▼ Shown: **Drive units with interchangeable cassettes**



Rigid Steel Design

The *Professional* Low Profile Solution

Simplicity

- **Includes handle to improve tool handling and safety**
- **No tools are needed for changing the hexagon cassettes**
- **Innovative, pinless wrench construction incorporates quick release cylinder and automatic crank engagement**
- **Single 360° hydraulic swivel manifold complete with screw lock couplings increases wrench and hose manueverability**

Design

- **Cylinders and low profile cassettes have been engineered to give ultra slim, compact low clearance tooling with a small nose radius**
- **Robust design with minimal parts enables easy on-site maintenance without special tools**
- **Nut sizes covered range from 1⅛ - 6⅛ inch (30 - 155 mm)**
- **Optimized strength-to-weight ratio**
- **Fast operation due to the large nut rotation per wrench cycle (30 degree rotation angle) and rapid return stroke**

Reliability

- **All wrenches are nickel-plated for excellent corrosion protection and improved durability in harsh environments**
- **All wrenches are fitted with bronze bushings to ensure the ratchet will never seize in the sideplates, thus eliminating costly repairs**

Accuracy

- **Constant torque output provides accuracy ± 3% across the full stroke**
- **In-line reaction foot ensures accuracy by reducing internal deflections**

W-Series, Low Profile Torque Wrenches

This product range has been designed using state-of-the-art CAD techniques to bring you the most advanced and safe torque wrench on the market. Safety, quality, toughness and reliability are built in.

During the design process every prototype was put through finite element stress analysis, photo-elastic modelling, rigorous cyclic testing and strain gauging.

Ex II 2 GD ck T4



TSP - Pro Series Swivel

Featuring Tilt and Swivel technology the TSP provides 360° X-axis rotation and 160° Y-axis rotation.

How to Order*

Order as an accessory which can be fitted to existing W-Series wrenches.

Factory fitted to new W-Series wrenches: Suffix the wrench model number with "-P" e.g.: **W2000-P.**

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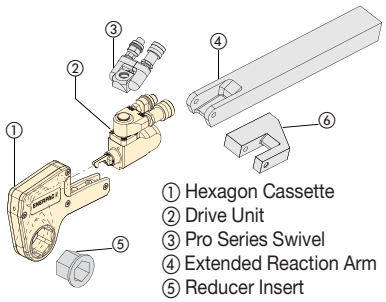


Torque Wrench Hoses

Use Enerpac THQ-700 Series hoses with W-Series torque wrenches to ensure the integrity of your hydraulic system.

19.5 feet long, 2 hoses	**THQ-706T**
39 feet long, 2 hoses	**THQ-712T**

Double-Acting Hydraulic Hexagon Torque Wrenches



① Hexagon Cassette
② Drive Unit
③ Pro Series Swivel
④ Extended Reaction Arm
⑤ Reducer Insert
⑥ Reaction Paddle



Hexagon Cassettes and Reducer Inserts

Maximum versatility with the full range of interchangeable hexagon cassettes and hexagon reducing inserts is available in metric and inch sizes.

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W Series



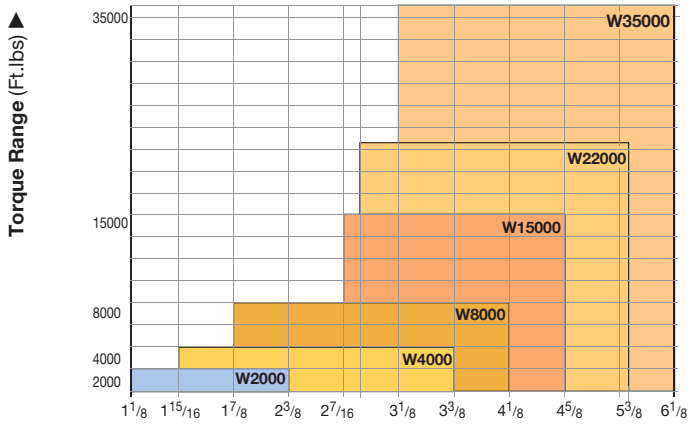
Maximum Torque at 10,000 psi:
35,000 Ft.lbs

Hexagon Range:
1⅛ -6⅛ inch

Nose Radius:
1.22-4.52 inch

Maximum Operating Pressure:
10,000 psi

DRIVE UNIT AND INTERCHANGEABLE CASSETTE SELECTION

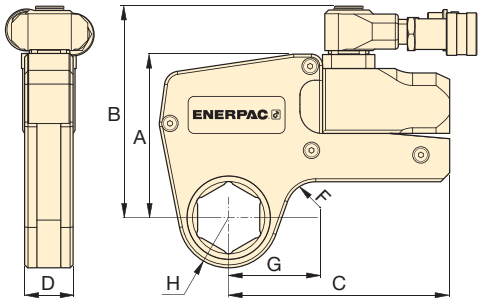




Torque Wrench Pump Selection Matrix

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

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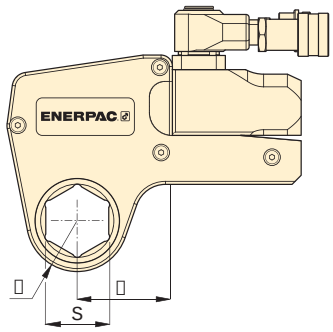
▼ *These rigid steel wrenches with low profile interchangeable hexagon cassettes guarantee durability and maximum versatility in bolting applications.*

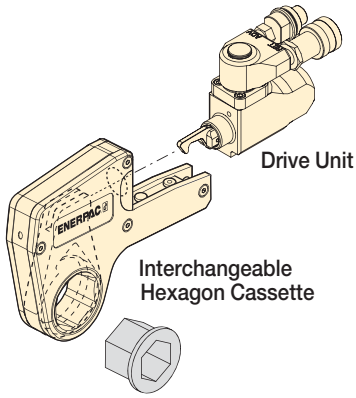


▼ SELECTION CHART

Hexagon Range *  *Page:* 190		Maximum Torque at 10,000 psi		Drive Unit Model Number ** 	Minimum Torque		Dimensions (see pages 194-197 for dimensions H, G, and S) (in)					Weight (Drive unit without hexagon cassette)
(in)	(mm)	(Ft.lbs)	(Nm)		(Ft.lbs)	(Nm)	A	B	C	D	F	(lbs)
1⅛ - 2⅜	30 - 60	2000	2712	**W2000**	200	271	4.29	5.55	5.83	1.26	.79	3.04
1⁵⁄₁₆ - 3⅜	36 - 85	4000	5424	**W4000**	400	542	5.35	6.57	7.01	1.61	.79	4.44
1⅞ - 4⅛	50 - 105	8000	10.847	**W8000**	800	1084	6.77	8.07	8.19	2.07	.98	6.59
2⁷⁄₁₆ - 4⅝	65 - 115	15,000	20.337	**W15000**	1500	2033	8.15	9.45	9.96	2.48	.79	10.72
2¹⁵⁄₁₆ - 5⅜	75 - 135	22,500	30.506	**W22000**	2250	3050	8.94	10.46	11.69	3.03	1.38	16.98
3⅛ - 6⅛	80-155	35,000	47.454	**W35000**	3500	4745	10.54	11.94	13.60	3.57	1.98	25.14

* With in-line reaction foot.
** To order a W-series wrench fitted with the TSP swivel, suffix the model number with "-P". e.g., W2000-P.





W Series



Maximum Torque at 10,000 psi:
2000 Ft.lbs

Hexagon Range:
1⅛-2⅜ inch

Maximum Operating Pressure:
10,000 psi



Metric Sizes

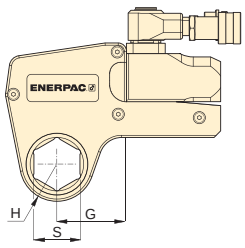
For metric sizes of hexagon cassettes and reducer inserts see:

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▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W2000	1⅛	1.22	2.11	W2102	4.19	–	–	–	–	–	–
	1³⁄₁₆	1.22	2.11	W2103	4.19	–	–	–	–	–	–
	1¼	1.22	2.11	W2104	4.19	–	–	–	–	–	–
	1⁵⁄₁₆	1.22	2.11	W2105	4.48	–	–	–	–	–	–
	1⅜	1.22	2.11	W2106	4.43	–	–	–	–	–	–
	1⁷⁄₁₆	1.22	2.11	W2107	4.37	1⁷⁄₁₆ - 1⅛	W2107R102	–	–	–	–
	1½	1.32	2.29	W2108	4.51	–	–	–	–	–	–
	1⁹⁄₁₆	1.32	2.29	W2109	4.44	–	–	–	–	–	–
	1⅝	1.32	2.29	W2110	4.38	1⅝ - 1¼	W2110R104	1⅝ - 1³⁄₁₆	W2110R103	–	–
	1¹¹⁄₁₆	1.44	2.38	W2111	4.63	–	–	–	–	–	–
	1¾	1.44	2.38	W2112	4.57	–	–	–	–	–	–
	1¹³⁄₁₆	1.44	2.38	W2113	4.46	1¹³⁄₁₆ - 1⁷⁄₁₆	W2113R107	1¹³⁄₁₆ - 1¼	W2113R104	–	–
	1⅞	1.54	2.48	W2114	4.69	–	–	–	–	–	–
	1¹⁵⁄₁₆	1.54	2.48	W2115	4.64	–	–	–	–	–	–
	2	1.54	2.48	W2200	4.54	2 - 1⅝	W2200R110	2 - 1⁷⁄₁₆	W2200R107	–	–
	2¹⁄₁₆	1.65	2.70	W2201	4.83	–	–	–	–	–	–
	2⅛	1.65	2.70	W2202	4.74	–	–	–	–	–	–
	2³⁄₁₆	1.65	2.70	W2203	4.64	2³⁄₁₆ - 1¹³⁄₁₆	W2203R113	2³⁄₁₆ - 1⅝	W2203R110	2³⁄₁₆ - 1⁷⁄₁₆	W2203R107
	2¼	1.75	2.55	W2204	4.94	–	–	–	–	–	–
	2⁵⁄₁₆	1.75	2.55	W2205	4.84	–	–	–	–	–	–
	2⅜	1.75	2.55	W2206	4.72	2⅜ - 2	W2206R200	2⅜ - 1⅞	W2206R114	2⅜ - 1¹³⁄₁₆	W2206R113
	–	–	–	–	–	2⅜ - 1½	W2206R108	2⅜ - 1⁷⁄₁₆	W2206R107	2⅜ - 1⅝	W2206R110

W4000 Series Imperial Cassettes & Reducer Inserts



Maximum Torque at 10,000 psi:
4000 Ft.lbs

Hexagon Range:
1 5/16-3 3/8 inch

Maximum Operating Pressure:
10,000 psi

W Series

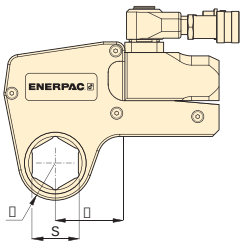


▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W4000	1 5/16	1.46	2.40	W4105	8.15	–	–	–	–	–	–
	1 3/8	1.46	2.40	W4106	8.15	–	–	–	–	–	–
	1 7/16	1.46	2.40	W4107	8.15	–	–	–	–	–	–
	1 1/2	1.46	2.40	W4108	8.31	–	–	–	–	–	–
	1 9/16	1.46	2.40	W4109	8.22	–	–	–	–	–	–
	1 5/8	1.46	2.40	W4110	8.15	–	–	–	–	–	–
	1 11/16	1.56	2.52	W4111	8.43	–	–	–	–	–	–
	1 3/4	1.56	2.52	W4112	8.35	–	–	–	–	–	–
	1 13/16	1.56	2.52	W4113	8.25	–		–	–	–	–
	1 7/8	1.63	2.63	W4114	8.45	–	–	–	–	–	–
	1 15/16	1.63	2.63	W4115	8.39	–	–	–	–	–	–
	2	1.63	2.63	W4200	8.28	2 - 1 7/8	W4200R107	–	–	–	
	2 1/16	1.73	2.89	W4201	8.65	–	–	–	–	–	–
	2 1/8	1.73	2.89	W4202	8.53	–	–	–	–	–	–
	2 3/16	1.73	2.89	W4203	8.42	2 3/16 - 1 5/8	W4203R110	2 3/16 - 1 7/16	W4203R107	2 3/16 - 1 1/4	W4203R104
	2 1/4	1.83	2.78	W4204	8.73	–	–	–	–	–	–
	2 5/16	1.83	2.78	W4205	8.61	–	–	–	–	–	–
	2 3/8	1.83	2.78	W4206	8.47	2 3/8 - 2	W4206R200	2 3/8 - 1 13/16	W4206R113	2 3/8 - 1 7/16	W4206R107
	–	–	–	–	–	2 3/8 - 1 3/8	W4206R106	–	–	–	–
	2 7/16	1.95	3.00	W4207	8.96	2 7/16 - 2	W4207R200	–	–	–	–
	2 1/2	1.95	3.00	W4208	8.86	2 1/2 - 2	W4208R200	2 1/2 - 1 13/16	W4208R113	2 1/2 - 2 1/16	W4208R201
	2 9/16	1.95	3.00	W4209	8.67	2 9/16 - 2 3/16	W4209R203	2 9/16 - 2 1/8	W4209R202	–	–
	–	–	–	–	–	2 9/16 - 2	W4209R200	2 9/16 - 1 13/16	W4209R113	–	–
	2 5/8	2.07	3.08	W4210	9.14	–	–	–	–	–	–
	2 11/16	2.07	3.08	W4211	9.03	–	–	–	–	–	–
	2 3/4	2.07	3.08	W4212	8.84	2 3/4 - 2 3/8	W4212R206	2 3/4 - 2 3/16	W4212R203	2 3/4 - 2 1/8	W4212R202
	2 13/16	2.18	3.21	W4213	9.32	–	–	–	–	–	–
	2 7/8	2.18	3.21	W4214	9.17	–	–	–	–	–	–
	2 15/16	2.18	3.21	W4215	8.96	2 15/16 - 2 9/16	W4215R209	2 15/16 - 2 3/8	W4215R206	2 15/16 - 2 3/16	W4215R203
	–	–	–	–	–	2 15/16 - 2	W4215R200	–	–	–	–
	3	2.30	3.29	W4300	9.51	3 - 2 3/16	W4300R203	–	–	–	–
	3 1/16	2.30	3.29	W4301	9.42	–	–	–	–	–	–
	3 1/8	2.30	3.29	W4302	9.16	3 1/8 - 2 15/16	W4302R215	3 1/8 - 2 3/4	W4302R212	3 1/8 - 2 9/16	W4302R209
	–	–	–	–	–	3 1/8 - 2 3/8	W4302R206	3 1/8 - 2 5/16	W4302R205	3 1/8 - 2 1/4	W4302R204
	–	–	–	–	–	3 1/8 - 2 3/16	W4302R203	3 1/8 - 2 1/8	W4302R202	3 1/8 - 2	W4302R200
	3 3/16	2.44	3.37	W4303	9.92	–	–	–	–	–	–
	3 1/4	2.44	3.37	W4304	9.92	–	–	–	–	–	–
	3 5/16	2.44	3.37	W4305	9.92	–	–	–	–	–	–
	3 3/8	2.44	3.37	W4306	9.92	–	–	–	–	–	–

W8000 Series Imperial Cassettes & Reducer Inserts

ENERPAC
POWERFUL SOLUTIONS. GLOBAL FORCE.



Maximum Torque at 10,000 psi:
8000 Ft.lbs

Hexagon Range:
1⅞ -4⅛ inch

Maximum Operating Pressure:
10,000 psi

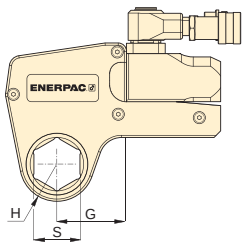
W Series



▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W8000	1⅞	1.77	3.08	W8114	17.97	–	–	–	–	–	–
	1 15/16	1.77	3.08	W8115	17.89	–	–	–	–	–	–
	2	1.77	3.08	W8200	17.75	–	–	–	–	–	–
	2 1/16	1.89	3.15	W8201	17.52	–	–	–	–	–	–
	2⅛	1.89	3.15	W8202	17.36	–	–	–	–	–	–
	2 3/16	1.89	3.15	W8203	17.22	–	–	–	–	–	–
	2¼	2.01	3.25	W8204	17.92	–	–	–	–	–	–
	2 5/16	2.01	3.25	W8205	17.76	–	–	–	–	–	–
	2⅜	2.01	3.25	W8206	17.59	–	–	–	–	–	–
	2 7/16	2.07	3.38	W8207	17.65	–	–	–	–	–	–
	2½	2.07	3.38	W8208	17.52	–	–	–	–	–	–
	2 9/16	2.07	3.38	W8209	17.29	2 9/16 - 2	W8209R200		–		
	2⅝	2.20	3.34	W8210	17.50	–	–	–	–	–	–
	2 11/16	2.20	3.34	W8211	17.36	–	–	–	–	–	–
	2¾	2.20	3.34	W8212	17.12	2¾ - 2 3/16	W8212R203		–		
	2 13/16	2.28	3.35	W8213	17.57	–	–	–	–	–	–
	2⅞	2.28	3.35	W8214	17.38	–	–	–	–	–	–
	2 15/16	2.28	3.35	W8215	17.11	2 15/16 - 2⅜	W8215R206	2 15/16 - 2 3/16	W8215R203	–	
	3	2.38	3.52	W8300	17.77	–	–	–	–	–	–
	3 1/16	2.38	3.52	W8301	17.65	–	–	–	–	–	–
	3⅛	2.38	3.52	W8302	17.33	3⅛ - 2 9/16	W8302R209	3⅛ - 2⅜	W8302R206	3⅛ - 2 3/16	W8302R203
	–	–	–	–	–	3⅛ - 2	W8302R200	–	–	–	
	3 3/16	2.60	3.63	W8303	18.99	–	–	–	–	–	–
	3¼	2.60	3.63	W8304	18.72	–	–	–	–	–	–
	3 5/16	2.60	3.63	W8305	18.54	–	–	–	–	–	–
	3⅜	2.60	3.63	W8306	18.36	–	–	–	–	–	–
	3 7/16	2.60	3.63	W8307I	18.11	–	–	–	–	–	–
	3½	2.60	3.63	W8308	17.81	3½ - 3	W8308R300	3½ - 2 15/16	W8308R215	3½ - 2¾	W8308R212
	3 9/16	2.91	4.05	W8309	20.36	–	–	–	–	–	–
	3⅝	2.91	4.05	W8310	20.18	–	–	–	–	–	–
	3 11/16	2.91	4.05	W8311	19.93	–	–	–	–	–	–
	3¾	2.91	4.05	W8312	19.71	3¾ - 3⅛	W8312R302	3¾ - 2 15/16	W8312R215	3¾ - 2¾	W8312R212
	3 13/16	2.91	4.05	W8313	19.46	–	–	–	–	–	–
	3⅞	2.91	4.05	W8314	19.10	3⅞ - 3⅛	W8314R302	3⅞ - 2 15/16	W8314R215	–	–
	3 15/16	3.13	4.33	W8315	20.31	–	–	–	–	–	–
	4	3.13	4.33	W8400	20.04	–	–	–	–	–	–
	4 1/16	3.13	4.33	W8401I	19.80	–	–	–	–	–	–
	4⅛	3.13	4.33	W8402	19.39	–	–	–	–	–	–

W15000 Series Imperial Cassettes & Reducer Inserts



Maximum Torque at 10,000 psi:
15,000 Ft.lbs

Hexagon Range:
2 7/16-4 5/8 inch

Maximum Operating Pressure:
10,000 psi

W Series

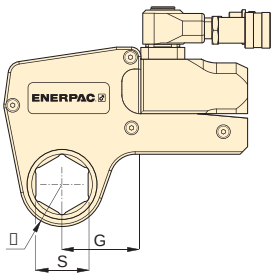


▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W15000	2 7/16	2.32	3.49	W15207	30.72	–	–	–	–	–	–
	2 1/2	2.32	3.49	W15208	30.72	–	–	–	–	–	–
	2 9/16	2.32	3.49	W15209	30.72	–	–	–	–	–	–
	2 5/8	2.32	3.49	W15210	30.72	–	–	–	–	–	–
	2 11/16	2.32	3.49	W15211	30.72	–	–	–	–	–	–
	2 3/4	2.32	3.49	W15212	30.72	–	–	–	–	–	–
	2 13/16	2.44	3.56	W15213	30.62	–	–	–	–	–	–
	2 7/8	2.44	3.56	W15214	30.39	–	–	–	–	–	–
	2 15/16	2.44	3.56	W15215	30.08	–	–	–	–	–	–
	3	2.54	3.66	W15300	30.86	3 - 2 1/8	W15300R202	–	–	–	–
	3 1/16	2.54	3.66	W15301	30.71	–	–	–	–	–	–
	3 1/8	2.54	3.66	W15302	30.34	3 1/8 - 2 9/16	W15302R209		–		
	3 3/16	2.74	3.80	W15303	32.38	–	–	–	–	–	–
	3 1/4	2.74	3.80	W15304	32.07	–	–	–	–	–	–
	3 5/16	2.74	3.80	W15305	31.85	–	–	–	–	–	–
	3 3/8	2.74	3.80	W15306	31.63	–	–	–	–	–	–
	3 7/16	2.74	3.80	W15307I	31.32	–	–	–	–	–	–
	3 1/2	2.74	3.80	W15308	30.98	3 1/2 - 2 15/16	W15308R215	3 1/2 - 2 3/4	W15308R212		–
	3 9/16	2.95	4.01	W15309	31.70	–	–	–	–	–	–
	3 5/8	2.95	4.01	W15310	31.70	–	–	–	–	–	–
	3 11/16	2.95	4.01	W15311	31.70	–	–	–	–	–	–
	3 3/4	2.95	4.01	W15312	31.70	3 3/4 - 3 1/8	W15312R302	3 3/4 - 2 15/16	W15312R215		–
	3 13/16	2.95	4.01	W15313	31.70	–	–	–	–	–	–
	3 7/8	2.95	4.01	W15314	31.70	3 7/8 - 3 1/8	W15314R302	3 7/8 - 2 15/16	W15314R215	–	–
	3 15/16	3.17	4.06	W15315	34.02	–	–	–	–	–	–
	4	3.17	4.06	W15400	33.70	–	–	–	–	–	–
	4 1/16	3.17	4.06	W15401I	33.41	–	–	–	–	–	–
	4 1/8	3.17	4.06	W15402	33.09	4 1/8 - 3 1/2	W15402R308	4 1/8 - 3 5/16	W15402R305	4 1/8 - 3 1/4	W15402R304
	4 3/16	3.17	4.06	W15403I	32.81	–	–	–	–	–	–
	4 1/4	3.17	4.06	W15404	32.29	4 1/4 - 3 1/2	W15404R308	4 1/4 - 3 1/8	W15404R302	–	–
	4 5/16	3.44	4.52	W15405	35.61	–	–	–	–	–	–
	4 3/8	3.44	4.52	W15406	35.32	–	–	–	–	–	–
	4 7/16	3.44	4.52	W15407	34.99	–	–	–	–	–	–
	4 1/2	3.44	4.52	W15408I	34.63	–	–	–	–	–	–
	4 9/16	3.44	4.52	W15409I	34.28	–	–	–	–	–	–
	4 5/8	3.44	4.52	W15410I	33.72	4 5/8 - 3 15/16	W15410R315	4 5/8 - 3 7/8	W15410R314	4 5/8 - 3 3/4	W15410R312
	–	–	–	–	–	4 5/8 - 3 1/2	W15410R308	–	–	–	–

W22000 Series Imperial Cassettes & Reducer Inserts

ENERPAC
POWERFUL SOLUTIONS. GLOBAL FORCE.



Maximum Torque at 10,000 psi:
22,500 Ft.lbs

Hexagon Range:
$2^{15}/_{16}$ -$5^{3}/_{8}$ inch

Maximum Operating Pressure:
10,000 psi

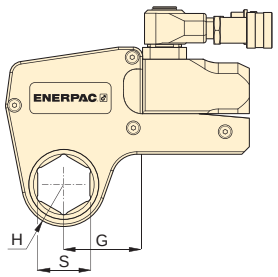
W Series



▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W22000	$2^{15}/_{16}$	2.64	4.02	W22215	48.72	–	–	–	–	–	–
	3	2.64	4.02	W22300	48.40	–	–	–	–	–	–
	$3^{1}/_{16}$	2.64	4.02	W22301	48.22	–	–	–	–	–	–
	$3^{1}/_{8}$	2.64	4.02	W22302	47.78	$3^{1}/_{8}$ - $2^{3}/_{8}$	W22302R206	$3^{1}/_{8}$ - $2^{3}/_{16}$	W22302R203	–	–
	$3^{3}/_{16}$	2.85	4.23	W22303	50.58	–	–	–	–	–	–
	$3^{1}/_{4}$	2.85	4.23	W22304	50.19	–	–	–	–	–	–
	$3^{5}/_{16}$	2.85	4.23	W22305	49.92	–	–	–	–	–	–
	$3^{3}/_{8}$	2.85	4.23	W22306	49.66	–	–	–	–	–	–
	$3^{7}/_{16}$	2.85	4.23	W22307	50.29	–	–	–	–	–	–
	$3^{1}/_{2}$	2.85	4.23	W22308	48.87	$3^{1}/_{2}$ - $2^{3}/_{4}$	W22308R212	$3^{1}/_{2}$ - $2^{9}/_{16}$	W22308R209	$3^{1}/_{2}$ - $2^{3}/_{8}$	W22308R206
	$3^{9}/_{16}$	3.07	4.45	W22309	51.58	–	–	–	–	–	–
	$3^{5}/_{8}$	3.07	4.45	W22310	51.30	–	–	–	–	–	–
	$3^{11}/_{16}$	3.07	4.45	W22311	50.93	–	–	–	–	–	–
	$3^{3}/_{4}$	3.07	4.45	W22312	50.62	$3^{3}/_{4}$ - $2^{15}/_{16}$	W22312R215	–	–	–	–
	$3^{13}/_{16}$	3.07	4.45	W22313	50.24	–	–	–	–	–	–
	$3^{7}/_{8}$	3.07	4.45	W22314	49.77	$3^{7}/_{8}$ - $3^{1}/_{8}$	W22314R302	$3^{7}/_{8}$ - $2^{15}/_{16}$	W22314R215	$3^{7}/_{8}$ - $2^{3}/_{4}$	W22314R212
	$3^{15}/_{16}$	3.35	4.72	W22315	53.57	–	–	–	–	–	–
	4	3.35	4.72	W22400	53.19	–	–	–	–	–	–
	$4^{1}/_{16}$	3.35	4.72	W22401	52.82	–	–	–	–	–	–
	$4^{1}/_{8}$	3.35	4.72	W22402	52.43	–	–	–	–	–	–
	$4^{3}/_{16}$	3.35	4.72	W22403	52.09	–	–	–	–	–	–
	$4^{1}/_{4}$	3.35	4.72	W22404	51.48	$4^{1}/_{4}$ - $3^{1}/_{2}$	W22404R308	$4^{1}/_{4}$ - $3^{1}/_{8}$	W22404R302	$4^{1}/_{4}$ - $2^{15}/_{16}$	W22404R215
	$4^{5}/_{16}$	3.54	4.92	W22405	54.26	–	–	–	–	–	–
	$4^{3}/_{8}$	3.54	4.92	W22406	53.91	–	–	–	–	–	–
	$4^{7}/_{16}$	3.54	4.92	W22407	53.50	–	–	–	–	–	–
	$4^{1}/_{2}$	3.54	4.92	W22408	53.06	–	–	–	–	–	–
	$4^{9}/_{16}$	3.54	4.92	W22409	52.64	–	–	–	–	–	–
	$4^{5}/_{8}$	3.54	4.92	W22410	51.99	$4^{5}/_{8}$ - $3^{7}/_{8}$	W22410R314	$4^{5}/_{8}$ - $3^{3}/_{4}$	W22410R312	$4^{5}/_{8}$ - $3^{1}/_{2}$	W22410R308
	$4^{3}/_{4}$	3.74	5.12	W22412	54.54		–	–	–	–	–
	$4^{7}/_{8}$	3.74	5.12	W22414	53.60	–	–	–	–	–	–
	5	3.74	5.12	W22500	52.37	5 - $4^{1}/_{4}$	W22500R404	5 - $4^{1}/_{8}$	W22500R402	5 - $3^{7}/_{8}$	W22500R314
	$5^{1}/_{8}$	3.94	5.31	W22502	55.10	–	–	–	–	–	–
	$5^{3}/_{16}$	3.94	5.31	W22503	54.71	–	–	–	–	–	–
	$5^{1}/_{4}$	3.94	5.31	W22504	54.05	–	–	–	–	–	–
	$5^{3}/_{8}$	3.94	5.31	W22506	52.77	$5^{3}/_{8}$- $4^{5}/_{8}$	W22506R410	$5^{3}/_{8}$- $4^{1}/_{4}$	W22506R404	$5^{3}/_{8}$- $4^{1}/_{8}$	W22506R402
	–	–	–	W22506	52.77	$5^{3}/_{8}$- $3^{7}/_{8}$	W22506R314	–	–	–	–

W35000 Series Imperial Cassettes & Reducer Inserts



W Series



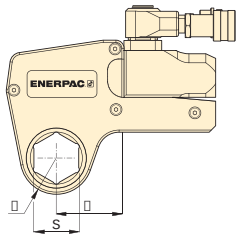
Maximum Torque at 10,000 psi:
35,000 Ft.lbs

Hexagon Range:
3⅛-6⅛ inches

Maximum Operating Pressure:
10,000 psi

▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number
W35000	3⅛	3.02	4.99	W35302	72.30	3⅛ – 2	W35302R200
	3³⁄₁₆	3.02	4.99	W35303	72.10	–	–
	3¼	3.02	4.99	W35304	71.70	–	–
	3⁵⁄₁₆	3.02	4.99	W35305	71.40	–	–
	3⅜	3.02	4.99	W35306	71.00	–	–
	3⁷⁄₁₆	3.02	4.99	W35307	70.50	–	–
	3½	3.02	4.99	W35308	70.10	3½ - 2⁵⁄₁₆	W35308R205
	3⁹⁄₁₆	3.23	5.22	W35309	71.40	–	–
	3⅝	3.23	5.22	W35310	73.40	–	–
	3¹¹⁄₁₆	3.23	5.22	W35311	73.00	–	–
	3¾	3.23	5.22	W35312	72.50	–	–
	3¹³⁄₁₆	3.23	5.22	W35313	72.10	–	–
	3⅞	3.23	5.22	W35314	71.40	3⅞ - 2¹¹⁄₁₆	W35314R211
	3¹⁵⁄₁₆	3.45	5.39	W35315	70.80	3¹⁵⁄₁₆ - 2¹³⁄₁₆	W35315R213
	4	3.45	5.39	W35400	74.70		–
	4¹⁄₁₆	3.45	5.39	W35401	74.30	–	–
	4⅛	3.45	5.39	W35402	73.90	–	–
	4³⁄₁₆	3.45	5.39	W35403	73.40	–	–
	4¼	3.45	5.39	W35404	72.80	4¼ - 3¹⁄₁₆	W35404R301
	4⁵⁄₁₆	3.69	5.63	W35405	76.90	–	–
	4⅜	3.69	5.63	W35406	76.50	–	–
	4⁷⁄₁₆	3.69	5.63	W35407	76.10	–	–
	4½	3.69	5.63	W35408	75.60	–	–
	4⁹⁄₁₆	3.69	5.63	W35409	75.20	–	–
	4⅝	3.69	5.63	W35410	74.50	4⅝ - 3⅝	W35410R310
	4¾	3.91	5.85	W35412	78.50	4¾ - 3¾	W35412R312
	4⅞	3.91	5.85	W35414	76.90	–	–
	5	3.91	5.85	W35500	75.60	5 - 4	W35500R400
	5⅛	4.09	6.02	W35502	78.90	5⅛ - 4⅛	W35502R402
	5³⁄₁₆	4.09	6.02	W35503	78.50	–	–
	5¼	4.09	6.02	W35504	77.60	–	–
	5⅜	4.09	6.02	W35506	76.30	5⅜ - 4⁵⁄₁₆	W35506R405
	5½	4.31	6.24	W35508	79.80	–	–
	5⁹⁄₁₆	4.31	6.24	W35509	79.40	–	–
	5⅝	4.31	6.24	W35510	78.50	–	–
	5¾	4.31	6.24	W35512	76.90	5¾ - 4¾	W35512R412
	5⅞	4.52	6.46	W35514	80.90	5⅞ - 4⅞	W35514R414
	6	4.52	6.46	W35600	79.60	–	
	6⅛	4.52	6.46	W35602	77.80	6⅛ - 5⅛	W35602R502



Hexagon Range:
30-105 mm

Maximum Operating Pressure:
10,000 psi (690 bar)

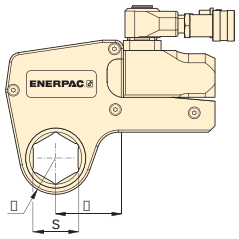
W Series



▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (mm)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (mm)	Model Number	Hexagon Reducer (mm)	Model Number	Hexagon Reducer (mm)	Model Number
W2000	30	1.22	2.11	W2103	4.19	–	–	–	–	–	–
	32	1.22	2.11	W2104	4.19	–	–	–	–	–	–
	36	1.22	2.11	W2107	4.19	–	–	–	–	–	–
	38	1.32	2.29	W2108	4.51	–	–	–	–	–	–
	41	1.32	2.29	W2110	4.38	41 - 32	W2110R104	41 - 30	W2110R103	41 - 24	W2110R024M
	46	1.44	2.38	W2113	4.69	46 - 36	W2113R107	46 - 32	W2113R104	–	–
	50	1.54	2.48	W2200	4.54	50 - 41	W2200R110	50 - 36	W2200R107	–	–
	55	1.65	2.70	W2203	4.64	55 - 46	W2203R113	55 - 41	W2203R110	55 - 36	W2203R107
	60	1.75	2.55	W2206	4.72	60 - 50	W2206R200	60 - 46	W2206R113	60 - 41	W2206R110
	–	–	–	–	–	60 - 36	W2206R107	–	–	–	–
W4000	36	1.46	2.40	W4107	7.72	–	–	–	–	–	–
	41	1.46	2.40	W4110	7.72	–	–	–	–	–	–
	46	1.56	2.52	W4113	7.94	–	–	–	–	–	–
	50	1.63	2.63	W4200	8.28	50 - 36	W4200R107	–	–	–	–
	55	1.73	2.89	W4203	8.42	55 - 41	W4203R110	55 - 36	W4203R107	55 - 32	W4203R104
	60	1.83	2.78	W4206	8.47	60 - 50	W4206R200	60 - 46	W4206R113	60 - 36	W4206R107
	65	1.95	3.00	W4209	8.67	65 - 55	W4209R203	65 - 50	W4209R200	65 - 46	W4209R113
	70	2.07	3.08	W4212	8.84	70 - 60	W4212R206	70 - 55	W4212R203	–	–
	75	2.18	3.21	W4215	8.96	75 - 65	W4215R209	75 - 60	W4215R206	–	–
	–	–	–		–	75 - 55	W4215R203	75 - 50	W4215R200	–	–
	80	2.30	3.29	W4302	9.16	80 - 75	W4302R215	80 - 70	W4302R212	80 - 65	W4302R209
	–	–	–		–	80 - 55	W4302R203	80 - 50	W4302R200		–
	85	2.44	3.37	W4085M	9.48	–	–	–	–	–	–
W8000	50	1.77	3.08	W8200	17.75	–	–	–	–	–	–
	55	1.89	3.15	W8203	17.22	–	–	–	–	–	–
	60	2.01	3.25	W8206	17.59	–	–	–	–	–	–
	65	2.07	3.38	W8209	17.29	65 - 50	W8209R200	–	–	–	–
	70	2.07	3.34	W8212	17.12	70 - 55	W8212R203	–	–	–	–
	75	2.28	3.35	W8215	17.11	75 - 60	W8215R206	75 - 55	W8215R203	–	–
	80	2.38	3.52	W8302	17.33	80 - 65	W8302R209	80 - 60	W8302R206	80 - 55	W8302R203
	–	–	–	–	–	80 - 50	W8302R200		–	–	–
	85	2.60	3.63	W8085M	18.42	85 - 70	W8085R070M	85 - 65	W8085R065M	85 - 60	W8085R060M
	–	–	–	–	–	85 - 55	W8085R055M	–	–	–	–
	90	2.91	4.05	W8090M	20.46	90 - 75	W8090R075M	–	–	–	–
	95	2.91	4.05	W8312	19.71	95 - 80	W8312R302	95 - 75	W8312R215	–	–
	100	3.13	4.33	W8315	20.31	–	–	–	–	–	–
	105	3.13	4.33	W8402	19.39	–	–	–	–	–	–

W Series Metric Cassettes and Reducer Inserts



Hexagon Range:
65-155 mm

Maximum Operating Pressure:
10,000 psi (690 bar)

W Series



▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (mm)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (mm)	Model Number	Hexagon Reducer (mm)	Model Number
W15000	65	2.32	3.49	W15209	30.72	–	–	–	–
	70	2.32	3.49	W15212	30.72	–	–	–	–
	75	2.44	3.56	W15215	30.08	–	–	–	–
	80	2.54	3.66	W15302	30.34	80-65	W15302R209	–	–
	85	2.74	3.80	W15085M	31.70	85-70	W15085R070M	–	
	90	2.95	4.01	W15090M	33.32	90-75	W15090R075M	–	–
	95	2.95	4.01	W15312	31.70	95-80	W15312R302	95 - 75	W15312R215
	100	3.17	4.06	W15315	34.02	–	–	–	–
	105	3.17	4.06	W15402	33.09	105-90	W15402R090M	–	–
	110	3.44	4.52	W15405	35.61	110-95	W15110R095M	–	–
	115	3.44	4.52	W15115M	34.48	115-100	W15115R100M	–	–
W22000	75	2.64	4.02	W22215	48.72	–	–	–	
	80	2.64	4.02	W22302	47.78	80-60	W22302R206	80 - 55	W22302R203
	85	2.85	4.23	W22085M	49.74	85-65	W22085MR209	85 - 60	W22085MR206
	90	3.07	4.45	W22090M	51.72	90-70	W22090M212	90 - 60	W22090MR206
	95	3.07	4.45	W22312	50.62	95-75	W22312R215	–	–
	100	3.35	4.72	W22315	53.57	–	–	–	–
	105	3.35	4.72	W22402	52.09	–	–	–	–
	110	3.54	4.92	W22404	51.48	–	–	–	–
	115	3.54	4.92	W22115M	52.88	–	–	–	–
	120	3.74	5.12	W22412	54.54	–	–	–	–
	123	3.74	5.12	W22123M	53.80	–	–	–	–
	130	3.94	5.31	W22502	55.10	–	–	–	–
	135	3.94	5.31	W22506	52.77	135 - 105	W22506R402	–	–
W35000	80	3.02	5.08	W35302	72.30	80-50	W35302R200	–	–
	85	3.02	5.08	W35085M	33.10	–	–	–	
	90	3.23	5.33	W35090M	34.30	90-60	W35090R206	–	–
	95	3.23	5.30	W35312	72.50	–	–	–	–
	100	3.45	5.48	W35315	70.80	–	–	–	–
	105	3.45	5.48	W35402	73.90	–	–	–	–
	110	3.69	5.75	W35405	76.90	110-85	W35405R085M	–	–
	115	3.69	5.75	W35115M	77.10	–	–	–	–
	120	3.91	6.01	W35412	78.50	120-95	W35412R312	–	–
	123	3.91	6.01	W35123M	78.90	–	–	–	–
	130	4.09	6.30	W35502	78.90	130-105	W35502R402	–	–
	135	4.09	6.30	W35506	76.30	135-110	W35506R405	–	–
	140	4.31	6.43	W35508	79.80	140-115	W35508R115M	–	–
	145	4.31	6.43	W35512	76.90	145-120	W35512R412	–	–
	150	4.52	6.67	W35514	80.90	–	–	–	–
	151	4.52	6.67	W35151M	82.10	–	–	–	–
	155	4.52	6.67	W35602	77.80	155-130	W35602R502	–	–