

# Low Profile Hexagon Torque Wrenches

▼ Shown: W4206X hexagon cassette with W4000X drive unit (rear model shows optional straight handle)



## 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
- Include robust handle which mounts on both sides and the tops of cassettes to allow for extra maneuverability

## Versatility

- Available with optional enhanced tilt and swivel TSP300 manifold for horizontal and vertical maneuverability, with greater durability <sup>1)</sup>
- X-Edition drive units, cassettes and most accessories are compatible with standard edition tools <sup>1)</sup>
- Drive unit compatible with UltraSlim and WCR-Series cassettes

## Accuracy

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

## Setting New Standards in Safety, Simplicity and Performance



### Two Handle Styles

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

Straight positioning handles designed for extreme limited access applications are available as accessories.

| Compatible with W-Series (X-Edition) Cassettes | Model Nr. Angled positioning handles (standard) | Model Nr. Straight positioning handles (optional) |
|------------------------------------------------|-------------------------------------------------|---------------------------------------------------|
| W2000X, W4000X                                 | <b>SWH6A</b>                                    | <b>SWH6S</b>                                      |
| W8000X, W15000X                                | <b>SWH10A</b>                                   | <b>SWH10S</b>                                     |
| W22000X, W35000X                               | <b>SWH10EA <sup>2)</sup></b>                    |                                                   |

<sup>2)</sup> SWH10EA is an eyebolt handle.



### TSP - Pro Series Swivel

The optional TSP300 tilt and swivel manifold with robust interlocking design provides 360° X-axis rotation and 160° Y-axis rotation.

### How to Order <sup>1)</sup>

Factory fitted to W-Series (X-Edition) drive units: Insert a "P" prior to the "X" in the tool model number, example: **W2000PX**.

Order as an accessory using the model number: **TSP300**, which can be fitted to existing W-Series (X-Edition) drive units. Includes male and female couplers.

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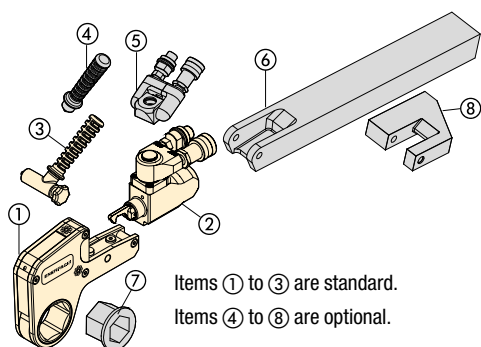
### ATEX declared. Calibration certificate included.

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



<sup>1)</sup> TSP300 is designed for X-Edition tools only, and is not compatible with standard edition tools. For replacement components for existing tools, refer to repair sheet on [www.enerpac.com](http://www.enerpac.com)

# Double-Acting Hydraulic Hexagon Torque Wrenches



- ① Hexagon Cassette (pages 14-21)
- ② Drive Unit (page 13)
- ③ Angled Positioning Handle (page 12)
- ④ Straight Positioning Handle (page 12)
- ⑤ Pro Series Swivel (page 25)
- ⑥ Extended Reaction Arm (page 25)
- ⑦ Reducer Insert (pages 14-21)
- ⑧ Reaction Paddle (page 25)

Items ① to ③ are standard.  
Items ④ to ⑧ are optional.

## W Series X-Edition



Maximum Torque at 690 bar:

**47.454 Nm**

Hexagon Range:

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

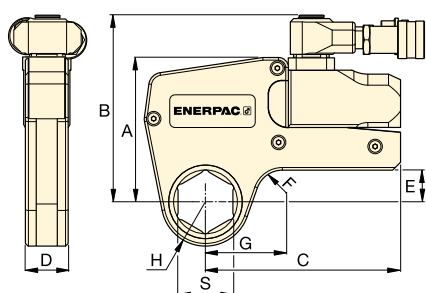
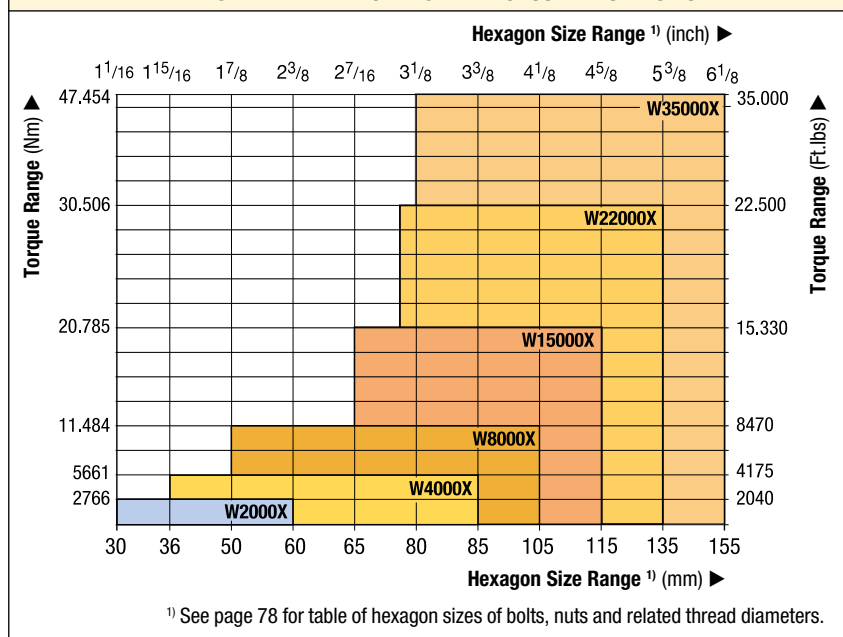
Nose Radius:

**31 - 115 mm**

Maximum Operating Pressure:

**690 bar**

### DRIVE UNIT AND INTERCHANGEABLE CASSETTE SELECTION



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



### Torque Wrench Pump Selection Matrix

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

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### ▼ SELECTION CHART

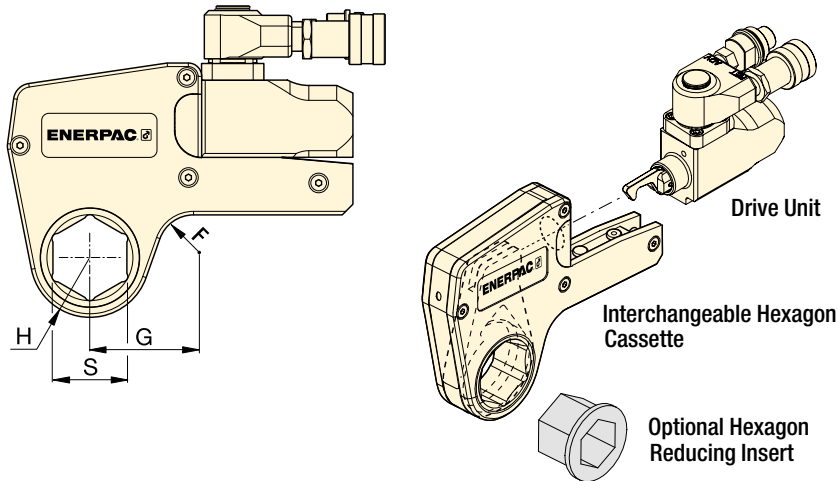
| Hexagon Range * |                 | Maximum Torque at 690 bar |          | Drive Unit Model Number ** | Minimum Torque |          | Dimensions (mm)<br>(see pages 14-21 for dimensions H, G and S) |     |     |    |       |    | Weight<br>(drive unit without hexagon cassette) |
|-----------------|-----------------|---------------------------|----------|----------------------------|----------------|----------|----------------------------------------------------------------|-----|-----|----|-------|----|-------------------------------------------------|
| (mm)            | (inch)          | (Nm)                      | (Ft.lbs) |                            | (Nm)           | (Ft.lbs) | A                                                              | B   | C   | D  | E     | F  |                                                 |
| 30 - 60         | 1 1/16 - 2 3/8  | 2766                      | 2040     | W2000X                     | 276            | 204      | 109                                                            | 141 | 148 | 32 | 24    | 20 | 1,4                                             |
| 36 - 85         | 1 5/16 - 3 3/8  | 5661                      | 4175     | W4000X                     | 566            | 417      | 136                                                            | 167 | 178 | 41 | 33    | 20 | 2,0                                             |
| 50 - 105        | 1 7/8 - 4 1/8   | 11.484                    | 8470     | W8000X                     | 1148           | 847      | 172                                                            | 205 | 208 | 53 | 42    | 25 | 3,0                                             |
| 65 - 115        | 2 7/16 - 4 5/8  | 20.785                    | 15.330   | W15000X                    | 2078           | 1533     | 207                                                            | 240 | 253 | 63 | 50    | 20 | 5,0                                             |
| 75 - 135        | 2 15/16 - 5 3/8 | 30.506                    | 22.500   | W22000X                    | 3050           | 2250     | 227                                                            | 266 | 297 | 77 | 48    | 35 | 7,7                                             |
| 80 - 155        | 3 1/8 - 6 1/8   | 47.454                    | 35.000   | W35000X                    | 4745           | 3500     | 268                                                            | 301 | 345 | 91 | 69-73 | 50 | 11,4                                            |

\* With in-line reaction foot.

\*\* To order a wrench fitted with the TSP swivel, suffix the model number with "P". Example: W2000PX.

See page 81 for torque conversions and tables of pressure versus torque.

# W2000X, Inch-Cassettes & Reducer Inserts



## W Series X-Edition



Maximum Torque at 690 bar:

**2766 Nm**

Hexagon Range:

**1 1/8 - 2 3/8 inch**

Maximum Operating Pressure:

**690 bar**



### Metric Sizes

For metric sizes of hexagon cassettes and reducer inserts see:

Page: **20**



### Hexagon Bolt and Nut Sizes

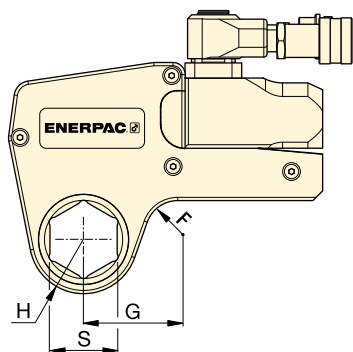
See the table for hexagon sizes of bolts, nuts and related thread diameters.

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### ▼ SELECTION CHART

| Drive Unit Model Number                                                            | Hexagon Size S | Nose Radius H | G    | Model Nr. Cassette |  |  |                      |  |                      |  |                      |
|------------------------------------------------------------------------------------|----------------|---------------|------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|----------------------|
|                                                                                    |                |               |      |                    |                                                                                     | Hexagon Reducer (inch)                                                              | Model Number Reducer | Hexagon Reducer (inch)                                                                | Model Number Reducer | Hexagon Reducer (inch)                                                                | Model Number Reducer |
|  | 1 1/16         | 31,0          | 53,7 | W2101X             | 2,1                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 1/8          | 31,0          | 53,7 | W2102X             | 2,1                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 3/16         | 31,0          | 53,7 | W2103X             | 2,1                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 1/4          | 31,0          | 53,7 | W2104X             | 2,1                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 5/16         | 31,0          | 53,7 | W2105X             | 2,1                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 3/8          | 31,0          | 53,7 | W2106X             | 2,1                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 7/16         | 31,0          | 53,7 | W2107X             | 2,1                                                                                 | 1 7/16 - 1 1/8                                                                      | W2107R102            | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 1/2          | 33,5          | 58,2 | W2108X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 9/16         | 33,5          | 58,2 | W2109X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 5/8          | 33,5          | 58,2 | W2110X             | 2,2                                                                                 | 1 5/8 - 1 1/4                                                                       | W2110R104            | 1 5/8 - 1 3/16                                                                        | W2110R103            | —                                                                                     | —                    |
|                                                                                    | 1 11/16        | 36,5          | 60,5 | W2111X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 3/4          | 36,5          | 60,5 | W2112X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 13/16        | 36,5          | 60,5 | W2113X             | 2,2                                                                                 | 1 13/16 - 1 7/16                                                                    | W2113R107            | 1 13/16 - 1 1/4                                                                       | W2113R104            | —                                                                                     | —                    |
|                                                                                    | 1 7/8          | 39,0          | 63,1 | W2114X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 1 15/16        | 39,0          | 63,1 | W2115X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 2              | 39,0          | 63,1 | W2200X             | 2,2                                                                                 | 2 - 1 5/8                                                                           | W2200R110            | 2 - 1 7/16                                                                            | W2200R107            | —                                                                                     | —                    |
|                                                                                    | 2 1/16         | 41,8          | 68,6 | W2201X             | 2,3                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 2 1/8          | 41,8          | 68,6 | W2202X             | 2,3                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 2 3/16         | 41,8          | 68,6 | W2203X             | 2,3                                                                                 | 2 3/16 - 1 13/16                                                                    | W2203R113            | 2 3/16 - 1 5/8                                                                        | W2203R110            | 2 3/16 - 1 7/16                                                                       | W2203R107            |
|                                                                                    | —              | —             | —    | —                  | —                                                                                   | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 2 1/4          | 44,5          | 64,8 | W2204X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 2 5/16         | 44,5          | 64,8 | W2205X             | 2,2                                                                                 | —                                                                                   | —                    | —                                                                                     | —                    | —                                                                                     | —                    |
|                                                                                    | 2 3/8          | 44,5          | 64,8 | W2206X             | 2,2                                                                                 | 2 3/8 - 2                                                                           | W2206R200            | 2 3/8 - 1 7/8                                                                         | W2206R114            | 2 3/8 - 1 13/16                                                                       | W2206R113            |
|                                                                                    | —              | —             | —    | —                  | —                                                                                   | 2 3/8 - 1 1/2                                                                       | W2206R108            | 2 3/8 - 1 7/16                                                                        | W2206R107            | 2 3/8 - 1 5/16                                                                        | W2206R110            |

# W4000X, Inch-Cassettes & Reducer Inserts



Maximum Torque at 690 bar:

**5661 Nm**

Hexagon Range:

**1 $\frac{5}{16}$  - 3 $\frac{3}{8}$  inch**

Maximum Operating Pressure:

**690 bar**

**W**

**Series  
X-Edition**



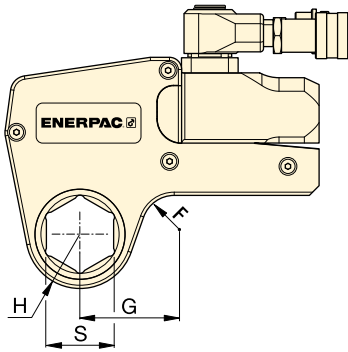
## ▼ SELECTION CHART

| Drive Unit<br>Model<br>Number | Hexagon<br>Size <sup>1)</sup><br>S<br>(inch) | Nose<br>Radius<br>H<br>(mm) | G<br>(mm) | Model Nr.<br>Cassette | Weight<br>(kg) | Hexagon Reducer                      |                            | Hexagon Reducer                      |                            | Hexagon Reducer                      |                            |
|-------------------------------|----------------------------------------------|-----------------------------|-----------|-----------------------|----------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|
|                               |                                              |                             |           |                       |                | Hexagon<br>Reducer<br>(inch)         | Model<br>Number<br>Reducer | Hexagon<br>Reducer<br>(inch)         | Model<br>Number<br>Reducer | Hexagon<br>Reducer<br>(inch)         | Model<br>Number<br>Reducer |
| <b>W4000X</b>                 | 1 $\frac{5}{16}$                             | 37,0                        | 61,0      | <b>W4105X</b>         | 3,7            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{3}{8}$                              | 37,0                        | 61,0      | <b>W4106X</b>         | 3,7            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{7}{16}$                             | 37,0                        | 61,0      | <b>W4107X</b>         | 3,7            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{1}{2}$                              | 37,0                        | 61,0      | <b>W4108X</b>         | 3,7            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{9}{16}$                             | 37,0                        | 61,0      | <b>W4109X</b>         | 3,7            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{5}{8}$                              | 37,0                        | 61,0      | <b>W4110X</b>         | 3,7            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{11}{16}$                            | 39,5                        | 64,0      | <b>W4111X</b>         | 3,8            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{3}{4}$                              | 39,5                        | 64,0      | <b>W4112X</b>         | 3,8            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{13}{16}$                            | 39,5                        | 64,0      | <b>W4113X</b>         | 3,8            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{7}{8}$                              | 41,5                        | 66,7      | <b>W4114X</b>         | 3,9            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 1 $\frac{15}{16}$                            | 41,5                        | 66,7      | <b>W4115X</b>         | 3,9            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2                                            | 41,5                        | 66,7      | <b>W4200X</b>         | 3,9            | 2 - 1 $\frac{7}{16}$                 | <b>W4200R107</b>           | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{1}{16}$                             | 44,0                        | 73,4      | <b>W4201X</b>         | 4              | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{1}{8}$                              | 44,0                        | 73,4      | <b>W4202X</b>         | 4              | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{3}{16}$                             | 44,0                        | 73,4      | <b>W4203X</b>         | 4              | 2 $\frac{3}{16}$ - 1 $\frac{5}{8}$   | <b>W4203R110</b>           | 2 $\frac{3}{16}$ - 1 $\frac{7}{16}$  | <b>W4203R107</b>           | 2 $\frac{3}{16}$ - 1 $\frac{1}{4}$   | <b>W4203R104</b>           |
|                               | 2 $\frac{1}{4}$                              | 46,5                        | 70,6      | <b>W4204X</b>         | 4,1            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{5}{16}$                             | 46,5                        | 70,6      | <b>W4205X</b>         | 4,1            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{3}{8}$                              | 46,5                        | 70,6      | <b>W4206X</b>         | 4,1            | 2 $\frac{3}{8}$ - 2                  | <b>W4206R200</b>           | 2 $\frac{3}{8}$ - 1 $\frac{13}{16}$  | <b>W4206R113</b>           | 2 $\frac{3}{8}$ - 1 $\frac{7}{16}$   | <b>W4206R107</b>           |
|                               | —                                            | —                           | —         | —                     | —              | 2 $\frac{3}{8}$ - 1 $\frac{3}{8}$    | <b>W4206R106</b>           | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{7}{16}$                             | 49,5                        | 76,2      | <b>W4207X</b>         | 4,1            | 2 $\frac{7}{16}$ - 2                 | <b>W4207R200</b>           | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{1}{2}$                              | 49,5                        | 76,2      | <b>W4208X</b>         | 4,1            | 2 $\frac{1}{2}$ - 2                  | <b>W4208R200</b>           | 2 $\frac{1}{2}$ - 1 $\frac{13}{16}$  | <b>W4208R113</b>           | 2 $\frac{1}{2}$ - 2 $\frac{1}{16}$   | <b>W4208R201</b>           |
|                               | 2 $\frac{9}{16}$                             | 49,5                        | 76,2      | <b>W4209X</b>         | 4,1            | 2 $\frac{9}{16}$ - 2 $\frac{3}{16}$  | <b>W4209R203</b>           | 2 $\frac{9}{16}$ - 2 $\frac{1}{8}$   | <b>W4209R202</b>           | 2 $\frac{9}{16}$ - 2 $\frac{1}{16}$  | <b>W4209R201</b>           |
|                               | —                                            | —                           | —         | —                     | —              | 2 $\frac{9}{16}$ - 2                 | <b>W4209R200</b>           | 2 $\frac{9}{16}$ - 1 $\frac{13}{16}$ | <b>W4209R113</b>           | —                                    | —                          |
|                               | 2 $\frac{5}{8}$                              | 52,5                        | 78,3      | <b>W4210X</b>         | 4,2            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{11}{16}$                            | 52,5                        | 78,3      | <b>W4211X</b>         | 4,2            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{3}{4}$                              | 52,5                        | 78,3      | <b>W4212X</b>         | 4,2            | 2 $\frac{3}{4}$ - 2 $\frac{3}{8}$    | <b>W4212R206</b>           | 2 $\frac{3}{4}$ - 2 $\frac{3}{16}$   | <b>W4212R203</b>           | 2 $\frac{3}{4}$ - 2 $\frac{1}{8}$    | <b>W4212R202</b>           |
|                               | 2 $\frac{13}{16}$                            | 55,3                        | 81,6      | <b>W4213X</b>         | 4,3            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{7}{8}$                              | 55,3                        | 81,6      | <b>W4214X</b>         | 4,3            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 2 $\frac{15}{16}$                            | 55,3                        | 81,6      | <b>W4215X</b>         | 4,3            | 2 $\frac{15}{16}$ - 2 $\frac{9}{16}$ | <b>W4215R209</b>           | 2 $\frac{15}{16}$ - 2 $\frac{3}{8}$  | <b>W4215R206</b>           | 2 $\frac{15}{16}$ - 2 $\frac{3}{16}$ | <b>W4215R203</b>           |
|                               | —                                            | —                           | —         | —                     | —              | 2 $\frac{15}{16}$ - 2                | <b>W4215R200</b>           | —                                    | —                          | —                                    | —                          |
|                               | 3                                            | 58,5                        | 83,5      | <b>W4300X</b>         | 4,4            | 3 - 2 $\frac{3}{16}$                 | <b>W4300R203</b>           | —                                    | —                          | —                                    | —                          |
|                               | 3 $\frac{1}{16}$                             | 58,5                        | 83,5      | <b>W4301X</b>         | 4,4            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 3 $\frac{1}{8}$                              | 58,5                        | 83,5      | <b>W4302X</b>         | 4,4            | 3 $\frac{1}{8}$ - 2 $\frac{3}{4}$    | <b>W4302R212</b>           | 3 $\frac{1}{8}$ - 2 $\frac{9}{16}$   | <b>W4302R209</b>           | 3 $\frac{1}{8}$ - 2 $\frac{3}{8}$    | <b>W4302R206</b>           |
|                               | —                                            | —                           | —         | —                     | —              | 3 $\frac{1}{8}$ - 2 $\frac{5}{16}$   | <b>W4302R205</b>           | 3 $\frac{1}{8}$ - 2 $\frac{1}{4}$    | <b>W4302R204</b>           | 3 $\frac{1}{8}$ - 2 $\frac{3}{16}$   | <b>W4302R203</b>           |
|                               | —                                            | —                           | —         | —                     | —              | 3 $\frac{1}{8}$ - 2 $\frac{3}{16}$   | <b>W4302R203</b>           | 3 $\frac{1}{8}$ - 2 $\frac{1}{8}$    | <b>W4302R202</b>           | 3 $\frac{1}{8}$ - 2                  | <b>W4302R200</b>           |
|                               | 3 $\frac{3}{16}$                             | 62,0                        | 85,5      | <b>W4303X</b>         | 4,5            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 3 $\frac{1}{4}$                              | 62,0                        | 85,5      | <b>W4304X</b>         | 4,5            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 3 $\frac{5}{16}$                             | 62,0                        | 85,5      | <b>W4305X</b>         | 4,5            | —                                    | —                          | —                                    | —                          | —                                    | —                          |
|                               | 3 $\frac{3}{8}$                              | 62,0                        | 85,5      | <b>W4306X</b>         | 4,5            | —                                    | —                          | —                                    | —                          | —                                    | —                          |

<sup>1)</sup> See page 78 for table of hexagon sizes of bolts, nuts and related thread diameters.

# W8000X, Inch-Cassettes & Reducer Inserts

**ENERPAC**   
POWERFUL SOLUTIONS. GLOBAL FORCE.



Maximum Torque at 690 bar:

**11.484 Nm**

Hexagon Range:

**1 7/8 - 4 1/8 inch**

Maximum Operating Pressure:

**690 bar**

**W**  
Series  
X-Edition



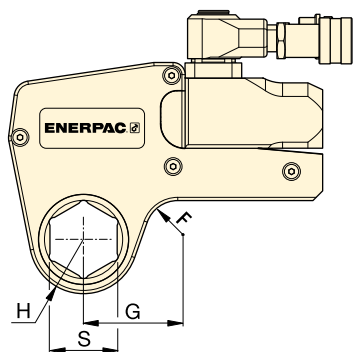
## ▼ SELECTION CHART

| Drive Unit Model Number | Hexagon Size <sup>1)</sup> S | Nose Radius H | G     | Model Number Cassette |  |  |                      |  |                      |  |                      |
|-------------------------|------------------------------|---------------|-------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|
|                         |                              |               |       |                       |                                                                                   | Hexagon Reducer (inch)                                                            | Model Number Reducer | Hexagon Reducer (inch)                                                              | Model Number Reducer | Hexagon Reducer (inch)                                                              | Model Number Reducer |
| <b>W8000X</b>           | 1 7/8                        | 45,0          | 78,2  | <b>W8114X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 1 15/16                      | 45,0          | 78,2  | <b>W8115X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2                            | 45,0          | 78,2  | <b>W8200X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 1/16                       | 48,0          | 80,0  | <b>W8201X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 1/8                        | 48,0          | 80,0  | <b>W8202X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 3/16                       | 48,0          | 80,0  | <b>W8203X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 1/4                        | 51,0          | 82,5  | <b>W8204X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 5/16                       | 51,0          | 82,5  | <b>W8205X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 3/8                        | 51,0          | 82,5  | <b>W8206X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 7/16                       | 52,5          | 85,9  | <b>W8207X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 1/2                        | 52,5          | 85,9  | <b>W8208X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 9/16                       | 52,5          | 85,9  | <b>W8209X</b>         | 8,1                                                                               | 2 9/16 - 2                                                                        | <b>W8209R200</b>     | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 5/8                        | 56,0          | 84,8  | <b>W8210X</b>         | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 11/16                      | 56,0          | 84,8  | <b>W8211X</b>         | 7,9                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 3/4                        | 56,0          | 84,8  | <b>W8212X</b>         | 7,9                                                                               | 2 3/4 - 2 3/16                                                                    | <b>W8212R203</b>     | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 13/16                      | 58,0          | 85,0  | <b>W8213X</b>         | 7,9                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 7/8                        | 58,0          | 85,0  | <b>W8214X</b>         | 7,9                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 2 15/16                      | 58,0          | 85,0  | <b>W8215X</b>         | 7,9                                                                               | 2 15/16 - 2 3/8                                                                   | <b>W8215R206</b>     | 2 15/16 - 2 3/8                                                                     | <b>W8215R203</b>     | —                                                                                   | —                    |
|                         | 3                            | 60,5          | 89,5  | <b>W8300X</b>         | 8,0                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 1/16                       | 60,5          | 89,5  | <b>W8301X</b>         | 8,0                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 1/8                        | 60,5          | 89,5  | <b>W8302X</b>         | 8,0                                                                               | 3 1/8 - 2 9/16                                                                    | <b>W8302R209</b>     | 3 1/8 - 2 3/8                                                                       | <b>W8302R206</b>     | 3 1/8 - 2 3/16                                                                      | <b>W8302R203</b>     |
|                         | —                            | —             | —     | —                     | —                                                                                 | 3 1/8 - 2                                                                         | <b>W8302R200</b>     | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 3/16                       | 66,0          | 92,2  | <b>W8303X</b>         | 8,2                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 1/4                        | 66,0          | 92,2  | <b>W8304X</b>         | 8,2                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 5/16                       | 66,0          | 92,2  | <b>W8305X</b>         | 8,2                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 3/8                        | 66,0          | 92,2  | <b>W8306X</b>         | 8,2                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 7/16                       | 66,0          | 92,2  | <b>W8307IX</b>        | 8,2                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 1/2                        | 66,0          | 92,2  | <b>W8308X</b>         | 8,2                                                                               | 3 1/2 - 3                                                                         | <b>W8308R300</b>     | 3 1/2 - 2 15/16                                                                     | <b>W8308R215</b>     | 3 1/2 - 2 3/4                                                                       | <b>W8308R212</b>     |
|                         | 3 9/16                       | 74,0          | 102,9 | <b>W8309X</b>         | 8,8                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 5/8                        | 74,0          | 102,9 | <b>W8310X</b>         | 8,8                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 11/16                      | 74,0          | 102,9 | <b>W8311X</b>         | 8,8                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 3/4                        | 74,0          | 102,9 | <b>W8312X</b>         | 8,8                                                                               | 3 3/4 - 3 1/8                                                                     | <b>W8312R302</b>     | 3 3/4 - 2 15/16                                                                     | <b>W8312R215</b>     | 3 3/4 - 2 3/4                                                                       | <b>W8312R212</b>     |
|                         | 3 13/16                      | 74,0          | 102,9 | <b>W8313X</b>         | 8,8                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 7/8                        | 74,0          | 102,9 | <b>W8314X</b>         | 8,8                                                                               | 3 7/8 - 3 1/8                                                                     | <b>W8314R302</b>     | 3 7/8 - 2 15/16                                                                     | <b>W8314R215</b>     | —                                                                                   | —                    |
|                         | 3 15/16                      | 79,5          | 110,0 | <b>W8315X</b>         | 9,3                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4                            | 79,5          | 110,0 | <b>W8400X</b>         | 9,3                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 1/16                       | 79,5          | 110,0 | <b>W8401IX</b>        | 9,3                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 1/8                        | 79,5          | 110,0 | <b>W8402X</b>         | 9,3                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |

<sup>1)</sup> See page 78 for table of hexagon sizes of bolts, nuts and related thread diameters.



# W15000X, Inch-Cassettes & Reducer Inserts



Maximum Torque at 690 bar:

**20.785 Nm**

Hexagon Range:

**2 $\frac{1}{8}$  - 4 $\frac{5}{8}$  inch**

Maximum Operating Pressure:

**690 bar**

**W**  
Series  
X-Edition

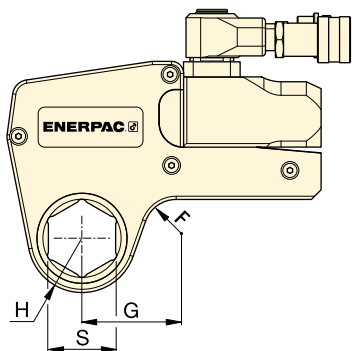


## ▼ SELECTION CHART

| Drive Unit<br>Model<br>Number | Hexagon<br>Size <sup>1)</sup><br>S | Nose<br>Radius<br>H | G     | Model Nr.<br>Cassette |  |  |                            |  |                            |  |                            |
|-------------------------------|------------------------------------|---------------------|-------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------------|
|                               |                                    |                     |       |                       |                                                                                   | Hexagon<br>Reducer<br>(inch)                                                      | Model<br>Number<br>Reducer | Hexagon<br>Reducer<br>(inch)                                                        | Model<br>Number<br>Reducer | Hexagon<br>Reducer<br>(inch)                                                        | Model<br>Number<br>Reducer |
| <b>W15000X</b>                | 2 $\frac{7}{16}$                   | 59,0                | 88,6  | W15207X               | 13,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{1}{2}$                    | 59,0                | 88,6  | W15208X               | 13,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{9}{16}$                   | 59,0                | 88,6  | W15209X               | 13,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{5}{8}$                    | 59,0                | 88,6  | W15210X               | 13,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{11}{16}$                  | 59,0                | 88,6  | W15211X               | 13,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{3}{4}$                    | 59,0                | 88,6  | W15212X               | 13,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{13}{16}$                  | 62,0                | 90,5  | W15213X               | 13,7                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{7}{8}$                    | 62,0                | 90,5  | W15214X               | 13,7                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 2 $\frac{15}{16}$                  | 62,0                | 90,5  | W15215X               | 13,7                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3                                  | 64,5                | 92,9  | W15300X               | 13,8                                                                              | 3 - 2 $\frac{1}{8}$                                                               | W15300R202                 | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{1}{16}$                   | 64,5                | 92,9  | W15301X               | 13,8                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{1}{8}$                    | 64,5                | 92,9  | W15302X               | 13,8                                                                              | 3 $\frac{1}{8}$ - 2 $\frac{9}{16}$                                                | W15302R209                 | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{3}{16}$                   | 69,5                | 96,6  | W15303X               | 14,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{1}{4}$                    | 69,5                | 96,6  | W15304X               | 14,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{5}{16}$                   | 69,5                | 96,6  | W15305X               | 14,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{3}{8}$                    | 69,5                | 96,6  | W15306X               | 14,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{7}{16}$                   | 69,5                | 96,6  | W15307IX              | 14,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{1}{2}$                    | 69,5                | 96,6  | W15308X               | 14,1                                                                              | 3 $\frac{1}{2}$ - 2 $\frac{15}{16}$                                               | W15308R215                 | 3 $\frac{1}{2}$ - 2 $\frac{3}{4}$                                                   | W15308R212                 | —                                                                                   | —                          |
|                               | 3 $\frac{9}{16}$                   | 75,0                | 101,8 | W15309X               | 14,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{5}{8}$                    | 75,0                | 101,8 | W15310X               | 14,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{11}{16}$                  | 75,0                | 101,8 | W15311X               | 14,6                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{3}{4}$                    | 75,0                | 101,8 | W15312X               | 14,6                                                                              | 3 $\frac{3}{4}$ - 3 $\frac{1}{8}$                                                 | W15312R302                 | 3 $\frac{3}{4}$ - 2 $\frac{15}{16}$                                                 | W15312R215                 | —                                                                                   | —                          |
|                               | 3 $\frac{13}{16}$                  | 75,0                | 101,8 | W15313X               | 14,5                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 3 $\frac{7}{8}$                    | 75,0                | 101,8 | W15314X               | 14,5                                                                              | 3 $\frac{7}{8}$ - 3 $\frac{1}{8}$                                                 | W15314R302                 | 3 $\frac{7}{8}$ - 2 $\frac{15}{16}$                                                 | W15314R215                 | —                                                                                   | —                          |
|                               | 3 $\frac{15}{16}$                  | 80,5                | 103,1 | W15315X               | 14,8                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4                                  | 80,5                | 103,1 | W15400X               | 14,8                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{1}{16}$                   | 80,5                | 103,1 | W15401IX              | 14,8                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{1}{8}$                    | 80,5                | 103,1 | W15402X               | 14,8                                                                              | 4 $\frac{1}{8}$ - 3 $\frac{1}{2}$                                                 | W15402R308                 | 4 $\frac{1}{8}$ - 3 $\frac{5}{16}$                                                  | W15402R305                 | 4 $\frac{1}{8}$ - 3 $\frac{1}{4}$                                                   | W15402R304                 |
|                               | 4 $\frac{3}{16}$                   | 80,5                | 103,1 | W15403IX              | 14,8                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{1}{4}$                    | 80,5                | 103,1 | W15404X               | 14,8                                                                              | 4 $\frac{1}{4}$ - 3 $\frac{1}{2}$                                                 | W15404R308                 | 4 $\frac{1}{4}$ - 3 $\frac{1}{8}$                                                   | W15404R302                 | —                                                                                   | —                          |
|                               | 4 $\frac{5}{16}$                   | 87,5                | 114,8 | W15405X               | 15,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{3}{8}$                    | 87,5                | 114,8 | W15406X               | 15,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{7}{16}$                   | 87,5                | 114,8 | W15407X               | 15,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{1}{2}$                    | 87,5                | 114,8 | W15408IX              | 15,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{9}{16}$                   | 87,5                | 114,8 | W15409IX              | 15,1                                                                              | —                                                                                 | —                          | —                                                                                   | —                          | —                                                                                   | —                          |
|                               | 4 $\frac{5}{8}$                    | 87,5                | 114,8 | W15410IX              | 15,1                                                                              | 4 $\frac{5}{8}$ - 3 $\frac{15}{16}$                                               | W15410R315                 | 4 $\frac{5}{8}$ - 3 $\frac{7}{8}$                                                   | W15410R314                 | 4 $\frac{5}{8}$ - 3 $\frac{3}{4}$                                                   | W15410R312                 |
|                               | —                                  | —                   | —     | —                     | —                                                                                 | 4 $\frac{5}{8}$ - 3 $\frac{1}{2}$                                                 | W15410R308                 | —                                                                                   | —                          | —                                                                                   | —                          |

<sup>1)</sup> See page 78 for table of hexagon sizes of bolts, nuts and related thread diameters.

# W22000X, Inch-Cassettes & Reducers



Maximum Torque at 690 bar:

**30.506 Nm**

Hexagon Range:

**2<sup>15</sup>/<sub>16</sub> - 5<sup>3</sup>/<sub>8</sub> inch**

Maximum Operating Pressure:

**690 bar**

**W**  
**Series**  
**X-Edition**

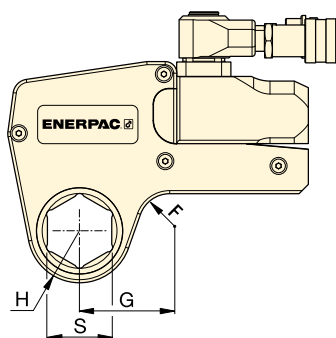


## ▼ SELECTION CHART

| Drive Unit Model Number | Hexagon Size <sup>1)</sup> S    | Nose Radius H | G     | Model Nr. Cassette |  |  |                      |  |                      |  |                      |
|-------------------------|---------------------------------|---------------|-------|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|
|                         |                                 |               |       |                    |                                                                                   | Hexagon Reducer (inch)                                                            | Model Number Reducer | Hexagon Reducer (inch)                                                              | Model Number Reducer | Hexagon Reducer (inch)                                                              | Model Number Reducer |
| <b>W22000X</b>          | 2 <sup>15</sup> / <sub>16</sub> | 67,0          | 102,1 | <b>W22215X</b>     | 22,1                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | <b>3</b>                        | 67,0          | 102,1 | <b>W22300X</b>     | 22,0                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>1</sup> / <sub>16</sub>  | 67,0          | 102,1 | <b>W22301X</b>     | 21,9                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>1</sup> / <sub>8</sub>   | 67,0          | 102,1 | <b>W22302X</b>     | 21,6                                                                              | 3 <sup>1</sup> / <sub>8</sub> - 2 <sup>3</sup> / <sub>8</sub>                     | <b>W22302R206</b>    | 3 <sup>1</sup> / <sub>8</sub> - 2 <sup>3</sup> / <sub>16</sub>                      | <b>W22302R203</b>    | —                                                                                   | —                    |
|                         | 3 <sup>3</sup> / <sub>16</sub>  | 72,4          | 107,4 | <b>W22303X</b>     | 22,9                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>1</sup> / <sub>4</sub>   | 72,4          | 107,4 | <b>W22304X</b>     | 22,8                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>5</sup> / <sub>16</sub>  | 72,4          | 107,4 | <b>W22305X</b>     | 22,6                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>3</sup> / <sub>8</sub>   | 72,4          | 107,4 | <b>W22306X</b>     | 22,5                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>7</sup> / <sub>16</sub>  | 72,4          | 107,4 | <b>W22307X</b>     | 22,8                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>1</sup> / <sub>2</sub>   | 72,4          | 107,4 | <b>W22308X</b>     | 22,2                                                                              | 3 <sup>1</sup> / <sub>2</sub> - 2 <sup>3</sup> / <sub>4</sub>                     | <b>W22308R212</b>    | 3 <sup>1</sup> / <sub>2</sub> - 2 <sup>9</sup> / <sub>16</sub>                      | <b>W22308R209</b>    | 3 <sup>1</sup> / <sub>2</sub> - 2 <sup>3</sup> / <sub>8</sub>                       | <b>W22308R206</b>    |
|                         | 3 <sup>9</sup> / <sub>16</sub>  | 77,9          | 113,0 | <b>W22309X</b>     | 23,4                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>5</sup> / <sub>8</sub>   | 77,9          | 113,0 | <b>W22310X</b>     | 23,3                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>11</sup> / <sub>16</sub> | 77,9          | 113,0 | <b>W22311X</b>     | 23,1                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>3</sup> / <sub>4</sub>   | 77,9          | 113,0 | <b>W22312X</b>     | 22,9                                                                              | 3 <sup>3</sup> / <sub>4</sub> - 2 <sup>15</sup> / <sub>16</sub>                   | <b>W22312R215</b>    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>13</sup> / <sub>16</sub> | 77,9          | 113,0 | <b>W22313X</b>     | 22,8                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 3 <sup>7</sup> / <sub>8</sub>   | 77,9          | 113,0 | <b>W22314X</b>     | 22,6                                                                              | 3 <sup>7</sup> / <sub>8</sub> - 3 <sup>1</sup> / <sub>8</sub>                     | <b>W22314R302</b>    | 3 <sup>7</sup> / <sub>8</sub> - 2 <sup>15</sup> / <sub>16</sub>                     | <b>W22314R215</b>    | 3 <sup>7</sup> / <sub>8</sub> - 2 <sup>3</sup> / <sub>4</sub>                       | <b>W22314R212</b>    |
|                         | 3 <sup>15</sup> / <sub>16</sub> | 85,1          | 119,9 | <b>W22315X</b>     | 24,3                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | <b>4</b>                        | 85,1          | 119,9 | <b>W22400X</b>     | 24,1                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>1</sup> / <sub>16</sub>  | 85,1          | 119,9 | <b>W22401X</b>     | 24,0                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>1</sup> / <sub>8</sub>   | 85,1          | 119,9 | <b>W22402X</b>     | 23,6                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>3</sup> / <sub>16</sub>  | 85,1          | 119,9 | <b>W22403X</b>     | 23,6                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>1</sup> / <sub>4</sub>   | 85,1          | 119,9 | <b>W22404X</b>     | 24,6                                                                              | 4 <sup>1</sup> / <sub>4</sub> - 3 <sup>1</sup> / <sub>2</sub>                     | <b>W22404R308</b>    | 4 <sup>1</sup> / <sub>4</sub> - 3 <sup>1</sup> / <sub>8</sub>                       | <b>W22404R302</b>    | 4 <sup>1</sup> / <sub>4</sub> - 2 <sup>15</sup> / <sub>16</sub>                     | <b>W22404R215</b>    |
|                         | 4 <sup>5</sup> / <sub>16</sub>  | 89,9          | 125,0 | <b>W22405X</b>     | 24,6                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>3</sup> / <sub>8</sub>   | 89,9          | 125,0 | <b>W22406X</b>     | 24,5                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>7</sup> / <sub>16</sub>  | 89,9          | 125,0 | <b>W22407X</b>     | 24,3                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>1</sup> / <sub>2</sub>   | 89,9          | 125,0 | <b>W22408X</b>     | 24,1                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>9</sup> / <sub>16</sub>  | 89,9          | 125,0 | <b>W22409X</b>     | 23,9                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>5</sup> / <sub>8</sub>   | 89,9          | 125,0 | <b>W22410X</b>     | 23,6                                                                              | 4 <sup>5</sup> / <sub>8</sub> - 3 <sup>7</sup> / <sub>8</sub>                     | <b>W22410R314</b>    | 4 <sup>5</sup> / <sub>8</sub> - 3 <sup>3</sup> / <sub>4</sub>                       | <b>W22410R312</b>    | 4 <sup>5</sup> / <sub>8</sub> - 3 <sup>1</sup> / <sub>2</sub>                       | <b>W22410R308</b>    |
|                         | 4 <sup>3</sup> / <sub>4</sub>   | 95,0          | 130,0 | <b>W22412X</b>     | 24,7                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 4 <sup>7</sup> / <sub>8</sub>   | 95,0          | 130,0 | <b>W22414X</b>     | 24,3                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | <b>5</b>                        | 95,0          | 130,0 | <b>W22500X</b>     | 23,8                                                                              | 5 - 4 <sup>1</sup> / <sub>4</sub>                                                 | <b>W22500R404</b>    | 5 - 4 <sup>1</sup> / <sub>8</sub>                                                   | <b>W22500R402</b>    | 5 - 3 <sup>7</sup> / <sub>8</sub>                                                   | <b>W22500R314</b>    |
|                         | 5 <sup>1</sup> / <sub>8</sub>   | 100,0         | 134,8 | <b>W22502X</b>     | 25,0                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 5 <sup>3</sup> / <sub>16</sub>  | 100,0         | 134,8 | <b>W22503X</b>     | 24,8                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 5 <sup>1</sup> / <sub>4</sub>   | 100,0         | 134,8 | <b>W22504X</b>     | 24,5                                                                              | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                         | 5 <sup>3</sup> / <sub>8</sub>   | 100,0         | 134,8 | <b>W22506X</b>     | 23,9                                                                              | 5 <sup>3</sup> / <sub>8</sub> - 4 <sup>3</sup> / <sub>8</sub>                     | <b>W22506R410</b>    | 5 <sup>3</sup> / <sub>8</sub> - 4 <sup>1</sup> / <sub>4</sub>                       | <b>W22506R404</b>    | 5 <sup>3</sup> / <sub>8</sub> - 4 <sup>1</sup> / <sub>8</sub>                       | <b>W22506R402</b>    |
|                         | —                               | —             | —     | <b>W22506X</b>     | 23,9                                                                              | 5 <sup>3</sup> / <sub>8</sub> - 3 <sup>7</sup> / <sub>8</sub>                     | <b>W22506R314</b>    | —                                                                                   | —                    | —                                                                                   | —                    |

<sup>1)</sup> See page 78 for table of hexagon sizes of bolts, nuts and related thread diameters.

# W35000X, Inch-Cassettes & Reducer Inserts



## ▼ SELECTION CHART

| Drive Unit Model Number | Hexagon Size S | Nose Radius H | G     | Model Nr. Cassette |      |                        |                      |
|-------------------------|----------------|---------------|-------|--------------------|------|------------------------|----------------------|
|                         | (inch)         | (mm)          | (mm)  |                    | (kg) | Hexagon Reducer (inch) | Model Number Reducer |
| <b>W35000X</b>          | 3 1/8          | 76,0          | 126,8 | <b>W35302X</b>     | 32,8 | 3 1/8 - 2              | <b>W35302R200</b>    |
|                         | 3 3/16         | 76,0          | 126,8 | <b>W35303X</b>     | 32,7 | —                      | —                    |
|                         | 3 1/4          | 76,0          | 126,8 | <b>W35304X</b>     | 32,5 | —                      | —                    |
|                         | 3 5/16         | 76,0          | 126,8 | <b>W35305X</b>     | 32,4 | —                      | —                    |
|                         | 3 3/8          | 76,0          | 126,8 | <b>W35306X</b>     | 32,2 | —                      | —                    |
|                         | 3 7/16         | 76,0          | 126,8 | <b>W35307X</b>     | 32,0 | —                      | —                    |
|                         | 3 1/2          | 76,0          | 126,8 | <b>W35308X</b>     | 31,8 | 3 1/2 - 2 5/16         | <b>W35308R205</b>    |
|                         | 3 9/16         | 81,5          | 132,5 | <b>W35309X</b>     | 32,4 | —                      | —                    |
|                         | 3 5/8          | 81,5          | 132,5 | <b>W35310X</b>     | 33,3 | —                      | —                    |
|                         | 3 11/16        | 81,5          | 132,5 | <b>W35311X</b>     | 33,1 | —                      | —                    |
|                         | 3 3/4          | 81,5          | 132,5 | <b>W35312X</b>     | 32,9 | —                      | —                    |
|                         | 3 13/16        | 81,5          | 132,5 | <b>W35313X</b>     | 32,7 | —                      | —                    |
|                         | 3 7/8          | 81,5          | 132,5 | <b>W35314X</b>     | 32,4 | 3 7/8 - 2 11/16        | <b>W35314R211</b>    |
|                         | 3 15/16        | 87,0          | 137,0 | <b>W35315X</b>     | 34,1 | 3 15/16 - 2 13/16      | <b>W35315R213</b>    |
|                         | 4              | 87,0          | 137,0 | <b>W35400X</b>     | 33,9 | —                      | —                    |
|                         | 4 1/16         | 87,0          | 137,0 | <b>W35401X</b>     | 33,7 | —                      | —                    |
|                         | 4 1/8          | 87,0          | 137,0 | <b>W35402X</b>     | 33,5 | —                      | —                    |
|                         | 4 3/16         | 87,0          | 137,0 | <b>W35403X</b>     | 33,3 | —                      | —                    |
|                         | 4 1/4          | 87,0          | 137,0 | <b>W35404X</b>     | 33,0 | 4 1/4 - 3 1/16         | <b>W35404R301</b>    |
|                         | 4 5/16         | 93,0          | 143,0 | <b>W35405X</b>     | 34,9 | —                      | —                    |
|                         | 4 3/8          | 93,0          | 143,0 | <b>W35406X</b>     | 34,7 | —                      | —                    |
|                         | 4 7/16         | 93,0          | 143,0 | <b>W35407X</b>     | 34,5 | —                      | —                    |
|                         | 4 1/2          | 93,0          | 143,0 | <b>W35408X</b>     | 34,3 | —                      | —                    |
|                         | 4 9/16         | 93,0          | 143,0 | <b>W35409X</b>     | 34,1 | —                      | —                    |
|                         | 4 5/8          | 93,0          | 143,0 | <b>W35410X</b>     | 33,7 | 4 5/8 - 3 5/8          | <b>W35410R310</b>    |
|                         | 4 3/4          | 98,5          | 148,5 | <b>W35412X</b>     | 35,6 | 4 3/4 - 3 3/4          | <b>W35412R312</b>    |
|                         | 4 7/8          | 98,5          | 148,5 | <b>W35414X</b>     | 34,9 | —                      | —                    |
|                         | 5              | 98,5          | 148,5 | <b>W35500X</b>     | 34,3 | 5 - 4                  | <b>W35500R400</b>    |
|                         | 5 1/8          | 103,0         | 153,0 | <b>W35502X</b>     | 35,8 | 5 1/8 - 4 1/8          | <b>W35502R402</b>    |
|                         | 5 3/16         | 103,0         | 153,0 | <b>W35503X</b>     | 35,6 | —                      | —                    |
|                         | 5 1/4          | 103,0         | 153,0 | <b>W35504X</b>     | 35,2 | —                      | —                    |
|                         | 5 3/8          | 103,0         | 153,0 | <b>W35506X</b>     | 34,6 | 5 3/8 - 4 5/16         | <b>W35506R405</b>    |
|                         | 5 1/2          | 108,5         | 158,5 | <b>W35508X</b>     | 36,2 | —                      | —                    |
|                         | 5 9/16         | 108,5         | 158,5 | <b>W35509X</b>     | 36,0 | —                      | —                    |
|                         | 5 5/8          | 108,5         | 158,5 | <b>W35510X</b>     | 35,6 | —                      | —                    |
|                         | 5 3/4          | 108,5         | 164,0 | <b>W35512X</b>     | 34,9 | 5 3/4 - 4 3/4          | <b>W35512R412</b>    |
|                         | 5 7/8          | 114,0         | 164,0 | <b>W35514X</b>     | 36,7 | 5 7/8 - 4 7/8          | <b>W35514R414</b>    |
|                         | 6              | 114,0         | 164,0 | <b>W35600X</b>     | 36,1 | —                      | —                    |
|                         | 6 1/8          | 114,0         | 164,0 | <b>W35602X</b>     | 35,3 | 6 1/8 - 5 1/8          | <b>W35602R502</b>    |

## W Series X-Edition



Maximum Torque at 690 bar:

**47.454 Nm**

Hexagon Range:

**3 1/8 - 6 1/8 inch**

Maximum Operating Pressure:

**690 bar**



### Hexagon Bolt and Nut Sizes

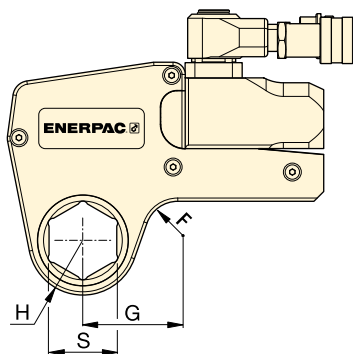
See the table for hexagon sizes of bolts, nuts and related thread diameters.

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# W-Series, Metric Cassettes and Reducers

**ENERPAC**   
POWERFUL SOLUTIONS. GLOBAL FORCE.



Hexagon Range:

**24 - 105 mm**

Maximum Operating Pressure:

**690 bar**

**W**  
Series  
X-Edition

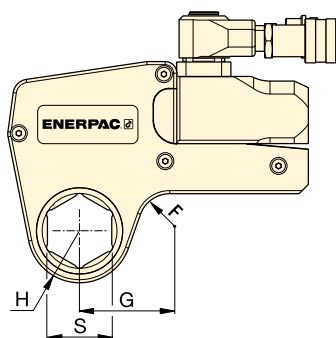


## ▼ SELECTION CHART

| Drive Unit Model Number      | Hexagon Size <sup>1)</sup> | Nose Radius | Dim. | Model Nr. Cassette |  |  |                      |  |                      |  |                      |
|------------------------------|----------------------------|-------------|------|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|
|                              |                            |             |      |                    |                                                                                   | Hexagon Reducer (mm)                                                              | Model Number Reducer | Hexagon Reducer (mm)                                                                | Model Number Reducer | Hexagon Reducer (mm)                                                                | Model Number Reducer |
| <b>W2000X</b><br>(2766 Nm)   | 26                         | 31          | 54   | W2102X             | 2,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 30                         | 31          | 54   | W2103X             | 2,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 32                         | 31          | 54   | W2104X             | 2,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 36                         | 31          | 54   | W2107X             | 2,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 38                         | 34          | 58   | W2108X             | 2,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 41                         | 34          | 58   | W2110X             | 2,1                                                                               | 41 - 32                                                                           | W2110R104            | 41 - 30                                                                             | W2110R103            | 41 - 24                                                                             | W2110R024M           |
|                              | 46                         | 34          | 61   | W2113X             | 2,2                                                                               | 46 - 36                                                                           | W2113R107            | 46 - 32                                                                             | W2113R104            | —                                                                                   | —                    |
|                              | 50                         | 39          | 63   | W2200X             | 2,2                                                                               | 50 - 41                                                                           | W2200R110            | 50 - 36                                                                             | W2200R107            | —                                                                                   | —                    |
|                              | 55                         | 42          | 69   | W2203X             | 2,2                                                                               | 55 - 46                                                                           | W2203R113            | 55 - 41                                                                             | W2203R110            | 55 - 36                                                                             | W2203R107            |
|                              | 60                         | 45          | 65   | W2206X             | 2,2                                                                               | 60 - 50                                                                           | W2206R200            | 60 - 46                                                                             | W2206R113            | 60 - 41                                                                             | W2206R110            |
| <b>W4000X</b><br>(5661 Nm)   | —                          | —           | —    | —                  | —                                                                                 | 60 - 36                                                                           | W2206R107            | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 33                         | 37          | 61   | W4105X             | 3,7                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 35                         | 37          | 61   | W4106X             | 3,7                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 36                         | 37          | 61   | W4107X             | 3,7                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 41                         | 37          | 61   | W4110X             | 3,7                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 46                         | 40          | 64   | W4113X             | 3,8                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 50                         | 42          | 67   | W4200X             | 3,9                                                                               | 50 - 36                                                                           | W4200R107            | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 55                         | 44          | 73   | W4203X             | 4,0                                                                               | 55 - 41                                                                           | W4203R110            | 55 - 36                                                                             | W4203R107            | 55 - 32                                                                             | W4203R104            |
|                              | 60                         | 47          | 71   | W4206X             | 4,1                                                                               | 60 - 50                                                                           | W4206R200            | 60 - 46                                                                             | W4206R113            | 60 - 36                                                                             | W4206R107            |
|                              | 65                         | 50          | 76   | W4209X             | 4,1                                                                               | 65 - 55                                                                           | W4209R203            | 65 - 50                                                                             | W4209R200            | 65 - 46                                                                             | W4209R113            |
|                              | 70                         | 53          | 78   | W4212X             | 4,2                                                                               | 70 - 60                                                                           | W4212R206            | 70 - 55                                                                             | W4212R203            | —                                                                                   | —                    |
|                              | 75                         | 55          | 82   | W4215X             | 4,3                                                                               | 75 - 65                                                                           | W4215R209            | 75 - 60                                                                             | W4215R206            | —                                                                                   | —                    |
|                              | —                          | —           | —    | —                  | —                                                                                 | 75 - 55                                                                           | W4215R203            | 75 - 50                                                                             | W4215R200            | —                                                                                   | —                    |
|                              | 80                         | 59          | 84   | W4302X             | 4,4                                                                               | 80 - 75                                                                           | W4302R215            | 80 - 70                                                                             | W4302R212            | 80 - 65                                                                             | W4302R209            |
| <b>W8000X</b><br>(11.484 Nm) | —                          | —           | —    | —                  | —                                                                                 | 80 - 55                                                                           | W4302R203            | 80 - 50                                                                             | W4302R200            | —                                                                                   | —                    |
|                              | 48                         | 45          | 78   | W8114X             | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 49                         | 45          | 78   | W8115X             | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 50                         | 45          | 78   | W8200X             | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 55                         | 48          | 80   | W8203X             | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 60                         | 51          | 83   | W8206X             | 8,1                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 65                         | 56          | 85   | W8209X             | 8,1                                                                               | 65 - 50                                                                           | W8209R200            | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 70                         | 56          | 85   | W8212X             | 7,9                                                                               | 70 - 55                                                                           | W8212R203            | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 75                         | 58          | 85   | W8215X             | 7,9                                                                               | 75 - 60                                                                           | W8215R206            | 75 - 55                                                                             | W8215R203            | —                                                                                   | —                    |
|                              | 80                         | 61          | 90   | W8302X             | 8,0                                                                               | 80 - 65                                                                           | W8302R209            | 80 - 60                                                                             | W8302R206            | 80 - 55                                                                             | W8302R203            |
|                              | —                          | —           | —    | —                  | —                                                                                 | 80 - 50                                                                           | W8302R200            | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 85                         | 66          | 92   | W8085MX            | 8,2                                                                               | 85 - 70                                                                           | W8085R070M           | 85 - 65                                                                             | W8085R065M           | 85 - 60                                                                             | W8085R060M           |
|                              | —                          | —           | —    | —                  | —                                                                                 | 85 - 55                                                                           | W8085R055M           | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 90                         | 74          | 103  | W8090MX            | 8,8                                                                               | 90 - 75                                                                           | W8090R075M           | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 95                         | 74          | 103  | W8312X             | 8,8                                                                               | 95 - 80                                                                           | W8312R302            | 95 - 75                                                                             | W8312R215            | —                                                                                   | —                    |
|                              | 100                        | 80          | 110  | W8315X             | 9,3                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |
|                              | 105                        | 80          | 110  | W8402X             | 9,3                                                                               | —                                                                                 | —                    | —                                                                                   | —                    | —                                                                                   | —                    |

<sup>1)</sup> See page 78 for table of hexagon sizes of bolts, nuts and related thread diameters.

# W-Series, Metric Cassettes and Reducers



Hexagon Range:

**50 - 155 mm**

Maximum Operating Pressure:

**690 bar**

**W**  
Series  
X-Edition

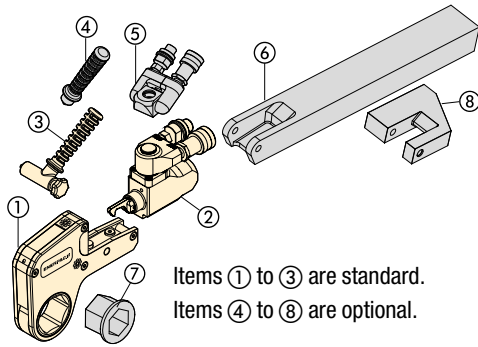


## ▼ SELECTION CHART

| Drive Unit<br>Model Number    | Hexagon Size <sup>1)</sup> | Nose Radius | Dim.   | Model Nr. Cassette |      |                      |                      |                      |                      |
|-------------------------------|----------------------------|-------------|--------|--------------------|------|----------------------|----------------------|----------------------|----------------------|
|                               |                            |             |        |                    |      | Hexagon Reducer (mm) | Model Number Reducer | Hexagon Reducer (mm) | Model Number Reducer |
| <b>W15000X</b><br>(20.785 Nm) | S (mm)                     | H (mm)      | G (mm) |                    | (kg) |                      |                      |                      |                      |
|                               | 62                         | 59          | 89     | W15207X            | 13,6 | –                    | –                    | –                    | –                    |
|                               | 63                         | 59          | 89     | W15208X            | 13,6 | –                    | –                    | –                    | –                    |
|                               | 65                         | 59          | 89     | W15209X            | 13,6 | –                    | –                    | –                    | –                    |
|                               | 70                         | 59          | 89     | W15212X            | 13,6 | –                    | –                    | –                    | –                    |
|                               | 75                         | 62          | 91     | W15215X            | 13,7 | –                    | –                    | –                    | –                    |
|                               | 80                         | 65          | 93     | W15302X            | 13,8 | 80 - 65              | W15302R209           | –                    | –                    |
|                               | 85                         | 70          | 97     | W15085MX           | 14,1 | 85 - 70              | W15085R070M          | –                    | –                    |
|                               | 90                         | 75          | 102    | W15090MX           | 14,5 | 90 - 75              | W15090R75M           | –                    | –                    |
|                               | 95                         | 75          | 102    | W15312X            | 14,6 | 95 - 80              | W15312R302           | 95 - 75              | W15312R215           |
|                               | 100                        | 81          | 103    | W15315X            | 14,8 | –                    | –                    | –                    | –                    |
|                               | 105                        | 81          | 103    | W15402X            | 14,8 | 105 - 90             | W15402R090M          | –                    | –                    |
|                               | 110                        | 88          | 115    | W15405X            | 15,1 | 110 - 95             | W15110R095M          | –                    | –                    |
|                               | 115                        | 88          | 115    | W15115MX           | 15,1 | 115 - 100            | W15115R100M          | –                    | –                    |
| <b>W22000X</b><br>(30.506 Nm) | 75                         | 67          | 102    | W22215X            | 22,0 | –                    | –                    | –                    | –                    |
|                               | 80                         | 67          | 102    | W22302X            | 21,6 | 80-60                | W22302R206           | 80 - 55              | W22302R203           |
|                               | 85                         | 73          | 107    | W22085MX           | 22,5 | 85-65                | W22085MR209          | 85 - 60              | W22085MR206          |
|                               | 90                         | 78          | 113    | W22090MX           | 23,4 | 90-70                | W22090M212           | 90 - 60              | W22090MR206          |
|                               | 95                         | 78          | 113    | W22312X            | 22,9 | 95-75                | W22312R215           | –                    | –                    |
|                               | 100                        | 85          | 120    | W22315X            | 24,3 | –                    | –                    | –                    | –                    |
|                               | 105                        | 85          | 120    | W22402X            | 23,4 | –                    | –                    | –                    | –                    |
|                               | 110                        | 90          | 125    | W22405X            | 24,6 | –                    | –                    | –                    | –                    |
|                               | 115                        | 90          | 125    | W22115MX           | 24,0 | –                    | –                    | –                    | –                    |
|                               | 120                        | 95          | 130    | W22412X            | 24,7 | –                    | –                    | –                    | –                    |
|                               | 123                        | 95          | 130    | W22123MX           | 24,4 | –                    | –                    | –                    | –                    |
|                               | 130                        | 100         | 135    | W22502X            | 25,0 | –                    | –                    | –                    | –                    |
|                               | 135                        | 100         | 135    | W22506X            | 23,9 | 135 - 105            | W22506R402           | –                    | –                    |
| <b>W35000X</b><br>(47.454 Nm) | 80                         | 77          | 129    | W35302X            | 32,8 | 80 - 50              | W35302R200           | –                    | –                    |
|                               | 85                         | 77          | 129    | W35085MX           | 32,3 | –                    | –                    | –                    | –                    |
|                               | 90                         | 82          | 135    | W35090MX           | 33,5 | 90 - 60              | W35090R206           | –                    | –                    |
|                               | 95                         | 82          | 135    | W35312X            | 32,9 | –                    | –                    | –                    | –                    |
|                               | 100                        | 88          | 139    | W35315X            | 34,1 | –                    | –                    | –                    | –                    |
|                               | 105                        | 88          | 139    | W35402X            | 33,5 | –                    | –                    | –                    | –                    |
|                               | 110                        | 94          | 146    | W35405X            | 34,9 | 110 - 85             | W35405R085M          | –                    | –                    |
|                               | 115                        | 94          | 146    | W35115MX           | 34,2 | –                    | –                    | –                    | –                    |
|                               | 120                        | 100         | 153    | W35412X            | 35,6 | 120 - 95             | W354121R312          | –                    | –                    |
|                               | 123                        | 100         | 153    | W35123MX           | 35,0 | –                    | –                    | –                    | –                    |
|                               | 130                        | 104         | 160    | W35502X            | 35,8 | 130 - 105            | W35502R402           | –                    | –                    |
|                               | 135                        | 104         | 160    | W35506X            | 34,6 | 135 - 110            | W35506R405           | –                    | –                    |
|                               | 140                        | 110         | 163    | W35508X            | 36,2 | 140 - 115            | W35508R115M          | –                    | –                    |
|                               | 145                        | 110         | 163    | W35512X            | 34,9 | 145 - 120            | W35512R412           | –                    | –                    |
|                               | 150                        | 115         | 169    | W35514X            | 36,7 | –                    | –                    | –                    | –                    |
|                               | 151                        | 115         | 169    | W35151MX           | 36,5 | –                    | –                    | –                    | –                    |
|                               | 155                        | 115         | 169    | W35602X            | 35,3 | 155 - 130            | W35602R502           | –                    | –                    |

<sup>1)</sup> See page 78 for table of hexagon sizes of bolts, nuts and related thread diameters.

# Accessories for W-Series, X-Edition Wrenches



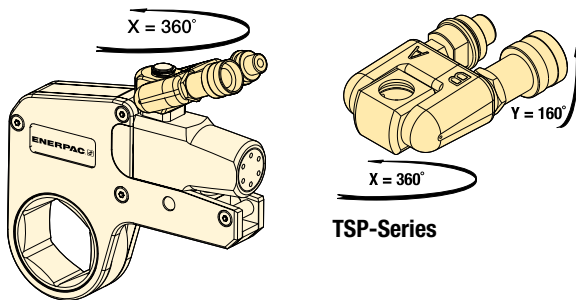
- ① Hexagon Cassette
- ② Drive Unit
- ③ Angled Positioning Handle
- ④ Straight Positioning Handle
- ⑤ Pro Series Swivel
- ⑥ Extended Reaction Arm
- ⑦ Reducer Insert
- ⑧ Reaction Paddle

Items ① to ③ are standard.  
Items ④ to ⑧ are optional.

## TSP WTE WRP Series



### TSP-Series, Pro Series Swivel

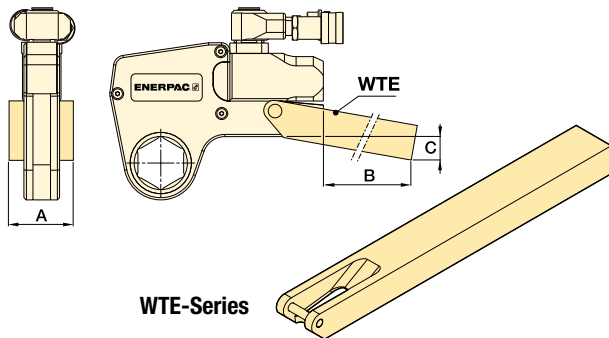


- Robust interlocking design
- 360° X-axis and 160° Y-axis rotation
- Increases tool fit in restricted access areas
- Simplifies hose placement
- Includes male and female couplers.

| For Torque Wrench<br>Model Number                    | Model<br>Number <sup>1)</sup> | Maximum<br>Pressure<br>(bar) | <br>(kg) |
|------------------------------------------------------|-------------------------------|------------------------------|---------------------------------------------------------------------------------------------|
| W2000X, W4000X, W8000X,<br>W15000X, W22000X, W35000X | <b>TSP300</b>                 | 690                          | 0,2                                                                                         |

<sup>1)</sup> To order a W-Series (X-edition) drive unit fitted with a TSP300 tilt and swivel manifold, insert a "P" prior to the "X" in the tool model number, example: **W2000PX**.  
TSP300 is designed for X-Edition tools only, and is not compatible with standard edition tools.  
For replacement components for existing tools, refer to repair sheet on [www.enerpac.com](http://www.enerpac.com)

### WTE-Series, Extended Reaction Arms

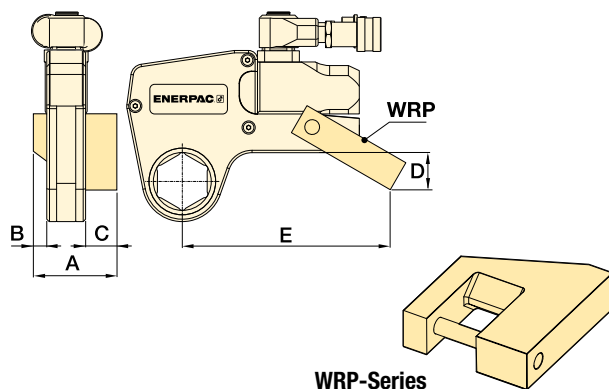


- Full torque rated
- Increases tool fit in restricted access areas.

| For Torque Wrench<br>Model Number | Model<br>Number | Dimensions (mm) |     |     | <br>(kg) * |
|-----------------------------------|-----------------|-----------------|-----|-----|-------------------------------------------------------------------------------------------------|
|                                   |                 | A               | B   | C   |                                                                                                 |
| W2000X                            | <b>WTE20</b>    | 56              | 398 | 76  | 2,6                                                                                             |
| W4000X                            | <b>WTE40</b>    | 66              | 436 | 74  | 4,6                                                                                             |
| W8000X                            | <b>WTE80</b>    | 85              | 449 | 55  | 7,6                                                                                             |
| W15000X                           | <b>WTE150</b>   | 102             | 498 | 72  | 12,0                                                                                            |
| W22000X                           | <b>WTE220</b>   | 114             | 524 | 77  | 17,3                                                                                            |
| W35000X                           | <b>WTE350</b>   | 127             | 419 | 133 | 17,8                                                                                            |

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

### WRP-Series, Reaction Paddles



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

| For Torque Wrench<br>Model Nr. | Model<br>Number | Dimensions (mm) |    |    |     |     | <br>(kg) * |
|--------------------------------|-----------------|-----------------|----|----|-----|-----|-------------------------------------------------------------------------------------------------|
|                                |                 | A               | B  | C  | D   | E   |                                                                                                 |
| W2000X                         | <b>WRP20</b>    | 84              | 16 | 35 | 45  | 148 | 0,4                                                                                             |
| W4000X                         | <b>WRP40</b>    | 109             | 21 | 47 | 59  | 190 | 0,8                                                                                             |
| W8000X                         | <b>WRP80</b>    | 137             | 26 | 57 | 69  | 223 | 2,0                                                                                             |
| W15000X                        | <b>WRP150</b>   | 165             | 32 | 69 | 87  | 257 | 3,9                                                                                             |
| W22000X                        | <b>WRP220</b>   | 207             | 37 | 91 | 134 | 317 | 7,2                                                                                             |
| W35000X                        | <b>WRP350</b>   | 225             | 42 | 91 | 182 | 367 | 10,6                                                                                            |

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