

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 ¹⁾
- X-Edition drive units, cassettes and most accessories are compatible with standard edition tools ¹⁾
- 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	SWH6A	SWH6S
W8000X, W15000X	SWH10A	SWH10S
W22000X, W35000X	SWH10EA ²⁾	

²⁾ 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 ¹⁾

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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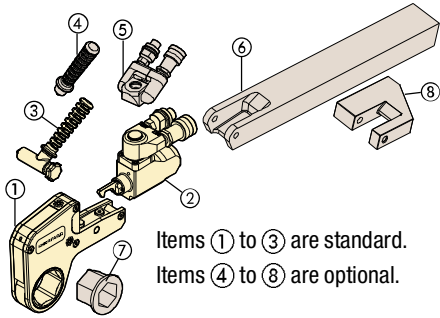
ATEX declared. Calibration certificate included.

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



¹⁾ 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

Double-Acting Hydraulic Hexagon Torque Wrenches



- ① Hexagon Cassette (pages 188-195)
- ② Drive Unit
- ③ Angled Positioning Handle (page 186)
- ④ Straight Positioning Handle
- ⑤ Pro Series Swivel (page 199)
- ⑥ Extended Reaction Arm (page 199)
- ⑦ Reducer Insert (pages 188-195)
- ⑧ Reaction Paddle (page 199)

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

W Series



Maximum Torque at 690 bar:

47.454 Nm

Hexagon Range:

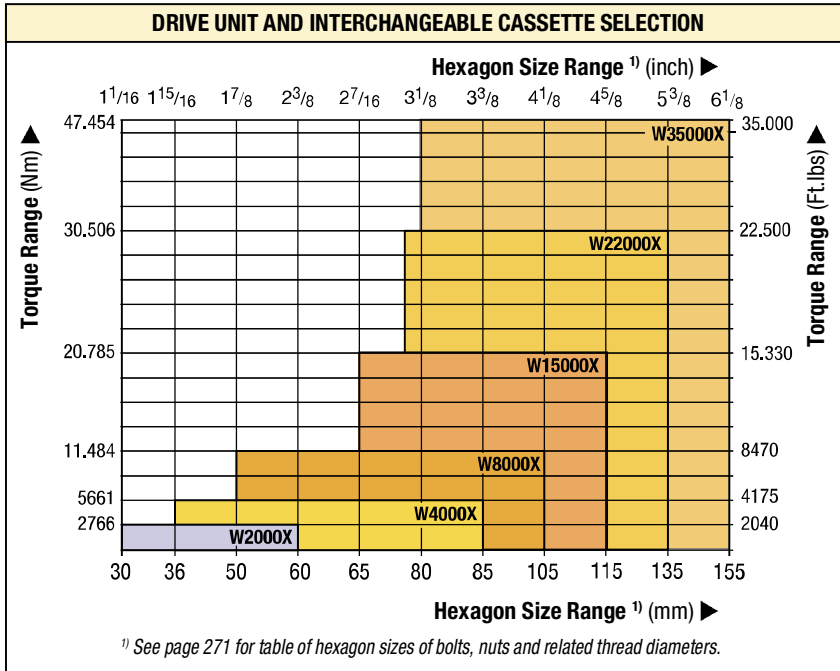
30 - 155 mm / 1 1/16 - 6 1/8"

Nose Radius:

31 - 115 mm

Maximum Operating Pressure:

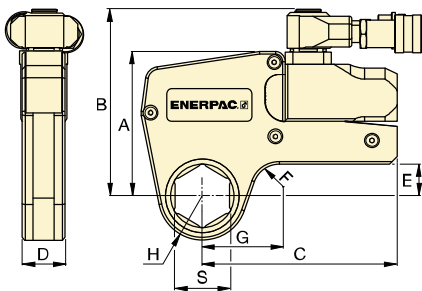
690 bar



Torque Wrench Pump Selection Matrix

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

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



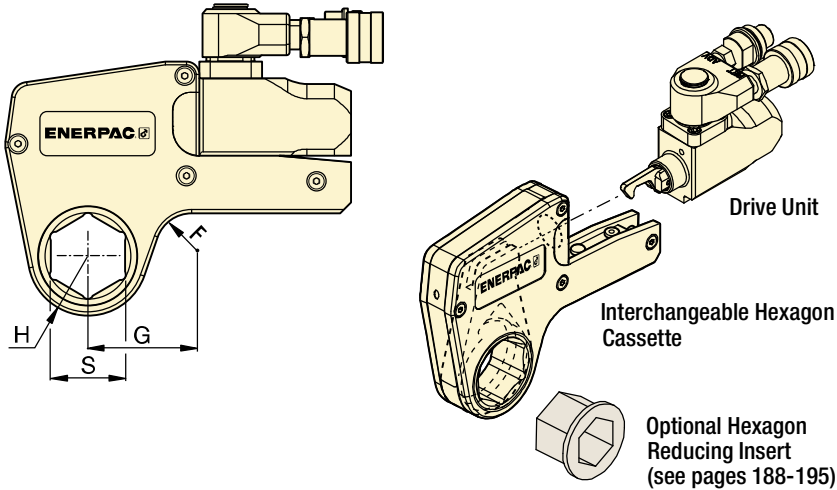
SELECTION CHART

Hexagon Range *		Maximum Torque at 690 bar		Drive Unit Model Number **	Minimum Torque		Dimensions (mm) (see pages 188-195 for dimensions G, H and S)						Weight (drive unit without hexagon cassette) (kg)
(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 W-series wrench fitted with the TSP swivel, suffix the model number with "-P". Example: **W2000PX**.

W2000X, Inch-Cassettes & Reducer Inserts



W Series



Maximum Torque at 690 bar:
2766 Nm

Hexagon Range:
1¹/₁₆ - 2³/₈ inch

Maximum Operating Pressure:
690 bar



Metric Sizes

For metric sizes of hexagon cassettes and reducer inserts see:

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Hexagon Bolt and Nut Sizes

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

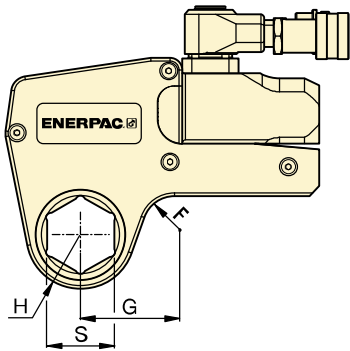
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▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size ¹⁾	Nose Radius	Dim. G (mm)	Model Number	Weight (kg)	Hexagon Reducer (inch)		Hexagon Reducer (inch)		Hexagon Reducer (inch)	
						Hexagon Reducer (inch)	Model Number	Hexagon Reducer (inch)	Model Number	Hexagon Reducer (inch)	Model Number
W2000X	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 ⁵ / ₈	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

¹⁾ See page 271 for table of hexagon sizes of bolts, nuts and related thread diameters.

W4000X-Series, Inch-Cassettes & Reducer Inserts



Maximum Torque at 690 bar:

5661 Nm

Hexagon Range:

1⁵/₁₆ - 3³/₈ inch

Maximum Operating Pressure:

690 bar

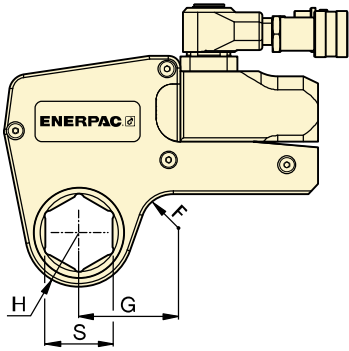
W
Series



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

¹⁾ See page 271 for table of hexagon sizes of bolts, nuts and related thread diameters.

W8000X-Series, Inch-Cassettes & Reducers



Maximum Torque at 690 bar:

11.484 Nm

Hexagon Range:

1⁷/₈ - 4¹/₈ inch






Maximum Operating Pressure:

690 bar

W
Series

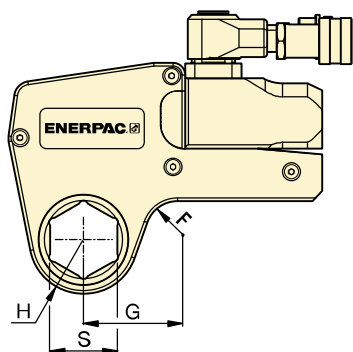


▼ SELECTION CHART

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

¹⁾ See page 271 for table of hexagon sizes of bolts, nuts and related thread diameters.

W15000X-Series, Inch-Cassettes & Reducer Inserts



Maximum Torque at 690 bar:

20.785 Nm

Hexagon Range:

2¹/₈ - 4⁵/₈ inch

Maximum Operating Pressure:

690 bar

**W
Series**

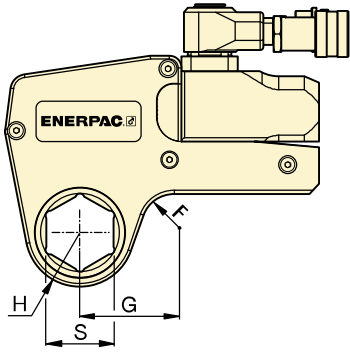


▼ SELECTION CHART

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

¹⁾ See page 271 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:

2¹⁵/₁₆ - 5³/₈ inch

Maximum Operating Pressure:

690 bar

W
Series

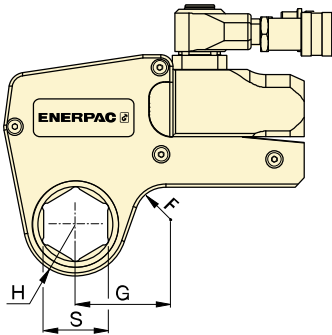


▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size ¹⁾ S (inch)	Nose Radius H (mm)	G (mm)	Model Nr. Cassette	Weight (kg)	Hexagon Reducer		Hexagon Reducer		Hexagon Reducer	
						Hexagon Reducer (inch)	Model Number Reducer	Hexagon Reducer (inch)	Model Number Reducer	Hexagon Reducer (inch)	Model Number Reducer
W22000X	2 ¹⁵ / ₁₆	67,0	102,1	W22215X	22,1	-	-	-	-	-	-
	3	67,0	102,1	W22300X	22,0	-	-	-	-	-	-
	3 ¹ / ₁₆	67,0	102,1	W22301X	21,9	-	-	-	-	-	-
	3 ¹ / ₈	67,0	102,1	W22302X	21,6	3 ¹ / ₈ - 2 ³ / ₈	W22302R206	3 ¹ / ₈ - 2 ³ / ₁₆	W22302R203	-	-
	3 ³ / ₁₆	72,4	107,4	W22303X	22,9	-	-	-	-	-	-
	3 ¹ / ₄	72,4	107,4	W22304X	22,8	-	-	-	-	-	-
	3 ⁵ / ₁₆	72,4	107,4	W22305X	22,6	-	-	-	-	-	-
	3 ³ / ₈	72,4	107,4	W22306X	22,5	-	-	-	-	-	-
	3 ⁷ / ₁₆	72,4	107,4	W22307IX	22,8	-	-	-	-	-	-
	3 ¹ / ₂	72,4	107,4	W22308X	22,2	3 ¹ / ₂ - 2 ³ / ₄	W22308R212	3 ¹ / ₂ - 2 ⁹ / ₁₆	W22308R209	3 ¹ / ₂ - 2 ³ / ₈	W22308R206
	3 ⁹ / ₁₆	77,9	113,0	W22309X	23,4	-	-	-	-	-	-
	3 ⁵ / ₈	77,9	113,0	W22310X	23,3	-	-	-	-	-	-
	3 ¹¹ / ₁₆	77,9	113,0	W22311X	23,1	-	-	-	-	-	-
	3 ³ / ₄	77,9	113,0	W22312X	22,9	3 ³ / ₄ - 2 ¹⁵ / ₁₆	W22312R215	-	-	-	-
	3 ¹³ / ₁₆	77,9	113,0	W22313X	22,8	-	-	-	-	-	-
	3 ⁷ / ₈	77,9	113,0	W22314X	22,6	3 ⁷ / ₈ - 3 ¹ / ₈	W22314R302	3 ⁷ / ₈ - 2 ¹⁵ / ₁₆	W22314R215	3 ⁷ / ₈ - 2 ³ / ₄	W22314R212
	3 ¹⁵ / ₁₆	85,1	119,9	W22315X	24,3	-	-	-	-	-	-
	4	85,1	119,9	W22400X	24,1	-	-	-	-	-	-
	4 ¹ / ₁₆	85,1	119,9	W22401IX	24,0	-	-	-	-	-	-
	4 ¹ / ₈	85,1	119,9	W22402X	23,6	-	-	-	-	-	-
	4 ³ / ₁₆	85,1	119,9	W22403IX	23,6	-	-	-	-	-	-
	4 ¹ / ₄	85,1	119,9	W22404X	24,6	4 ¹ / ₄ - 3 ¹ / ₂	W22404R308	4 ¹ / ₄ - 3 ¹ / ₈	W22404R302	4 ¹ / ₄ - 2 ¹⁵ / ₁₆	W22404R215
	4 ⁵ / ₁₆	89,9	125,0	W22405X	24,6	-	-	-	-	-	-
	4 ³ / ₈	89,9	125,0	W22406X	24,5	-	-	-	-	-	-
	4 ⁷ / ₁₆	89,9	125,0	W22407X	24,3	-	-	-	-	-	-
	4 ¹ / ₂	89,9	125,0	W22408IX	24,1	-	-	-	-	-	-
	4 ⁹ / ₁₆	89,9	125,0	W22409IX	23,9	-	-	-	-	-	-
	4 ⁵ / ₈	89,9	125,0	W22410IX	23,6	4 ⁵ / ₈ - 3 ⁷ / ₈	W22410R314	4 ⁵ / ₈ - 3 ³ / ₄	W22410R312	4 ⁵ / ₈ - 3 ¹ / ₂	W22410R308
	4 ³ / ₄	95,0	130,0	W22412X	24,7	-	-	-	-	-	-
	4 ⁷ / ₈	95,0	130,0	W22414X	24,3	-	-	-	-	-	-
	5	95,0	130,0	W22500X	23,8	5 - 4 ¹ / ₄	W22500R404	5 - 4 ¹ / ₈	W22500R402	5 - 3 ⁷ / ₈	W22500R314
	5 ¹ / ₈	100,0	134,8	W22502X	25,0	-	-	-	-	-	-
5 ³ / ₁₆	100,0	134,8	W22503X	24,8	-	-	-	-	-	-	
5 ¹ / ₄	100,0	134,8	W22504X	24,5	-	-	-	-	-	-	
5 ³ / ₈	100,0	134,8	W22506X	23,9	5 ³ / ₈ - 4 ⁵ / ₈	W22506R410	5 ³ / ₈ - 4 ¹ / ₄	W22506R404	5 ³ / ₈ - 4 ¹ / ₈	W22506R402	
-	-	-	W22506X	23,9	5 ³ / ₈ - 3 ⁷ / ₈	W22506R314	-	-	-	-	

¹⁾ See page 271 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	Weight (kg)	Reducer	
						Hexagon Reducer (inch)	Model Number Reducer
W35000X	3 ¹ / ₈	76,0	126,8	W35302X	32,8	3 ¹ / ₈ - 2	W35302R200
	3 ³ / ₁₆	76,0	126,8	W35303X	32,7	-	-
	3 ¹ / ₄	76,0	126,8	W35304X	32,5	-	-
	3 ⁵ / ₁₆	76,0	126,8	W35305X	32,4	-	-
	3 ³ / ₈	76,0	126,8	W35306X	32,2	-	-
	3 ⁷ / ₁₆	76,0	126,8	W35307X	32,0	-	-
	3 ¹ / ₂	76,0	126,8	W35308X	31,8	3 ¹ / ₂ - 2 ⁵ / ₁₆	W35308R205
	3 ⁹ / ₁₆	81,5	132,5	W35309X	32,4	-	-
	3 ⁵ / ₈	81,5	132,5	W35310X	33,3	-	-
	3 ¹¹ / ₁₆	81,5	132,5	W35311X	33,1	-	-
	3 ³ / ₄	81,5	132,5	W35312X	32,9	-	-
	3 ¹³ / ₁₆	81,5	132,5	W35313X	32,7	-	-
	3 ⁷ / ₈	81,5	132,5	W35314X	32,4	3 ⁷ / ₈ - 2 ¹¹ / ₁₆	W35314R211
	3 ¹⁵ / ₁₆	87,0	137,0	W35315X	34,1	3 ¹⁵ / ₁₆ - 2 ¹³ / ₁₆	W35315R213
	4	87,0	137,0	W35400X	33,9	-	-
	4 ¹ / ₁₆	87,0	137,0	W35401IX	33,7	-	-
	4 ¹ / ₈	87,0	137,0	W35402X	33,5	-	-
	4 ³ / ₁₆	87,0	137,0	W35403IX	33,3	-	-
	4 ¹ / ₄	87,0	137,0	W35404X	33,0	4 ¹ / ₄ - 3 ¹ / ₁₆	W35404R301
	4 ⁵ / ₁₆	93,0	143,0	W35405X	34,9	-	-
	4 ³ / ₈	93,0	143,0	W35406X	34,7	-	-
	4 ⁷ / ₁₆	93,0	143,0	W35407X	34,5	-	-
	4 ¹ / ₂	93,0	143,0	W35408X	34,3	-	-
	4 ⁹ / ₁₆	93,0	143,0	W35409X	34,1	-	-
	4 ⁵ / ₈	93,0	143,0	W35410IX	33,7	4 ⁵ / ₈ - 3 ⁵ / ₈	W35410R310
	4 ³ / ₄	98,5	148,5	W35412X	35,6	4 ³ / ₄ - 3 ³ / ₄	W35412R312
	4 ⁷ / ₈	98,5	148,5	W35414X	34,9	-	-
	5	98,5	148,5	W35500X	34,3	5 - 4	W35500R400
	5 ¹ / ₈	103,0	153,0	W35502X	35,8	5 ¹ / ₈ - 4 ¹ / ₈	W35502R402
	5 ³ / ₁₆	103,0	153,0	W35503IX	35,6	-	-
	5 ¹ / ₄	103,0	153,0	W35504X	35,2	-	-
	5 ³ / ₈	103,0	153,0	W35506X	34,6	5 ³ / ₈ - 4 ⁵ / ₁₆	W35506R405
5 ¹ / ₂	108,5	158,5	W35508X	36,2	-	-	
5 ⁹ / ₁₆	108,5	158,5	W35509X	36,0	-	-	
5 ⁵ / ₈	108,5	158,5	W35510X	35,6	-	-	
5 ³ / ₄	108,5	164,0	W35512X	34,9	5 ³ / ₄ - 4 ³ / ₄	W35512R412	
5 ⁷ / ₈	114,0	164,0	W35514X	36,7	5 ⁷ / ₈ - 4 ⁷ / ₈	W35514R414	
6	114,0	164,0	W35600X	36,1	-	-	
6 ¹ / ₈	114,0	164,0	W35602X	35,3	6 ¹ / ₈ - 5 ¹ / ₈	W35602R502	

W Series



Maximum Torque at 690 bar:

47.454 Nm

Hexagon Range:

3¹/₈ - 6¹/₈ inch

Maximum Operating Pressure:

690 bar

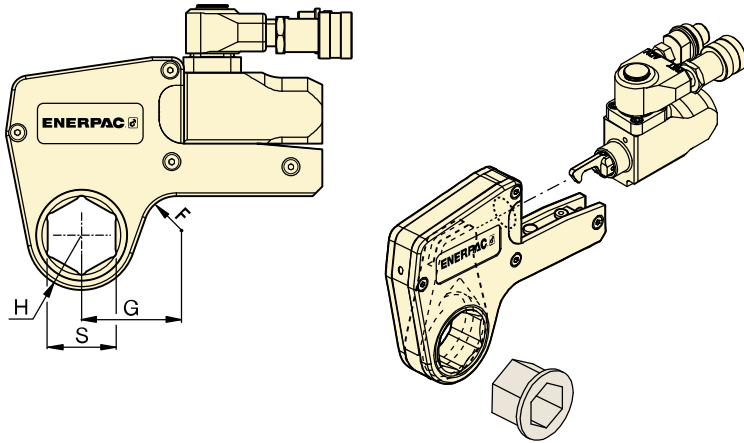


Hexagon Bolt and Nut Sizes

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

Page: 271

W-Series, Metric Cassettes and Reducers



W
Series







Hexagon Range:

24 - 105 mm

Maximum Operating Pressure:

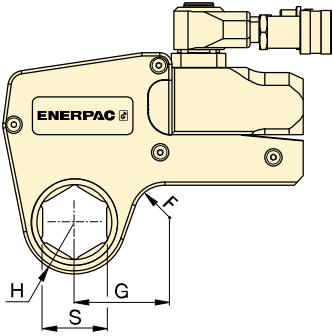
690 bar

▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size ¹⁾ S (mm)	Nose Radius H (mm)	Dim. G (mm)	Model Nr. Cassette	 (kg)							
						Hexagon Reducer (mm)	Model Number Reducer	Hexagon Reducer (mm)	Model Number Reducer	Hexagon Reducer (mm)	Model Number Reducer	
W2000X (2766 Nm)	30	31	54	W2103X	2,1	-	-	-	-	-	-	
	32	31	54	W2104X	2,1	-	-	-	-	-	-	
	36	31	54	W2107X	2,1	-	-	-	-	-	-	
	38	34	58	W2108X	2,2	-	-	-	-	-	-	
	41	34	58	W2110X	2,2	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	2,3	55 - 46	W2203R113	55 - 41	W2203R110	55 - 36	W2203R107	
	60	45	65	W2206X	2,2	60 - 50	W2206R200	60 - 46	W2206R113	60 - 41	W2206R110	
	-	-	-	-	-	-	60 - 36	W2206R107	-	-	-	-
W4000X (5661 Nm)	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	-	-	
	-	-	-	W4215X	-	-	75 - 55	W4215R203	75 - 50	W4215R200	-	-
	80	59	84	W4302X	-	-	-	80 - 70	W4302R212	80 - 65	W4302R209	
	-	-	-	W4302X	-	-	80 - 55	W4302R203	80 - 50	W4302R200	-	-
W8000X (11.484 Nm)	85	62	86	W4085MX	4,5	-	-	-	-	-	-	
	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	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	-	-	-	-	-	-		

¹⁾ See page 271 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



▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size ¹⁾	Nose Radius	Dim.	Model Nr. Cassette	Weight (kg)	Hexagon Reducer		Model Number Reducer	
						Hexagon Reducer (mm)	Model Number Reducer	Hexagon Reducer (mm)	Model Number Reducer
W15000X (20.785 Nm)	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	-	-
W22000X (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	-	-
W35000X (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	W35412R312	-	-
	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	-	-

¹⁾ See page 271 for table of hexagon sizes of bolts, nuts and related thread diameters.