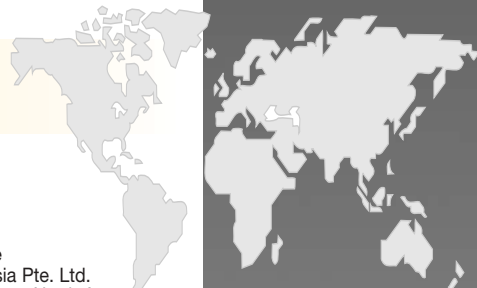


# Hydraulic Torque Wrenches



**ENERPAC**

## The Industrial Tools Line

### Cylinders

- General Purpose
- Pancake
- Aluminium Lightweight
- Low Height
- Heavy Duty
- Hollow Plunger
- Industrial
- Pull
- Long Stroke
- Jacks
- Spread

### Pumps

- Manual
- Electric Driven
- Compressed Air Driven
- Petrol Driven

### System Components

- Hoses, Couplers, Oil
- Gauges, Adaptors
- Manifolds, Fittings

### Valves

- 3-and 4-Way Directional
- Pressure and Flow Control

### Presses

- Bench and Workshop
- Roll Frame Presses
- Arbor and C-Clamps

### Pullers

- Master Pullers Sets
- Multi Purpose Puller Sets
- Posi Lock® Pullers

### Tools

- Maintenance Sets
- Punches
- Machine Lifts
- Load Skates
- Cutters
- Pipe Benders

### Bolting Tools

- Nut Splitters
- Flange/Wedge Spreaders
- Flange Alignment Tools
- Torque Wrenches
- Hydraulic Wrench Pumps
- Twin Safety Hoses

### Integrated Hydraulic Solutions

- Stage Lift Systems
- Synchronous Lifting Systems
- Synchronous Hoisting Systems

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Your Enerpac Distributor:



**ENERPAC**<sup>®</sup>  
Hydraulic Technology Worldwide

The *professional* solution for  
low-clearance bolting applications.  
Rigid steel design guarantees  
durability, reliability and safety.

▼ Shown: Drive units with interchangeable cassettes



## The *Professional* Low Profile Solution



### LP-Series, Low Profile Wrenches

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

During the design process every prototype was put through finite element analysis (FEA), photo-elastic modeling, rigorous cyclic testing and strain gauging.



### Special Design Service

Should you have an application where it is not possible to use the standard range of tools, then we invite you to draw on our extensive experience in providing tailor-made solutions to problems involving bolted joints.



### Versatility

- Quick Release interchangeable low profile drive unit can be used to drive any head within that torque range.
- Single 360° hydraulic swivel manifold complete with screw lock couplings increases wrench and hose maneuverability.

### Simplicity

- No tools are needed for changing the heads
- Innovative, pinless wrench construction incorporates quick release cylinder and automatic crank engagement

### Design

- Cylinders and low profile heads have been engineered to give ultra slim, compact, low clearance tools with a small nose radius
- Robust design with minimal parts enables easy on-site maintenance without special tools
- Covers nut sizes from 17/16 - 45/8 inch AF (36 – 115 mm)
- Optimized strength-to-weight ratio
- Fast operation due to the extensive nut rotation per cycle (30° rotation angle) and rapid return stroke

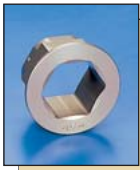
### Reliability

- 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

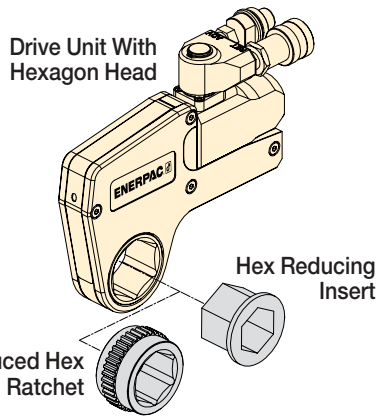
- Constant torque output provides high accuracy across the full stroke
- In-line reaction foot ensures accuracy by reducing internal deflections

# Double-acting Hydraulic Hexagon Torque Wrenches



## Accessories

The full range of reduced hex ratchets and hex reducing inserts is available. For more information, contact your local Enerpac office.



## LP Series



Maximum Torque at 10,000 psi:

**15,000 Ft.lbs**

Hexagon Range:

**1<sup>7</sup>/<sub>16</sub> - 4<sup>5</sup>/<sub>8</sub> inches**

Nose Radius:

**1.22 - 3.44 inches**

Maximum Operating Pressure:

**10,000 psi**

### ▼ METRIC SIZES

Drive Unit Model No.	Hexagon Size (mm)	Nose Radius H (in)	Inter-changeable Head Model No.	G (in)	Wt. (lbs)
<b>W2000</b> (2000 Ft.lbs)	36	1.22	<b>W2107</b>	2.11	4.2
	41	1.32	<b>W2110</b>	2.29	4.4
	46	1.44	<b>W2113</b>	3.38	4.4
	50	1.54	<b>W2200</b>	2.48	4.4
	55	1.65	<b>W2203</b>	2.70	4.6
<b>W4000</b> (4000 Ft.lbs)	55	1.73	<b>W4203</b>	2.89	8.4
	60	1.83	<b>W4206</b>	2.78	8.6
	65	1.93	<b>W4209</b>	3.00	8.6
	70	2.07	<b>W4212</b>	3.08	8.8
	75	2.19	<b>W4215</b>	3.21	9.0
	80	2.30	<b>W4302</b>	3.29	9.3
<b>W8000</b> (8000 Ft.lbs)	70	2.20	<b>W8212</b>	3.34	17.2
	75	2.28	<b>W8215</b>	3.35	17.2
	80	2.38	<b>W8302</b>	3.52	17.4
	85	2.60	<b>W8085M</b>	3.63	17.9
	90	2.91	<b>W8090M</b>	4.05	19.2
<b>W15000</b> (15000 Ft.lbs)	95	2.91	<b>W8095M</b>	4.05	19.4
	80	2.54	<b>W15302</b>	3.66	30.2
	85	2.74	<b>W15085M</b>	3.80	28.7
	90	2.95	<b>W15090M</b>	4.01	31.8
	95	2.95	<b>W15095M</b>	4.01	32.0
	105	3.17	<b>W15105M</b>	4.06	32.4
	110	3.44	<b>W15110M</b>	4.52	33.1
115	3.44	<b>W15115M</b>	4.52	33.7	

### ▼ INCH SIZES

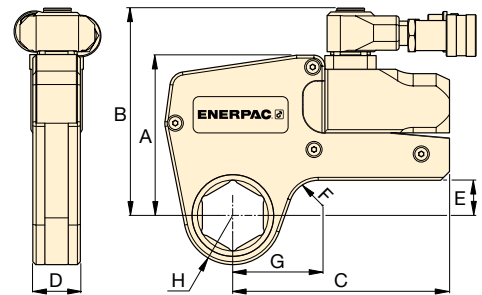
Hexagon Size (in)	Nose Radius H (in)	Inter-changeable Head Model No.	G (in)	Wt. (lbs)
1 <sup>7</sup> / <sub>16</sub>	1.22	<b>W2107</b>	2.11	4.2
1 <sup>5</sup> / <sub>8</sub>	1.32	<b>W2110</b>	2.29	4.4
1 <sup>13</sup> / <sub>16</sub>	1.44	<b>W2113</b>	3.38	4.4
2	1.54	<b>W2200</b>	2.48	4.4
2 <sup>3</sup> / <sub>16</sub>	1.65	<b>W2203</b>	2.70	4.6
2 <sup>3</sup> / <sub>16</sub>	1.73	<b>W4203</b>	2.89	8.4
2 <sup>3</sup> / <sub>8</sub>	1.83	<b>W4206</b>	2.78	8.6
2 <sup>9</sup> / <sub>16</sub>	1.93	<b>W4209</b>	3.00	8.6
2 <sup>3</sup> / <sub>4</sub>	2.07	<b>W4212</b>	3.08	8.8
2 <sup>15</sup> / <sub>16</sub>	2.19	<b>W4215</b>	3.21	9.0
3 <sup>1</sup> / <sub>8</sub>	2.30	<b>W4302</b>	3.29	9.3
2 <sup>3</sup> / <sub>4</sub>	2.20	<b>W8212</b>	3.34	17.2
2 <sup>15</sup> / <sub>16</sub>	2.28	<b>W8215</b>	3.35	17.2
3 <sup>1</sup> / <sub>8</sub>	2.38	<b>W8302</b>	3.52	17.4
3 <sup>1</sup> / <sub>2</sub>	2.60	<b>W8308I</b>	3.63	17.9
3 <sup>7</sup> / <sub>8</sub>	2.91	<b>W8314I</b>	4.05	19.2
-	-	-	-	-
3 <sup>1</sup> / <sub>8</sub>	2.54	<b>W15302</b>	3.66	30.2
3 <sup>1</sup> / <sub>2</sub>	2.74	<b>W15308I</b>	3.80	28.7
3 <sup>7</sup> / <sub>8</sub>	2.95	<b>W15314I</b>	4.01	31.8
-	-	-	-	-
4 <sup>1</sup> / <sub>4</sub>	3.17	<b>W15404I</b>	4.06	32.4
-	-	-	-	-
4 <sup>5</sup> / <sub>8</sub>	3.44	<b>W15410I</b>	4.52	33.7



## Optimum Torque Wrench and Pump Combinations

For optimum speed and performance Enerpac recommends the following pump and torque wrench combination:

Wrench Model	Electric Pump Series	Air Pump Series
<b>W2000</b>	PMU-10	-
<b>W4000</b>	PMU-10	-
<b>W8000</b>	PMU-30	ZU4T-Q
<b>W15000</b>	PMU-30	ZU4T-Q



### ▼ SELECTION CHART

Hex Cassette Range *		Maximum Torque at 10,000 psi (Ft.lbs)	Drive Unit Model No.	Minimum Torque (Ft.lbs)	LP-Series Dimensions (in)						Weight** drive unit without hexagon head (lbs)
(in)	(mm)				A	B	C	D	E	F	
1 <sup>7</sup> / <sub>16</sub> - 2 <sup>3</sup> / <sub>16</sub>	36 - 55	2000	<b>W2000</b>	200	4.29	5.55	5.83	1.26	.94	.79	3.1
2 <sup>3</sup> / <sub>16</sub> - 3 <sup>1</sup> / <sub>8</sub>	55 - 80	4000	<b>W4000</b>	400	5.35	6.57	7.01	1.61	1.29	.79	4.4
2 <sup>3</sup> / <sub>4</sub> - 3 <sup>7</sup> / <sub>8</sub>	70 - 95	8000	<b>W8000</b>	800	6.77	8.07	8.19	2.07	1.65	.98	6.6
3 <sup>1</sup> / <sub>8</sub> - 4 <sup>5</sup> / <sub>8</sub>	80 - 115	15,000	<b>W15000</b>	1500	8.15	9.45	9.96	2.48	1.97	.79	11.0

\* With in-line reaction foot. \*\* For total wrench weight, add value for Hex Head from above.