

▼ Shown: S3000PX



Safety and Performance

- Compact, high-strength uni-body construction provides a small operating radius without sacrificing endurance
- 35° rotation angle and rapid return stroke for fast operation
- Tough manifold design with added safety feature for enhanced operator safety.

Simplicity

- 360° click-on reaction arm with quick release lever provides easier handling, even with gloves on
- Includes robust handle or lifting eye which mounts on both sides of tool for extra maneuverability
- Push button square drive release for quickly reversing the square drive for tightening or loosening.

Versatility

- With enhanced tilt and swivel TSP300 manifold for horizontal and vertical maneuverability, with greater durability ¹⁾

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across full stroke
- Optional Angle-of-Turn Indicator provides measurement of rotation.

ATEX declared

- All S-Series X-Edition tools are CE - ATEX declared and are shipped complete with a calibration certificate.

¹⁾ TSP300 is designed for X-Edition tools only, and is not compatible with previous edition tools. For replacement components for existing tools, refer to repair sheet on www.enerpac.com

Setting New Standards in Safety, Simplicity and Performance



Two Handle Styles

Robust angled positioning handle comes standard with every S-Series (X-Edition) tool. Straight positioning handles are available as accessories.

Compatible
S-Series
(X-Edition)
wrenches

S1500PX, S3000PX
S6000PX, S11000PX
S25000PX

Model Nr.
Angled
positioning
handles
(standard)

SWH6A
SWH10A

Model Nr.
Straight
positioning
handles
(optional)

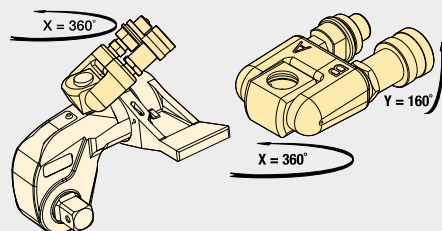
SWH6S
SWH10S
SWH10EA ²⁾

²⁾ SWH10EA is an lifting eye.



TSP300 Tilt & Swivel Manifold

Standard included on S-PX models: the TSP300 tilt and swivel manifold with robust interlocking design provides 360° X-axis rotation and 160° Y-axis rotation.



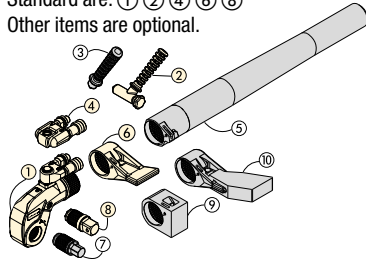
ERAK-Series, Reaction Arm Kits

Provides reaction point options for S1500PX, S3000PX and S6000PX square drive torque wrenches.

Significantly improves worker safety by providing a safety tested and full torque rated reaction arm, and increases tool fit.

X-Edition, Square Drive Hydraulic Torque Wrenches

Standard are: ① ② ④ ⑥ ⑧
Other items are optional.



- | | |
|-----------------------------------|-------------------------|
| ① Drive Unit | ⑥ Standard Reaction Arm |
| ② Angled Positioning Handle | ⑦ Allen®-Key Drive |
| ③ Straight Positioning Handle | ⑧ Square Drive |
| ④ TSP300 Pro-Series Tilt & Swivel | ⑨ Short Reaction Arm |
| ⑤ Reaction Tube Extension | ⑩ Extended Reaction Arm |



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb:
Loosening torque equals about 250% of tightening torque.

S Series X-Edition



Nominal Torque Output:

35.455 Nm

Square Drive Range:

3/4 - 2 1/2 inch

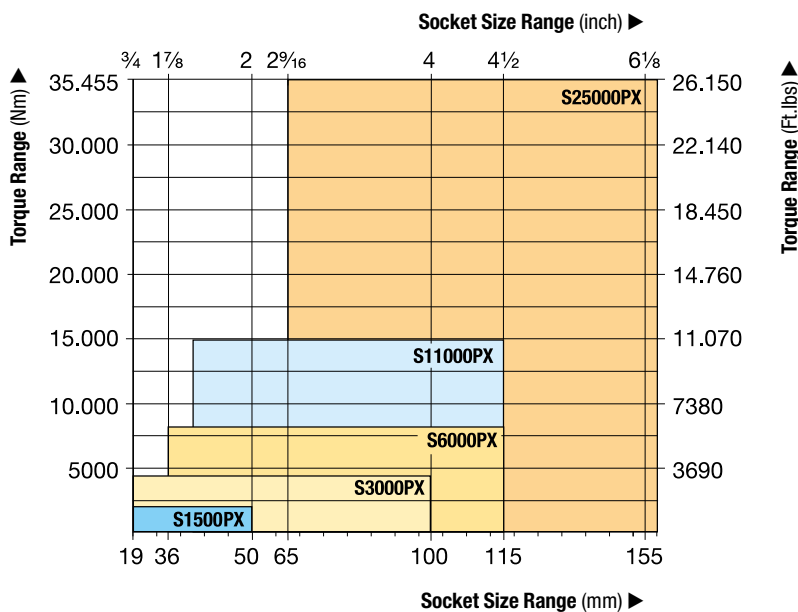
Nose Radius:

25 - 64 mm

Maximum Operating Pressure:

690 bar

TORQUE WRENCH SELECTION (based on socket size range)



Use only Heavy-Duty Impact Sockets

For power driven torqueing equipment, according to ISO2725

and ISO1174; DIN 3129 and DIN 3121 or ASME-B107.2/1995.

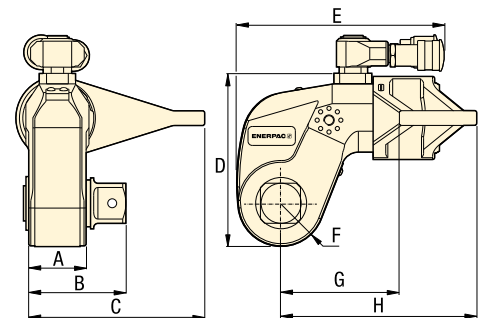
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Back-Up Spanners

Hands free tool to be used to stop the back nut from turning during make up or break out.

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Nominal Torque at 690 bar		Minimum Torque at 69 bar		Square Drive Size (inch)	Square Drive Model Nr. (included with wrench)	Angle-of-Turn Model Nr. (optional)	Torque Wrench Model Number *	Dimensions (mm)								(kg)
(Nm)	(Ft.lbs)	(Nm)	(Ft.lbs)					A	B	C	D	E	F	G	H	
1952	1440	195	144	3/4	SD15-012	AOT15	S1500PX	39	65	108	97	136	25	70	129	3,2
4373	3225	438	323	1	SD30-100	AOT30	S3000PX	48	78	135	128	173	33	90	161	5,6
8338	6150	834	615	1 1/2	SD60-108	AOT60	S6000PX	55	92	169	157	192	40	110	188	9,2
15.151	11.175	1516	1118	1 1/2	SD110-108	AOT110	S11000PX	72	114	197	190	228	50	133	229	15,8
35.455	26.150	3545	2615	2 1/2	SD250-208	AOT250	S25000PX	89	143	246	244	287	64	182	295	32,2

* To order a S-Series (X-Edition) torque wrench fitted without a TSP300 tilt and swivel manifold, remove the "P" prior to the "X" in the tool model number, example: **S1500X**.

www.enerpac.com

Maximum Torque at 690 bar:

35.455 Nm

Hexagon Size Allen Drive:

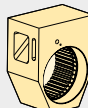
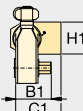
½ - 2¼ inch

Hexagon Size Allen Drive:

14 - 85 mm

For
S
Series



Torque Wrench	Optional Allen® Drives, Imperial				Optional Allen® Drives, Metric				Short Reaction Arm for Allen Drives			
												
Model Number	Hexagon Size ¹⁾	Maximum Torque	Model Number	Dim.	Hexagon Size ¹⁾	Maximum Torque	Model Number	Dim.	Model Number	Dimensions (mm)		
	(inch)	(Nm)		B1 (mm)	(mm)	(Nm)		B1 (mm)		C1	H1	
S1500PX (1952 Nm)	½	481	SDA15008	66	14	644	SDA1514	66	SRA15X	67,5	74	
	⅝	936	SDA15010	67	17	1152	SDA1517	68				
	¾	1620	SDA15012	71	19	1607	SDA1519	70				
	7⁄8	1952	SDA15014	74	22	1952	SDA1522	73				
	1	1952	SDA15100	77	24	1952	SDA1524	74				
S3000PX (4373 Nm)	⅝	936	SDA30010	77	17	1152	SDA3017	77	SRA30X	80,0	74	
	¾	1620	SDA30012	80	19	1607	SDA3019	79				
	7⁄8	2569	SDA30014	83	22	2488	SDA3022	82				
	1	3830	SDA30100	86	24	3234	SDA3024	84				
	1⅝	4373	SDA30102	88	27	4373	SDA3027	85				
	1¼	4373	SDA30104	89	30	4373	SDA3030	87				
	–	–	–	–	32	4373	SDA3032	88				
S6000PX (8338 Nm)	⅝	936	SDA60010	85	17	1152	SDA6017	86	SRA60X	91,5	89	
	¾	1620	SDA60012	89	19	1607	SDA6019	88				
	7⁄8	2569	SDA60014	92	22	2488	SDA6022	91				
	1	3830	SDA60100	95	24	3234	SDA6024	93				
	1⅝	5457	SDA60102	97	27	4603	SDA6027	94				
	1¼	7484	SDA60104	98	30	6311	SDA6030	96				
	–	–	–	–	32	7660	SDA6032	97				
S11000PX (15.151 Nm)	1¼	7484	SDA110104	115	30	6311	SDA11030	112	SRA110X	127,5	106	
	1⅝	9958	SDA110106	117	32	7660	SDA11032	114				
	1½	12.928	SDA110108	118	36	10.901	SDA11036	117				
	1⅝	15.151	SDA110110	122	41	15.151	SDA11041	121				
	1¾	15.151	SDA110112	125	46	15.151	SDA11046	127				
S25000PX (35.455 Nm)	1½	12.928	SDA250108	141	36	10.901	SDA25036	140	SRA250X	158,5	135	
	1⅝	16.433	SDA250110	145	41	16.107	SDA25041	144				
	1¾	20.520	SDA250112	148	46	22.744	SDA25046	148				
	1⅞	25.245	SDA250114	149	50	29.211	SDA25050	151				
	2	30.635	SDA250200	151	55	35.455	SDA25055	154				
	2¼	35.455	SDA250204	154	60	35.455	SDA25060	158				
	–	–	–	–	65	35.455	SDA25065	161				
	–	–	–	–	70	35.455	SDA25070	164				
	–	–	–	–	75	35.455	SDA25075	168				
	–	–	–	–	85	35.455	SDA25085	175				

¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.

Accessories for S-Series, X-Edition Wrenches

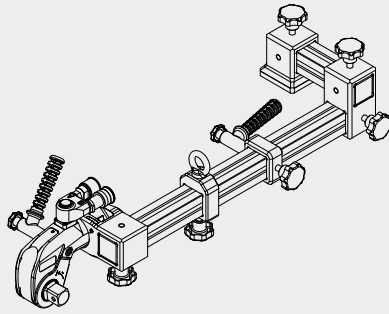


ERAK-Series, Reaction Arm Kits

Provides reaction point options for S1500PX, S3000PX and S6000PX.

Significantly improves worker safety by providing a safety tested and full torque rated reaction arm, and increases tool fit.

- Replaces multiple custom reaction arms
- Eliminates the need for Extended Reaction Arm (SRS-X) and Reaction Tubes (RTE-X).

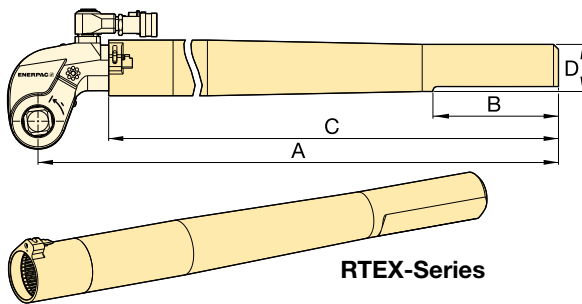


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RTEX SRSX Series



RTEX-Series, Reaction Tube Extensions

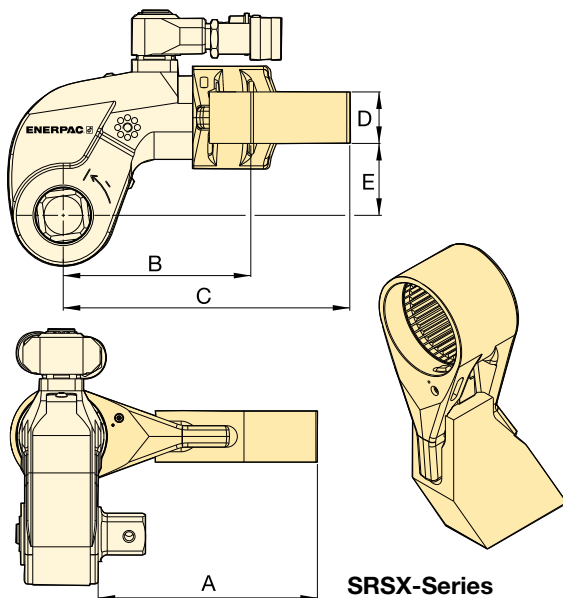


- Full torque rated
- Increases tool fit in restricted access areas

For Torque Wrench Model Number	Model Number	Dimensions (mm)				 (kg) *
		A	B	C	D	
S1500PX	RTE15X	706	152	636	58	4,6
S3000PX	RTE30X	733	152	647	57	5,5
S6000PX	RTE60X	747	152	659	65	7,7
S11000PX	RTE110X	769	152	675	76	11,2
S25000PX	RTE250X	813	152	685	100	17,3

* Weights indicated are for the accessories only and do not include the wrench.

SRSX-Series, Extended Reaction Arms



- Lightweight interchangeable design.

For Wrench Model Nr.	Max. Torque (Nm)	Model Number	Dimensions (mm)					 (kg) *
			A	B	C	D	E	
S1500PX	1801	SRS151X	94	86	127	24	34	0,8
	1641	SRS152X	119	97	138	24	34	1,0
	1533	SRS153X	145	109	148	24	34	1,2
S3000PX	3918	SRS301X	111	106	168	34	48	1,6
	3712	SRS302X	137	117	182	34	48	2,0
	3574	SRS303X	162	132	198	34	48	2,5
S6000PX	7842	SRS601X	138	128	192	39	62	2,3
	7454	SRS602X	163	144	207	39	62	2,7
	7175	SRS603X	189	159	222	39	62	3,4
S11000PX	14.650	SRS1101X	149	157	232	46	76	4,4
	13.957	SRS1102X	175	172	247	46	76	5,1
	13.391	SRS1103X	200	187	261	46	76	5,8
S25000PX	33.538	SRS2501X	183	209	295	50	100	7,6
	32.049	SRS2502X	208	222	310	50	100	8,4
	30.750	SRS2503X	233	236	326	50	100	10,0

* Weights indicated are for the accessories only and do not include the wrench.

▼ Typical Reaction Arm Kit assembly with optional wrench adaptor assembly



- Provides reaction point options for most common Enerpac S and RSL (RSQ)-Series Square Drive torque wrenches.
- Significantly improves worker safety by providing a safety tested and full torque rated reaction arm, and increases tool fit
- Can be configured in unique standard setups which are suitable to repetitive work
- Can be used with hexagon Allen-Key® drives on the torque wrench
- Replaces multiple custom reaction arms
- Eliminates the need for Extended Reaction Arm and Reaction Tubes.

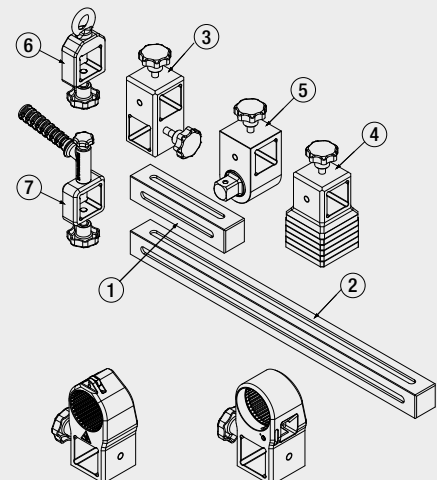
▼ To overcome the absence of an adjacent bolt as the proper reaction point, the ERAK3000 Reaction Arm was the ideal solution during maintenance using the S3000X on a Caterpillar bulldozer, eliminating the need for a custom reaction arm.



ERAK - Reaction Arm Kits

Complete Kit Includes the following components:

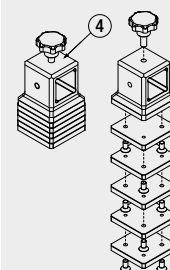
- ① Short Beam – 200 mm (7.9 inch)
- ② Long Beam – 450 mm (17.7 inch)
- ③ Beam Connector Assembly, 90°
- ④ Reaction Foot Assembly
- ⑤ Square Drive Adaptor Assembly
- ⑥ Lifting Point Assembly
- ⑦ Positioning Handle Assembly



TWRAKRSL * Wrench Adaptor Assembly for RSL-Series

TWRAKS * Wrench Adaptor Assembly for S-Series

* The Wrench Adaptors must be ordered separately.

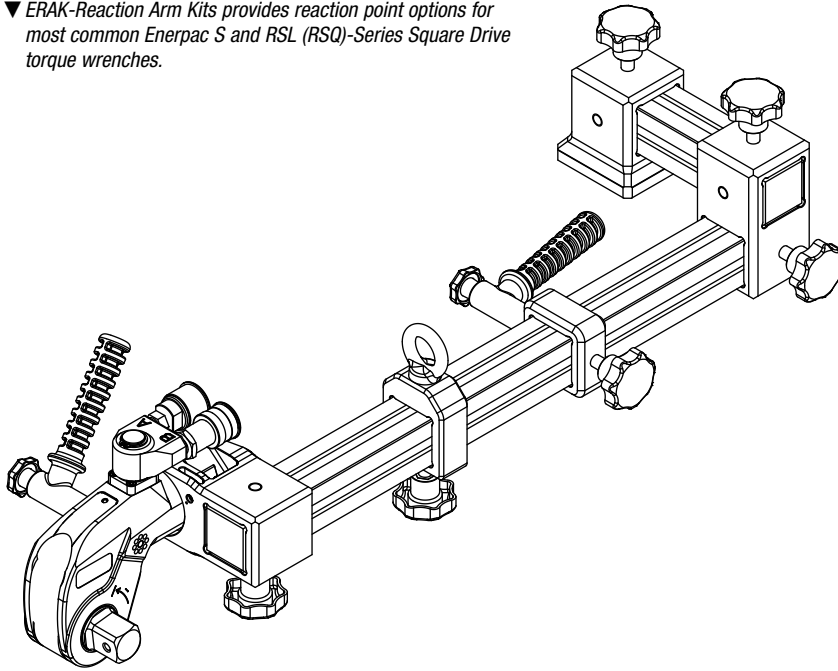


Reaction Foot Assembly

The reaction foot can be used on its own, or with any number of the 5 spacer plates included. Spacer plates should be added as and when required by the application.

Reaction Arm Kits for S and RSL-Series Wrenches

▼ ERAK-Reaction Arm Kits provides reaction point options for most common Enerpac S and RSL (RSQ)-Series Square Drive torque wrenches.



ERAK Series



Min. - Max. Length:

149 - 555 mm

Full Torque Rated:

2034 - 10.847 Nm

Full Torque Rated:

1500 - 8000 Ft.lbs

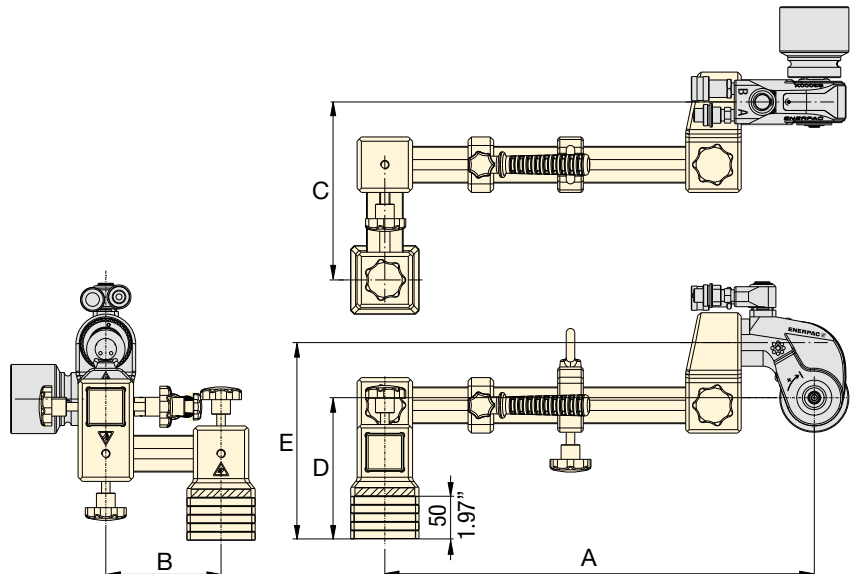
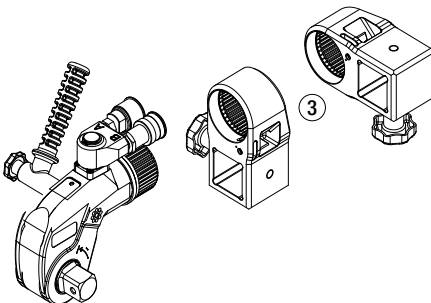


Back-Up Spanners

Hands free tool to be used to stop the back nut from turning during make up or break out.

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▼ The ERAK-Adaptor can be rotated incrementally through 360 degrees and can maintain stability against a reaction point up to full torque.



SELECTION CHART REACTION ARM KITS & OPTIONAL WRENCH ADAPTOR ASSEMBLY

Use With Torque Wrench Model	Model Number Reaction Arm Kit	Model Number Wrench Adaptor Assembly *	Torque Wrench Output		Maximum ERAK Working Torque		Dimensions (mm)					 (kg)
			(Nm)	(Ft.lbs)	(Nm)	(Ft.lbs)	A min. - max.	B	C	D	E	
S1500PX	ERAK1500	TWRAKS15	1952	1440	2034	1500	149 - 495	148	215	118	164	11,0
RSL1500		TWRAKRSL2-1500	1909	1408	2034	1500	185 - 530	148	215	114	164	11,0
S3000PX	ERAK3000	TWRAKS3	4373	3225	4745	3500	183 - 503	135	209	111	175	17,1
RSL3000		TWRAKRSL4-3000	4176	3080	4745	3500	222 - 542	135	209	117	175	17,1
S6000PX	ERAK8000	TWRAKS6	8338	6150	10.847	8000	270 - 552	116	199	155	236	36,2
RSL5000		TWRAKRSL6-5000	7190	5303	10.847	8000	214 - 496	116	199	166	236	36,2
RSL8000		TWRAKRSL8-8000	10.659	7862	10.847	8000	273 - 555	116	199	166	236	36,2

* The Wrench Adaptors must be ordered separately.

BSH-Series, Heavy-Duty Sockets

ENERPAC 

- Heavy-duty impact sockets
- Supplied with "Pin and O-Ring"

METRIC SOCKETS							
3/4" Square Drive		1" Square Drive		1 1/2" Square Drive		2 1/2" Square Drive	
A/F (mm)	Model Number	A/F (mm)	Model Number	A/F (mm)	Model Number	A/F (mm)	Model Number
19	BSH7519	19	BSH1019	36	BSH1536	65	BSH2565
24	BSH7524	24	BSH1024	41	BSH15163	70	BSH2570
27	BSH7527	27	BSH1027	46	BSH1546	75	BSH2575
30	BSH7530	30	BSH1030	50	BSH1550	80	BSH2580
32	BSH7532	32	BSH1032	55	BSH1555	85	BSH2585
36	BSH7536	36	BSH1036	60	BSH1560	90	BSH2590
41	BSH75163	41	BSH10163	65	BSH1565	95	BSH2595
46	BSH7546	46	BSH1046	70	BSH1570	100	BSH25100
50	BSH7550	50	BSH1050	75	BSH1575	105	BSH25105
—	—	55	BSH1055	80	BSH1580	110	BSH25110
—	—	60	BSH1060	85	BSH1585	115	BSH25115
—	—	65	BSH1065	90	BSH1590	120	BSH25120
—	—	70	BSH1070	95	BSH1595	125	BSH25125
—	—	75	BSH1075	100	BSH15100	135	BSH25135
—	—	80	BSH1080	105	BSH15105	140	BSH25140
—	—	85	BSH1085	110	BSH15110	145	BSH25145
—	—	90	BSH1090	115	BSH15115	150	BSH25150
—	—	95	BSH1095	—	—	155	BSH25155
—	—	100	BSH10100	—	—	—	—

BSH Series



Hexagon Sizes (A/F):

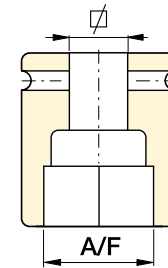
19 - 155 mm | 3/4 - 6 1/8"



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

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Hexagon Bolt and Nut Sizes

See the table of hexagon sizes of bolts, nuts and related thread diameters.

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IMPERIAL SOCKETS											
3/4" Square Drive		1" Square Drive				1 1/2" Square Drive				2 1/2" Square Drive	
A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number
3/4"	BSH7519	3/4"	BSH1019	2 5/16"	BSH10231	1 7/16"	BSH15144	2 13/16"	BSH15281	2 7/16"	BSH25244
7/8"	BSH75088	7/8"	BSH10088	2 3/8"	BSH10238	1 1/2"	BSH1538	2 7/8"	BSH15288	2 1/2"	BSH25250
1 5/16"	BSH75094	1 5/16"	BSH10094	2 7/16"	BSH10244	1 9/16"	BSH15156	2 15/16"	BSH1575	2 13/16"	BSH2565
1 1/16"	BSH7527	1 1/16"	BSH1027	2 1/2"	BSH10250	1 5/8"	BSH15163	3"	BSH15300	2 5/8"	BSH25263
1 3/16"	BSH7530	1 3/16"	BSH1030	2 9/16"	BSH1065	1 11/16"	BSH1543	3 1/16"	BSH15306	2 11/16"	BSH25269
1 1/4"	BSH75125	1 1/4"	BSH10125	2 5/8"	BSH10263	1 3/4"	BSH15175	3 1/8"	BSH15313	2 3/4"	BSH2570
1 5/16"	BSH75131	1 5/16"	BSH10131	2 11/16"	BSH10269	1 13/16"	BSH1546	3 3/16"	BSH15319	2 11/16"	BSH25281
1 3/8"	BSH7535	1 3/8"	BSH1035	2 3/4"	BSH1070	1 7/8"	BSH15188	3 1/4"	BSH15325	2 7/8"	BSH25288
1 7/16"	BSH75144	1 7/16"	BSH10144	2 13/16"	BSH10281	1 15/16"	BSH15194	3 3/8"	BSH15338	2 15/16"	BSH2575
1 1/2"	BSH7538	1 1/2"	BSH1038	2 7/8"	BSH10288	2"	BSH15200	3 1/2"	BSH15350	3"	BSH25300
1 9/16"	BSH75156	1 9/16"	BSH10156	2 15/16"	BSH1075	2 1/16"	BSH15206	3 5/8"	BSH15363	3 1/16"	BSH25306
1 5/8"	BSH75163	1 5/8"	BSH10163	3"	BSH10300	2 1/8"	BSH15213	3 3/4"	BSH1595	3 1/8"	BSH25313
1 11/16"	BSH7543	1 11/16"	BSH1043	3 1/16"	BSH10306	2 3/16"	BSH15219	3 7/8"	BSH15388	3 3/16"	BSH25319
1 3/4"	BSH75175	1 3/4"	BSH10175	3 3/8"	BSH10313	2 1/4"	BSH15225	3 15/16"	BSH15100	3 1/4"	BSH25325
1 13/16"	BSH7546	1 13/16"	BSH1046	3 3/16"	BSH10319	2 5/16"	BSH15231	4"	BSH15400	3 3/8"	BSH25338
1 7/8"	BSH75188	1 7/8"	BSH10188	3 1/4"	BSH10325	2 3/8"	BSH15238	4 1/8"	BSH15105	3 1/2"	BSH25350
1 15/16"	BSH75194	1 15/16"	BSH10194	3 3/8"	BSH10338	2 7/16"	BSH15244	4 3/16"	BSH15419	3 5/8"	BSH25363
2"	BSH75200	2"	BSH10200	3 1/2"	BSH10350	2 1/2"	BSH15250	4 1/4"	BSH15425	3 3/4"	BSH2595
—	—	2 1/16"	BSH10206	3 5/8"	BSH10363	2 9/16"	BSH1565	4 5/16"	BSH15110	3 7/8"	BSH25388
—	—	2 1/8"	BSH10213	3 3/4"	BSH1095	2 5/8"	BSH15263	4 3/8"	BSH15438	3 15/16"	BSH25100
—	—	2 3/16"	BSH10219	3 7/8"	BSH10388	2 11/16"	BSH15269	4 1/2"	BSH15450	4"	BSH25400
—	—	2 1/4"	BSH10225	—	—	2 3/4"	BSH1570	4 5/8"	BSH15463	4 1/8"	BSH25105

Back-Up Spanners for Torque Wrenches

▼ BUS03 Back-Up Spanner (safety cable not shown)



- Hands free solution – improves operator safety
- Eliminates the need for flogging spanners
- Speeds up the bolting process
- Includes safety cable with quick-connect carabiner's, stainless steel tethers and secure Allen-key fixings
- Won't lock on during operations
- Lightweight, spark-free and non-impact for improved safety and ease of use
- Two hexagon sizes in one tool, so fewer tools to carry.

▼ SELECTION CHART BACK-UP SPANNERS

Hexagon Sizes (A/F)		Model Number	Dimensions (mm)				 (kg)
S1 to S2 (mm)	S1 to S2 (inch)		A	B	C	D	
27 - 32	1 ¹ / ₁₆ - 1 ¹ / ₄ "	BUS01	51	98	15	M8	0,3
36 - 41	1 ⁷ / ₁₆ - 1 ⁵ / ₈ "	BUS02	62	119	15	M8	0,4
46 - 50	1 ¹³ / ₁₆ - 2"	BUS03	75	141	20	M8	0,6
55 - 60	2 ³ / ₁₆ - 2 ³ / ₈ "	BUS04	89	166	20	M12	0,8
65 - 70	2 ⁹ / ₁₆ - 2 ³ / ₄ "	BUS05	100	190	25	M16	1,0
75 - 80	2 ¹⁵ / ₁₆ - 3 ¹ / ₈ "	BUS06	112	213	25	M16	1,3
–	3 ¹ / ₂ - 3 ⁷ / ₈ "	BUS07	135	257	30	M20	2,2
–	4 ¹ / ₄ - 4 ⁵ / ₈ "	BUS08	163	310	30	M20	3,3
85 - 90	–	BUS09	126	242	25	M16	1,7
95 - 100	3 ³ / ₄ - 3 ¹⁵ / ₁₆ "	BUS10	138	266	30	M20	2,3
105 - 110	4 ¹ / ₈ - 4 ¹⁵ / ₁₆ "	BUS11	153	297	30	M20	3,1
115 - 120	–	BUS12	165	320	30	M20	3,5

BUS Series

Hexagon Sizes (A/F):
27 - 120 mm

Hexagon Sizes (A/F):
1¹/₁₆ - 4¹⁵/₁₆ inch

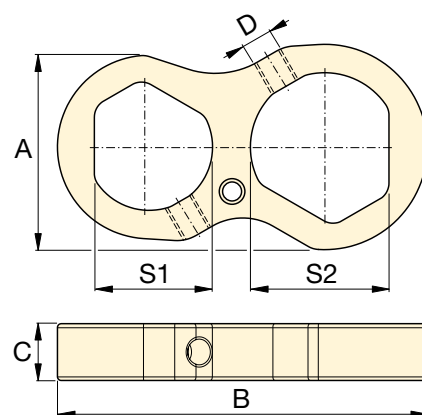


Back-Up Spanners

Hands free operation of a hydraulic torque wrench improves the safety of the operator significantly.

Enerpac Back-Up Spanners are a hands free tool that eliminates the need to use a flogging spanner as a backing tool.

The Back-Up Spanners have been specifically designed to prevent them from locking onto the nut during bolt torquing operations. They fit easily onto the back nut and prevent it from turning during make up or break out of bolted joints.



▼ Enerpac Back-Up Spanners to be used to stop back nut from turning during make up or break out.



▼ Shown: W4206X hexagon cassette with W4000PX drive unit



Ex II 2 GD T4

Safety and Performance

- Superior strength to size ratio provides easy access to difficult to reach applications without sacrificing endurance
- 30° rotation angle and rapid return stroke provide fast operation
- Tough manifold design with added safety feature for enhanced operator safety.

Simplicity

- Fast release drive unit enables rapid exchange of cassettes, no tools required
- Quick and easy disassembly for maintenance without special tools
- Drive units include robust handle which mounts on both sides of cassettes to allow for extra maneuverability.

Versatility

- Standard with enhanced tilt and swivel TSP300 manifold for horizontal and vertical maneuverability, with greater durability ¹⁾
- X-Edition drive units, cassettes and most accessories are compatible with standard edition tools ¹⁾
- Drive unit compatible with UltraSlim W-SL cassettes.

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across full stroke.

¹⁾ TSP300 is designed for X-Edition tools only, and is not compatible with previous edition tools. For replacement components for existing tools, refer to repair sheet on www.enerpac.com



Two Handle Styles

Robust angled positioning handle comes standard with every W-Series (X-Edition) drive unit.

Compatible with W-Series (X-Edition) Cassettes

Model Nr. Angled positioning handles (standard)

Model Nr. Straight positioning handles (optional)

W2000PX, W4000PX

SWH6A

SWH6S

W8000PX, W15000PX

SWH10A

SWH10S

W22000PX, W35000PX

SWH10EA ²⁾

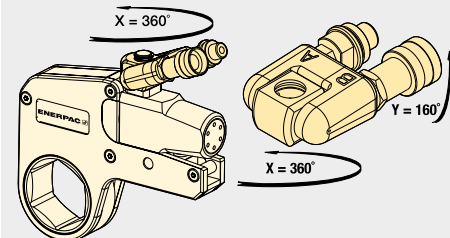
²⁾ SWH10EA is an eyebolt handle.



TSP300 Tilt & Swivel Manifold

Standard included on W-PX models: the TSP300 tilt and swivel manifold with robust interlocking design provides 360° X-axis

rotation and 160° Y-axis rotation.



CE - ATEX declared

All W-Series X-edition drive units are CE - ATEX declared.

All W-Series X-edition hexagon cassettes are CE - ATEX declared

and are shipped complete with a calibration certificate.

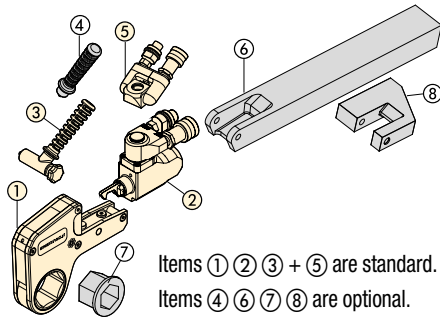
CE **Ex** II 2 GD T4



Back-Up Spanners, BUS-Series

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

Double-Acting Hydraulic Hexagon Torque Wrenches, X-Edition



- ① Hexagon Cassette (pages 230-237)
- ② Drive Unit (page 229)
- ③ Angled Positioning Handle (page 228)
- ④ Straight Positioning Handle (page 228)
- ⑤ Pro-Series Swivel TSP300 (page 228)
- ⑥ Extended Reaction Arm (page 238)
- ⑦ Reducer Insert (pages 230-237)
- ⑧ Reaction Paddle (page 238)

Items ① ② ③ + ⑤ are standard.
Items ④ ⑥ ⑦ ⑧ are optional.

W Series X-Edition



Nominal Torque at 690 bar:

47.454 Nm

Hexagon Range:

30 - 155 mm / 1 1/16 - 6 1/8"

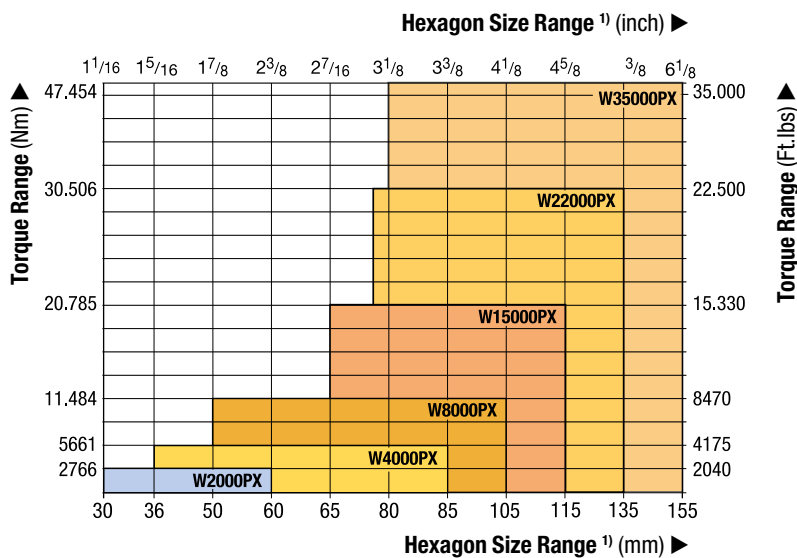
Nose Radius:

31 - 115 mm

Maximum Operating Pressure:

690 bar

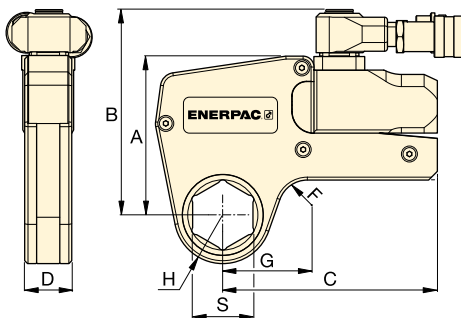
DRIVE UNIT AND INTERCHANGEABLE CASSETTE SELECTION



Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench and pump matrix.

Page: **273**



These rigid steel wrenches with low-profile interchangeable hexagon cassettes guarantee durability and maximum versatility in bolting applications. ►



▼ SELECTION CHART HYDRAULIC DRIVE UNIT

Hexagon Range *		Nominal Torque at 690 bar (10,000 psi)		Drive Unit Model Number **	Minimum Torque at 69 bar (1000 psi)		Dimensions (inch) (see pages 230-237 for dimensions G, H and S)					***	Dimensions (mm) (see pages 230-237 for dimensions G, H and S)					***
(inch)	(mm)	(Ft.lbs)	(Nm)		(Ft.lbs)	(Nm)	A	B	C	D	F	(lbs)	A	B	C	D	F	(kg)
1 1/16 - 2 3/8	30 - 60	2040	2766	W2000PX	204	276	4.29	5.55	5.83	1.26	0.79	3.1	109	141	148	32	20	1,4
1 5/16 - 3 3/8	36 - 85	4175	5661	W4000PX	417	566	5.35	6.57	7.01	1.61	0.79	4.5	136	167	178	41	20	2,0
1 7/8 - 4 1/8	50 - 105	8470	11,484	W8000PX	847	1148	6.77	8.07	8.19	2.07	0.98	6.6	172	205	208	53	25	3,0
2 7/16 - 4 5/8	65 - 115	15,330	20,785	W15000PX	1533	2078	8.15	9.45	9.96	2.48	0.79	10.7	207	240	253	63	20	5,0
2 5/16 - 5 3/8	75 - 135	22,500	30,506	W22000PX	2250	3050	8.94	10.46	11.68	3.03	1.38	17.0	227	266	297	77	35	7,7
3 1/8 - 6 1/8	80 - 155	35,000	47,454	W35000PX	3500	4745	10.54	11.94	13.60	3.57	1.98	26.4	268	301	345	91	50	11,4

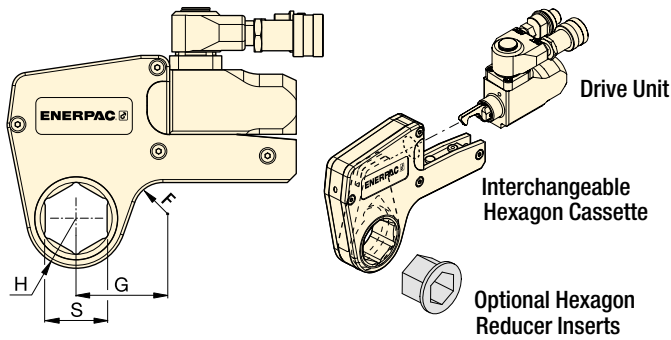
* With in-line reaction foot.

** To order a W-series wrench without the TSP300 swivel, remove suffix "P" from the model number. Example: W2000X.

*** Weight of drive unit without hexagon cassette.

W2000-Series, Hexagon Cassettes

ENERPAC 



Optional Hexagon Reducers Inserts

Available upon request and made to order.

Example: Model Nr. **W2206R114**
HEX REDUCER 2 3/8" (60MM) x 1 1/4" (32MM) A/F

W Series X-Edition



Hexagon Cassette Range:

1 1/16 - 2 3/8 inches

Hexagon Cassette Range:

30 - 60 mm

Maximum Operating Pressure:

690 bar / 10.000 psi



Hexagon Bolt and Nut Sizes

See the table for hexagon sizes of bolts, nuts and related thread diameters.

Page: **411**

▼ SELECTION CHART HEXAGON CASSETTES

Drive Unit Model Number	Hexagon Size ¹⁾ S		Model Number Cassette	Maximum Torque at 690 bar (10.000 psi)		Dim. G (inch)	Nose Radius H (inch)		Dim. G (mm)	Nose Radius H (mm)	
	(inch)	(mm)		(Ft.lbs)	(Nm)						
 W2000PX	1 1/16	–	W2101X	2040	2766	2.11	1.22	4.19	53,7	31,0	2,1
	1 1/8	–	W2102X	2040	2766	2.11	1.22	4.19	53,7	31,0	2,1
	1 3/16	30	W2103X	2040	2766	2.11	1.22	4.19	53,7	31,0	2,1
	1 1/4	32	W2104X	2040	2766	2.11	1.22	4.19	53,7	31,0	2,1
	1 5/16	–	W2105X	2040	2766	2.11	1.22	4.48	53,7	31,0	2,1
	1 3/8	–	W2106X	2040	2766	2.11	1.22	4.43	53,7	31,0	2,1
	1 7/16	36	W2107X	2040	2766	2.11	1.22	4.37	53,7	31,0	2,1
	1 1/2	38	W2108X	2040	2766	2.29	1.32	4.51	58,2	33,5	2,2
	1 9/16	–	W2109X	2040	2766	2.29	1.32	4.44	58,2	33,5	2,2
	1 5/8	41	W2110X	2040	2766	2.29	1.32	4.38	58,2	33,5	2,2
	1 11/16	–	W2111X	2040	2766	2.38	1.44	4.63	60,5	36,5	2,2
	1 3/4	–	W2112X	2040	2766	2.38	1.44	4.57	60,5	36,5	2,2
	1 13/16	46	W2113X	2040	2766	2.38	1.44	4.46	60,5	36,5	2,2
	1 7/8	–	W2114X	2040	2766	2.48	1.54	4.69	63,1	39,0	2,2
	1 15/16	–	W2115X	2040	2766	2.48	1.54	4.64	63,1	39,0	2,2
	2	50	W2200X	2040	2766	2.48	1.54	4.54	63,1	39,0	2,2
	2 1/16	–	W2201X	2040	2766	2.70	1.65	4.83	68,6	41,8	2,3
	2 1/8	–	W2202X	2040	2766	2.70	1.65	4.74	68,6	41,8	2,3
	2 3/16	55	W2203X	2040	2766	2.70	1.65	4.64	68,6	41,8	2,3
	2 1/4	–	W2204X	2040	2766	2.55	1.75	4.94	64,8	44,5	2,2
	2 5/16	–	W2205X	2040	2766	2.55	1.75	4.84	64,8	44,5	2,2
	2 3/8	60	W2206X	2040	2766	2.55	1.75	4.72	64,8	44,5	2,2

¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.

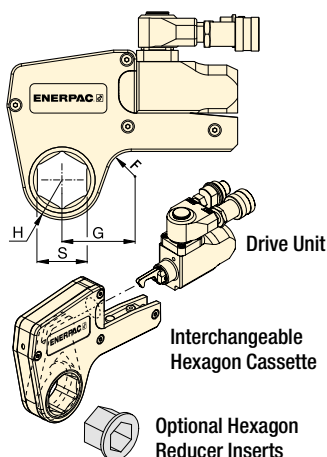
W4000-Series, Hexagon Cassettes



Optional Hexagon Reducers Inserts

Available upon request and made to order. Example: Model Nr. **W4209R200**

HEX REDUCER 2 9/16" (65MM) x 2" (50MM) A/F



W Series X-Edition



Hexagon Cassette Range:

1 5/16 - 3 3/8 inches

Hexagon Cassette Range:

36 - 85 mm

▼ SELECTION CHART HEXAGON CASSETTES

Drive Unit Model Number	Hexagon Size ¹⁾ S		Model Number Cassette	Maximum Torque at 690 bar (10.000 psi)		Dim.		Nose Radius		Dim.		Nose Radius	
	(inch)	(mm)		(Ft.lbs)	(Nm)	G (inch)	H (inch)	(lbs)		G (mm)	H (mm)	(kg)	
	1 5/16	—	W4105X	4175	5661	2.40	1.46	8.15	61,0	37,0	3,7		
	1 3/8	—	W4106X	4175	5661	2.40	1.46	8.15	61,0	37,0	3,7		
	1 7/16	36	W4107X	4175	5661	2.40	1.46	8.15	61,0	37,0	3,7		
	1 1/2	—	W4108X	4175	5661	2.40	1.46	8.31	61,0	37,0	3,7		
	1 9/16	—	W4109X	4175	5661	2.40	1.46	8.22	61,0	37,0	3,7		
	1 5/8	41	W4110X	4175	5661	2.40	1.46	8.15	61,0	37,0	3,7		
	1 11/16	—	W4111X	4175	5661	2.52	1.56	8.43	64,0	39,5	3,8		
	1 3/4	—	W4112X	4175	5661	2.52	1.56	8.35	64,0	39,5	3,8		
	1 13/16	46	W4113X	4175	5661	2.52	1.56	8.25	64,0	39,5	3,8		
	1 7/8	—	W4114X	4175	5661	2.63	1.63	8.45	66,7	41,5	3,9		
	1 15/16	—	W4115X	4175	5661	2.63	1.63	8.39	66,7	41,5	3,9		
	2	50	W4200X	4175	5661	2.63	1.63	8.28	66,7	41,5	3,9		
	2 1/16	—	W4201X	4175	5661	2.89	1.73	8.65	73,4	44,0	4,0		
	2 1/8	—	W4202X	4175	5661	2.89	1.73	8.53	73,4	44,0	4,0		
	2 3/16	55	W4203X	4175	5661	2.89	1.73	8.42	73,4	44,0	4,0		
	2 1/4	—	W4204X	4175	5661	2.78	1.83	8.73	70,6	46,5	4,1		
	2 5/16	—	W4205X	4175	5661	2.78	1.83	8.61	70,6	46,5	4,1		
	2 3/8	60	W4206X	4175	5661	2.78	1.83	8.47	70,6	46,5	4,1		
	2 7/16	—	W4207X	4175	5661	3.00	1.95	8.96	76,2	49,5	4,1		
	2 1/2	—	W4208X	4175	5661	3.00	1.95	8.86	76,2	49,5	4,1		
	2 9/16	65	W4209X	4175	5661	3.00	1.95	8.67	76,2	49,5	4,1		
	2 5/8	—	W4210X	4175	5661	3.08	2.07	9.14	78,3	52,5	4,2		
	2 11/16	—	W4211X	4175	5661	3.08	2.07	9.03	78,3	52,5	4,2		
	2 3/4	70	W4212X	4175	5661	3.08	2.07	8.84	78,3	52,5	4,2		
	2 13/16	—	W4213X	4175	5661	3.21	2.18	9.32	81,6	55,3	4,3		
	2 7/8	—	W4214X	4175	5661	3.21	2.18	9.17	81,6	55,3	4,3		
	2 15/16	75	W4215X	4175	5661	3.21	2.18	8.96	81,6	55,3	4,3		
	3	—	W4300X	4175	5661	3.29	2.30	9.51	83,5	58,5	4,4		
	3 1/16	—	W4301X	4175	5661	3.29	2.30	9.42	83,5	58,5	4,4		
	3 1/8	80	W4302X	4175	5661	3.29	2.30	9.16	83,5	58,5	4,4		
	3 3/16	—	W4303X	4175	5661	3.37	2.44	9.92	85,5	62,0	4,5		
	3 1/4	—	W4304X	4175	5661	3.37	2.44	9.92	85,5	62,0	4,5		
	3 5/16	—	W4305X	4175	5661	3.37	2.44	9.92	85,5	62,0	4,5		
	—	85	W4085MX	4175	5661	3.37	2.44	9.92	85,5	62,0	4,5		
	3 3/8	—	W4306X	4175	5661	3.37	2.44	9.92	85,5	62,0	4,5		

¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.

W8000-Series, Hexagon Cassettes

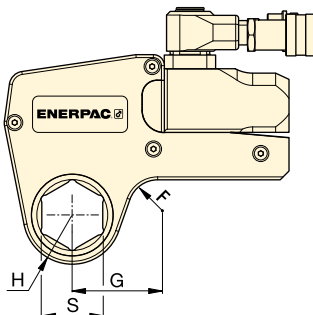
ENERPAC 



Optional Hexagon Reducers Inserts

Available upon request and made to order. Example: Model Nr. **W8302R209**

HEX REDUCER 3 1/8" (80MM) x 2 9/16" (65MM) A/F



W Series X-Edition



Hexagon Cassette Range:

1 7/8 - 4 1/8" / 50 - 105 mm

▼ SELECTION CHART HEXAGON CASSETTES

Drive Unit Model Number	Hexagon Size ¹⁾ S		Model Number Cassette	Maximum Torque at 690 bar (10.000 psi)		Dim. G	Nose Radius		Dim. G	Nose Radius	
	(inch)	(mm)		(Ft.lbs)	(Nm)		H (inch)	(lbs)		H (mm)	(kg)
	1 7/8	—	W8114X	8470	11.484	3.08	1.77	17.97	78,2	45,0	8,1
	1 15/16	—	W8115X	8470	11.484	3.08	1.77	17.89	78,2	45,0	8,1
	2	50	W8200X	8470	11.484	3.08	1.77	17.75	78,2	45,0	8,1
	2 1/16	—	W8201X	8470	11.484	3.15	1.89	17.52	80,0	48,0	8,1
	2 1/8	—	W8202X	8470	11.484	3.15	1.89	17.36	80,0	48,0	8,1
	2 3/16	55	W8203X	8470	11.484	3.15	1.89	17.22	80,0	48,0	8,1
	2 1/4	—	W8204X	8470	11.484	3.25	2.01	17.92	82,5	51,0	8,1
	2 5/16	—	W8205X	8470	11.484	3.25	2.01	17.76	82,5	51,0	8,1
	2 3/8	60	W8206X	8470	11.484	3.25	2.01	17.59	82,5	51,0	8,1
	2 7/16	—	W8207X	8470	11.484	3.38	2.07	17.65	85,9	52,5	8,1
	2 1/2	—	W8208X	8470	11.484	3.38	2.07	17.52	85,9	52,5	8,1
	2 9/16	65	W8209X	8470	11.484	3.38	2.07	17.29	85,9	52,5	8,1
	2 5/8	—	W8210X	8470	11.484	3.34	2.20	17.50	84,8	56,0	8,1
	2 11/16	—	W8211X	8470	11.484	3.34	2.20	17.36	84,8	56,0	7,9
	2 3/4	70	W8212X	8470	11.484	3.34	2.20	17.12	84,8	56,0	7,9
	2 13/16	—	W8213X	8470	11.484	3.35	2.28	17.57	85,0	58,0	7,9
	2 7/8	—	W8214X	8470	11.484	3.35	2.28	17.38	85,0	58,0	7,9
	2 15/16	75	W8215X	8470	11.484	3.35	2.28	17.11	85,0	58,0	7,9
	3	—	W8300X	8470	11.484	3.52	2.38	17.77	89,5	60,5	8,0
	3 1/16	—	W8301X	8470	11.484	3.52	2.38	17.65	89,5	60,5	8,0
	3 1/8	80	W8302X	8470	11.484	3.52	2.38	17.33	89,5	60,5	8,0
	3 3/16	—	W8303X	8470	11.484	3.63	2.60	18.99	92,2	66,0	8,2
	3 1/4	—	W8304X	8470	11.484	3.63	2.60	18.72	92,2	66,0	8,2
	3 5/16	—	W8305X	8470	11.484	3.63	2.60	18.54	92,2	66,0	8,2
	—	85	W8085MX	8470	11.484	3.63	2.60	18.36	92,2	66,0	8,2
	3 3/8	—	W8306X	8470	11.484	3.63	2.60	18.36	92,2	66,0	8,2
	3 7/16	—	W8307IX	8470	11.484	3.63	2.60	18.11	92,2	66,0	8,2
	3 1/2	—	W8308X	8470	11.484	3.63	2.60	17.81	92,2	66,0	8,2
	—	90	W8090MX	8470	11.484	4.05	2.91	20.36	102,9	74,0	8,8
	3 9/16	—	W8309X	8470	11.484	4.05	2.91	20.36	102,9	74,0	8,8
	3 5/8	—	W8310X	8470	11.484	4.05	2.91	20.18	102,9	74,0	8,8
	3 11/16	—	W8311X	8470	11.484	4.05	2.91	19.93	102,9	74,0	8,8
	3 3/4	95	W8312X	8470	11.484	4.05	2.91	19.71	102,9	74,0	8,8
	3 13/16	—	W8313X	8470	11.484	4.05	2.91	19.46	102,9	74,0	8,8
	3 7/8	—	W8314X	8470	11.484	4.05	2.91	19.10	102,9	74,0	8,8
	3 15/16	100	W8315X	8470	11.484	4.33	3.13	20.31	110,0	79,5	9,3
	4	—	W8400X	8470	11.484	4.33	3.13	20.04	110,0	79,5	9,3
	4 1/16	—	W8401IX	8470	11.484	4.33	3.13	19.80	110,0	79,5	9,3
	4 1/8	105	W8402X	8470	11.484	4.33	3.13	19.39	110,0	79,5	9,3

¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.

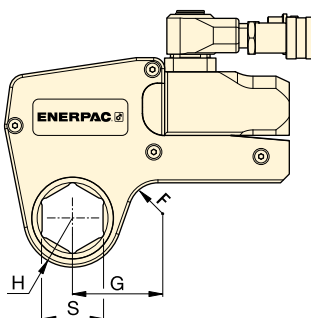
W15000-Series, Hexagon Cassettes



Optional Hexagon Reducers Inserts

Available upon request and made to order. Example: Model Nr. **W15312R302**

HEX REDUCER 3 3/4" (95MM) x 3 1/8" (80MM) A/F



W Series X-Edition



Hexagon Cassette Range:

27/8" - 45/8" / 65 - 115 mm

▼ SELECTION CHART HEXAGON CASSETTES

Drive Unit Model Number	Hexagon Size ¹⁾ S		Model Number Cassette	Maximum Torque at 690 bar (10.000 psi)		Dim.		Nose Radius		Dim.		Nose Radius	
	(inch)	(mm)		(Ft.lbs)	(Nm)	G (inch)	H (inch)	(lbs)		G (mm)	H (mm)	(kg)	
 W15000PX	27/16	—	W15207X	15.330	20.785	3.49	2.32	30.72	88,6	59,0	13,6		
	2 1/2	—	W15208X	15.330	20.785	3.49	2.32	30.72	88,6	59,0	13,6		
	29/16	65	W15209X	15.330	20.785	3.49	2.32	30.72	88,6	59,0	13,6		
	25/8	—	W15210X	15.330	20.785	3.49	2.32	30.72	88,6	59,0	13,6		
	211/16	—	W15211X	15.330	20.785	3.49	2.32	30.72	88,6	59,0	13,6		
	23/4	70	W15212X	15.330	20.785	3.49	2.32	30.72	88,6	59,0	13,6		
	213/16	—	W15213X	15.330	20.785	3.56	2.44	30.62	90,5	62,0	13,7		
	27/8	—	W15214X	15.330	20.785	3.56	2.44	30.39	90,5	62,0	13,7		
	215/16	75	W15215X	15.330	20.785	3.56	2.44	30.08	90,5	62,0	13,7		
	3	—	W15300X	15.330	20.785	3.66	2.54	30.86	92,9	64,5	13,8		
	31/16	—	W15301X	15.330	20.785	3.66	2.54	30.71	92,9	64,5	13,8		
	31/8	80	W15302X	15.330	20.785	3.66	2.54	30.34	92,9	64,5	13,8		
	33/16	—	W15303X	15.330	20.785	3.80	2.74	32.38	96,6	69,5	14,1		
	31/4	—	W15304X	15.330	20.785	3.80	2.74	32.07	96,6	69,5	14,1		
	35/16	—	W15305X	15.330	20.785	3.80	2.74	31.85	96,6	69,5	14,1		
	—	85	W15085MX	15.330	20.785	3.80	2.74	31.85	96,6	69,5	14,1		
	33/8	—	W15306X	15.330	20.785	3.80	2.74	31.63	96,6	69,5	14,1		
	37/16	—	W15307IX	15.330	20.785	3.80	2.74	31.32	96,6	69,5	14,1		
	31/2	—	W15308X	15.330	20.785	3.80	2.74	30.98	96,6	69,5	14,1		
	—	90	W15090MX	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,5		
	39/16	—	W15309X	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,6		
	35/8	—	W15310X	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,6		
	311/16	—	W15311X	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,6		
	33/4	95	W15312X	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,6		
	313/16	—	W15313X	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,5		
	37/8	—	W15314X	15.330	20.785	4.01	2.95	31.70	101,8	75,0	14,5		
	315/16	100	W15315X	15.330	20.785	4.06	3.17	34.02	103,1	80,5	14,8		
	4	—	W15400X	15.330	20.785	4.06	3.17	33.70	103,1	80,5	14,8		
	41/16	—	W15401IX	15.330	20.785	4.06	3.17	33.41	103,1	80,5	14,8		
	41/8	105	W15402X	15.330	20.785	4.06	3.17	33.09	103,1	80,5	14,8		
	43/16	—	W15403IX	15.330	20.785	4.06	3.17	32.81	103,1	80,5	14,8		
	41/4	—	W15404X	15.330	20.785	4.06	3.17	32.29	103,1	80,5	14,8		
	45/16	110	W15405X	15.330	20.785	4.52	3.44	35.61	114,8	87,5	15,1		
	43/8	—	W15406X	15.330	20.785	4.52	3.44	35.32	114,8	87,5	15,1		
	47/16	—	W15407X	15.330	20.785	4.52	3.44	34.99	114,8	87,5	15,1		
	41/2	—	W15408IX	15.330	20.785	4.52	3.44	34.63	114,8	87,5	15,1		
	—	115	W15115MX	15.330	20.785	4.52	3.44	34.63	114,8	87,5	15,1		
	49/16	—	W15409IX	15.330	20.785	4.52	3.44	34.28	114,8	87,5	15,1		
	45/8	—	W15410IX	15.330	20.785	4.52	3.44	33.72	114,8	87,5	15,1		

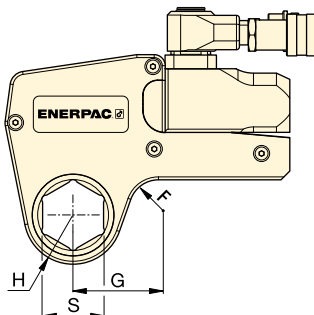
¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.



Optional Hexagon Reducers Inserts

Available upon request and made to order. Example: Model Nr. **W22312R215**

HEX REDUCER 3 3/4" (95MM) x 2 15/16" (75MM) A/F



W
Series
X-Edition



Hexagon Cassette Range:

2¹⁵/₁₆ - 5³/₈" / 75 - 135 mm

▼ SELECTION CHART HEXAGON CASSETTES

Drive Unit Model Number	Hexagon Size ¹⁾ S		Model Number Cassette	Maximum Torque at 690 bar (10.000 psi)		Dim.	Nose Radius		Dim.	Nose Radius	
	(inch)	(mm)		(Ft.lbs)	(Nm)	G (inch)	H (inch)	(lbs)	G (mm)	H (mm)	(kg)
W22000PX	2 ¹⁵ / ₁₆	75	W22215X	22.500	30.506	4.02	2.64	48.72	102,1	67,0	22,1
	3	–	W22300X	22.500	30.506	4.02	2.64	48.40	102,1	67,0	22,1
	3 ¹ / ₁₆	–	W22301X	22.500	30.506	4.02	2.64	48.22	102,1	67,0	21,9
	3 ¹ / ₈	80	W22302X	22.500	30.506	4.02	2.64	47.78	102,1	67,0	21,6
	3 ³ / ₁₆	–	W22303X	22.500	30.506	4.23	2.85	50.58	107,4	72,4	22,9
	3 ¹ / ₄	–	W22304X	22.500	30.506	4.23	2.85	50.19	107,4	72,4	22,8
	3 ⁵ / ₁₆	–	W22305X	22.500	30.506	4.23	2.85	49.92	107,4	72,4	22,6
	–	85	W22085MX	22.500	30.506	4.23	2.85	49.66	107,4	72,4	22,5
	3 ³ / ₈	–	W22306X	22.500	30.506	4.23	2.85	49.66	107,4	72,4	22,5
	3 ⁷ / ₁₆	–	W22307IX	22.500	30.506	4.23	2.85	50.29	107,4	72,4	22,8
	3 ¹ / ₂	–	W22308X	22.500	30.506	4.23	2.85	48.87	107,4	72,4	22,2
	–	90	W22090MX	22.500	30.506	4.45	3.07	51.58	113,0	77,9	23,4
	3 ⁹ / ₁₆	–	W22309X	22.500	30.506	4.45	3.07	51.58	113,0	77,9	23,4
	3 ⁵ / ₈	–	W22310X	22.500	30.506	4.45	3.07	51.30	113,0	77,9	23,3
	3 ¹¹ / ₁₆	–	W22311X	22.500	30.506	4.45	3.07	50.93	113,0	77,9	23,1
	3 ³ / ₄	95	W22312X	22.500	30.506	4.45	3.07	50.62	113,0	77,9	22,9
	3 ¹³ / ₁₆	–	W22313X	22.500	30.506	4.45	3.07	50.24	113,0	77,9	22,8
	3 ⁷ / ₈	–	W22314X	22.500	30.506	4.45	3.07	49.77	113,0	77,9	22,6
	3 ¹⁵ / ₁₆	100	W22315X	22.500	30.506	4.72	3.35	53.57	119,9	85,1	24,3
	4	–	W22400X	22.500	30.506	4.72	3.35	53.19	119,9	85,1	24,1
	4 ¹ / ₁₆	–	W22401IX	22.500	30.506	4.72	3.35	52.82	119,9	85,1	24,0
	4 ¹ / ₈	105	W22402X	22.500	30.506	4.72	3.35	52.43	119,9	85,1	23,6
	4 ³ / ₁₆	–	W22403IX	22.500	30.506	4.72	3.35	52.09	119,9	85,1	23,6
	4 ¹ / ₄	–	W22404X	22.500	30.506	4.72	3.35	51.48	119,9	85,1	24,6
	4 ⁵ / ₁₆	110	W22405X	22.500	30.506	4.92	3.54	54.26	125,0	89,9	24,6
	4 ³ / ₈	–	W22406X	22.500	30.506	4.92	3.54	53.91	125,0	89,9	24,5
	4 ⁷ / ₁₆	–	W22407X	22.500	30.506	4.92	3.54	53.50	125,0	89,9	24,3
	4 ¹ / ₂	–	W22408IX	22.500	30.506	4.92	3.54	53.06	125,0	89,9	24,1
	–	115	W22115MX	22.500	30.506	4.92	3.54	53.06	125,0	89,9	24,1
	4 ⁹ / ₁₆	–	W22409IX	22.500	30.506	4.92	3.54	52.64	125,0	89,9	23,9
	4 ⁵ / ₈	–	W22410IX	22.500	30.506	4.92	3.54	51.99	125,0	89,9	23,6
	4 ³ / ₄	120	W22412X	22.500	30.506	5.12	3.74	54.54	130,0	95,0	24,7
	–	123	W22123MX	22.500	30.506	5.12	3.74	53.80	130,0	95,0	24,4
4 ⁷ / ₈	–	W22414X	22.500	30.506	5.12	3.74	53.60	130,0	95,0	24,3	
5	–	W22500X	22.500	30.506	5.12	3.74	52.37	130,0	95,0	23,8	
5 ¹ / ₈	130	W22502X	22.500	30.506	5.31	3.94	55.10	134,8	100,0	25,0	
5 ³ / ₁₆	–	W22503IX	22.500	30.506	5.31	3.94	54.71	134,8	100,0	24,8	
5 ¹ / ₄	–	W22504IX	22.500	30.506	5.31	3.94	54.05	134,8	100,0	24,5	
5 ³ / ₈	135	W22506X	22.500	30.506	5.31	3.94	52.77	134,8	100,0	23,9	

¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.

W35000-Series, Hexagon Cassettes

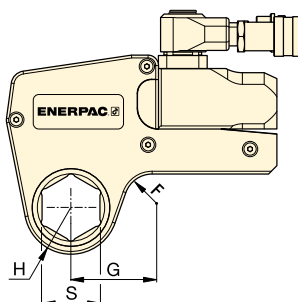


Optional Hexagon Reducers Inserts

Available upon request and made to order.

Example: Model Nr. **W35502R402**

HEX REDUCER 5-1/8" (130MM) x 4-1/8" (105MM) A/F



W Series X-Edition



Hexagon Cassette Range:

3 1/8" - 6 1/8" / 80 - 155 mm

▼ SELECTION CHART HEXAGON CASSETTES

Drive Unit Model Number	Hexagon Size ¹⁾ S		Model Number Cassette	Maximum Torque at 690 bar (10.000 psi)		Dim.	Nose Radius		Dim.	Nose Radius	
	(inch)	(mm)		(Ft.lbs)	(Nm)	G (inch)	H (inch)	(lbs)	G (mm)	H (mm)	(kg)
W35000PX	3 1/8	80	W35302X	35.000	47.454	4.99	3.02	72.30	126,8	76,0	32,8
	3 3/16	—	W35303X	35.000	47.454	4.99	3.02	72.10	126,8	76,0	32,7
	3 1/4	—	W35304X	35.000	47.454	4.99	3.02	71.70	126,8	76,0	32,5
	3 5/16	—	W35305X	35.000	47.454	4.99	3.02	71.40	126,8	76,0	32,4
	—	85	W35085MX	35.000	47.454	5.08	3.02	71.22	129,0	76,0	32,3
	3 3/8	—	W35306X	35.000	47.454	4.99	3.02	71.00	126,8	76,0	32,2
	3 7/16	—	W35307IX	35.000	47.454	4.99	3.02	70.50	126,8	76,0	32,0
	3 1/2	—	W35308X	35.000	47.454	4.99	3.02	70.10	126,8	76,0	31,8
	—	90	W35090MX	35.000	47.454	5.31	3.23	73.87	135,0	81,5	33,5
	3 9/16	—	W35309X	35.000	47.454	5.22	3.23	71.40	132,5	81,5	32,4
	3 5/8	—	W35310X	35.000	47.454	5.22	3.23	73.40	132,5	81,5	33,3
	3 11/16	—	W35311X	35.000	47.454	5.22	3.23	73.00	132,5	81,5	33,1
	3 3/4	95	W35312X	35.000	47.454	5.22	3.23	72.50	132,5	81,5	32,9
	3 13/16	—	W35313X	35.000	47.454	5.22	3.23	72.10	132,5	81,5	32,7
	3 7/8	—	W35314X	35.000	47.454	5.22	3.23	71.40	132,5	81,5	32,4
	3 15/16	100	W35315X	35.000	47.454	5.39	3.45	70.80	137,0	87,0	34,1
	4	—	W35400X	35.000	47.454	5.39	3.45	74.70	137,0	87,0	33,9
	4 1/16	—	W35401IX	35.000	47.454	5.39	3.45	74.30	137,0	87,0	33,7
	4 1/8	105	W35402X	35.000	47.454	5.39	3.45	73.90	137,0	87,0	33,5
	4 3/16	—	W35403IX	35.000	47.454	5.39	3.45	73.40	137,0	87,0	33,3
	4 1/4	—	W35404X	35.000	47.454	5.39	3.45	72.80	137,0	87,0	33,0
	4 5/16	110	W35405X	35.000	47.454	5.63	3.69	76.90	143,0	93,0	34,9
	4 3/8	—	W35406X	35.000	47.454	5.63	3.69	76.50	143,0	93,0	34,7
	4 7/16	—	W35407X	35.000	47.454	5.63	3.69	76.10	143,0	93,0	34,5
	4 1/2	—	W35408IX	35.000	47.454	5.63	3.69	75.60	143,0	93,0	34,3
	—	115	W35115MX	35.000	47.454	5.75	3.69	75.41	146,0	93,0	34,2
	4 9/16	—	W35409IX	35.000	47.454	5.63	3.69	75.20	143,0	93,0	34,1
	4 5/8	—	W35410IX	35.000	47.454	5.63	3.69	74.50	143,0	93,0	33,7
	4 3/4	120	W35412X	35.000	47.454	5.85	3.91	78.50	148,5	98,5	35,6
	—	123	W35123MX	35.000	47.454	6.02	3.94	77.18	153,0	100,0	35,0
	4 7/8	—	W35414X	35.000	47.454	5.85	3.91	76.90	148,5	98,5	34,9
	5	—	W35500X	35.000	47.454	5.85	3.91	75.60	148,5	98,5	34,3
	5 1/8	130	W35502X	35.000	47.454	6.02	4.09	78.90	153,0	103,0	35,8
	5 3/16	—	W35503IX	35.000	47.454	6.02	4.09	78.50	153,0	103,0	35,6
	5 1/4	—	W35504IX	35.000	47.454	6.02	4.09	77.60	153,0	103,0	35,2
	5 3/8	135	W35506X	35.000	47.454	6.02	4.09	76.30	153,0	103,0	34,6
	5 1/2	140	W35508X	35.000	47.454	6.24	4.31	79.80	158,5	108,5	36,2
	5 9/16	—	W35509X	35.000	47.454	6.24	4.31	79.40	158,5	108,5	36,0
	5 5/8	—	W35510X	35.000	47.454	6.24	4.31	78.50	158,5	108,5	35,6
	5 3/4	145	W35512X	35.000	47.454	6.24	4.31	76.90	164,0	108,5	34,9
	5 7/8	150	W35514X	35.000	47.454	6.46	4.52	80.90	164,0	114,0	36,7
	—	151	W35151MX	35.000	47.454	6.46	4.52	80.48	164,0	114,0	36,5
	6	—	W35600X	35.000	47.454	6.46	4.52	79.60	164,0	114,0	36,1
	6 1/8	155	W35602X	35.000	47.454	6.46	4.52	77.80	164,0	114,0	35,3

¹⁾ See page 411 for table of hexagon sizes of bolts, nuts and related thread diameters.

▼ W4206SL UltraSlim bi-hexagonal stepped width cassette with W4000X drive unit



Your easy and long lasting solution to difficult access bolting applications



UltraSlim: Designed for Tight Spots

Stepped width design provides easy access in confined areas. UltraSlim cassettes fit where standard solutions won't.



Built to Outperform

High endurance components keep working when others fail.



Top Mounted Straight Handle

The top mounted straight handle is standard and provides safe and easy positioning and access to hard to reach fasteners.

Straight handle (standard)

SWH6S

Angled handle (optional)

SWH6A



Torque Pump Selection Matrix

System matched battery-powered cordless, electric and air-driven torque pumps that are ideal for use with hydraulic wrenches.

Versatility

- Lean, stepped width design allows tool to be mounted over bolts where other tools won't fit
- Bi-Hexagonal cassette allows twice as many positioning points on nut or bolt
- Robust top mounted handle stays out of the way, providing safe fastening in hard to reach areas
- Uses same drive unit as standard W-series hexagon cassettes.

Performance

- Premium components provide best-in-class endurance compared to other limited access tools.

Ease of Use

- Few moving parts are easily accessible for quick field maintenance
- Fast release drive unit enables rapid exchange of cassettes, no tools required
- Top mounted straight handle for improved tool handling and safety.

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across the full stroke

CE - ATEX declared

- All W-Series X-edition drive units are CE - ATEX declared.
- All UltraSlim Series cassettes are CE - ATEX declared and are shipped complete with a calibration certificate.

Slim enough to fit and tough enough to last. This UltraSlim wrench is the perfect controlled bolting solution for this oil and gas flange. ►



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UltraSlim Bi-Hexagonal Cassettes

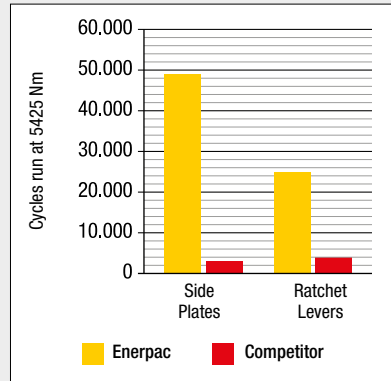


UltraSlim Cassettes

Accessing narrow spaces normally requires significantly reducing the width of the torque wrench. For the tool operator, this has always meant vastly reduced tool durability, and/or reduced torque output.

By using the highest grade materials, perfecting the geometry, and placing the positioning handle on top of the tool for safe fastening, Enerpac UltraSlim cassettes are able to provide greater torque, get into tighter spaces, and vastly outperform the competition in product durability *.

Durability of Key Components *



* Average test results, whereby three Enerpac 46 mm UltraSlim cassettes and three competitor 46 mm cassettes were tested at 5425 Nm for 50.000 cycles. The Enerpac side plates never broke for the full duration of the test.

W-SL Series UltraSlim



Nominal Torque Output:

5911 Nm / 4360 Ft.lbs

Bi-Hexagonal Range:

46 - 75 mm / 1¹³/₁₆ - 2¹⁵/₁₆"

Maximum Operating Pressure:

690 bar / 10.000 psi

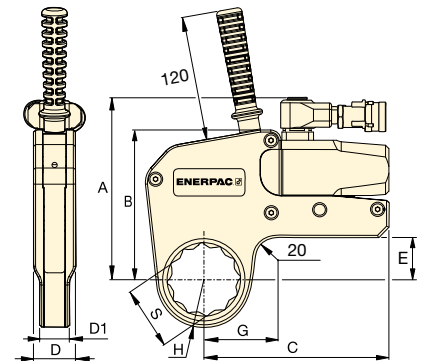


Torque Wrench Hoses

Use Enerpac THQ700-Series hoses with W-Series torque wrenches to ensure the integrity of your hydraulic system.

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	Dimensions (inch)						Dimensions (mm)					
	A	B	C	D	D1	E	A	B	C	D	D1	E
W2...-SL	5.54	4.30	5.81	1.28	1.00	0.94	140,7	109,3	147,7	32,4	25,4	24,0
W4...-SL	6.91	5.69	7.03	1.59	1.13	1.61	175,6	144,5	178,5	40,5	28,6	40,8



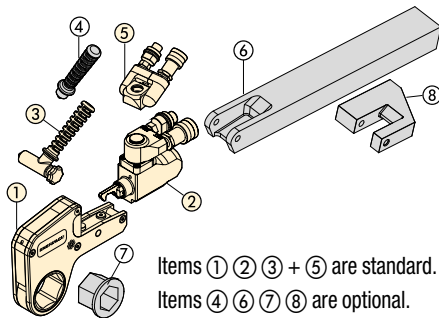
▼ SELECTION CHART

Hexagonal Size (A/F) S		Nominal Torque @ 690 bar (10.000 psi)		UltraSlim Cassette * Model Nr.	Minimum Torque @ 69 bar (1000 psi)		Dimensions (inch)			Dimensions (mm)			Drive Unit Model Nr. ** (sold separately)
(inch)	(mm)	(Ft.lbs)	(Nm)		(Ft.lbs)	(Nm)	G	H		G	H		
1 ¹³ / ₁₆	46	1980	2685	W2113SL	200	269	2.35	1.44	4.87	59,6	36,5	2,2	W2000PX
2	50	1980	2685	W2200SL	200	269	2.40	1.52	4.87	61,1	38,8	2,2	
2 ³ / ₁₆	55	1980	2685	W2203SL	200	269	2.49	1.63	4.87	63,2	41,5	2,2	
2 ³ / ₈	60	1980	2685	W2206SL	200	269	2.56	1.75	4.88	65,1	44,5	2,2	
1 ¹³ / ₁₆	46	4360	5911	W4113SL	430	591	2.65	1.56	10.15	67,2	39,5	4,6	W4000PX
2 ³ / ₁₆	55	4360	5911	W4203SL	430	591	2.70	1.73	10.15	68,7	44,0	4,6	
2 ³ / ₈	60	4360	5911	W4206SL	430	591	2.82	1.89	10.36	71,6	48,0	4,7	
2 ⁹ / ₁₆	65	4360	5911	W4209SL	430	591	2.92	1.99	10.37	74,1	50,5	4,7	
2 ³ / ₄	70	4360	5911	W4212SL	430	591	2.98	2.11	10.42	75,6	53,5	4,7	
2 ¹⁵ / ₁₆	75	4360	5911	W4215SL	430	591	2.99	2.20	10.37	76,0	56,0	4,7	

* Bi-Hexagonal Cassette includes top mounted straight handle.

** Cassette may also be used with W2000X or W4000X drive units.

Weight of drive units: W2000PX = 1,4 kg (3,1 lbs); W4000PX = 2,0 kg (4,4 lbs).



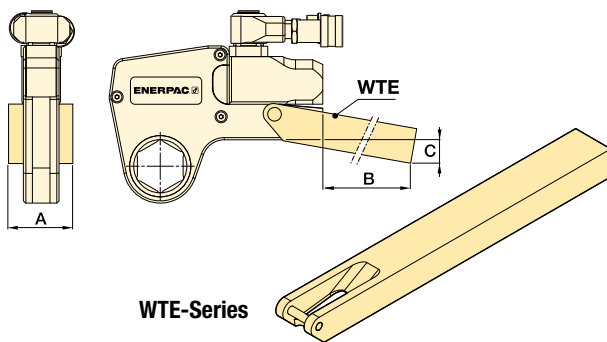
- ① Hexagon Cassette (pages 230-237)
- ② Drive Unit (page 229)
- ③ Angled Positioning Handle (page 228)
- ④ Straight Positioning Handle (page 228)
- ⑤ TSP300 Tilt & Swivel (page 228)
- ⑥ Extended Reaction Arm (page 238)
- ⑦ Reducer Insert (pages 230-237)
- ⑧ Reaction Paddle (page 238)

Items ① ② ③ + ⑤ are standard.
Items ④ ⑥ ⑦ ⑧ are optional.

WTE WRP Series



WTE-Series, Extended Reaction Arm

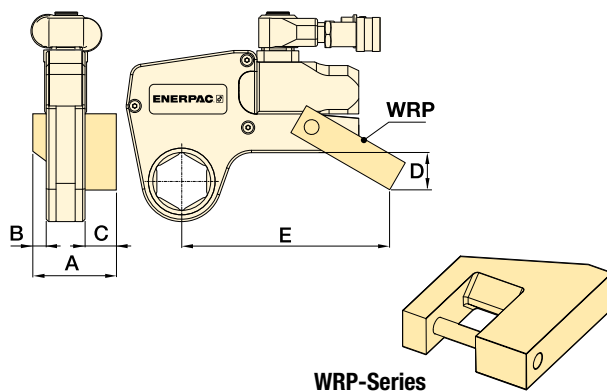


- Full torque rated
- Increases tool fit in restricted access areas.

For Torque Wrench Model Number	Model Number	Dimensions (mm)			 (kg) *
		A	B	C	
W2000PX	WTE20	56	398	76	2,6
W4000PX	WTE40	66	436	74	4,6
W8000PX	WTE80	85	449	55	7,6
W15000PX	WTE150	102	498	72	12,0
W22000PX	WTE220	114	524	77	17,3
W35000PX	WTE350	127	419	133	17,8

* Weights indicated are for the accessories only and do not include the wrench.

WRP-Series, Low-Profile Reaction Paddles



- Lightweight interchangeable design
- Allows for offset reaction when in-line reaction is not available.

For Torque Wrench Model Nr.	Model Number	Dimensions (mm)					 (kg) *
		A	B	C	D	E	
W2000PX	WRP20	84	16	35	45	148	0,4
W4000PX	WRP40	109	21	47	59	190	0,8
W8000PX	WRP80	137	26	57	69	223	2,0
W15000PX	WRP150	165	32	69	87	257	3,9
W22000PX	WRP220	207	37	91	134	317	7,2
W35000PX	WRP350	225	42	91	182	367	10,6

* Weights indicated are for the accessories only and do not include the wrench.

Custom Torque Wrenches and Bolt Tensioners

Looking for customized components to help solve your torquing problems? Enerpac has the experience and capabilities to help find solutions to your problems.

Enerpac hydraulic torque wrenches are designed to accommodate most bolting applications. However, due to space constraints, location of reaction points or need for special sockets and adapters, there is often a need for customized components.



◀ *Custom S6000X hydraulic torque wrench fitted with a custom reaction arm/socket.*



◀ *Enerpac Multi Stud Tensioning (MST) system capable of tensioning every single stud in a joint simultaneously.*



◀ *Custom hydraulic tensioners to suit 5 inch studs load output 4200 kN.*

Overview Custom Torque Wrenches and Bolt Tensioners



▲ *Custom S11000X torque wrench with a custom torque link and reaction roller.*

Customizable features on torque wrenches:

- Reaction Arms
- Torque Links (split or layered for extremely space restricted applications)
- Reaction Roller Assemblies
- Sockets (direct drive, castellated, peg-drive, stacked)
- Drives (direct Allen®, spline, square drive size)
- Hexagon Reducing and Square Drive Inserts.

Customizable features on bolt tensioners:

- Adaptor kits with puller sleeves to suit different thread and/or pitch sizes
- Nut rotating sockets to accommodate different nut A/F (across flats) sizes
- Bridges to suit round or non-standard nuts or clear obstructions
- Sockets (direct drive, castellated, peg-drive, stacked)
- Load cells with various capacities
- Screw-on tensioners to overcome space restrictions.

▼ RSL-Drive Units with interchangeable RLP-Hexagon Cassette and RSQ-Square Drive Cassette



Safety and Performance

- Innovative design that completely encloses all moving parts and minimizes pinch points
- 30-35° rotation angle provides added productivity while avoiding “tool lock on” which is common with some torque wrench designs.

Simplicity

- Simple robust alloy steel design with just three moving parts for reduced maintenance
- Robust handles are available for both sides and the tops of cassettes to allow for extra maneuverability
- Designed to give optimum strength to weight and torque to weight ratios
- Minimum nose radius for trouble-free tool fit.

Versatility

- Interchangeable cassette design
- Wide range of hexagon sizes available for all applications
- Reaction arm has a simple dial lock for rapid change
- For use in multiple industrial, energy, and oil and gas applications.

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across the full stroke.

Setting New Standards in Safety, Simplicity and Performance



RLP-Series Low-Profile Hexagon Cassettes

For the metric and imperial sizes of hexagon cassettes see pages 242 - 251.



RSQ-Square Drive Cassettes

RSQ-Square Drive Cassettes are interchangeable with the RLP-Hexagon Cassettes. They all use the same RSL-drive unit.

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BUS-Series, Back-Up Spanners

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

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Torque Pumps

Visit enerpac.com for system matched battery-powered, electric and air-driven torque pumps that are ideal for use with hydraulic torque wrenches.

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Torque Wrench Hoses

Use Enerpac THQ700-Series torque wrench hoses with RSL-Series torque wrenches to ensure the integrity of your hydraulic system.

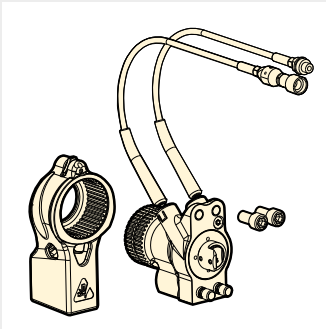
2 meters long, 2 hoses	THQ702T
6 meters long, 2 hoses	THQ706T
12 meters long, 2 hoses	THQ712T

Drive Units for Hexagon & Square Drive Cassettes

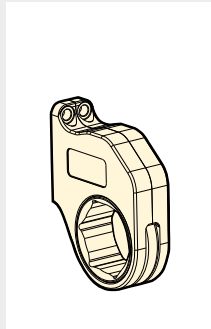


One Drive, Two Tools

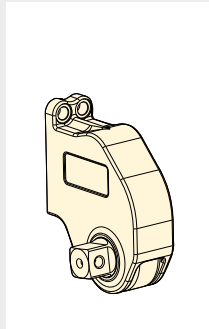
One RSL-Hydraulic Drive Unit fits RLP-Hexagon Cassette or RSQ-Square Drive Cassette.



RSL

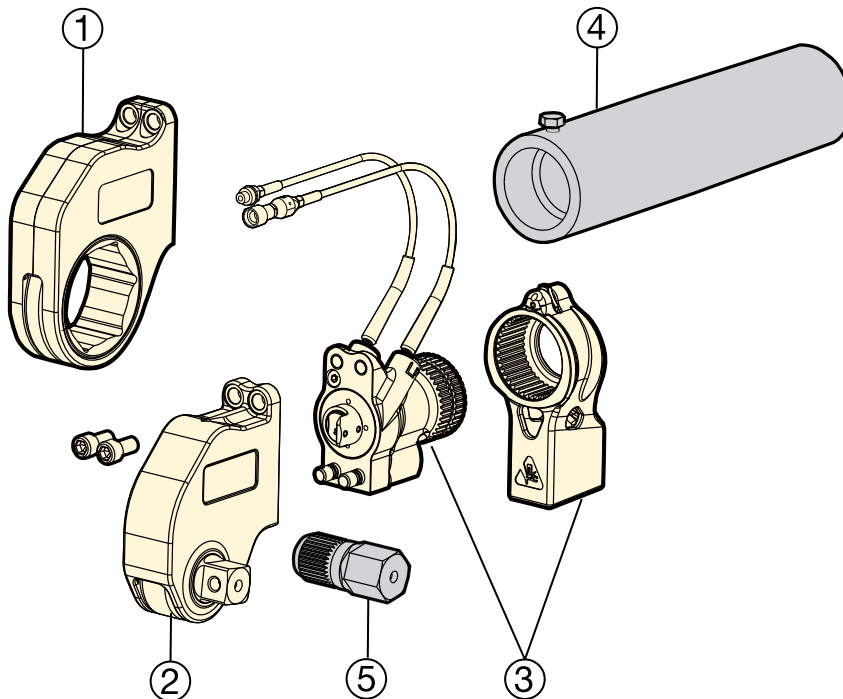


RLP... / RLP...SL



RSQ

▼ TORQUE WRENCH OPTIONS AND ACCESSORIES



RSL Series



Maximum Torque at 690 bar:

1909 - 37.965 Nm

Hexagon Range:

7/8 - 6 1/8 inch

Hexagon Range:

27 - 155 mm

Maximum Operating Pressure:

690 bar

- ① RLP-Hexagon Cassette (pages 242-246)
- RLP-SL-Slimline Hexagon Cassette (pages 248-249)

- ② RSQ-Square Drive Cassette (pages 250-251)

- ③ RSL-Drive Unit and Reaction Arm (page 241)

Optional Parts (page 247)

- ④ ERT-Extended Reaction Tube, for RLP only

Optional Parts (only available per request)

- ⑤ Hexagon Bit



ERAK-Series, Reaction Arm Kits

Provides reaction point options for RSQ1500, RSQ3000, RSQ5000 and RSQ8000 square drive torque wrenches. Significantly improves worker safety by providing a safety

tested and full torque rated reaction arm, and increases tool fit.

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▼ SELECTION CHART

Hexagon Cassette Range (A/F) (see pages 242 - 251 for sizes and model numbers)		Maximum Torque Output at 690 bar		Drive Unit Model Number	Minimum Torque Output at 69 bar		
(inch)	(mm)	(Ft.lbs)	(Nm)		(Ft.lbs)	(Nm)	(kg)
7/8 - 2 3/8	27 - 60	1408	1909	RSL1500	141	191	1,6
1 5/16 - 2 15/16	33 - 75	3080	4176	RSL3000	308	417	2,6
1 11/16 - 3 1/8	46 - 80	5303	7190	RSL5000	530	719	4,1
2 3/8 - 3 1/8	60 - 80	7862	10.659	RSL8000	786	1066	4,9
2 7/16 - 4 5/8	62 - 110	11.154	15.123	RSL11000	1115	1512	5,3
2 15/16 - 4 5/8	75 - 115	18.843	25.547	RSL19000	1884	2554	9,1
3 1/8 - 6 1/8	80 - 155	28.002	37.965	RSL28000	2800	3796	10,0



Select the Right Torque: Use Enerpac Bolting Integrity Software Solutions

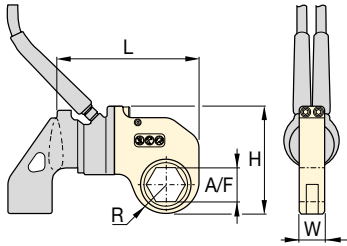
Comprehensive on-line software solutions for Bolted Joint Integrity.

The software offers Tool selection, Bolt Load calculations and Tool pressure settings, as well as, a combined Application Data Sheet and Joint Completion Report. Custom Joint information can also be entered.

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Hexagon Cassettes for RSL-Series

ENERPAC 



Hexagon Range:
7/8 - 6 1/8 inch

Hexagon Range:
27 - 155 mm

Maximum Operating Pressure:
690 bar

**RSL
Series**



▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)					Dimensions (mm)				
	(inch)	(mm)		(Ft.lbs)	(Nm)	R	L	W	H	(lbs)	R	L	W	H	(kg)
RSL1500	7⁄8	–	RLP1014	320	434	0.79	6.00	1.25	4.33	2.2	20,1	152,4	31,8	110,0	1,0
	1 1⁄16	27	RLP1101	640	868	0.95	6.05	1.25	4.50	2.2	24,1	153,7	31,8	114,3	1,0
	1 1⁄8	–	RLP1102	640	868	1.03	6.12	1.25	4.57	2.3	26,2	155,4	31,8	116,1	1,0
	1 3⁄16	30	RLP1103	640	868	1.03	6.12	1.25	4.57	2.3	26,2	155,4	31,8	116,1	1,0
	1 1⁄4	32	RLP1104	640	868	1.03	6.12	1.25	4.57	2.3	26,2	155,4	31,8	116,1	1,0
	1 5⁄16	33	RLP1105	900	1220	1.15	6.24	1.25	4.69	2.4	29,2	158,5	31,8	119,1	1,1
	1 3⁄8	35	RLP1106	900	1220	1.15	6.24	1.25	4.69	2.4	29,2	158,5	31,8	119,1	1,1
	1 7⁄16	36	RLP1107	900	1220	1.15	6.24	1.25	4.69	2.4	29,2	158,5	31,8	119,1	1,1
	1 1⁄2	38	RLP1108	1408	1909	1.31	6.41	1.25	4.86	2.7	33,3	162,8	31,8	123,4	1,2
	1 9⁄16	–	RLP1109	1408	1909	1.31	6.41	1.25	4.86	2.7	33,3	162,8	31,8	123,4	1,2
	1 5⁄8	41	RLP1110	1408	1909	1.31	6.41	1.25	4.86	2.7	33,3	162,8	31,8	123,4	1,2
	1 11⁄16	–	RLP1111	1408	1909	1.40	6.49	1.25	4.94	2.7	35,6	164,8	31,8	125,5	1,2
	1 3⁄4	–	RLP1112	1408	1909	1.40	6.49	1.25	4.94	2.7	35,6	164,8	31,8	125,5	1,2
	1 13⁄16	46	RLP1113	1408	1909	1.40	6.49	1.25	4.94	2.7	35,6	164,8	31,8	125,5	1,2
	1 7⁄8	–	RLP1114	1408	1909	1.48	6.58	1.25	5.03	2.7	37,6	167,1	31,8	127,8	1,2
	1 15⁄16	–	RLP1115	1408	1909	1.48	6.58	1.25	5.03	2.7	37,6	167,1	31,8	127,8	1,2
	2	50	RLP1200	1408	1909	1.48	6.58	1.25	5.03	2.7	37,6	167,1	31,8	127,8	1,2
	2 1⁄16	–	RLP1201	1408	1909	1.58	6.68	1.25	5.13	2.7	40,1	169,7	31,8	130,3	1,2
	2 1⁄8	–	RLP1202	1408	1909	1.58	6.68	1.25	5.13	2.7	40,1	169,7	31,8	130,3	1,2
	2 3⁄16	55	RLP1203	1408	1909	1.58	6.68	1.25	5.13	2.7	40,1	169,7	31,8	130,3	1,2
2 1⁄4	–	RLP1204	1408	1909	1.70	6.79	1.25	5.24	2.8	43,2	172,5	31,8	133,1	1,3	
2 5⁄16	–	RLP1205	1408	1909	1.70	6.79	1.25	5.24	2.8	43,2	172,5	31,8	133,1	1,3	
2 3⁄8	60	RLP1206	1408	1909	1.70	6.79	1.25	5.24	2.8	43,2	172,5	31,8	133,1	1,3	
RSL3000	1 5⁄16	33	RLP3105	900	1220	1.18	7.62	1.38	5.49	3.5	30,0	193,5	35,1	139,4	1,6
	1 3⁄8	35	RLP3106	900	1220	1.18	7.62	1.38	5.49	3.5	30,0	193,5	35,1	139,4	1,6
	1 7⁄16	36	RLP3107	900	1220	1.18	7.62	1.38	5.49	3.5	30,0	193,5	35,1	139,4	1,6
	1 1⁄2	38	RLP3108	1200	1627	1.32	7.77	1.38	5.63	3.9	33,5	197,4	35,1	143,0	1,8
	1 9⁄16	–	RLP3109	1200	1627	1.32	7.77	1.38	5.63	3.9	33,5	197,4	35,1	143,0	1,8
	1 5⁄8	41	RLP3110	1200	1627	1.32	7.77	1.38	5.63	3.9	33,5	197,4	35,1	143,0	1,8
	1 11⁄16	–	RLP3111	1900	2576	1.47	7.87	1.38	5.78	4.0	37,3	199,9	35,1	146,8	1,8
	1 3⁄4	–	RLP3112	1900	2576	1.47	7.87	1.38	5.78	4.0	37,3	199,9	35,1	146,8	1,8
	1 13⁄16	46	RLP3113	1900	2576	1.47	7.87	1.38	5.78	4.0	37,3	199,9	35,1	146,8	1,8
	1 7⁄8	–	RLP3114	2600	3526	1.60	8.04	1.38	5.92	4.5	40,6	204,2	35,1	150,4	2,0
	1 15⁄16	–	RLP3115	2600	3526	1.60	8.04	1.38	5.92	4.5	40,6	204,2	35,1	150,4	2,0
	2	50	RLP3200	2600	3526	1.60	8.04	1.38	5.92	4.5	40,6	204,2	35,1	150,4	2,0
	2 1⁄16	–	RLP3201	3080	4176	1.76	8.16	1.38	6.08	4.7	44,7	207,3	35,1	154,4	2,1
	2 1⁄8	–	RLP3202	3080	4176	1.76	8.16	1.38	6.08	4.7	44,7	207,3	35,1	154,4	2,1
	2 3⁄16	55	RLP3203	3080	4176	1.76	8.16	1.38	6.08	4.7	44,7	207,3	35,1	154,4	2,1
	2 1⁄4	–	RLP3204	3080	4176	1.84	8.25	1.38	6.15	4.8	46,7	209,6	35,1	156,2	2,2
	2 5⁄16	–	RLP3205	3080	4176	1.84	8.25	1.38	6.15	4.8	46,7	209,6	35,1	156,2	2,2
	2 3⁄8	60	RLP3206	3080	4176	1.84	8.25	1.38	6.15	4.8	46,7	209,6	35,1	156,2	2,2
	2 7⁄16	62	RLP3207	3080	4176	1.95	8.14	1.38	6.26	4.6	49,5	206,8	35,1	159,0	2,1
	2 1⁄2	63	RLP3208	3080	4176	1.95	8.14	1.38	6.26	4.6	49,5	206,8	35,1	159,0	2,1
2 9⁄16	65	RLP3209	3080	4176	1.95	8.14	1.38	6.26	4.6	49,5	206,8	35,1	159,0	2,1	
2 5⁄8	–	RLP3210	3080	4176	2.04	8.23	1.38	6.36	4.4	51,8	209,0	35,1	161,5	2,0	
2 11⁄16	–	RLP3211	3080	4176	2.04	8.23	1.38	6.36	4.4	51,8	209,0	35,1	161,5	2,0	
2 3⁄4	70	RLP3212	3080	4176	2.04	8.23	1.38	6.36	4.4	51,8	209,0	35,1	161,5	2,0	
2 13⁄16	–	RLP3213	3080	4176	2.16	8.34	1.38	6.54	4.7	54,9	211,8	35,1	166,1	2,1	
2 7⁄8	–	RLP3214	3080	4176	2.16	8.34	1.38	6.54	4.7	54,9	211,8	35,1	166,1	2,1	
2 15⁄16	75	RLP3215	3080	4176	2.16	8.34	1.38	6.54	4.7	54,9	211,8	35,1	166,1	2,1	

IMPORTANT: RSL-drive units must be ordered separately to operate the RLP-Hexagon Cassettes.

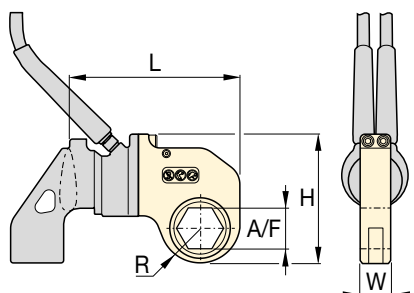
Hexagon Cassettes for RSL-Series

Hexagon Range:
7/8 - 6 1/8 inch

Hexagon Range:
27 - 155 mm

Maximum Operating Pressure:
690 bar

**RSL
Series**



Slimline Stepped-Width Hexagon Cassettes

For accessing narrow spaces
RLP...SL Stepped-Width Hexagon Cassettes are available. Slimline cassettes use same drive unit as standard RLP-cassettes.

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▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)					Dimensions (mm)				
	(inch)	(mm)		(Ft.lbs)	(Nm)	R	L	W	H	(lbs)	R	L	W	H	(kg)
RSL5000	1 ¹¹ / ₁₆	–	RLP5111	2600	3526	1.61	9.08	1.75	6.52	6.6	40,9	230,6	44,5	165,6	3,0
	1 ³ / ₄	–	RLP5112	2600	3526	1.61	9.08	1.75	6.52	6.6	40,9	230,6	44,5	165,6	3,0
	1 ¹³ / ₁₆	46	RLP5113	2600	3526	1.61	9.08	1.75	6.52	6.6	40,9	230,6	44,5	165,6	3,0
	1 ⁷ / ₈	–	RLP5114	2600	3526	1.61	9.08	1.75	6.52	6.6	40,9	230,6	44,5	165,6	3,0
	1 ¹⁵ / ₁₆	–	RLP5115	2600	3526	1.61	9.08	1.75	6.52	6.6	40,9	230,6	44,5	165,6	3,0
	2	50	RLP5200	2600	3526	1.61	9.08	1.75	6.52	6.6	40,9	230,6	44,5	165,6	3,0
	2 ¹ / ₁₆	–	RLP5201	3500	4746	1.71	9.18	1.75	6.62	6.5	43,4	233,2	44,5	168,1	2,9
	2 ¹ / ₈	–	RLP5202	3500	4746	1.71	9.18	1.75	6.62	6.5	43,4	233,2	44,5	168,1	2,9
	2 ³ / ₁₆	55	RLP5203	3500	4746	1.71	9.18	1.75	6.62	6.5	43,4	233,2	44,5	168,1	2,9
	2 ¹ / ₄	–	RLP5204	4500	6102	1.87	9.34	1.75	6.78	7.0	47,5	237,2	44,5	172,2	3,2
	2 ⁵ / ₁₆	–	RLP5205	4500	6102	1.87	9.34	1.75	6.78	7.0	47,5	237,2	44,5	172,2	3,2
	2 ³ / ₈	60	RLP5206	4500	6102	1.87	9.34	1.75	6.78	7.0	47,5	237,2	44,5	172,2	3,2
	2 ⁷ / ₁₆	62	RLP5207	5303	7191	2.01	9.48	1.75	6.92	7.0	51,1	240,8	44,5	175,8	3,2
	2 ¹ / ₂	63	RLP5208	5303	7191	2.01	9.48	1.75	6.92	7.0	51,1	240,8	44,5	175,8	3,2
	2 ⁹ / ₁₆	65	RLP5209	5303	7191	2.01	9.48	1.75	6.92	7.0	51,1	240,8	44,5	175,8	3,2
	2 ⁵ / ₈	–	RLP5210	5303	7191	2.16	9.63	1.75	7.07	7.5	54,9	244,6	44,5	179,6	3,4
	2 ¹¹ / ₁₆	–	RLP5211	5303	7191	2.16	9.63	1.75	7.07	7.5	54,9	244,6	44,5	179,6	3,4
	2 ³ / ₄	70	RLP5212	5303	7191	2.16	9.63	1.75	7.07	7.5	54,9	244,6	44,5	179,6	3,4
	2 ¹³ / ₁₆	–	RLP5213	5303	7191	2.24	9.71	1.75	7.15	7.5	56,9	246,6	44,5	181,6	3,4
	2 ⁷ / ₈	–	RLP5214	5303	7191	2.24	9.71	1.75	7.15	7.5	56,9	246,6	44,5	181,6	3,4
2 ¹⁵ / ₁₆	75	RLP5215	5303	7191	2.24	9.71	1.75	7.15	7.5	56,9	246,6	44,5	181,6	3,4	
3	–	RLP5300	5303	7191	2.26	9.73	1.75	7.17	7.2	57,4	247,1	44,5	182,1	3,3	
3 ¹ / ₁₆	–	RLP5301	5303	7191	2.26	9.73	1.75	7.17	7.2	57,4	247,1	44,5	182,1	3,3	
3 ¹ / ₈	80	RLP5302	5303	7191	2.26	9.73	1.75	7.17	7.2	57,4	247,1	44,5	182,1	3,3	
RSL8000	2 ³ / ₈	60	RLP8206	4500	6102	1.87	9.53	2.25	7.00	8.9	47,5	242,1	57,2	177,8	4,0
	2 ⁷ / ₁₆	62	RLP8207	5800	7865	2.01	9.67	2.25	7.13	9.0	51,1	245,6	57,2	181,1	4,1
	2 ¹ / ₂	63	RLP8208	5800	7865	2.01	9.67	2.25	7.13	9.0	51,1	245,6	57,2	181,1	4,1
	2 ⁹ / ₁₆	65	RLP8209	5800	7865	2.01	9.67	2.25	7.13	9.0	51,1	245,6	57,2	181,1	4,1
	2 ⁵ / ₈	–	RLP8210	7862	10.661	2.16	9.82	2.25	7.28	9.6	54,9	249,4	57,2	184,9	4,4
	2 ¹¹ / ₁₆	–	RLP8211	7862	10.661	2.16	9.82	2.25	7.28	9.6	54,9	249,4	57,2	184,9	4,4
	2 ³ / ₄	70	RLP8212	7862	10.661	2.16	9.82	2.25	7.28	9.6	54,9	249,4	57,2	184,9	4,4
	2 ¹³ / ₁₆	–	RLP8213	7862	10.661	2.24	9.90	2.25	7.38	9.6	56,9	251,5	57,2	187,5	4,4
	2 ⁷ / ₈	–	RLP8214	7862	10.661	2.24	9.90	2.25	7.38	9.6	56,9	251,5	57,2	187,5	4,4
	2 ¹⁵ / ₁₆	75	RLP8215	7862	10.661	2.24	9.90	2.25	7.38	9.6	56,9	251,5	57,2	187,5	4,4
	3	–	RLP8300	7862	10.661	2.26	9.92	2.25	7.39	9.3	57,4	252,0	57,2	187,7	4,2
	3 ¹ / ₁₆	–	RLP8301	7862	10.661	2.26	9.92	2.25	7.39	9.3	57,4	252,0	57,2	187,7	4,2
	3 ¹ / ₈	80	RLP8302	7862	10.661	2.26	9.92	2.25	7.39	9.3	57,4	252,0	57,2	187,7	4,2

IMPORTANT: RSL-drive units must be ordered separately to operate the RLP-Hexagon Cassettes.

Hexagon Cassettes for RSL-Series

ENERPAC 

Hexagon Range:

7/8 - 6 1/8 inch

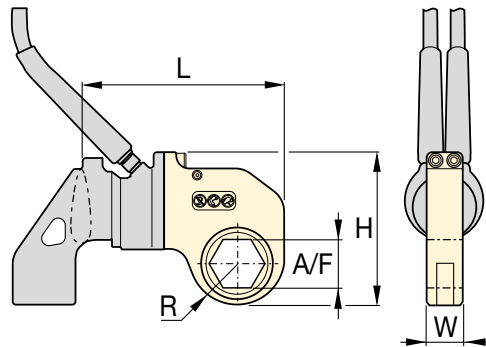
Hexagon Range:

27 - 155 mm

Maximum Operating Pressure:

690 bar

**RSL
Series**



▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)					Dimensions (mm)				
	(inch)	(mm)		(Ft.lbs)	(Nm)	R	L	W	H		R	L	W	H	
RSL11000	2 7/16	62	RLP11207	5800	7865	1.98	10.00	2.50	8.03	14.2	50,3	254,0	63,5	204,0	6,4
	2 1/2	–	RLP11208	5800	7865	1.98	10.00	2.50	8.03	14.2	50,3	254,0	63,5	204,0	6,4
	2 9/16	65	RLP11209	5800	7865	1.98	10.00	2.50	8.03	14.2	50,3	254,0	63,5	204,0	6,4
	2 5/8	–	RLP11210	7300	9899	2.19	11.20	2.50	8.23	14.8	55,6	284,5	63,5	209,0	6,7
	2 11/16	–	RLP11211	7300	9899	2.19	11.20	2.50	8.23	14.8	55,6	284,5	63,5	209,0	6,7
	2 3/4	70	RLP11212	7300	9899	2.19	11.20	2.50	8.23	14.8	55,6	284,5	63,5	209,0	6,7
	2 13/16	–	RLP11213	9000	12.204	2.29	11.31	2.50	8.34	14.8	58,2	287,3	63,5	211,8	6,7
	2 7/8	–	RLP11214	9000	12.204	2.29	11.31	2.50	8.34	14.8	58,2	287,3	63,5	211,8	6,7
	2 15/16	75	RLP11215	9000	12.204	2.29	11.31	2.50	8.34	14.8	58,2	287,3	63,5	211,8	6,7
	3	–	RLP11300	11.154	15.125	2.43	11.44	2.50	8.47	15.2	61,7	290,6	63,5	215,1	6,9
	3 1/16	–	RLP11301	11.154	15.125	2.43	11.44	2.50	8.47	15.2	61,7	290,6	63,5	215,1	6,9
	3 1/8	80	RLP11302	11.154	15.125	2.43	11.44	2.50	8.47	15.2	61,7	290,6	63,5	215,1	6,9
	3 3/16	–	RLP11303	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	–	85	RLP11085M	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	3 1/4	–	RLP11304	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	3 5/16	–	RLP11305	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	3 3/8	–	RLP11306	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	3 7/16	–	RLP11307	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	3 1/2	–	RLP11308	11.154	15.125	2.60	11.71	2.50	8.64	16.6	66,0	297,4	63,5	219,5	7,5
	–	90	RLP11090M	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 9/16	–	RLP11309	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 5/8	–	RLP11310	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 11/16	–	RLP11311	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 3/4	95	RLP11312	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 13/16	–	RLP11313	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 7/8	–	RLP11314	11.154	15.125	2.88	11.89	2.50	8.92	17.2	73,2	302,0	63,5	226,6	7,8
	3 15/16	100	RLP11315	11.154	15.125	2.98	12.00	2.50	9.03	16.4	75,7	304,8	63,5	229,4	7,4
	4	–	RLP11400	11.154	15.125	2.98	12.00	2.50	9.03	16.4	75,7	304,8	63,5	229,4	7,4
	4 1/16	–	RLP11401	11.154	15.125	2.98	12.00	2.50	9.03	16.4	75,7	304,8	63,5	229,4	7,4
	4 1/8	105	RLP11402	11.154	15.125	2.98	12.00	2.50	9.03	16.4	75,7	304,8	63,5	229,4	7,4
	4 1/4	–	RLP11404	11.154	15.125	2.98	12.00	2.50	9.03	16.4	75,7	304,8	63,5	229,4	7,4
	4 5/16	110	RLP11405	11.154	15.125	3.25	12.27	2.50	9.30	17.6	82,6	311,7	63,5	236,2	8,0
	4 1/2	–	RLP11408	11.154	15.125	3.25	12.27	2.50	9.30	17.6	82,6	311,7	63,5	236,2	8,0
	–	115	RLP11115M	11.154	15.125	3.25	12.27	2.50	9.30	17.6	82,6	311,7	63,5	236,2	8,0
	4 5/8	–	RLP11410	11.154	15.125	3.25	12.27	2.50	9.30	17.6	82,6	311,7	63,5	236,2	8,0

IMPORTANT: RSL-drive units must be ordered separately to operate the RLP-Hexagon Cassettes.

Hexagon Cassettes for RSL-Series

Hexagon Range:

7/8 - 6 1/8 inch

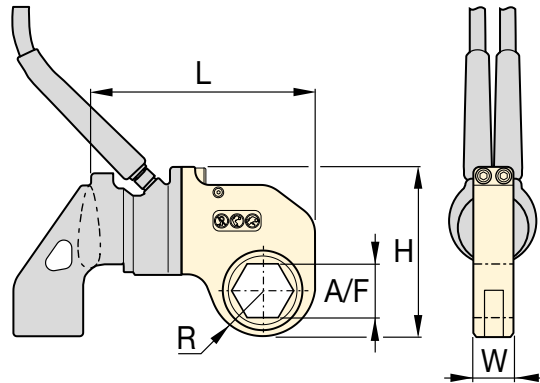
Hexagon Range:

27 - 155 mm

Maximum Operating Pressure:

690 bar

**RSL
Series**



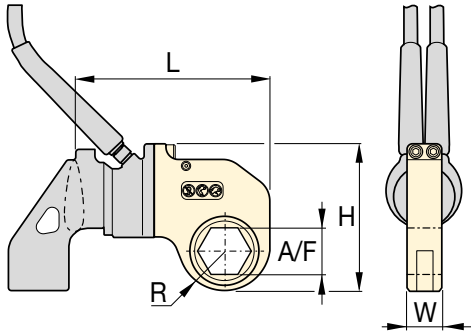
▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)					Dimensions (mm)				
	(inch)	(mm)		(Ft.lbs)	(Nm)	R	L	W	H		R	L	W	H	
RSL19000	2 15/16	75	RLP19215	11.000	14.916	2.45	12.72	2.75	9.44	21.5	62,2	323,1	69,9	239,8	9,8
	3	—	RLP19300	11.000	14.916	2.45	12.72	2.75	9.44	21.5	62,2	323,1	69,9	239,8	9,8
	3 1/16	—	RLP19301	11.000	14.916	2.45	12.72	2.75	9.44	21.5	62,2	323,1	69,9	239,8	9,8
	3 1/8	80	RLP19302	11.000	14.916	2.45	12.72	2.75	9.44	21.5	62,2	323,1	69,9	239,8	9,8
	3 3/16	—	RLP19303	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	—	85	RLP19085M	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	3 1/4	—	RLP19304	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	3 5/16	—	RLP19305	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	3 3/8	—	RLP19306	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	3 7/16	—	RLP19307	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	3 1/2	—	RLP19308	16.000	21.696	2.77	13.04	2.75	9.76	22.6	70,4	331,2	69,9	247,9	10,3
	—	90	RLP19090M	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 9/16	—	RLP19309	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 5/8	—	RLP19310	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 11/16	—	RLP19311	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 3/4	95	RLP19312	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 13/16	—	RLP19313	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 7/8	—	RLP19314	18.843	25.551	2.95	13.22	2.75	9.94	23.8	74,9	335,8	69,9	252,5	10,8
	3 15/16	100	RLP19315	18.843	25.551	3.30	13.57	2.75	10.28	25.3	83,8	344,7	69,9	261,1	11,5
	4	—	RLP19400	18.843	25.551	3.30	13.57	2.75	10.28	25.3	83,8	344,7	69,9	261,1	11,5
	4 1/16	—	RLP19401	18.843	25.551	3.30	13.57	2.75	10.28	25.3	83,8	344,7	69,9	261,1	11,5
	4 1/8	105	RLP19402	18.843	25.551	3.30	13.57	2.75	10.28	25.3	83,8	344,7	69,9	261,1	11,5
	4 3/16	—	RLP19403	18.843	25.551	3.30	13.57	2.75	10.28	25.3	83,8	344,7	69,9	261,1	11,5
	4 1/4	—	RLP19404	18.843	25.551	3.30	13.57	2.75	10.28	25.3	83,8	344,7	69,9	261,1	11,5
	4 5/16	110	RLP19405	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6
	4 3/8	—	RLP19406	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6
	4 7/16	—	RLP19407	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6
	4 1/2	—	RLP19408	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6
	—	115	RLP19115M	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6
	4 9/16	—	RLP19409	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6
	4 5/8	—	RLP19410	18.843	25.551	3.44	13.71	2.75	10.43	25.6	87,4	348,2	69,9	264,9	11,6

IMPORTANT: RSL-drive units must be ordered separately to operate the RLP-Hexagon Cassettes.

Hexagon Cassettes for RSL-Series

ENERPAC 



Hexagon Range:
7/8 - 6 1/8 inch

Hexagon Range:
27 - 155 mm

Maximum Operating Pressure:
690 bar

**RSL
Series**



▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)					Dimensions (mm)				
	(inch)	(mm)		(Ft.lbs)	(Nm)	R	L	W	H	(lbs)	R	L	W	H	(kg)
RSL28000	3 1/8	80	RLP28302	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	3 1/16	-	RLP28303	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	-	85	RLP28085M	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	3 1/4	-	RLP28304	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	3 5/16	-	RLP28305	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	3 3/8	-	RLP28306	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	3 7/16	-	RLP28307	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	3 1/2	-	RLP28308	16.000	21.696	2.56	14.36	3.00	10.54	27.6	65,0	364,7	76,2	267,7	12,5
	-	90	RLP28090M	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 9/16	-	RLP28309	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 5/8	-	RLP28310	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 11/16	-	RLP28311	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 3/4	95	RLP28312	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 13/16	-	RLP28313	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 7/8	-	RLP28314	22.000	29.832	2.92	14.36	3.00	10.77	28.8	74,2	364,7	76,2	273,6	13,1
	3 15/16	100	RLP28315	28.002	37.971	3.29	14.47	3.00	11.14	31.7	83,6	367,5	76,2	283,0	14,4
	4	-	RLP28400	28.002	37.971	3.29	14.47	3.00	11.14	31.7	83,6	367,5	76,2	283,0	14,4
	4 1/16	-	RLP28401	28.002	37.971	3.29	14.47	3.00	11.14	31.7	83,6	367,5	76,2	283,0	14,4
	4 1/8	105	RLP28402	28.002	37.971	3.29	14.47	3.00	11.14	31.7	83,6	367,5	76,2	283,0	14,4
	4 3/16	-	RLP28403	28.002	37.971	3.29	14.47	3.00	11.14	31.7	83,6	367,5	76,2	283,0	14,4
	4 1/4	-	RLP28404	28.002	37.971	3.29	14.47	3.00	11.14	31.7	83,6	367,5	76,2	283,0	14,4
	4 5/16	110	RLP28405	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	4 3/8	-	RLP28406	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	4 7/16	-	RLP28407	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	4 1/2	-	RLP28408	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	-	115	RLP28115M	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	4 9/16	-	RLP28409	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	4 5/8	-	RLP28410	28.002	37.971	3.43	14.61	3.00	11.28	31.5	87,1	371,1	76,2	286,5	14,3
	4 3/4	120	RLP28412	28.002	37.971	3.65	14.83	3.00	11.50	33.5	92,7	376,7	76,2	292,1	15,2
	-	123	RLP28123M	28.002	37.971	3.65	14.83	3.00	11.50	33.5	92,7	376,7	76,2	292,1	15,2
	4 7/8	-	RLP28414	28.002	37.971	3.65	14.83	3.00	11.50	33.5	92,7	376,7	76,2	292,1	15,2
	5	-	RLP28500	28.002	37.971	3.65	14.83	3.00	11.50	33.5	92,7	376,7	76,2	292,1	15,2
	5 1/8	130	RLP28502	28.002	37.971	3.79	14.97	3.00	11.64	33.2	96,3	380,2	76,2	295,7	15,1
	5 3/16	-	RLP28503	28.002	37.971	3.79	14.97	3.00	11.64	33.2	96,3	380,2	76,2	295,7	15,1
	5 1/4	-	RLP28504	28.002	37.971	3.79	14.97	3.00	11.64	33.2	96,3	380,2	76,2	295,7	15,1
	5 3/8	135	RLP28506	28.002	37.971	3.79	14.97	3.00	11.64	33.2	96,3	380,2	76,2	295,7	15,1
	5 1/2	140	RLP28508	28.002	37.971	4.05	15.23	3.00	11.90	33.5	102,9	386,8	76,2	302,3	15,2
	5 5/16	-	RLP28509	28.002	37.971	4.05	15.23	3.00	11.90	33.5	102,9	386,8	76,2	302,3	15,2
	5 5/8	-	RLP28510	28.002	37.971	4.05	15.23	3.00	11.90	33.5	102,9	386,8	76,2	302,3	15,2
	5 3/4	145	RLP28512	28.002	37.971	4.05	15.23	3.00	11.90	33.5	102,9	386,8	76,2	302,3	15,2
	5 7/8	150	RLP28514	28.002	37.971	4.22	15.48	3.00	12.15	34.5	107,2	393,2	76,2	308,6	15,6
	-	151	RLP28151M	28.002	37.971	4.22	15.48	3.00	12.15	34.5	107,2	393,2	76,2	308,6	15,6
	6	-	RLP28600	28.002	37.971	4.22	15.48	3.00	12.15	34.5	107,2	393,2	76,2	308,6	15,6
	6 1/8	155	RLP28602	28.002	37.971	4.22	15.48	3.00	12.15	34.5	107,2	393,2	76,2	308,6	15,6

IMPORTANT: RSL-drive units must be ordered separately to operate the RLP-Hexagon Cassettes.

Accessories for RSL-Series Torque Wrenches

TWMP503, Torque Wrench Moly Paste

- Enerpac 503 Moly Paste reduces friction on threaded fasteners – bolts, nuts and studs
- The low and uniform friction coefficient of 0.06 (torque coefficient, K, of 0.10) creates reliable assembly conditions
- This lubricant stays in place through heat, load and vibration to insure trouble-free disassembly from -29 °C to 400 °C (-20 °F to 750 °F)
- 1,8 kg (4 lb) can.

▼ TWMP503



for
RSL
Series



ERAK-Series, Reaction Arm Kits

Provides reaction point options for RSQ1500, RSQ3000, RSQ5000 and RSQ8000 square drive torque wrenches. Significantly improves worker safety by providing a safety tested and full torque rated reaction arm, and increases tool fit.

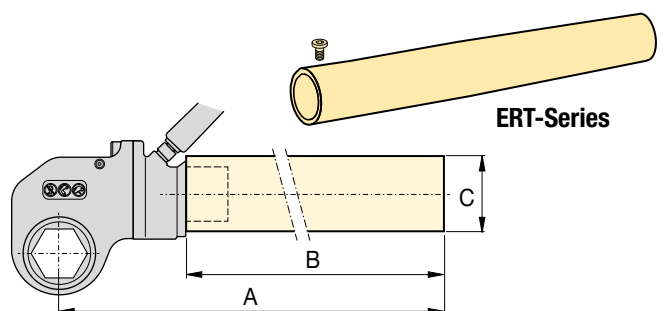
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ERT-Series, Extended Reaction Tubes

For Torque Wrench Model Nr.	Model Number	Dimensions (mm)			 (kg)
		A	B	Ø C	
RSL1500 + RLP	ERT152	157	51	57	0,9
	ERT156	259	152	57	1,6
	ERT159	335	229	57	2,5
	ERT1512	411	305	57	3,4
	ERT1524	716	610	57	6,7
RSL3000 + RLP	ERT3012	429	305	70	3,0
	ERT3024	734	610	70	5,9
RSL5000 + RLP	ERT5012	451	305	89	5,6
	ERT5024	756	610	89	11,3
RSL11000 + RLP	ERT1106	330	152	95	2,1
	ERT11012	483	305	95	4,1
	ERT11018	635	457	95	6,1
	ERT11024	787	610	95	8,4
RSL19000 + RLP	ERT19024	800	610	127	16,7
	ERT2806	351	152	127	3,6
RSL28000 + RLP	ERT28012	503	305	127	7,3
	ERT28018	655	457	127	10,9
	ERT28024	808	610	127	16,6

NOTE: Extended Reaction Tubes for RSL8000 are available on request.

- Only to be used on RSL-drive units with RLP-hexagon cassettes
- Used in place of standard reaction arm
- One-piece steel design, durable and simple
- Increases tool fit in restricted access areas
- Full torque rated.



▼ RSL-Drive Unit with interchangeable RLP...SL Slimline Hexagon Cassette



Simplicity

- Minimum nose radius for trouble-free tool fit which makes it uniquely equipped to access tight spaces
- Simple robust alloy steel design with three moving parts for reduced maintenance
- Robust handles are available for both sides and the tops of cassettes to allow for extra maneuverability
- Proven to perform even in the harshest environments
- Reaction arm has a simple dial lock for rapid change
- Designed to give optimum strength to weight and torque to weight ratios.

Versatility

- Interchangeable cassette design
- Drive unit / hexagon cassette combination for limited height in line solutions
- Wide range of hexagon sizes available for all applications.

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across the full stroke.

Ease of Use

- Few moving parts are easily accessible for quick field maintenance
- Innovative design that completely encloses all moving parts and minimizes pinch points.

Setting New Standards in Safety, Simplicity and Performance



Torque Pumps

Visit enerpac.com for system matched air and electric torque pumps that are ideal for use with hydraulic torque wrenches.

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Torque Wrench Options and Accessories

Optional accessories are available for maximum versatility. Please contact your Enerpac representative to help you select the optimum solution for your application.

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Back-Up Spanners

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

Hexagon Sizes (A/F)		Back-Up Spanner Model Number
(inch)	(mm)	
1 $\frac{1}{16}$ - 1 $\frac{1}{4}$ "	27 - 32	BUS01
1 $\frac{7}{16}$ - 1 $\frac{5}{8}$ "	36 - 41	BUS02
1 $\frac{13}{16}$ - 2"	46 - 50	BUS03
2 $\frac{3}{16}$ - 2 $\frac{3}{8}$ "	55 - 60	BUS04
2 $\frac{9}{16}$ - 2 $\frac{3}{4}$ "	65 - 70	BUS05
2 $\frac{15}{16}$ - 3 $\frac{1}{8}$ "	75 - 80	BUS06
3 $\frac{1}{2}$ - 3 $\frac{7}{8}$ "	—	BUS07
4 $\frac{1}{4}$ - 4 $\frac{5}{8}$ "	—	BUS08
—	85 - 90	BUS09
3 $\frac{3}{4}$ - 3 $\frac{15}{16}$ "	95 - 100	BUS10
4 $\frac{1}{8}$ - 4 $\frac{15}{16}$ "	105 - 110	BUS11
—	115 - 120	BUS12

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Slimline Stepped-Width Hexagon Cassettes for RSL-Series



Slimline Stepped-Width Hexagon Cassettes

Accessing narrow spaces normally requires significantly reducing the width of the torque wrench. For the tool operator, this has always meant vastly reduced tool durability, and/or reduced torque output.

By using the highest-grade materials and perfecting the geometry, the RSL-Slimline cassettes are able to provide greater torque, get into tighter spaces, and vastly outperform the competition in product durability.

RSL Series



Hexagon Range:

1 1/4 - 3 3/16 inch

Hexagon Range:

32 - 80 mm

Maximum Operating Pressure:

690 bar



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

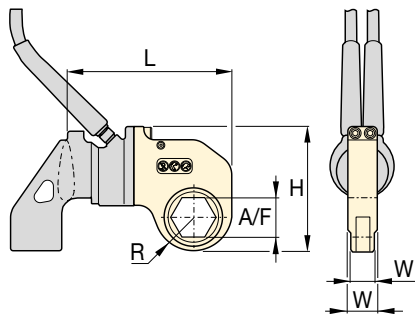
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Torque Wrench Hoses

Use Enerpac THQ700-Series torque wrench hoses with RSL-Series torque wrenches to ensure the integrity of your hydraulic system.

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▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size A/F		Slimline Hexagon Cassette Model Number	Maximum Torque *		Dimensions (inch)						Dimensions (mm)					
	(inch)	(mm)		(Ft.lbs)	(Nm)	R	L	W	W1	H		(lbs)	R	L	W	W1	
RSL1500	1¼	32	RLP1104SL	375	509	1.03	6.12	1.25	1.00	4.57	2.2	26,2	155,4	31,8	25,4	116,1	1,0
	1⅞	36	RLP1107SL	658	892	1.15	6.24	1.25	1.00	4.69	2.3	29,2	158,5	31,8	25,4	119,1	1,0
	1⅝	41	RLP1110SL	831	1127	1.31	6.41	1.25	1.00	4.86	2.7	33,3	162,8	31,8	25,4	123,4	1,2
	1⅓⅞	46	RLP1113SL	831	1127	1.40	6.49	1.25	1.00	4.94	2.7	35,6	164,8	31,8	25,4	125,5	1,2
	2	50	RLP1200SL	831	1127	1.48	6.58	1.25	1.00	5.03	2.7	37,6	167,1	31,8	25,4	127,8	1,2
RSL3000	2	50	RLP3200SL	1354	1836	1.60	8.04	1.38	1.13	5.92	4.5	40,6	204,2	35,1	28,7	150,4	2,0
	2⅜	55	RLP3203SL	1604	2175	1.76	8.16	1.38	1.13	6.08	4.7	44,7	207,3	35,1	28,7	154,4	2,1
	2⅝	60	RLP3206SL	1604	2175	1.84	8.25	1.38	1.13	6.15	4.8	46,7	209,6	35,1	28,7	156,2	2,2
	2⅞	65	RLP3209SL	1604	2175	1.95	8.14	1.38	1.13	6.26	4.6	49,5	206,8	35,1	28,7	159,0	2,1
	2¾	70	RLP3212SL	1604	2175	2.04	8.23	1.38	1.13	6.36	4.4	51,8	209,0	35,1	28,7	161,5	2,0
	2⅕⅞	75	RLP3215SL	1604	2175	2.16	8.34	1.38	1.13	6.54	4.7	54,9	211,8	35,1	28,7	166,1	2,1
RSL5000	2¾	70	RLP5212SL	4173	5658	2.16	9.63	1.75	1.62	7.07	7.5	54,9	244,6	44,5	41,1	179,6	3,4
	3⅛	80	RLP5302SL	4173	5658	2.26	9.73	1.75	1.62	7.17	7.2	57,4	247,1	44,5	41,1	182,1	3,3
RSL8000	2⅜	55	RLP8203SL	2487	3372	1.71	9.53	2.25	2.00	6.84	8.5	43,4	242,1	57,2	50,8	173,7	3,9
	2⅝	60	RLP8206SL	3198	4336	1.87	9.67	2.25	2.00	7.00	8.9	47,5	245,6	57,2	50,8	177,8	4,0
	2⅞	65	RLP8209SL	4122	5589	2.01	9.67	2.25	2.00	7.13	9.0	51,1	245,6	57,2	50,8	181,1	4,1
	2¾	70	RLP8212SL	5587	7575	2.16	9.82	2.25	2.00	7.28	9.6	54,9	249,4	57,2	50,8	184,9	4,4
	2⅕⅞	75	RLP8215SL	5587	7575	2.24	9.90	2.25	2.00	7.36	9.6	56,9	251,5	57,2	50,8	186,9	4,4
	3⅓	80	RLP8302SL	5587	7575	2.26	9.92	2.25	2.00	7.39	9.3	57,4	252,0	57,2	50,8	187,7	4,2
	3⅞	–	RLP8303SL	4740	6427	2.26	9.92	2.25	2.00	7.39	9.3	57,4	252,0	57,2	50,8	187,7	4,2

IMPORTANT: RSL-drive units must be ordered separately to operate the RLP-SL-Hexagon Cassettes.

* Minimum Torque Output at 69 bar: 10%

www.enerpac.com

▼ RSL-drive unit with interchangeable RSQ-square drive cassette



Safety and Performance

- Innovative design that completely encloses all moving parts and minimizes pinch points
- 30-35° rotation angle provides added productivity while avoiding “tool lock on” which is common with some torque wrench designs.

Simplicity

- Simple robust design with just three moving parts for reduced maintenance
- Robust handles are available for both sides and the tops of cassettes to allow for extra maneuverability
- Pull-type square drive release for quickly reversing the square drive for tightening or loosening.

Versatility

- Square Drive Sets available with Interchangeable Hexagon Cassettes
- Power head / square drive combination for flexible use with standard impact quality sockets
- Reaction arm has a simple dial lock for rapid change.

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across the full stroke.



Torque Wrench Options and Accessories

Optional accessories are available for maximum versatility. Please contact your Enerpac representative to help you select the optimum solution for your application.

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BSH-Series Sockets

Heavy-Duty Impact Sockets for power driven torquing equipment.

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Back-Up Spanners, BUS-Series

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

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ERAK-Series, Reaction Arm Kits

Provides reaction point options for RSQ1500, RSQ3000, RSQ5000 and RSQ8000 square drive torque wrenches. Significantly improves worker safety by providing a safety tested and full torque rated reaction arm, and increases tool fit.

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Square Drive Hydraulic Torque Wrenches



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

RSL Series



Maximum Torque Output:

1408 - 28.002 Ft.lbs

Maximum Torque Output:

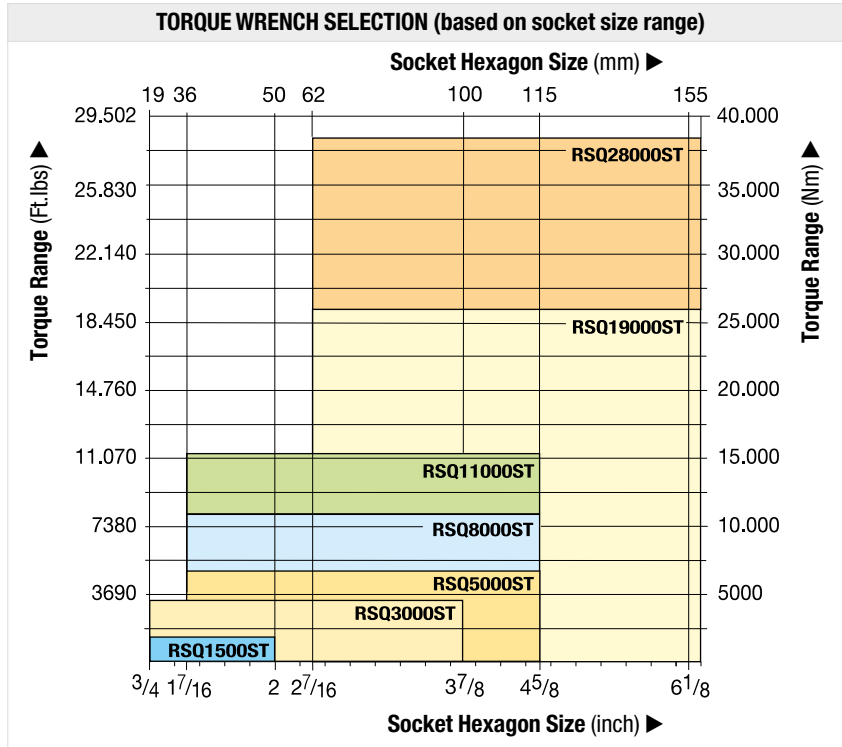
1909 - 37.965 Nm

Square Drive Range:

3/4 - 2 1/2 inch

Maximum Operating Pressure:

690 bar / 10,000 psi

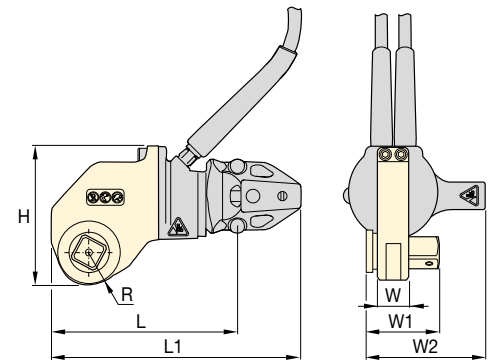


Torque Wrench Hoses

Use Enerpac THQ700-Series torque wrench hoses with RSL-Series torque wrenches to ensure the integrity of your hydraulic system.

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RSQ/RSQ-ST	Dimensions (in)								Dimensions (mm)							
	W	W1	W2	H	L	L1	R		W	W1	W2	H	L	L1	R	
RSQ1500	1.25	2.30	3.98	4.48	6.29	7.45	0.94		32	58	101	114	160	189	24	
RSQ3000	1.50	2.88	4.89	5.57	7.67	10.30	1.25		38	73	124	141	195	262	32	
RSQ5000	1.75	3.71	6.31	6.42	9.27	11.67	1.52		45	94	160	163	235	296	39	
RSQ8000	2.40	4.14	6.30	6.65	9.47	11.78	1.52		61	105	160	169	241	300	39	
RSQ11000	2.50	4.63	6.70	7.93	11.20	12.40	1.88		64	118	170	201	284	315	48	
RSQ19000	3.25	6.38	10.42	9.48	13.46	18.97	2.50		83	162	265	241	342	482	64	
RSQ28000	3.50	6.54	8.93	10.35	14.09	21.07	2.50		89	166	227	263	358	536	64	



SELECTION CHART

Maximum Torque Output at 690 bar (10,000 psi)		Square Drive Size (inch)	Square Drive Cassette Model Number ¹⁾	Square Drive Torque Wrench Set Model Number ²⁾	Weight (lbs)			Weight (kg)		
(Ft.lbs)	(Nm)				Drive Unit (without reaction arm)	Reaction Arm	Square Drive Cassette	Drive Unit (without reaction arm)	Reaction Arm	Square Drive Cassette
1408	1909	3/4	RSQ1500	RSQ1500ST	3.4	1.0	2.8	1,6	0,5	1,3
3080	4176	1	RSQ3000	RSQ3000ST	5.6	2.2	5.2	2,6	1,0	2,4
5303	7190	1 1/2	RSQ5000	RSQ5000ST	8.9	4.0	9.1	4,1	1,8	4,1
7862	10.659	1 1/2	RSQ8000	RSQ8000ST	10.6	4.3	11.6	4,8	2,0	5,3
11.154	15.123	1 1/2	RSQ11000	RSQ11000ST	11.6	6.6	18.4	5,3	3,0	8,4
18.843	25.547	2 1/2	RSQ19000	RSQ19000ST	20.0	15.7	28.9	9,1	7,1	13,1
28.002	37.965	2 1/2	RSQ28000	RSQ28000ST	22.0	11.1	39.3	10,0	5,0	17,9

¹⁾ When ordering an RSQ-Square Drive Cassette, the RSL-Drive Unit must be ordered separately.

²⁾ An RSQ...ST Torque Wrench Set includes RSQ-Square Drive Cassette, RSL-Drive Unit with Hoses and Reaction Arm.

▼ Shown: DSX11000



Safety and Performance

- High-strength, lightweight aluminium, slimline design suited for complete operator safety
- Fully enclosed drive for maximum safety
- Built-in, work-at-height safety tether connection
- Retained quick release push-button
- Patented, easy-to-use, quick release, retained reaction arm
- Fine tooth ratchet prevents the tool 'locking on'
- High-cycle design with fewer moving parts making it a more efficient tool to operate, maintain or repair
- 35° rotation angle and rapid return stroke for fast operation.

Simplicity

- Includes a robust handle or handle with lifting eye bolt which mounts on either side of the tool for extra maneuverability and safer operation
- Push-button square drive and reaction arm for fast changes and adjustments
- Easily accessible work-at-height connection point.

Accuracy

- Constant torque output provides accuracy of $\pm 3\%$ across the full stroke.

ATEX declared

- All DSX-tools are CE - ATEX declared and are shipped complete with a calibration certificate.

Setting Industry-First Safety Standards



Work-at-Height Connection

Built-in, work-at-height safety tether connection.



Fully Retained Reaction Arm

Patented, fully retained reaction arm with easy-to-use quick release, helps prevent injuries when working-at-height.



Secured Square Drive

Retained quick release push-button.



Ergonomic Tool Handle

Robust ergonomic positioning handle comes supplied as standard with every DSX-tool. The SWH10EA is a handle with lifting eye for the DSX25000.

Compatible DSX-Series wrenches

DSX1500, 3000, 5000
DSX11000
DSX25000

Ergonomic Handle (Standard)

SWH6A
SWH10A
SWH10EA



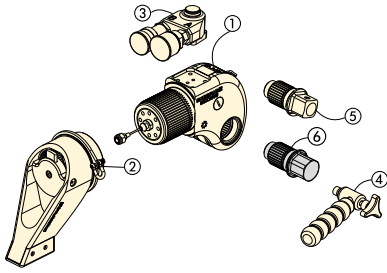
Bolting Integrity Software

Enerpac Bolting Integrity Software Solutions play a key role in implementing and managing an Integrity Program for bolted connections.

The software offers Tool selection, Bolt Load calculations and Tool pressure settings, as well as a combined Application Data Sheet and Joint Completion Report.

Custom Joint information can also be entered.

Square Drive Hydraulic Torque Wrenches

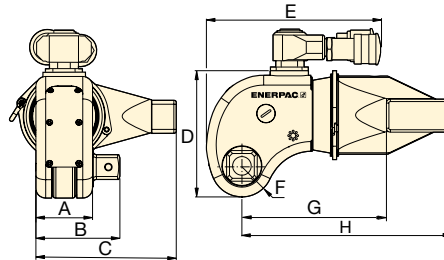
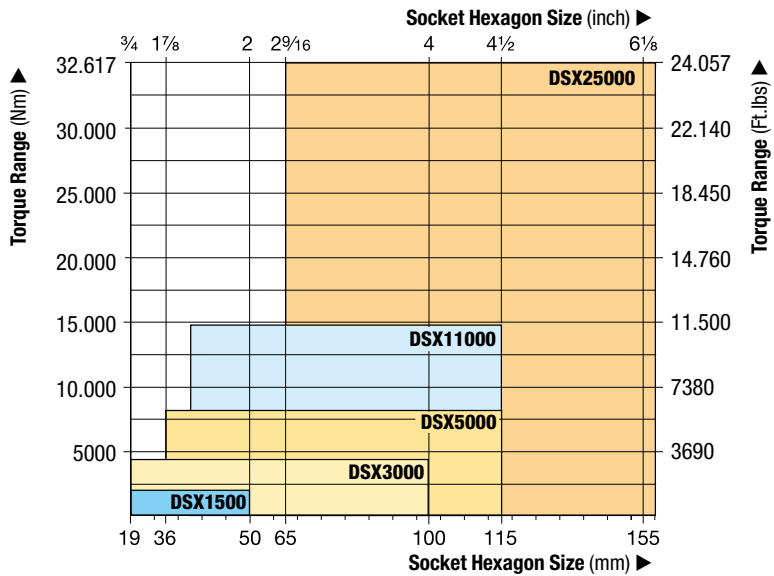


Standard are: ① ② ③ ④ ⑤

Item ⑥ is optional.

- ① Drive Unit
- ② Reaction Arm
- ③ Hose Swivel
- ④ Ergonomic Tool Handle
- ⑤ Square Drive
- ⑥ Allen® Key-Drive (option, page 254)

TORQUE WRENCH SELECTION (based on socket size range)



	Dimensions (inch)								Dimensions (mm)							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
DSX1500	1.7	2.6	4.2	3.7	5.7	0.94	4.4	6.4	44	67	107	96	145	24	114	163
DSX3000	2.3	3.4	5.7	5.1	6.7	1.25	5.8	8.5	58	86	144	129	171	32	148	215
DSX5000	2.7	4.4	6.8	5.8	7.6	1.50	7.1	10.2	69	112	173	148	192	38	180	260
DSX11000	3.4	5.1	8.5	7.2	8.7	1.88	8.9	12.8	87	129	215	181	222	48	227	325
DSX25000	4.6	6.9	11.8	9.6	10.5	2.50	11.1	18.2	117	176	288	244	266	64	281	426

Nominal Torque at 690 bar (10.000 psi)		Minimum Torque at 69 bar (1000 psi)		Square Drive Size (inch)	Torque Wrench Model Nr. (included with wrench)	Torque Wrench Model Number		
(Ft.lbs)	(Nm)	(Ft.lbs)	(Nm)				(lbs)	(kg)
1411	1913	141	191	3/4	DSX1500-08	DSX1500	4,8	2,2
3233	4383	323	438	1	DSX3000-08	DSX3000	10,6	4,8
5635	7640	563	764	1 1/2	DSX5000-08	DSX5000	17,9	8,1
11.000	14.914	1100	1491	1 1/2	DSX11000-08	DSX11000	31,7	14,4
24.057	32.617	2406	3262	2 1/2	DSX25000-08	DSX25000	71,7	32,5

DSX Series



Nominal Torque Output:

32.617 Nm | 24.075 Ft.lbs

Square Drive Range:

3/4 - 2 1/2 inch

Nose Radius:

24 - 64 mm

Maximum Operating Pressure:

690 bar / 10.000 psi



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

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BUS-Series, Back-Up Spanners

Hands-free tool to be used to stop the back nut from turning during make up or break out.

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▼ The rigid design of the DSX-Series torque wrenches provides durability, reliability and safety.



Nominal Torque Output:

32.617 Nm | 24.075 Ft.lbs

Hexagon Size Allen Drive:

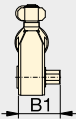
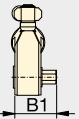
1/2 - 2 1/4 inch

Hexagon Size Allen Drive:

14 - 85 mm

For
DSX
Series



Torque Wrench	Optional Allen-Key Drives, Imperial				Optional Allen-Key Drives, Metric			
								
Model Number	Hexagon Size	Maximum Torque	Model Number	Dim.	Hexagon Size	Maximum Torque	Model Number	Dim.
(max. torque)	(inch)	(Ft.Lbs)		B1 (mm)	(mm)	(Nm)		B1 (mm)
DSX1500 (1411 Ft.lbs) (1913 Nm)	½	350	DDA15008	67	14	644	DDA1514	67
	⅝	690	DDA15010	67	17	1152	DDA1517	67
	¾	1200	DDA15012	67	19	1627	DDA1519	67
	⅞	1411	DDA15014	67	22	1913	DDA1522	67
	1	1411	DDA15100	67	24	1913	DDA1524	67
DSX3000 (3233 Ft.lbs) (4383 Nm)	⅝	690	DDA30010	86	17	1152	DDA3017	86
	¾	1200	DDA30012	86	19	1627	DDA3019	86
	⅞	1900	DDA30014	86	22	2495	DDA3022	86
	1	2830	DDA30100	86	24	3376	DDA3024	86
	1⅛	3233	DDA30102	86	27	4383	DDA3027	86
	1¼	3233	DDA30104	86	30	4383	DDA3030	86
	—	—	-	—	32	4383	DDA3032	86
DSX5000 (5635 Ft.lbs) (7640 Nm)	⅝	690	DDA50010	112	17	1152	DDA5017	112
	¾	1200	DDA50012	112	19	1627	DDA5019	112
	⅞	1900	DDA50014	112	22	2495	DDA5022	112
	1	2830	DDA50100	112	24	3376	DDA5024	112
	1⅛	5325	DDA50102	112	27	4610	DDA5027	112
	1¼	5635	DDA50104	112	30	7640	DDA5030	112
	—	—	—	-	32	7640	DDA5032	112
DSX11000 (11.000 Ft.lbs) (14.914 Nm)	1¼	5635	DDA110104	129	30	7640	DDA11030	129
	1⅝	9958	DDA110106	129	32	7640	DDA11032	129
	1½	9958	DDA110108	129	36	10.846	DDA11036	129
	1⅞	11.000	DDA110110	129	41	14.914	DDA11041	129
	1¾	11.000	DDA110112	129	46	14.914	DDA11046	129
DSX25000 (24.057 Ft.lbs) (32.617 Nm)	1½	9958	DDA250104	176	36	10.846	DDA25036	176
	1⅝	16.433	DDA250106	176	41	16.107	DDA25041	176
	1¾	15.200	DDA250112	176	46	22.777	DDA25046	176
	1⅞	22.777	DDA250114	176	50	29.211	DDA25050	176
	2	24.057	DDA250200	176	55	32.617	DDA25055	176
	2¼	24.057	DDA250204	176	60	32.617	DDA25060	176
	—	—	—	-	65	32.617	DDA25065	176
	—	—	—	-	70	32.617	DDA25070	176
	—	—	—	-	75	32.617	DDA25075	176
	—	—	—	-	85	32.617	DDA25085	176

Torque Wrench Hoses

▼ THQ706T



Twin Torque Wrench Hose

- Thermo-plastic safety dual hoses
- For use S, W, RSL, DSX and HMT-Series torque wrenches and 700 bar torque pumps
- With 1/4" Spin-on Torque Wrench Couplers
- For demanding applications, featuring a 4:1 safety factor
- Maximum working pressure of 700 bar
- Outside jacket is polyurethane, to provide maximum abrasion resistance
- Low volumetric expansion under pressure to enhance overall system efficiency
- Crimped-on vinyl strain relief for improved life and durability on all models.

Use the THQ-Series hoses with Enerpac torque wrenches and pumps to ensure the integrity of your hydraulic system. ►

THQ Series

Hose Lengths:
2, 6 and 12 metres

Maximum Operating Pressure:
700 bar



HT, B-Series, 1500 bar Hoses and Fittings for Tensioning

Bolt tensioning equipment require different hoses, couplers and fittings than torque wrenches and pumps.

Page: 307



Premium Hydraulic Oil

Use only genuine Enerpac Hydraulic Oil. The use of any other fluid will render your Enerpac warranty null and void.

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Internal Diameter	Hose Length	Model Number	Maximum Operating Pressure	Hose Ends 1/4" Spin-on Torque Wrench Couplers		 (kg)
				Hose end one	Hose end two	
6,4	2,0	THQ702T	700	female half TR630 + male half TH630	male half TH630 + female half TR630	2,2
	6,0	THQ706T	700	female half TR630 + male half TH630	male half TH630 + female half TR630	4,5
	12,0	THQ712T	700	female half TR630 + male half TH630	male half TH630 + female half TR630	7,6

▼ HMT-Drive Units with interchangeable HLP-Low Profile Cassette and HSQ-Square Drive Cassette



The HMT-Series is a range of fast, durable and efficient modular hydraulic torque wrenches, enabling you to tackle almost any bolting application. Interchange cassettes with ease, switching the HLP low profile hexagon cassette with the HSQ square drive whenever your application demands.

The tool itself has been carefully designed and manufactured, utilising superior alloys and surface treatments to make it lightweight, up to 25% faster and more than twice as durable as other tools in the same class.

Safety and Performance

- Supplied with an ergonomic tool safety handle as standard
- The HMT Modular Torque/Tool is also supplied with a link pin retainer as standard.

Versatility

- Interchangeable with other manufacturers
- HMT is able to solve all of your bolting challenges quickly and safely, with one or more attachment options, making it suitable for any application.

Simplicity

- The HMT is part of a modular system which is made up of a single power head and one attachment; the HMT-Drive Unit and HLP-Hexagon Cassette

Accuracy

- Constant torque output provides accuracy of +/-3% across the full stroke when used with compatible Enerpac-branded cassettes.

ATEX declared

- All HLP-Cassettes and HSQ-Square Drive Cassetts are CE - ATEX declared and are shipped complete with a calibration certificate.

Modular, Durable, Fast and Efficient Torque for Low-Profile Applications



Ergonomic Tool Handle

Robust ergonomic positioning handle comes standard with every HMT-Drive Unit.

Compatible HMT-Series drive units

HMT1500, 3500, 7500
HMT13000

Ergonomic Handle (Standard)

SWH6A
SWH10A



HLP Low-Profile Cassettes

For the metric and imperial low-profile hexagon cassettes see:

Page: 258



Torque Pumps

Visit enerpac.com for system matched air and electric torque pumps that are ideal for use with hydraulic torque wrenches.

Page: 273



Torque Wrench Hoses

Use Enerpac THQ-Series hoses with HMT-Series torque wrenches to ensure the integrity of your hydraulic system. See page 255.

2 m long, 2 hoses

THQ702T

6 m long, 2 hoses

THQ706T

12 m long, 2 hoses

THQ712T



BUS-Series, Back-Up Spanners

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

Page: 227

Drive Units for Hexagon & Square Drive Cassettes



Bolting Integrity Software

Visit enerpac.com to access our free on-line bolting software application. A comprehensive free online software solution for Bolted Joint Integrity.

Integral databases hold data for:

- BS1560, MSS SP44, API 6A and 17D flanged joints
- Common gasket materials and configurations
- Comprehensive range of bolt materials
- Comprehensive range of lubricants

- Enerpac's Controlled Bolting Equipment including: Torque Multipliers, Hydraulic Wrenches and Bolt Tensioning tools.

Custom Joint information can also be entered

The software offers Tool selection, Bolt Load calculations and Tool pressure settings, as well as a combined Application data sheet and Joint completion report.

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HMT Series



Maximum Torque at 10.000 psi:

1541 - 13.489 Ft.lbs

Maximum Torque at 690 bar:

2089 - 18.289 Nm

Hexagon Range:

1 1/16 - 4 5/8" / 27 - 115 mm

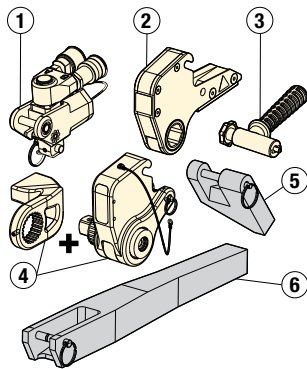
Square Drive Range:

3/4 - 1 - 1 1/2 inch

Maximum Operating Pressure:

690 bar / 10.000 psi

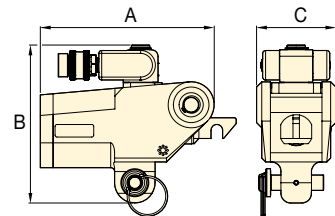
HMT-Series, Torque Wrench Options and Accessories



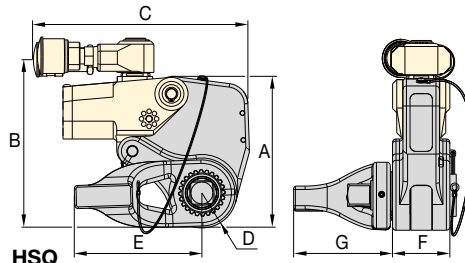
- ① HMT: Drive Unit (page 257)
- ② HLP: Hexagon Cassette (page 258-259)
- ③ SWH: Ergonomic Tool Handle (page 256)
- ④ HSQ: Square Drive Cassette + Reaction Arm for HSQ (page 257)

Optional Parts

- ⑤ HRP: Reaction Paddle (page 258)
- ⑥ HTE: Extended Reaction Arm (page 258)



HMT



HSQ



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

SELECTION CHART

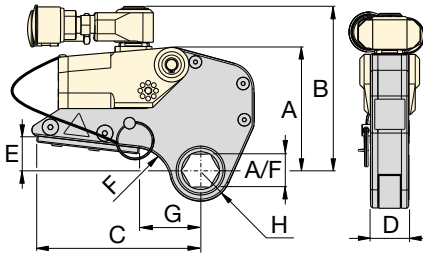
Hexagon Cassette Range (A/F) (see pages 258 - 259 for sizes and model numbers)		Maximum Torque Output at 690 bar (10.000 psi)		Drive Unit Model Number	Minimum Torque Output at 69 bar (1000 psi)		Dimensions (inch)				Dimensions (mm)			
(inch)	(mm)	(Ft.lbs)	(Nm)		(Ft.lbs)	(Nm)	A	B	C		(lbs)	A	B	C
1 1/16 - 2 7/16	26 - 62	1541	2089	HMT1500	154	209	4.30	4.10	2.0	2.20	108	104	49	1,0
1 3/8 - 3 1/8	35 - 780	3750	4804	HMT3500	375	508	5.70	5.20	2.60	3.97	146	132	66	1,8
2 3/16 - 3 15/16	55 - 100	7562	10.252	HMT7500	756	1025	7.10	6.40	3.30	7.05	180	163	82	3,2
2 7/16 - 4 5/8	62 - 115	13.489	18.289	HMT13000	1349	1828	8.50	7.40	3.90	4.40	216	187	98	9,7

Maximum Torque Output at 690 bar (10.000 psi)		Square Drive Size	Square Drive Cassette * Model Number	Dimensions (inch)								Dimensions (mm)							
(Ft.lbs)	(Nm)			A	B	C	D	E	F	G		A	B	C	D	E	F	G	
1541	2089	3/4	HSQ1500	5.71	6.61	6.85	1.19	2.36	1.95	3.29	8.16	145	168	174	30	60	50	84	3,7
3750	4804	1	HSQ3500	7.54	8.23	7.95	1.52	3.07	2.58	4.35	13.01	192	209	202	39	78	66	111	5,9
7562	10.252	1 1/2	HSQ7500	9.60	10.08	9.25	1.99	4.33	3.23	6.32	25.13	244	256	235	51	110	82	161	11,4

* **IMPORTANT:** HMT-drive units must be ordered separately to operate the HSQ-Square Drive Cassettes.

Hexagon Cassettes for HMT-Drive Units

ENERPAC 



Hexagon Range:
1 1/16 - 4 5/8 inch

Hexagon Range:
27 - 115 mm

Maximum Operating Pressure:
690 bar / 10.000 psi

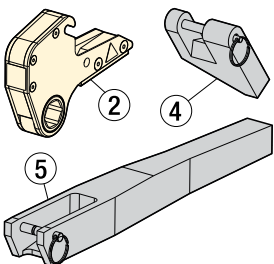
**HLP
Series**



▼ SELECTION CHART

IMPORTANT: HMT-drive units must be ordered separately to operate the HLP-Hexagon Cassettes.

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)											Dimensions (mm)										
	(inch)	(mm)		(Ft.lbs)	(Nm)	A	B	C	D	E	F	G	H	(lbs)	A		B	C	D	E	F	G	H	(kg)			
HMT1500	1 1/16	27	HLP1101	1541	2089	4.48	5.32	5.35	1.2	1.13	1.18	2.01	1.00	3.53	114	135	136	31,5	29	30	51	25	1,6				
	1 1/8	-	HLP1102	1541	2089	4.48	5.32	5.35	1.2	1.13	1.18	2.01	1.00	3.53	114	135	136	31,5	29	30	51	25	1,6				
	1 3/16	30	HLP1103	1541	2089	4.48	5.32	5.35	1.2	1.13	1.18	2.01	1.00	3.53	114	135	136	31,5	29	30	51	25	1,6				
	1 1/4	32	HLP1104	1541	2089	4.48	5.32	5.35	1.2	1.13	0.95	2.01	1.08	3.53	114	135	136	31,5	29	24	51	27	1,6				
	1 5/16	33	HLP1105	1541	2089	4.48	5.32	5.35	1.2	1.13	0.95	2.01	1.08	3.53	114	135	136	31,5	29	24	51	27	1,6				
	1 3/8	35	HLP1106	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	1.89	1.19	3.53	114	135	136	31,5	29	14	48	30	1,6				
	1 7/16	36	HLP1107	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	1.89	1.19	3.53	114	135	136	31,5	29	14	48	30	1,6				
	1 1/2	38	HLP1108	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.01	1.30	3.53	114	135	136	31,5	29	14	51	33	1,6				
	1 9/16	-	HLP1109	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.01	1.30	3.53	114	135	136	31,5	29	14	51	33	1,6				
	1 5/8	41	HLP1110	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.01	1.30	3.53	114	135	136	31,5	29	14	51	33	1,6				
	1 11/16	-	HLP1111	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.01	1.30	3.53	114	135	136	31,5	29	14	51	33	1,6				
	1 3/4	-	HLP1112	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.01	1.38	3.53	114	135	136	31,5	29	14	51	35	1,6				
	1 13/16	46	HLP1113	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.01	1.38	3.53	114	135	136	31,5	29	14	51	35	1,6				
	1 7/8	-	HLP1114	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.52	3.53	114	135	136	31,5	29	14	60	39	1,6				
	1 15/16	-	HLP1115	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.52	3.53	114	135	136	31,5	29	14	60	39	1,6				
	2	50	HLP1200	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.52	3.75	114	135	136	31,5	29	14	60	39	1,7				
	2 1/16	-	HLP1201	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.52	3.75	114	135	136	31,5	29	14	60	39	1,7				
	2 1/8	-	HLP1202	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.65	3.75	114	135	136	31,5	29	14	60	42	1,7				
	2 3/16	55	HLP1203	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.65	3.75	114	135	136	31,5	29	14	60	42	1,7				
	2 1/4	-	HLP1204	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.65	3.75	114	135	136	31,5	29	14	60	42	1,7				
	2 5/16	-	HLP1205	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.65	3.75	114	135	136	31,5	29	14	60	42	1,7				
	2 3/8	60	HLP1206	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.71	3.75	114	135	136	31,5	29	14	60	44	1,7				
	2 1/2	62	HLP1207	1541	2089	4.48	5.32	5.35	1.2	1.13	0.55	2.36	1.71	3.75	114	135	136	31,5	29	14	60	44	1,7				
HMT3500	1 3/8	35	HLP3106	3750	5084	6.02	6.57	7.24	1.7	1.59	1.89	3.09	1.30	8.60	153	167	184	42,0	41	48	79	33	3,9				
	1 1/2	36	HLP3107	3750	5084	6.02	6.57	7.24	1.7	1.59	1.89	3.09	1.30	8.60	153	167	184	42,0	41	48	79	33	3,9				
	1 5/8	38	HLP3108	3750	5084	6.02	6.57	7.24	1.7	1.59	1.81	3.16	1.42	8.60	153	167	184	42,0	41	46	80	36	3,9				
	1 3/4	-	HLP3109	3750	5084	6.02	6.57	7.24	1.7	1.59	1.81	3.16	1.42	8.60	153	167	184	42,0	41	46	80	36	3,9				
	1 7/8	41	HLP3110	3750	5084	6.02	6.57	7.24	1.7	1.59	1.81	3.16	1.42	8.60	153	167	184	42,0	41	46	80	36	3,9				
	1 9/16	-	HLP3111	3750	5084	6.02	6.57	7.24	1.7	1.59	1.81	3.16	1.42	8.60	153	167	184	42,0	41	46	80	36	3,9				
	1 3/4	-	HLP3112	3750	5084	6.02	6.57	7.24	1.7	1.59	1.58	3.08	1.52	8.60	153	167	184	42,0	41	40	78	39	3,9				
	1 13/16	46	HLP3113	3750	5084	6.02	6.57	7.24	1.7	1.59	1.58	3.08	1.52	8.60	153	167	184	42,0	41	40	78	39	3,9				
	1 7/8	-	HLP3114	3750	5084	6.02	6.57	7.24	1.7	1.59	1.42	3.05	1.63	8.60	153	167	184	42,0	41	36	77	41	3,9				
	1 15/16	-	HLP3115	3750	5084	6.02	6.57	7.24	1.7	1.59	1.42	3.05	1.63	8.60	153	167	184	42,0	41	36	77	41	3,9				
	2	50	HLP3200	3750	5084	6.02	6.57	7.24	1.7	1.59	1.42	3.05	1.63	8.60	153	167	184	42,0	41	36	77	41	3,9				
	2 1/16	-	HLP3201	3750	5084	6.02	6.57	7.24	1.7	1.59	1.42	3.05	1.63	8.82	153	167	184	42,0	41	36	77	41	4,0				
	2 1/8	-	HLP3202	3750	5084	6.02	6.57	7.24	1.7	1.59	1.18	2.97	1.74	8.82	153	167	184	42,0	41	30	75	44	4,0				
	2 3/16	55	HLP3203	3750	5084	6.02	6.57	7.24	1.7	1.59	1.18	2.97	1.74	8.82	153	167	184	42,0	41	30	75	44	4,0				
	2 1/4	-	HLP3204	3750	5084	6.02	6.57	7.24	1.7	1.59	1.18	2.97	1.74	8.82	153	167	184	42,0	41	30	75	44	4,0				
	2 5/16	-	HLP3205	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.68	1.85	9.04	153	167	184	42,0	41	16	68	47	4,1				
	2 3/8	60	HLP3206	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.68	1.85	9.04	153	167	184	42,0	41	16	68	47	4,1				
	2 1/2	62	HLP3207	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	1.85	9.04	153	167	184	42,0	41	16	71	47	4,1				
	2 5/16	63	HLP3208	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	1.96	9.04	153	167	184	42,0	41	16	71	50	4,1				
	2 3/8	65	HLP3209	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	1.96	9.04	153	167	184	42,0	41	16	71	50	4,1				
	2 5/8	-	HLP3210	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	2.07	9.04	153	167	184	42,0	41	16	71	53	4,1				
	2 11/16	-	HLP3211	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	2.07	9.04	153	167	184	42,0	41	16	71	53	4,1				
	2 3/4	70	HLP3212	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	2.07	9.04	153	167	184	42,0	41	16	71	53	4,1				
2 13/16	-	HLP3213	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	2.07	9.04	153	167	184	42,0	41	16	71	53	4,1					
2 7/8	-	HLP3214	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.80	2.07	9.04	153	167	184	42,0	41	16	71	53	4,1					
2 15/16	75	HLP3215	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.99	2.19	9.04	153	167	184	42,0	41	16	76	56	4,1					
3	-	HLP3300	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.99	2.19	9.04	153	167	184	42,0	41	16	76	56	4,1					
3 1/16	-	HLP3301	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.99	2.19	9.04	153	167	184	42,0	41	16	76	56	4,1					
3 1/8	80	HLP3302	3750	5084	6.02	6.57	7.24	1.7	1.59	0.63	2.99	2.19	9.04	153	167	184	42,0	41	16	76	56	4,1					



Optional Parts for HLP-Hexagon Cassettes

- Full torque rated
- Includes pin to secure onto HLP-cassette
- ④ HRP: allows offset reaction when in-line reaction point is not available
- ⑤ HTE: Increases tool fit in restricted areas.

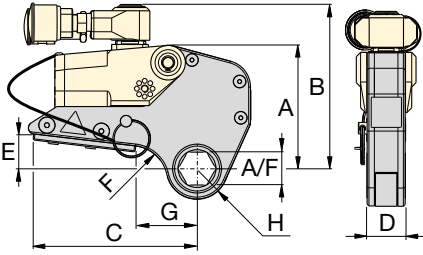
For HMT with HLP-Series Hexagon Cassettes

HMT1500 + HLP1
HMT3500 + HLP3
HMT7500 + HLP7
HMT13000 + HLP13

Reaction Paddle Model Nr.

HRP15
HRP35

Hexagon Cassettes for HMT-Drive Units



Hexagon Range:

1 1/16 - 4 5/8 inch

Hexagon Range:

27 - 115 mm

Maximum Operating Pressure:

690 bar / 10.000 psi

**HLP
Series**



▼ SELECTION CHART

IMPORTANT: HMT-drive units must be ordered separately to operate the HLP-Hexagon Cassettes.

Drive Unit Model Number	Hexagon Size A/F		Hexagon Cassette Model Number	Maximum Torque		Dimensions (inch)									Dimensions (mm)								
	(inch)	(mm)		(Ft.lbs)	(Nm)	A	B	C	D	E	F	G	H		(lbs)	A	B	C	D	E	F	G	
HMT7500	2 ³ / ₁₆	55	HLP7203	7562	10.252	7.60	8.01	8.94	2.1	1.81	1.65	3.39	1.91	15.65	193	203	227	52.6	46	42	86	49	7.1
	2 ¹ / ₄	-	HLP7204	7562	10.252	7.60	8.01	8.94	2.1	1.81	1.65	3.39	1.91	15.65	193	203	227	52.6	46	42	86	49	7.1
	2 ⁵ / ₁₆	-	HLP7205	7562	10.252	7.60	8.01	8.94	2.1	1.81	1.65	3.39	1.91	15.65	193	203	227	52.6	46	42	86	49	7.1
	2 ³ / ₈	60	HLP7206	7562	10.252	7.60	8.01	8.94	2.1	1.81	1.18	3.15	1.99	15.65	193	203	227	52.6	46	30	80	51	7.1
	2 ⁷ / ₁₆	62	HLP7207	7562	10.252	7.60	8.01	8.94	2.1	1.81	1.18	3.15	1.99	15.65	193	203	227	52.6	46	30	80	51	7.1
	2 ¹ / ₂	63	HLP7208	7562	10.252	7.60	8.01	8.94	2.1	1.81	1.18	3.15	1.99	15.65	193	203	227	52.6	46	30	80	51	7.1
	2 ⁹ / ₁₆	65	HLP7209	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.87	3.15	2.07	15.65	193	203	227	52.6	46	22	80	53	7.1
	2 ⁵ / ₈	-	HLP7210	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.79	3.15	2.19	15.65	193	203	227	52.6	46	20	80	56	7.1
	2 ¹¹ / ₁₆	-	HLP7211	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.79	3.15	2.19	15.65	193	203	227	52.6	46	20	80	56	7.1
	2 ³ / ₄	70	HLP7212	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.79	3.15	2.19	17.42	193	203	227	52.6	46	20	80	56	7.9
	2 ¹³ / ₁₆	-	HLP7213	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.79	3.15	2.19	17.42	193	203	227	52.6	46	20	80	56	7.9
	2 ⁷ / ₈	-	HLP7214	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.79	3.15	2.19	17.42	193	203	227	52.6	46	20	80	56	7.9
	2 ¹⁵ / ₁₆	75	HLP7215	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.15	2.26	17.42	193	203	227	52.6	46	17	80	58	7.9
	3	-	HLP7300	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.39	2.38	17.42	193	203	227	52.6	46	17	86	61	7.9
	3 ¹ / ₁₆	-	HLP7301	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.39	2.38	17.42	193	203	227	52.6	46	17	86	61	7.9
	3 ¹ / ₈	80	HLP7302	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.39	2.38	17.42	193	203	227	52.6	46	17	86	61	7.9
	3 ¹ / ₄	-	HLP7304	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.39	2.52	17.42	193	203	227	52.6	46	17	86	64	7.9
	-	85	HLP7085M	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.39	2.52	17.42	193	203	227	52.6	46	17	86	64	7.9
	3 ³ / ₈	-	HLP7306	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.39	2.52	17.42	193	203	227	52.6	46	17	86	64	7.9
	3 ⁷ / ₁₆	-	HLP7307	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.50	2.52	17.64	193	203	227	52.6	46	17	89	64	8.0
	3 ¹ / ₂	-	HLP7308	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.50	2.64	17.64	193	203	227	52.6	46	17	89	67	8.0
	-	90	HLP7090M	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.74	2.64	17.64	193	203	227	52.6	46	17	95	67	8.0
	3 ⁹ / ₁₆	-	HLP7309	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.74	2.78	17.64	193	203	227	52.6	46	17	95	71	8.0
	3 ³ / ₄	95	HLP7312	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.74	2.89	18.08	193	203	227	52.6	46	17	95	71	8.2
3 ⁷ / ₈	-	HLP7314	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.74	2.89	18.08	193	203	227	52.6	46	17	95	74	8.2	
3 ¹⁵ / ₁₆	100	HLP7315	7562	10.252	7.60	8.01	8.94	2.1	1.81	0.67	3.74	2.89	18.08	193	203	227	52.6	46	17	95	74	8.2	
HMT13000	2 ⁷ / ₁₆	62	HLP13207	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ¹ / ₂	63	HLP13208	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ⁹ / ₁₆	65	HLP13209	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ⁵ / ₈	67	HLP13210	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ¹¹ / ₁₆	68	HLP13211	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ³ / ₄	70	HLP13212	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ¹³ / ₁₆	71	HLP13213	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ⁷ / ₈	73	HLP13214	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.95	4.69	2.28	24.3	204	242	276	63.4	57	75	119	58.0	11.0
	2 ¹⁵ / ₁₆	75	HLP13215	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.69	2.40	24.3	204	242	276	63.4	57	70	119	61.0	11.0
	3	77	HLP13300	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.56	24.3	204	242	276	63.4	57	70	124	65.0	11.0
	3 ¹ / ₁₆	78	HLP13301	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.56	24.3	204	242	276	63.4	57	70	124	65.0	11.0
	3 ¹ / ₈	80	HLP13302	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.56	24.3	204	242	276	63.4	57	70	124	65.0	11.0
	3 ³ / ₁₆	81	HLP13303	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.58	24.3	204	242	276	63.4	57	70	124	65.5	11.0
	3 ¹ / ₄	83	HLP13304	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.58	24.3	204	242	276	63.4	57	70	124	65.5	11.0
	3 ⁵ / ₁₆	84	HLP13305	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.58	24.3	204	242	276	63.4	57	70	124	65.5	11.0
	-	85	HLP13085M	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.58	24.3	204	242	276	63.4	57	70	124	65.5	11.0
	3 ³ / ₈	86	HLP13306	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.76	4.88	2.58	24.3	204	242	276	63.4	57	70	124	65.5	11.0
	3 ⁷ / ₁₆	-	HLP13307	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.36	4.88	2.76	24.3	204	242	276	63.4	57	60	124	70.0	11.0
	3 ¹ / ₂	89	HLP13308	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.36	4.88	2.76	24.3	204	242	276	63.4	57	60	124	70.0	11.0
	-	90	HLP13090M	13.489	18.289	8.03	9.53	10.87	2.50	2.25	2.36	4.88	2.76	26.5	204	242	276	63.4	57	60	124	70.0	12.0
	3 ⁹ / ₁₆	91	HLP13309	13.489	18.289	8.03	9.53	10.87	2.50	2.25	1.34	4.33	2.91	26.5	204	242	276	63.4	57	34	110	74.0	12.0
	3 ⁵ / ₈	92	HLP13310	13.489	18.289	8.03	9.53	10.87	2.50	2.25	1.34	4.33	2.91	26.5	204	242	276	63.4	57	34	110	74.0	12.0
	3 ¹¹ / ₁₆	94	HLP13311	13.489	18.289	8.03	9.53	10.87	2.50	2.25	1.34	4.33	2.91	26.5	204	242	276	63.4	57	34	110	74.0	12.0
	3 ³ / ₄	95	HLP13312	13.489	18.289	8.03	9.53	10.87	2.50	2.25	1.34	4.33	2.91	26.5	204	242	276	63.4	57	34	110	74.0	12.0
	3 ¹³ / ₁₆	97	HLP13313	13.489	18.289	8.03	9.53	10.87	2.50	2.25	1.73	4.69	2.95	26.5	204	242	276	63.4	57	44	119	75.0	12.0
	3 ⁷ / ₈	99	HLP13314	13.489	18.289	8.03	9.53	10.87	2.50	2.25	1.73	4.69	2.95	26.5	204	242	276	63.4	57	44	119	75.0	12.0
	3 ¹⁵ / ₁₆	100																					

▼ Shown from left to right: E291, E393, E494



- High-efficiency planetary gear sets achieve high output torque from low input torque
- Operator protected by anti-backlash device
- Reversible, tighten or loosen bolts
- Reaction bar or reaction plate style
- Angle-of-turn protractor standard on E300-Series models
- Reaction plate models offer increased versatility with reaction point locations
- E300 and E400-Series have replaceable shear drives, providing overload protection of internal power train
- One replacement shear drive is included with each E300 and E400-Series models.

Accurate, Efficient Torque Multiplication

When accurate make-up or break-out of stubborn fasteners requires high torque



Typical Torque Multiplier Applications

- Locomotives
- Power plants
- Pulp and paper mills
- Refineries
- Chemical plants
- Mining and construction
- Off-road equipment
- Shipyards
- Cranes.



BUS-Series, Back-Up Spanners

To be used to stop the back nut from turning during make up or break out. Two hexagon sizes in one tool.

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◀ Enerpac Reaction Bar Torque Multiplier E393 used to manually torque bolts up to 4300 Nm.

▼ SELECTION CHART

Torque Multiplier Type	Nominal Torque Output		Model Number
	(Nm)	(Ft.lbs)	
Reaction Bar Multiplier	1020	750	E290PLUS
	1358	1000	E291
	1627	1200	E391
	2983	2200	E392
	4340	3200	E393
Reaction Plate Multiplier	2983	2200	E492
	4339	3200	E493
	6779	5000	E494
	10.846	8000	E495

Manual Torque Multipliers



Manual Torque Multipliers

Enerpac manual torque multipliers provide efficient torque multiplication in wide clearance applications and when external power sources are not available.

Manual torque multipliers are used in most industrial, construction, and equipment maintenance applications. Hydraulic torque wrenches are better suited for tight tolerance, flange and repetitive bolting applications.

Use Reaction Bar Models:

- Where space is limited,
- Where multiple reaction points are available,
- when portability is desirable.

Use Reaction Plate Models:

- Above 4300 Nm output torque,
- On flanges and applications where neighbouring bolt or nut is available to react against
- When extreme reaction forces are generated.

E Series

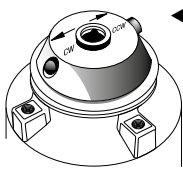


Nominal Torque Output:

1020 - 10.846 Nm

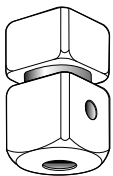
Torque Ratio:

3:1 - 52:1



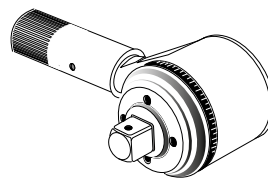
Selector Pawl

Models with anti-backlash protection have directional selector pawls. Set the pawl for clockwise or counter-clockwise rotation.



Shearable Square Drive

Provides overload protection on E300- and E400-Series multiplier's power train by shearing when the rated capacity of the tool is exceeded. Internal shear pin prevents tool from falling off bolt.



Angle-of-Turn Protractor

E391, E392 and E393 models include an angle-of-turn protractor (scale) to tighten fasteners using a "torque turn" method. Allows accurate measuring a specific number of degrees of rotation.



CAUTION!

Never use impact air tools for power driving torque multipliers. Torque multiplier drive train damage will occur.



Battery-powered, hydraulic and pneumatic Torque Wrenches

Enerpac offers a complete range of square drive and hexagon cassette torque wrenches.

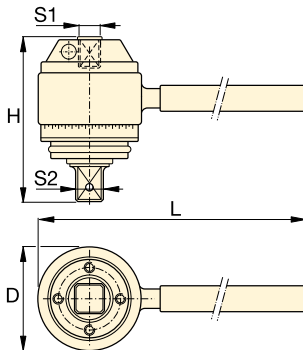
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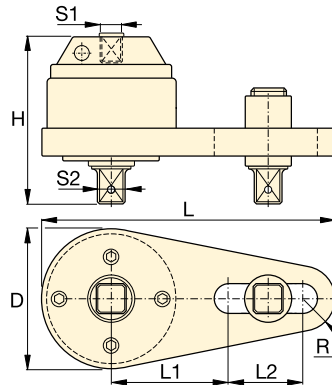
BSH-Series, Sockets

Heavy-Duty Impact Sockets for power driven torquing equipment.

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Reaction Bar Type ¹⁾



Reaction Plate Type ¹⁾

Input Torque ²⁾		Torque Ratio (estimate)	Input Female Square Drive S1 (inch)	Input Male Square Drive S2 (inch)	Replaceable Shear Drive Model Nr.	Over-load protection	Anti-Backlash	Dimensions (mm)						(kg)	Model Number
(Nm)	(Ft.lbs)							D	H	L	L1	L2	R		
339	250	3 : 1	1/2	3/4	—	No	No	71	83	217	—	—	—	1,8	E290PLUS
452	333	3 : 1	1/2	3/4	—	No	No	71	83	443	—	—	—	2,5	E291
271	200	6 : 1	1/2	3/4	E391SDK	Yes	No	100	102	497	—	—	—	4,1	E391
220	162	13,6 : 1	1/2	1	E392SDK	Yes	Yes	103	146	497	—	—	—	6,9	E392
235	173	18,5 : 1	1/2	1	E393SDK	Yes	Yes	103	165	497	—	—	—	8,3	E393
219	162	13,6 : 1	1/2	1	E392SDK	Yes	Yes	124	140	356	140	124	32	7,8	E492
234	173	18,5 : 1	1/2	1	E393SDK	Yes	Yes	124	163	356	140	124	32	8,9	E493
256	189	26,5 : 1	1/2	1 1/2	E494SDK	Yes	Yes	143	222	378	178	89	42	15,4	E494
209	154	52 : 1	1/2	1 1/2	E495SDK	Yes	Yes	148	273	387	178	89	48	22,8	E495

¹⁾ E200 and E400-series do not have an Angle-of-Turn Protractor (scale).

²⁾ User must verify manual torque wrench accuracy prior to use to ensure accurate final output torque.

Battery Torque Wrench, Square Drive

ENERPAC 

▼ BTW1000E, Battery Torque Wrench



Pinpoint Precision, Time After Time

- Integrated digital motor vectoring system delivers accurate and repeatable torque up to 6000 Ft.lbs (8130 Nm).
- The most comprehensive pre-programming and calibration process of any battery torque wrench in the world.
- Delivering +/- 5% accuracy throughout the complete usable range of the tool.

The Solo Torque Expert

- Go wherever the job takes you with the handheld, battery-powered design.
- Single-operator usage for unparalleled productivity without cords or hoses.

Set in Seconds

- Set your torque target swiftly and torque with ease, thanks to the intuitive LED display.

Power that Lasts Throughout Your Workday

- Supplied as standard with two Enerpac 18 V 5.5 Ah Lithium-ion batteries and a 60-minute fast-charger. 8 Ah battery option available separately.
- Highly efficient and low maintenance brushless motor runs cooler and maximizes your productivity, even in remote or hard-to-reach areas.
- Effortlessly switch between any compatible Cordless Alliance System (CAS) battery for unmatched versatility and savings.

Torque With Confidence

- Ergonomic glass-filled Nylon handle with a durable slip-resistant grip.
- Convenient start trigger operation.
- Compatible with standard impact quality sockets.
- Planetary gear design provides smooth and consistent torque.
- Hardened steel alloy square drive withstands high levels of torque and resists wear and tear.
- Robust cast reaction arm provides a safe and strong reaction point.

Calibration Certificate

- All BTW-torque wrenches are standard supplied with a calibration certificate.

Ready, Set, Torque!



Ordering Convenience

Choose a complete set with a wrench, two batteries, and a battery quick charger, or opt for the wrench only.

All items are housed in a sturdy storage case. Additional Quick Chargers and spare batteries can be ordered separately.



Quick Charger & Batteries

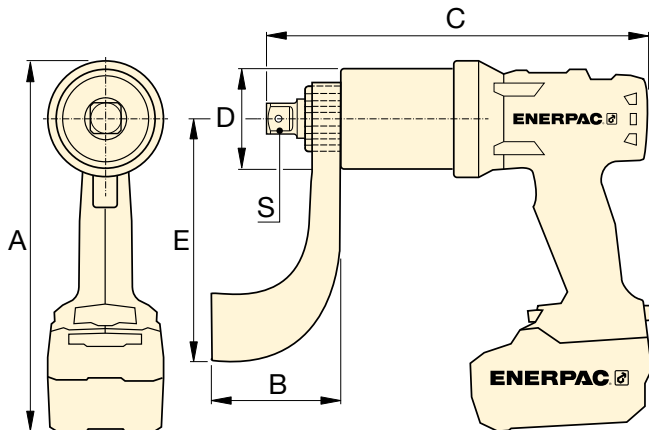
The batteries are fully charged in 40 - 60 minutes.

Quick Charger	Model Nr.
115 Volt North America	EC181BQC
230 Volt Europe	EC182EQC
230 Volt Australia	EC182AUSQC
Lithium-Ion Batteries	Model Nr.
18 Volt, 5.5 Ah (standard)	EB18V5
18 Volt, 8 Ah	EB18V8

▼ BTW-Series: Handheld, battery-powered design and single-operator usage provides unparalleled portability. No cords, no hoses, no worries.



Battery Torque Wrench, Square Drive



BTW Series



Maximum Torque Output:
500 - 6000 Ft.lbs

Maximum Torque Output:
670 - 8130 Nm

Square Drive Range:
3/4 - 1 - 1 1/2 inch

SELECTION CHART

Maximum Torque Output		Square Drive S	Model Number ¹⁾ Complete Battery Torque Wrench	Minimum Torque Output		Speed (min. - max.) (RPM)	Dimensions (inch)					2)	Dimensions (mm)					2)
(Ft.lbs)	(Nm)			(Ft.lbs)	(Nm)		A	B	C	D	E		A	B	C	D	E	
500	670	3/4	BTW500E	120	160	12 - 20	10.54	3.63	8.86	2.56	4.29	10.4	267,7	93	225,0	65,0	109	4,7
1000	1350	1	BTW1000E	240	330	2 - 8	10.54	3.63	10.63	2.85	4.29	14.5	267,7	92	270,0	72,4	109	6,6
2000	2710	1	BTW2000E	500	680	1 - 5	10.54	4.00	11.47	3.09	5.25	15.9	267,7	101	291,3	78,5	133	7,2
3000	4030	1	BTW3000E	750	1020	0,5 - 2	10.76	4.00	13.72	3.75	5.25	22.5	273,3	101	348,5	95,3	133	10,2
6000	8130	1 1/2	BTW6000E	1200	1626	0,9 - 1,2	11.39	5.75	14.73	5.00	8.00	43.3	289,0	146	374,0	127,0	203	19,6

¹⁾ Complete set include Wrench, Reaction Arm, Quick Charger and 18V 5.5 Ah Batteries, all in a sturdy case.
For wrench only remove "E". Example: **BTW1000**.
For 115 V with USA-plug change "E" into "B". Example **BTW1000B**.
For 230 V with Australian plug change "E" into "AUS". Example **BTW1000AUS**.

²⁾ Weight including Reaction Arm and Battery.

▼ Go wherever the job takes you with the handheld, battery-powered design.



Optional Handle Assemblies

* The D-Handle of the BTW3000 model requires installation at an Authorized Service Center.

Model Number D-Handle Assembly	Fits Wrench Models
BTW500DH	BTW500
BTW1000-3000DH *	BTW1000, BTW3000 *
BTW2000DH	BTW2000
BTW6000DH	BTW6000



Optional Hangers

* The Hanger Plate of the BTW3000 model requires installation at an Authorized Service Center.

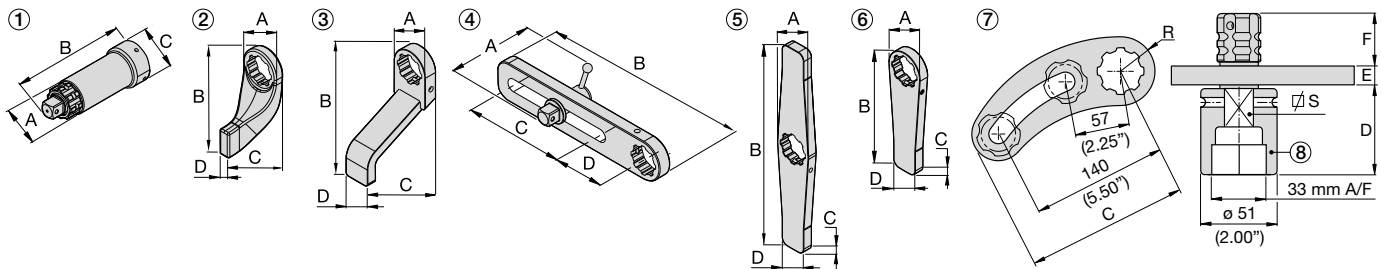
Model Number Hanger Plate	Fits Wrench Models
BTW500HP	BTW500
BTW1000-3000HP *	BTW1000, BTW3000 *
BTW2000HP	BTW2000
BTW6000HP	BTW6000

Accessories for BTW-Series Torque Wrenches **ENERPAC**

▼ Accessories for BTW-Series Battery Torque Wrenches



BTW-Series accessories for further extending the application range. ►



Optional Accessories for use with BTW500

Nr.	Description	Model Nr.	Application	Dimensions (inch)				Dimensions (mm)			
				A	B	C	D	A	B	C	D
1	Extended Drive, 6 inch (152 mm)	ED6TW	Nose extension, for truck wheel bolts	1.97	6.81	2.24	—	50	173	57	—
1	Extended Drive, 12 inch (305 mm)	ED12TW	Nose extension, for truck wheel bolts	1.97	12.80	2.24	—	50	325	57	—
1	Extended Drive, 18 inch (457 mm)	ED18TW	Nose extension, for truck wheel bolts	1.97	18.82	2.24	—	50	478	57	—
2	Standard Reaction Arm	RATW	Standard arm included with BTW	2.52	4.29	3.63	0.63	64	109	92	16
3	Extended Reaction Arm	ERATW	Long plate, use with deep well sockets	2.52	6.77	5.63	1.54	64	172	143	39
4	Sliding Reaction Arm	SLRATW	For widely spaced and uneven bolt centers	4.17	14.25	7.99	4.02	106	362	203	102
5	Double Straight Reaction Arm	DSATW	Reduces time to reposition arm *	2.52	12.01	0.63	1.26	64	305	16	32
6	Straight Reaction Arm	SRATW	Long plate for wide spaced reaction points	2.52	7.24	0.63	1.26	64	184	16	32

Optional Accessories for use with BTW1000, 2000, 3000

Nr.	Description	Model Nr.	Application	Dimensions (inch)				Dimensions (mm)			
				A	B	C	D	A	B	C	D
1	Extended Drive, 6 inch (152 mm)	ED6TWS	Nose extension, for truck wheel bolts	2.44	8.11	2.87	—	62	206	73	—
1	Extended Drive, 12 inch (305 mm)	ED12TWS	Nose extension, for truck wheel bolts	2.44	15.12	2.87	—	62	384	73	—
1	Extended Drive, 18 inch (457 mm)	ED18TWS	Nose extension, for truck wheel bolts	2.44	20.12	2.87	—	62	511	73	—
2	Standard Reaction Arm	RATWS	Standard arm included with BTW	2.99	6.77	4.00	0.83	76	172	101	21
3	Extended Reaction Arm	ERATWS	Long plate, use with deep well sockets	2.87	7.91	5.88	2.01	73	201	149	51
4	Sliding Reaction Arm	SLRATWS	For widely spaced and uneven bolt centers	4.41	15.00	7.99	4.02	112	381	203	102
5	Double Straight Reaction Arm	DSATWS	Reduces time to reposition arm *	2.87	15.98	0.75	4.02	73	406	19	102
6	Straight Reaction Arm	SRATWS	Long plate for wide spaced reaction points	2.87	9.45	0.75	2.01	73	240	19	51

Optional Accessories for use with BTW6000

Nr.	Description	Model Nr.	Application	Dimensions (inch)				Dimensions (mm)			
				A	B	C	D	A	B	C	D
1	Extended Drive 6 inch (152 mm)	ED6TWL	Nose extension, primarily for truck wheel bolts	3.31	9.13	4.02	—	84	232	102	—
1	Extended Drive 12 inch (305 mm)	ED12TWL	Nose extension, primarily for truck wheel bolts	3.31	15.12	4.02	—	84	384	102	—
2	Standard Reaction Arm	RATWL	Standard arm included with BTW model	4.02	9.02	5.75	1.26	102	229	146	32
3	Extended Reaction Arm	ERATWL	Long plate for use with deep well sockets	4.02	10.00	7.24	2.52	102	254	184	64
4	Sliding Reaction Arm	SLRATWL	For widely spaced and uneven bolt centers	5.98	16.50	7.48	4.49	152	419	190	114
5	Double Straight Reaction Arm	DSATWL	Reduces time to reposition arm *	4.02	20.00	1.26	2.24	102	508	32	57
6	Straight Reaction Arm	SRATWL	Long plate for wide spaced reaction points	4.02	12.01	1.26	2.24	102	305	32	57

* Time to reposition arm when repeatedly moving from tightening to loosening.

Optional Curved Reaction Arms and Sockets for Wheel Bolting

Nr.	Description	Model Number	Application	Dimensions (inch)						Dimensions (mm)					
				C	D	E	F	R	S	C	D	E	F	R	S
7	Curved Reaction Arm, 3/4" Square Drive	RAWB50075SQD	BTW500	6.56	—	.75	2.13	1.38	¾"	167	—	19	54	35	¾"
7	Curved Reaction Arm, 3/4" Sq. Dr. 33 mm cup	RAWB5007533CUP	BTW500	6.56	3.15	.75	2.13	1.38	¾"	167	80	19	54	35	¾"
7	Curved Reaction Arm, 1" Square Drive	RAWB100SQD	BTW1000, 2000, 3000	6.75	—	1.00	1.88	1.50	1"	171	—	25	48	38	1"
7	Curved Reaction Arm, 1" Sq. Dr. 33 mm cup	RAWB10033CUP	BTW1000, 2000, 3000	6.75	3.31	1.00	1.88	1.50	1"	171	84	25	48	38	1"
8	Socket 3/4" Square Drive, 33 mm hexagon	BSH75WB33	BTW500	—	3.15	—	—	—	¾"	—	80	—	—	—	¾"
8	Socket 1" Square Drive, 33 mm hexagon	BSH100WB33	BTW1000, 2000, 3000	—	3.31	—	—	—	1"	—	84	—	—	—	1"

ACHIEVE MORE. REACH FURTHER.

BTW-Series Accessories



SPARE RECHARGEABLE BATTERY

High-capacity battery cells provide extended runtime for higher cycle and larger tool applications.



QUICK CHARGER

Charges each Lithium-Ion battery in 60 minutes.



BSH-SERIES SOCKETS

Heavy-Duty Impact Sockets for power driven torquing equipment.



EXTENDED REACTION ARMS

Choose from a selection of extended reaction arms to access tight or difficult areas where standard reaction arms don't fit.



CURVED REACTION ARMS

Allows operator to react against adjacent nut using a cup to protect it. Allows socket to socket between 4-6" (101-152 mm) away from square drive of the tool.



BACK-UP SPANNERS

Stops the back nut from turning during make up or break out. Two hexagon sizes in one tool.





CHOOSE YOUR IDEAL PACKAGE

Build your set by choosing from 5 torque wrenches plus batteries, charger, and accessories.

▼ PTW1000



Productivity

- High-speed continuous rotation for constant torque output
- Low-friction planetary gearbox design minimizes wear and extends uptime.

Safety

- Ergonomic, low vibration design reduces fatigue and the risk of vibration related injuries for the operator
- Low noise air motor provides quiet, consistent performance for indoor and outdoor applications.

Convenience

- Provided with standard reaction arm; wide assortment of custom arms and accessories are available
- Available with or without Filter-Regulator-Lubricator (FRL)
- Unique calibration certificate provided with each tool.



◀ The PTW1000 makes quick work of this flange maintenance job.

Continuous Rotation Controlled Torque



Calibration Certificate

All PTW-Series tools are CE declared and are shipped complete with a calibration certificate.



FRL120C, Filter-Regulator-Lubricator with air hose

All PTW-Series tools are shipped complete with standard reaction arm, and Filter-Regulator-Lubricator (FRL120C).



MCS-Series, Mobile Calibration System

To check torque accuracy, run calibration tests and create calibration certificates prior to the use of continuous rotation torque tools in various applications while on a job site.

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▼ PTW-Series Pneumatic Torque Wrenches are ideal for applications where speed and precision are critical, such as track maintenance.



Pneumatic Torque Wrenches



PTW-Series, Pneumatic Torque Wrenches

Enerpac PTW-Series Pneumatic Torque Wrenches are designed for applications that require speed and control.

The standard package includes a Torque Wrench with a calibration certificate, an FRL (Filter/Regulator/Lubricator), and a 3 m long, ½" inch (13 mm) diameter air hose, which connects the FRL to the wrench.

Once the air hoses are connected, the operator simply adjusts the air pressure on

the FRL to achieve the desired torque using the calibration certificate. After this, the tool is ready to go to work! *

The air source used with the PTW system must be regulated and/or limited to 8,3 bar, and must be capable of providing a volume of at least (85 m³/h) at 6,9 bar. A separate ½" inch hose (not included) must be used to connect the FRL to the air supply.

* See instruction manual for comprehensive instructions.

PTW Series

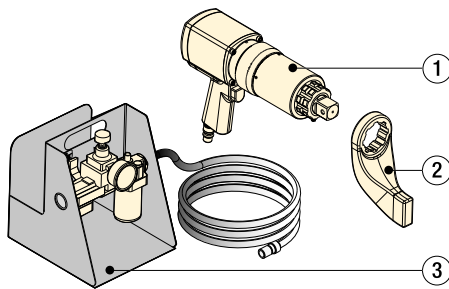


Nominal Torque Output:

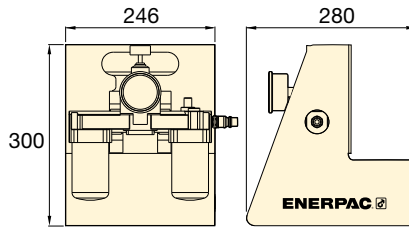
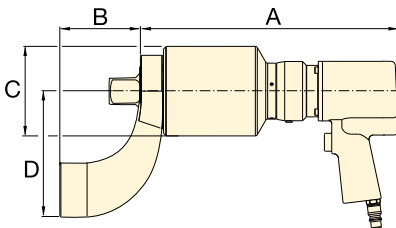
1356 - 8135 Nm

Square Drive Range:

¾ - 1 - 1½ inch



- ① PTW Torque Wrench
- ② Standard Reaction Arm
- ③ FRL120C Filter-Regulator-Lubricator with 3 meters air hose



Accessories for PTW-Series

Enerpac offers a full line of accessories including a range of reaction arms and drives.

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BSH-Series, Sockets

Heavy-Duty Impact Sockets for power driven torquing equipment.

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BUS-Series, Back-Up Spanners

Hands-free tool to be used to stop back nut from turning during make up or break out.

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▼ SELECTION CHART

All tools are shipped complete with standard reaction arm and FRL120C.

Minimum Torque (Nm)	Minimum Torque (Ft.lbs)	Nominal Torque (Nm)	Nominal Torque (Ft.lbs)	Square Drive (inch)	Model Number ¹⁾ (FRL120C included)	Speed (RPM)	Dimensions (mm)				(kg) ²⁾
							A	B	C	D	
407	300	1356	1000	¾	PTW1000-75C	12,6	272	83	72	130	7,9
407	300	1356	1000	1	PTW1000C	12,6	272	83	72	130	8,2
678	500	2712	2000	1	PTW2000C	8,0	286	83	79	133	8,8
1220	900	4067	3000	1	PTW3000C	3,1	343	83	95	133	10,4
1763	1300	8135	6000	1½	PTW6000C	2,5	366	114	127	178	17,7

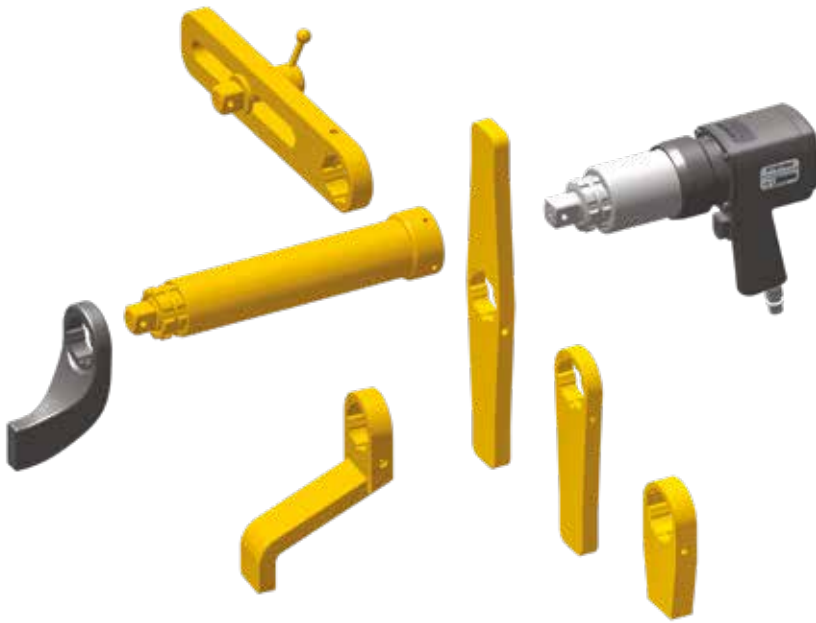
¹⁾ To order without FRL120C, remove "C" suffix from model number (example: PTW3000).

²⁾ Weight does not include reaction arm.

Reaction arm weight for PTW1000, PTW2000, PTW3000 is 1,3 kg and for PTW6000 is 3,5 kg.

Accessories for PTW-Series Torque Wrenches **ENERPAC**

▼ Shown: Accessories for PTW-Series Torque Wrenches



- Accessories for further extending the application range of pneumatic torque wrenches
- Extended drives increases tool fit in restricted access areas.



Accessories for PTW-Series

Enerpac offers the following accessories to support a wide variety of applications in industries such as mining, power generation and oil & gas. For additional custom accessories not pictured here, please contact Enerpac.



Applications

PTW-Series Pneumatic Wrenches are designed for applications that require speed and control.

Mining

- Track maintenance
- Undercarriage maintenance
- Wheel maintenance
- Shovel maintenance

Power Generation

- Turbine bolts
- Tower segments
- Turbine casings

Oil & Gas

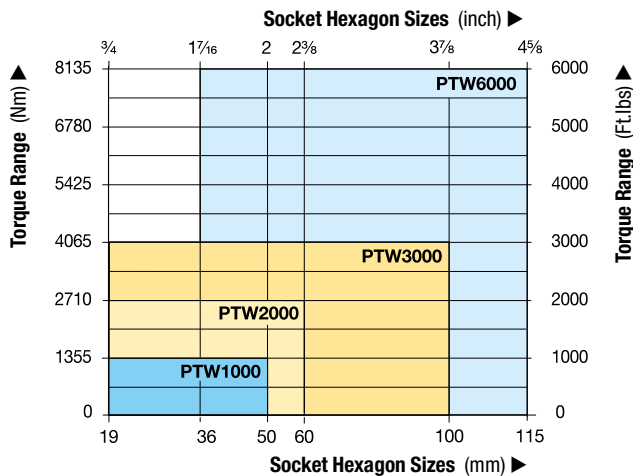
- Pipe flanges
- Valves
- Manway covers
- Pressure vessels

▼ PTW-Wrenches are ideal for applications where speed and precision are critical, such as track or wheel maintenance.



Accessories for PTW-Series Torque Wrenches

TORQUE WRENCH SELECTION (based on hexagon socket sizes)



PTW Series

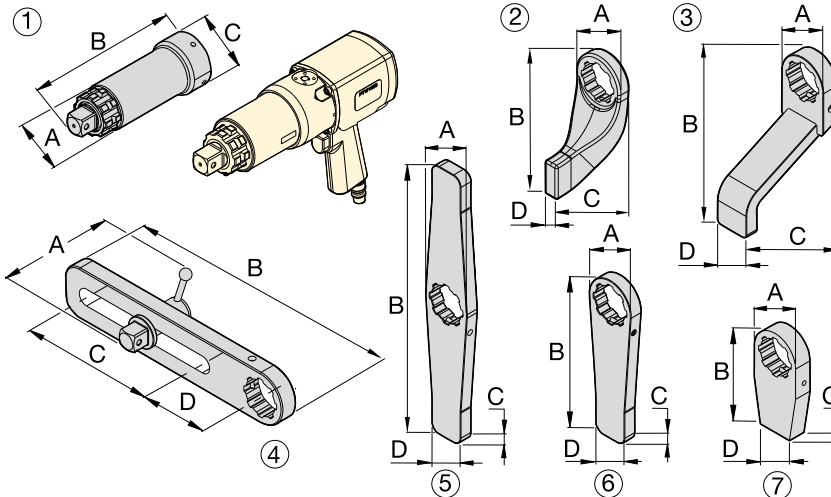


Nominal Torque Output:

1356 - 8135 Nm

Square Drive Range:

3/4 - 1 - 1 1/2 inch



BSH-Series, Sockets

Use Heavy-Duty Impact Sockets for power driven torquing equipment.

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BUS-Series, Back-Up Spanners

Hands-free tool to be used to stop back nut from turning during make up or break out.

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Optional Accessories

For use with PTW1000, 2000, 3000-models

Nr.	Description	Model Nr.	Application	Dimensions (mm)			
				A	B	C	D
1	Extended Drive, 6 inch (152 mm)	ED6TWS	Nose extension, primarily for truck wheel bolts	62	206	73	—
1	Extended Drive, 12 inch (305 mm)	ED12TWS	Nose extension, primarily for truck wheel bolts	62	384	73	—
1	Extended Drive, 18 inch (457 mm)	ED18TWS	Nose extension, primarily for truck wheel bolts	62	511	73	—
2	Standard Reaction Arm	RATWS	Standard arm included with PTW model	76	172	101	21
3	Extended Reaction Arm	ERATWS	Long plate for use with deep well sockets	73	201	149	51
4	Sliding Reaction Arm	SLRATWS	For widely spaced and uneven bolt centers	112	381	203	102
5	Double Straight Reaction Arm	DSATWS	Reduces time to reposition arm *	73	406	19	102
6	Straight Reaction Arm	SRATWS	Long plate for wide spaced reaction points	73	240	19	51
7	Blank Reaction Arm **	BLTWS	Weldable blank for custom applications **	72	151	25	51

For use with PTW6000-models

Nr.	Description	Model Nr.	Application	A	B	C	D
1	Extended Drive 6 inch (152 mm)	ED6TWL	Nose extension, primarily for truck wheel bolts	84	232	102	—
1	Extended Drive 12 inch (305 mm)	ED12TWL	Nose extension, primarily for truck wheel bolts	84	384	102	—
2	Standard Reaction Arm	RATWL	Standard arm included with PTW model	102	229	146	32
3	Extended Reaction Arm	ERATWL	Long plate for use with deep well sockets	102	254	184	64
4	Sliding Reaction Arm	SLRATWL	For widely spaced and uneven bolt centers	152	419	190	114
5	Double Straight Arm	DSATWL	Reduces time to reposition arm *	102	508	32	57
6	Straight Reaction Arm	SRATWL	Long plate for wide spaced reaction points	102	305	32	57
7	Blank Reaction Arm **	BLTWL	Weldable blank for custom applications **	102	152	32	57

* Time to reposition arm when repeatedly moving from tightening to loosening.

** WARNING: Blank reaction arms must be heat treated to HRc 38-42 prior to use.

STTC-Series, Safe T™ Torque Checker

ENERPAC 

▼ STTC2000 Safe T™ Torque Checker



Safety & Accuracy

- Durable mobile testing device for Enerpac hydraulic torque wrench systems
- Delivering ultimate on site accuracy, testing the entire wrench, pump and hose system to be used on the job
- Consistent and repeatable $\pm 1\%$ accurate range.

Durability

- Durable splash-proof keypad and display for those harsh working environments
- Impact-resistant composite carry case.

Simplicity

- Allows the user to validate & test the exact system (torque wrench, pump, hose, etc.) to give a digital read out in Ft.lbs or Nm
- Easy to operate: power up and start testing
- Transportable: all in one compact carry case, ideal for use on the road with its durable internal 3,6 V-2,2 Ah Lithium-ion battery.

Versatility

- Can test all Enerpac S, W, RSL, HMT and DSX-Series wrenches of both square drive and hexagon cassettes up to 16.100 Ft.lbs (21.800 Nm)
- Hexagon Reducers or Square Drive Sockets to be bought separately.



Hexagon Reducer (nr. 9) must be bought separately: see selection tables on next page. ►

Quick, simple and accurate mobile torque system safety testing device



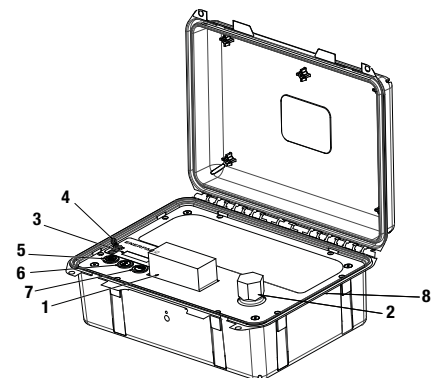
Applications

All bolted joints from 144 Ft.lbs up to 16.100 Ft.lbs (195 - 21.800 Nm).

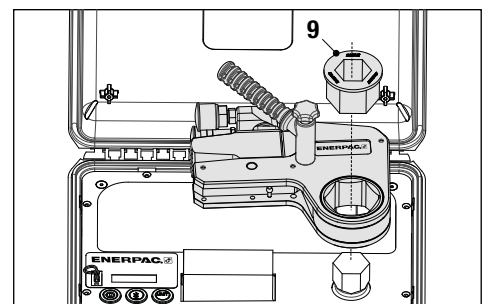
- All Enerpac torque wrenches up to the maximum capacity of the Torque Checker. Also for other brands that fit the envelope of the Torque Checker.
- Oil & Gas flanges,
- Tower Crane installation,
- Bigger machine installation/assembly,
- Wind Tower installation etc.

Industries:

- Oil & Gas, Petrochemical,
- Wind Power Generation,
- Marine,
- Manufacturing,
- Mining, Rail and more.



- | | |
|-------------------|--------------------|
| 1 Reaction Block | 5 Power Switch |
| 2 Hexagon Adaptor | 6 Bluetooth Switch |
| 3 Display | 7 Units Switch |
| 4 USB-connector | 8 Case |



Safe T™ Torque Checker



Safe T™ Torque Checker

Mobile, compact safety device allows the end user to instantly validate the performance of the entire system to be used - not just the wrench only. Allows the user to test the system on-site and in situ.

The user can validate and test the exact torque system (wrench, pump, hose, etc) to give an accurate digital read out.

Safety

The user can verify if the torque system is safe to operate, functioning correctly and within the desired safety parameters.

Unique from Enerpac

No need to wait for annual calibration tests to be confident in the performance and safety of your equipment. The Safe T™ Torque Checker can validate equipment in seconds, saving time and money.

Hexagon Reducers

The W-Series Hexagon Reducers from the tables below, can be used with all W, RLP and HLP-Series hexagon cassettes.

STTC Series



Max. Testing Output:

16.100 Ft.lbs (21.800 Nm)

Accuracy:

± 1%

Battery:

3,6 V 2,2 Ah Lithium-ion

For use with STTC2000

Hexagon Size (inch) (mm)	Cassette Model Number	Hexagon Reducer to 1 1/16" (30 mm) Model Nr.
1 1/16	W2101X	-
1 1/8	W2102X	-
1 3/16	30 W2103X	*
1 1/4	W2104X	**
1 1/8	W2105X	**
1 3/8	W2106X	W2106R103D
1 7/16	W2107X	W2107R103D
1 1/2	W2108X	W2108R103
1 5/8	W2109X	W2109R103
1 3/4	W2110X	W2110R103
1 11/16	W2111X	W2111R103
1 3/4	W2112X	W2112R103
1 13/16	W2113X	W2113R103
1 7/8	W2114X	W2114R103
1 15/16	W2115X	W2115R103
2	W2200X	W2200R103
2 1/16	W2201X	W2201R103
2 1/8	W2202X	W2202R103
2 1/4	W2203X	W2203R103
2 1/2	W2204X	W2204R103
2 5/8	W2205X	W2205R103
2 3/4	W2206X	W2206R103

For use with STTC4000

Hexagon Size (inch) (mm)	Cassette Model Number	Hexagon Reducer to 1 1/16" (36 mm) Model Nr.
1 5/16	W4105X	-
1 3/8	W4106X	-
1 7/16	36 W4107X	*
1 1/2	W4108X	**
1 5/8	W4109X	**
1 3/4	W4110X	W4110R107
1 11/16	W4111X	W4111R107
1 3/4	W4112X	W4112R107
1 13/16	W4113X	W4113R107
1 7/8	W4114X	W4114R107
1 15/16	W4115X	W4115R107
2	W4200X	W4200R107
2 1/16	W4201X	W4201R107
2 1/8	W4202X	W4202R107
2 1/4	W4203X	W4203R107
2 1/2	W4204X	W4204R107
2 5/8	W4205X	W4205R107
2 3/4	W4206X	W4206R107
2 7/8	W4207X	W4207R107
2 15/16	W4208X	W4208R107
2 3/4	W4209X	W4209R107
2 5/8	W4210X	W4210R107
2 11/16	W4211X	W4211R107
2 3/4	W4212X	W4212R107
2 13/16	W4213X	W4213R107
2 7/8	W4214X	W4214R107
2 15/16	W4215X	W4215R107
3	W4300X	W4300R107
3 1/16	W4301X	W4301R107
3 1/8	W4302X	W4302R107
3 1/4	W4303X	W4303R107
3 1/2	W4304X	W4304R107
3 5/8	W4305X	W4305R107
3 3/4	W4306X	W4306R107
-	W4085MX	W4085MR107

For use with STTC8000

Hexagon Size (inch) (mm)	Cassette Model Number	Hexagon Reducer to 2 inch (50 mm) Model Nr.
1 7/8	W8114X	-
1 15/16	W8115X	-
2	50 W8200X	*
2 1/16	W8201X	**
2 1/8	W8202X	**
2 1/4	W8203X	W8203R200
2 1/2	W8204X	W8204R200
2 5/8	W8205X	W8205R200
2 3/4	W8206X	W8206R200D
2 7/8	W8207X	W8207R200
2 15/16	W8208X	W8208R200
2 3/4	W8209X	W8209R200
2 5/8	W8210X	W8210R200
2 11/16	W8211X	W8211R200
2 3/4	W8212X	W8212R200
2 13/16	W8213X	W8213R200
2 7/8	W8214X	W8214R200
2 15/16	W8215X	W8215R200
3	W8300X	W8300R200
3 1/16	W8301X	W8301R200
3 1/8	W8302X	W8302R200
3 1/4	W8303X	W8303R200
3 1/2	W8304X	W8304R200
3 5/8	W8305X	W8305R200
-	W8085MX	W8085MR200
3 3/8	W8306X	W8306R200
3 7/16	W8307X	W8307R200
3 1/2	W8308X	W8308R200
-	W8090MX	W8090MR200
3 5/8	W8309X	W8309R200
3 3/4	W8310X	W8310R200
3 11/16	W8311X	W8311R200
3 3/4	W8312X	W8312R200
3 13/16	W8313X	W8313R200
3 7/8	W8314X	W8314R200
3 15/16	W8315X	W8315R200
4	W8400X	W8400R200
4 1/16	W8401X	W8401R200
4 1/8	W8402X	W8402R200

For use with STTC15000

Hexagon Size (inch) (mm)	Cassette Model Number	Hexagon Reducer to 2 5/8 inch Model Nr.
2 7/16	W15207X	-
2 1/2	W15208X	-
2 5/8	W15209X	-
2 3/4	W15210X	*
2 11/16	W15211X	**
2 3/4	W15212X	**
2 13/16	W15213X	**
2 7/8	W15214X	W15214R210
2 15/16	W15215X	W15215R210
3	W15300X	W15300R210
3 1/16	W15301X	W15301R210
3 1/8	W15302X	W15302R210
3 1/4	W15303X	W15303R210
3 1/2	W15304X	W15304R210
3 5/8	W15305X	W15305R210
-	W15085MX	W15085MR210
3 3/8	W15306X	W15306R210
3 7/16	W15307X	W15307R210
3 1/2	W15308X	W15308R210
-	W15090MX	W15090MR210
3 5/8	W15309X	W15309R210
3 3/4	W15310X	W15310R210
3 11/16	W15311X	W15311R210
3 3/4	W15312X	W15312R210
3 13/16	W15313X	W15313R210
3 7/8	W15314X	W15314R210
3 15/16	W15315X	W15315R210
4	W15400X	W15400R210
4 1/16	W15401X	W15401R210
4 1/8	W15402X	W15402R210
4 1/4	W15403X	W15403R210
4 1/2	W15404X	W15404R210
4 3/8	W15405X	W15405R210
4 3/4	W15406X	W15406R210
4 7/16	W15407X	W15407R210
4 1/2	W15408X	W15408R210
-	W15115MX	W15115MR210
4 3/8	W15409X	W15409R210
4 5/8	W15410X	W15410R210



Hexagon Reducers:

Must be bought separately. Can be used with all W, RLP and HLP-Series

hexagon cassettes.

* Standard hexagon size of adaptor included with STTC-model

** Requires special reaction block.

Nominal Measurable Torque Output		Model Number ¹⁾	Hexagon Adaptor included		Carry Case Size L x B x H		Sockets to be used with Square Drive Wrenches ²⁾	Hexagon Cassette fits Adaptor. For other hexagon sizes, see table above with Hexagon Reducers sizes ²⁾		
(Ft.lbs)	(Nm)		(inch)	(mm)	(mm)			W-Series	RSL-Series	HMT-Series
2140	2900	STTC2000	1 3/16	30	414 x 328 x 328	6	BSH7530	W2103X	RLP1103	HLP1103
4383	5950	STTC4000	1 7/16	36	414 x 328 x 328	8	BSH1036	W4107X	RLP3107	HLP3107
8893	12.000	STTC8000	2	50	624 x 498 x 168	19	BSH1550	W8200X	RLP5200	HLP3200
16.100	21.800	STTC15000	2 5/8	-	624 x 498 x 168	26	BSH15263	W15210X	RLP8210	HLP7210

¹⁾ With 3,6 V-2,2 Ah Lithium-ion battery.

²⁾ Square drive sockets, hexagon cassettes and hexagon reducers must be bought separately.

▼ MCS7500C, Mobile Calibration System



MCS Series

Measurable Output Torque Range:

200 - 10.000 Nm

Measurable Output Torque Range:

148 - 7378 Ft.lbs

Female Square Drive:

1½ inch



Accuracy

The calibration system is a calibrated instrument qualified in a UKAS certified laboratory. The accuracy of the MCS7500C is calibrated to meet or exceed: 1% of Full Scale Deflection (FSD) from 2% to 8% of torque range and 1% of reading from 8% to 100% of torque range.

Versatility

- Accurately measures torque output for pneumatic and electric continuous rotation tools and square drive hydraulic (*) torque wrenches from 200 - 10.000 Nm (148 - 7375 Ft.lbs)
- Adaptable design enables use with a large variety of Enerpac and competitive wrenches
- Internal Li-ion battery pack, external power via 5V DC USB power supply.

Performance

- Certificate Manager feature enables quick and easy creation of calibration certificates
- Tool database feature allows specific wrench data and calibration results to be recorded and saved for future use
- Each MCS comes with a standard ISO17025 calibration certificate.

Ease of Use

- Compact design in carrying facilitates easy transport, allowing calibration to be carried out in the shop, on jobsites, or even in a vehicle
- Integrated digital interface enables torque values to be displayed, saved, printed or transferred to a computer.



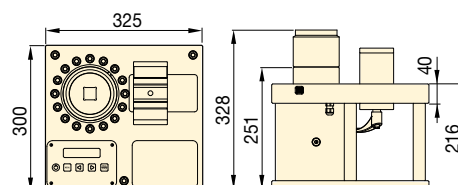
Female Reducer Set

The Female Reducer Set consists of two reducers: 1½ x 1 inch and 1½ x 3/4 inch. To be ordered separately as **MCS7500RS**.



Additional Reaction Block and Adaptor

A heavy-duty adjustable reaction block in combination with one of the three adaptors is required to facilitate the use with S, RSQ and DSX-Series Square Drive Wrenches as well as most competitive hydraulic wrenches to maximum 10.000 Nm (7375 Ft.lbs). Drawings of additional reaction block and adaptor are available upon request.



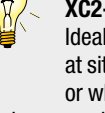
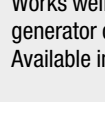
Minimum Measurable Torque Output		Nominal Measurable Torque Output		Female Square Drive	Model Number **	Description	
(Nm)	(Ft.lbs)	(Nm)	(Ft.lbs)	(inch)			(kg)
200	148	10.000	7375	1½	MCS7500C	MCS with carrying case	40

* Additional Reaction Block and appropriate Adaptor is required with the use of S, RSQ and DSX-Series square drive hydraulic wrenches.

** Not suitable for use with battery tools, impact tools or low-profile torque wrenches.

Optimum Wrench-Torque Pump Combinations

For optimum speed and performance Enerpac recommends the following system set-up with wrench-pump-hose combinations. For other combinations, consult your Enerpac bolting expert or your authorized Enerpac distributor.

		ELECTRIC TORQUE PUMPS				AIR DRIVEN TORQUE PUMPS	
		Cordless XC2-Series	TQ-Series	ZU4T-Series	ZE4T-Series ZE5T-Series	LAT-Series	ZA4T-Series
							
		274	276	278	282	284	286
Speed:							
Oil Flow at 700 bar (l/min):		0,33	0,5	1,0	0,8 - 1,6	0,4	1,0
Reservoir Capacity (litres):		2,0 - 4,0	4,0	4,6 - 6,8	4,6 - 39,0	3,0	4,6 - 6,8
Duty Cycle:		Intermittent	Standard	Heavy-Duty	Heavy-Duty	Standard	Heavy-Duty
Weight:							
Work:		Field/Factory	Field/Factory	Field	Factory	Field	Field
 220	S1500PX	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	S3000PX	Acceptable	Acceptable			Acceptable	
 228	S6000PX	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	S11000PX	Acceptable	Acceptable			Acceptable	
 240	S25000PX	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	W2000PX	Acceptable	Acceptable			Acceptable	
 252	W4000PX	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	W8000PX	Acceptable	Acceptable			Acceptable	
 256	W15000PX	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	W22000PX	Acceptable	Acceptable			Acceptable	
 274	W35000PX	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	RSL1500	Acceptable	Acceptable			Acceptable	
 282	RSL3000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	RSL5000	Acceptable	Acceptable			Acceptable	
 286	RSL8000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	RSL11000	Acceptable	Acceptable			Acceptable	
 294	RSL19000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	RSL28000	Acceptable	Acceptable			Acceptable	
302	DSX1500	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	DSX3000	Acceptable	Acceptable			Acceptable	
310	DSX5000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	DSX11000	Acceptable	Acceptable			Acceptable	
318	DSX25000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	HMT1500	Acceptable	Acceptable			Acceptable	
326	HMT3500	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	HMT7500	Acceptable	Acceptable			Acceptable	
334	HMT13000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
		Acceptable	Acceptable			Acceptable	



XC2-Series, Portable Cordless Pumps

Ideal for maintenance bolting applications at sites that do not have access to power or where having extension cords or air hoses could cause trip hazards.

TQ700-Series, Electric Torque Pumps

Designed for both portability and production, to deliver superior bolting speed.

ZU4T-Series, Electric Torque Pumps

Works well with long extension cords or generator driven electrical power supplies. Available in **Pro** and **Classic** formats.

ZU4T-Series Pro Pumps have an LCD feature to display torque or pressure, selectable torque wrench, and self-diagnostics.

ZU4T-Series Classic Pumps feature an analogue gauge and a basic electrical package to deliver durable, safe and efficient hydraulic power.

ZE-T Series, Electric Torque Pumps

Features LCD to display torque or pressure values, and self-diagnostics. With induction motor, making the ZE-Series the coolest and quietest pumps in their class.

LAT-Series, Lightweight Torque Air Pumps

Combines compact design and high productivity for bolting applications in areas hard to access with larger air powered pumps.

ZA4T-Series, Air Driven Torque Pumps

This air driven pump is best suited to power medium to large size torque wrenches.

THQ-Series, Torque Wrench Hoses

Use Enerpac THQ-Series twin hoses with all torque wrenches to ensure the integrity of your hydraulic system (see page 255).