS-RED-14110/90	HS-RING-110
HHW-14-105	HS-RED-14105/95	HS-RED-14105/90	HS-RED-14105/85	HS-RING-105
HHW-14-100	HS-RED-14100/90	HS-RED-14100/85	HS-RED-14100/80	HS-RING-100
HHW-14-95	HS-RED-1495/85	HS-RED-1495/80	HS-RED-1495/75	HS-RING-95
HHW-14-90	HS-RED-1490/80	HS-RED-1490/75	HS-RED-1490/70	HS-RING-90
HHW-14-85	HS-RED-1485/75	HS-RED-1485/70	HS-RED-1485/65	HS-RING-85
HHW-14-80	HS-RED-1480/70	HS-RED-1480/65	-	HS-RING-80
HHW-14-75	HS-RED-1475/65	-	-	HS-RING-75
HHW-30-155	HS-RED-30155/145	HS-RED-30155/130	HS-RED-30155/120	HS-RING-155
HHW-30-145	HS-RED-30145/130	HS-RED-30145/120	HS-RED-30145/115	HS-RING-145
HHW-30-130	HS-RED-30130/120	HS-RED-30130/115	HS-RED-30130/110	HS-RING-130
HHW-30-120	HS-RED-30120/110	HS-RED-30120/105	HS-RED-30120/100	HS-RING-120
HHW-30-115	HS-RED-30115/105	HS-RED-30115/100	HS-RED-30115/95	HS-RING-115
HHW-30-110	HS-RED-30110/100	HS-RED-30110/95	HS-RED-30110/90	HS-RING-110
HHW-30-105	HS-RED-30105/95	HS-RED-30105/90	HS-RED-30105/85	HS-RING-105
HHW-30-100	HS-RED-30100/90	HS-RED-30100/85	HS-RED-30100/80	HS-RING-100
HHW-30-95	HS-RED-3095/85	HS-RED-3095/80	-	HS-RING-95
HHW-30-90	HS-RED-3090/80	-	-	HS-RING-90

HHW Series Low-Profile Hollow Torque Wrenches

Low-profile hollow hexagon hydraulic torque wrenches rated for 700 Bar (10,000 PSI), engineered with interchangeable hex cassettes and 360° swivel couplers delivering 228 to 44,593 N·m (±3% accuracy) across 19 to 175 mm hex sizes.



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TORQUE OUTPUT RANGE	HEXAGON CASSETTE RANGE	OPERATING PRESSURE
228 to 44,593 N·m (168 to 32,889 Ft-lbs)	19 mm to 175 mm (3/4" to 6-7/8") Across-Flats	700 Bar (10,000 PSI) Rating
TORQUE PRECISION	**BODY METALLURGY**	**HYDRAULIC PORTING**
Within ±3% (3D CAD Engineered)	High-Tech Aerospace Material Integrally Molded Body	360° Swiveling Inlet Port for Limited Clearances

Model Number	Torque Range [N·m]	Hex Size A/F (s) [mm]	Drive Unit Wt [kg]	Workhead Wt [kg]	Dimensions (mm)				
					L [mm]	H1 [mm]	H2 [mm]	W1 [mm]	W2 [mm]
HHW-2	228 - 2,278	19 - 55	0.9	1.5	196	126	102	32	51
HHW-2	241 - 2,414	60	0.9	1.5	196	129	105	32	51
HHW-4	586 - 5,862	34 - 65	1.7	3.4	258	163	136	42	66
HHW-4	647 - 6,474	70 - 80	1.7	3.4	263	173	146	42	66
HHW-8	1,094 - 10,941	41 - 95	3.0	6.3	300	192	168	53	83
HHW-8	1,177 - 11,774	100 - 105	3.0	6.3	311	201	177	53	83
HHW-14	1,829 - 18,286	50 - 117	4.6	11.4	360	225	204	64	99
HHW-18	2,695 - 26,958	65 - 130	6.5	14.3	388	264	231	71	109
HHW-30	4,231 - 42,311	110 - 155	10.4	20.5	430	303	272	85	131
HHW-30	4,459 - 44,593	160 - 175	10.4	20.5	441	315	285	85	131

HHW Series Low-Profile Hollow Torque Wrenches - HHW-L Interchangeable Hex Cassette Workhead Selection

Workhead Model	Compatible Drive Unit	Bolt Size	Hex Size A/F (S) [mm]	Nose Radius (R) [mm]	Min. Radial Clearance (A) [mm]
HHW-L2-19	HHW-2 / HHW-S-2	M12	19	27	16
HHW-L2-22	HHW-2 / HHW-S-2	M14	22	27	14
HHW-L2-27	HHW-2 / HHW-S-2	M18	27	27	11
HHW-L2-30	HHW-2 / HHW-S-2	M20	30	29	12
HHW-L2-32	HHW-2 / HHW-S-2	-	32	29	11
HHW-L2-34	HHW-2 / HHW-S-2	M22	34	31	11
HHW-L2-36	HHW-2 / HHW-S-2	M24	36	31	10
HHW-L2-41	HHW-2 / HHW-S-2	M27	41	34	10
HHW-L2-46	HHW-2 / HHW-S-2	M30	46	37	11
HHW-L2-50	HHW-2 / HHW-S-2	M33	50	40	11
HHW-L2-55	HHW-2 / HHW-S-2	M36	55	43	11
HHW-L2-60	HHW-2 / HHW-S-2	M39	60	46	11
HHW-L4-34	HHW-4 / HHW-S-4	M22	34	36	16

HHW Series Low-Profile Hollow Torque Wrenches - HHW-L Interchangeable Hex Cassette Workhead Selection (Continued) | Click any row to open online interactive datasheet & quote

Workhead Model	Compatible Drive Unit	Bolt Size	Hex Size A/F (S) [mm]	Nose Radius (R) [mm]	Min. Radial Clearance (A) [mm]
HHW-L4-36	HHW-4 / HHW-S-4	M24	36	36	15
HHW-L4-41	HHW-4 / HHW-S-4	M27	41	39	15
HHW-L4-46	HHW-4 / HHW-S-4	M30	46	42	15
HHW-L4-50	HHW-4 / HHW-S-4	M33	50	44	15
HHW-L4-55	HHW-4 / HHW-S-4	M36	55	46	15
HHW-L4-60	HHW-4 / HHW-S-4	M39	60	50	14
HHW-L4-65	HHW-4 / HHW-S-4	M42	65	53	15
HHW-L4-70	HHW-4 / HHW-S-4	M45	70	56	15
HHW-L4-75	HHW-4 / HHW-S-4	M48	75	59	15
HHW-L4-80	HHW-4 / HHW-S-4	M52	80	61	15
HHW-L8-41	HHW-8 / HHW-S-8	M27	41	50	26
HHW-L8-46	HHW-8 / HHW-S-8	M30	46	50	23
HHW-L8-50	HHW-8 / HHW-S-8	M33	50	50	21
HHW-L8-55	HHW-8 / HHW-S-8	M36	55	50	18
HHW-L8-60	HHW-8 / HHW-S-8	M39	60	55	20
HHW-L8-65	HHW-8 / HHW-S-8	M42	65	55	17
HHW-L8-70	HHW-8 / HHW-S-8	M45	70	60	20
HHW-L8-75	HHW-8 / HHW-S-8	M48	75	60	17
HHW-L8-80	HHW-8 / HHW-S-8	M52	80	66	19
HHW-L8-85	HHW-8 / HHW-S-8	M56	85	66	16
HHW-L8-90	HHW-8 / HHW-S-8	M60	90	71	19
HHW-L8-95	HHW-8 / HHW-S-8	M64	95	71	16
HHW-L8-100	HHW-8 / HHW-S-8	M68	100	78	20
HHW-L8-105	HHW-8 / HHW-S-8	M72	105	78	17
HHW-L14-50	HHW-14 / HHW-S-14	M33	50	66	37
HHW-L14-55	HHW-14 / HHW-S-14	M36	55	66	34
HHW-L14-60	HHW-14 / HHW-S-14	M39	60	66	31
HHW-L14-65	HHW-14 / HHW-S-14	M42	65	66	28
HHW-L14-70	HHW-14 / HHW-S-14	M45	70	66	25
HHW-L14-75	HHW-14 / HHW-S-14	M48	75	66	22
HHW-L14-80	HHW-14 / HHW-S-14	M52	80	66	19
HHW-L14-85	HHW-14 / HHW-S-14	M56	85	72	22
HHW-L14-90	HHW-14 / HHW-S-14	M60	90	72	20
HHW-L14-95	HHW-14 / HHW-S-14	M64	95	77	22
HHW-L14-100	HHW-14 / HHW-S-14	M68	100	77	19
HHW-L14-105	HHW-14 / HHW-S-14	M72	105	83	22

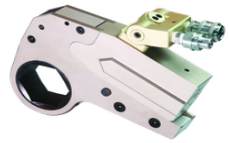
Workhead Model	Compatible Drive Unit	Bolt Size	Hex Size A/F (S) [mm]	Nose Radius (R) [mm]	Min. Radial Clearance (A) [mm]
HHW-L14-110	HHW-14 / HHW-S-14	M76	110	83	19
HHW-L14-115	HHW-14 / HHW-S-14	M80	115	87	20
HHW-L14-117	HHW-14 / HHW-S-14	-	117	87	19
HHW-L18-65	HHW-18	M42	65	62	23
HHW-L18-70	HHW-18	M45	70	65	23
HHW-L18-75	HHW-18	M48	75	67	22
HHW-L18-80	HHW-18	M52	80	70	22
HHW-L18-85	HHW-18	M56	85	72	23
HHW-L18-90	HHW-18	M60	90	74	22
HHW-L18-95	HHW-18	M64	95	77	23
HHW-L18-100	HHW-18	M68	100	79	22
HHW-L18-105	HHW-18	M72	105	82	23
HHW-L18-110	HHW-18	M76	110	84	22
HHW-L18-115	HHW-18	M80	115	89	24
HHW-L18-117	HHW-18	-	117	89	23
HHW-L18-120	HHW-18	M85	120	92	23
HHW-L18-125	HHW-18	-	125	95	23
HHW-L18-130	HHW-18	M90	130	98	23
HHW-L30-95	HHW-30 / HHW-S-30	M64	95	89	34
HHW-L30-100	HHW-30 / HHW-S-30	M68	100	89	31
HHW-L30-105	HHW-30 / HHW-S-30	M72	105	89	28
HHW-L30-110	HHW-30 / HHW-S-30	M76	110	89	25
HHW-L30-115	HHW-30 / HHW-S-30	M80	115	95	28
HHW-L30-117	HHW-30 / HHW-S-30	-	117	95	27
HHW-L30-120	HHW-30 / HHW-S-30	M85	120	95	25
HHW-L30-125	HHW-30 / HHW-S-30	-	125	104	32
HHW-L30-130	HHW-30 / HHW-S-30	M90	130	104	29
HHW-L30-135	HHW-30 / HHW-S-30	M95	135	104	26
HHW-L30-140	HHW-30 / HHW-S-30	-	140	110	29
HHW-L30-145	HHW-30 / HHW-S-30	M100	145	110	26
HHW-L30-150	HHW-30 / HHW-S-30	M105	150	116	29
HHW-L30-155	HHW-30 / HHW-S-30	M110	155	116	26
HHW-L30-160	HHW-30 / HHW-S-30	-	160	128	36
HHW-L30-165	HHW-30 / HHW-S-30	M115	165	128	33
HHW-L30-170	HHW-30 / HHW-S-30	M120	170	128	30
HHW-L30-175	HHW-30 / HHW-S-30	-	175	128	27

HHW Series Low-Profile Hollow Torque Wrenches - HHW-L Interchangeable Hex Cassette Workhead Selection (Continued) | Click any row to open online interactive datasheet & quote

Engineering Note: All dimensions in mm. S = Hex Size Across Flats, R = Nose Radius, A = Min. Radial Clearance.

HHW-S Series Slim-Profile Low Clearance Wrenches

Slim-profile ultra-narrow hollow hexagon hydraulic torque wrenches rated for 700 Bar (10,000 PSI), engineered for extremely confined radial clearances delivering 228 to 44,593 N·m (±3% accuracy) across 19 to 175 mm hex sizes.



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TORQUE OUTPUT RANGE	HEXAGON CASSETTE RANGE	OPERATING PRESSURE
228 to 44,593 N·m (168 to 32,889 Ft-lbs)	19 mm to 175 mm (3/4" to 6-7/8") Across-Flats	700 Bar (10,000 PSI) Rating
TORQUE PRECISION	**BODY METALLURGY**	**HYDRAULIC PORTING**
Within ±3% (3D CAD Engineered)	High-Tech Aerospace Material Integrally Molded Body	360° Swiveling Inlet Port for Limited Clearances

Model Number	Torque Range [N·m]	Hex Size A/F (s) [mm]	Drive Unit Wt [kg]	Workhead Wt [kg]	Dimensions (mm)				
					L [mm]	H1 [mm]	H2 [mm]	W1 [mm]	W2 [mm]
HHW-S-2	228 - 2,278	19 - 55	1.75	1.50	196	126	102	32	35
HHW-S-2	241 - 2,414	60	1.75	1.50	196	129	105	32	35
HHW-S-4	586 - 5,862	34 - 65	4.05	3.40	258	163	136	42	49
HHW-S-4	647 - 6,474	70 - 80	4.05	3.40	263	173	146	42	49
HHW-S-8	1,094 - 10,941	41 - 95	6.55	6.30	300	192	168	53	60
HHW-S-8	1,177 - 11,774	100 - 105	6.55	6.30	311	201	177	53	60
HHW-S-14	1,829 - 18,286	50 - 117	10.75	11.40	360	225	204	64	72
HHW-S-30	4,231 - 42,311	110 - 155	21.20	20.50	430	303	272	85	95
HHW-S-30	4,459 - 44,593	160 - 175	21.20	20.50	441	315	285	85	95

HHW-R Series Ring & Open-End Spanner Wrenches

Ultra-low profile hydraulic torque wrenches rated for 700 Bar (10,000 PSI) with interchangeable 12-point ring (S) and open-end (E) spanner attachments, engineered for radial side-slip access on obstructed studs delivering 346 to 18,165 N·m across 19 to 120 mm A/F.



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TORQUE OUTPUT RANGE	SPANNER ACROSS FLATS	WORKHEAD ATTACHMENTS
346 - 18,165 N·m (255 - 13,400 Ft-lbs)	19 - 120 mm (3/4" - 4-5/8" Hex)	Interchangeable 12-Point Ring (S) & Open-End (E)
RATED SYSTEM PRESSURE	**REACTION MECHANISM**	**HEAD LENGTH ENVELOPE**
700 Bar (10,000 PSI) Max Working Pressure	Compact Direct-Drive Reaction Roller Support	130 to 260 mm Ultra-Low Profile Head Length (E)

Model Number	Torque Range [N·m]	Torque Range (Imperial) [Ft-lbs]	Hex Across Flats [mm]	Drive Unit Wt [kg]	Dimensions (mm)						
					Drive Length (A) [mm]	Drive Height (B) [mm]	Roller Width (C) [mm]	Body Thickness (D) [mm]	Head Length (E) [mm]	Spanner Thickness (F) [mm]	Min. Ring Wall (G) [mm]
HHW-R2	346 - 2,318	255 - 1,710	19 - 60	2.2	155	129	66	32	130	19.0	7.5
HHW-R4	786 - 5,226	580 - 3,855	36 - 75	3.0	208	168	87	42	186	25.4	7.5
HHW-R8	1,549 - 11,049	1,143 - 8,149	55 - 90	3.3	260	209	108	53	216	31.75	13.0
HHW-R14	2,725 - 18,165	2,010 - 13,400	80 - 120	8.2	349	239	132	64	260	39.0	17.5

HHW-R Series Ring & Open-End Spanner Wrenches - Interchangeable 12-Point Ring (S) & Open-End (E) Spanner Selection

Compatible Wrench	Hex Size A/F [mm]	Bolt Size	12-Point Ring Model (S)	Open-End Model (E)	Head Length (E) [mm]	Spanner Thickness (F) [mm]
HHW-R2	19	M12	HHW-R2S-19	HHW-R2E-19	130	19
HHW-R2	22	M14	HHW-R2S-22	HHW-R2E-22	130	19
HHW-R2	24	M16	HHW-R2S-24	HHW-R2E-24	130	19
HHW-R2	27	M18	HHW-R2S-27	HHW-R2E-27	130	19
HHW-R2	30	M20	HHW-R2S-30	HHW-R2E-30	130	19
HHW-R2	32	M22	HHW-R2S-32	HHW-R2E-32	130	19
HHW-R2	36	M24	HHW-R2S-36	HHW-R2E-36	130	19
HHW-R2	41	M27	HHW-R2S-41	HHW-R2E-41	130	19
HHW-R2	46	M30	HHW-R2S-46	HHW-R2E-46	130	19
HHW-R2	50	M33	HHW-R2S-50	HHW-R2E-50	130	19
HHW-R2	55	M36	HHW-R2S-55	HHW-R2E-55	130	19
HHW-R4	36	M24	HHW-R4S-36	HHW-R4E-36	186	25
HHW-R4	41	M27	HHW-R4S-41	HHW-R4E-41	186	25
HHW-R4	46	M30	HHW-R4S-46	HHW-R4E-46	186	25
HHW-R4	50	M33	HHW-R4S-50	HHW-R4E-50	186	25
HHW-R4	55	M36	HHW-R4S-55	HHW-R4E-55	186	25
HHW-R4	60	M39	HHW-R4S-60	HHW-R4E-60	186	25
HHW-R4	65	M42	HHW-R4S-65	HHW-R4E-65	186	25
HHW-R4	70	M45	HHW-R4S-70	HHW-R4E-70	186	25

HHW-R Series Ring & Open-End Spanner Wrenches - Interchangeable 12-Point Ring (S) & Open-End (E) Spanner Selection (Continued) | Click any row to open online interactive datasheet & quote

Compatible Wrench	Hex Size A/F [mm]	Bolt Size	12-Point Ring Model (S)	Open-End Model (E)	Head Length (E) [mm]	Spanner Thickness (F) [mm]
HHW-R4	75	M48	HHW-R4S-75	HHW-R4E-75	186	25
HHW-R8	55	M36	HHW-R8S-55	HHW-R8E-55	216	32
HHW-R8	60	M39	HHW-R8S-60	HHW-R8E-60	216	32
HHW-R8	65	M42	HHW-R8S-65	HHW-R8E-65	216	32
HHW-R8	70	M45	HHW-R8S-70	HHW-R8E-70	216	32
HHW-R8	75	M48	HHW-R8S-75	HHW-R8E-75	216	32
HHW-R8	80	M52	HHW-R8S-80	HHW-R8E-80	216	32
HHW-R8	85	M56	HHW-R8S-85	HHW-R8E-85	216	32
HHW-R8	90	M60	HHW-R8S-90	HHW-R8E-90	216	32
HHW-R14	80	M52	HHW-R14S-80	HHW-R14E-80	260	38
HHW-R14	85	M56	HHW-R14S-85	HHW-R14E-85	260	38
HHW-R14	90	M60	HHW-R14S-90	HHW-R14E-90	260	38
HHW-R14	95	M64	HHW-R14S-95	HHW-R14E-95	260	38
HHW-R14	100	M68	HHW-R14S-100	HHW-R14E-100	260	38
HHW-R14	105	M72	HHW-R14S-105	HHW-R14E-105	260	38
HHW-R14	110	M76	HHW-R14S-110	HHW-R14E-110	260	38
HHW-R14	115	M80	HHW-R14S-115	HHW-R14E-115	260	38
HHW-R14	120	M85	HHW-R14S-120	HHW-R14E-120	260	38

Engineering Note: 74 interchangeable spanner attachments (37 × 12-Point Ring HHW-R*S-* and 37 × Open-End HHW-R*E-*). All dimensions in mm.

APPENDIX: ASTM A193 GRADE B7 STUD BOLT TORQUE & 1500 BAR TENSIONER SIZING REFERENCE CHART (M24 - M100)

Basis: 50% Yield Target Preload (Rp0.2 = 725 MPa for <=M64; 655 MPa for >M64), Copper/Graphite Lubricant (u = 0.12), Tensioner Load Loss Factor = 1.18x.

Stud Size	Pitch [mm]	Heavy Hex AF [mm]	Stress Area [mm2]	Yield [MPa]	Preload @50% [kN]	Target Torque [N.m]	Matched 700 Bar Wrench	Pull Force +18% [kN]	Matched 1500 Bar Tensioner
M24	3.0	36	353	725	128	**485**	HSW-1 / HHW-2	151	HST-S1-M24 (801 Bar)
M27	3.0	41	459	725	166	**706**	HSW-1 / HHW-2	196	HST-S1-M27 (1042 Bar)
M30	3.5	46	561	725	203	**962**	HSW-3 / HHW-2	240	HST-S2-M30 (796 Bar)
M33	3.5	50	694	725	252	**1,302**	HSW-3 / HHW-2	297	HST-S2-M33 (984 Bar)
M36	4.0	55	817	725	296	**1,674**	HSW-3 / HHW-2	349	HST-S3-M36 (725 Bar)
M39	4.0	60	976	725	354	**2,155**	HSW-3 / HHW-4	418	HST-S3-M39 (867 Bar)
M42	4.5	65	1121	725	406	**2,668**	HSW-3 / HHW-4	479	HST-S3-M42 (995 Bar)
M45	4.5	70	1306	725	473	**3,322**	HSW-5 / HHW-4	559	HST-S4-M45 (756 Bar)
M48	5.0	75	1473	725	534	**3,998**	HSW-5 / HHW-4	630	HST-S4-M48 (852 Bar)
M52	5.0	80	1758	725	637	**5,134**	HSW-5 / HHW-8	752	HST-S4-M52 (1017 Bar)
M56	5.5	85	2030	725	736	**6,371**	HSW-8 / HHW-8	868	HST-S5-M56 (804 Bar)
M64	6.0	95	2676	725	970	**9,544**	HSW-10 / HHW-8	1,145	HST-S5-M64 (1060 Bar)
M72	6.0	105	3460	655	1,133	**12,462**	HSW-10 / HHW-14	1,337	HST-S6-M72 (864 Bar)
M80	6.0	115	4344	655	1,423	**17,298**	HSW-20 / HHW-18	1,679	HST-S6-M80 (1085 Bar)
M90	6.0	130	5591	655	1,831	**24,965**	HSW-20 / HHW-18	2,161	HST-S7-M90 (1008 Bar)
M100	6.0	145	6995	655	2,291	**34,620**	HSW-35 / HHW-30	2,703	HST-S7-M100 (1261 Bar)