

DSX-SERIES SQUARE DRIVE ALUMINIUM TORQUE WRENCHES

Setting Industry-First Safety Standards
ATEX-Certified

 II 2G c T6



ENERPAC 

▼ Shown: DSX11000



Safety and Performance

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

Simplicity

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

Accuracy

- Constant torque outputs with an accuracy of +/- 3%

ATEX declared

- All DSX tools are CE - ATEX declared.

Setting Industry-First Safety Standards



Work-at-Height Connection

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



Fully Retained Reaction Arm

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



Secured Square Drive

Retained quick release push-button.



Ergonomic Tool Handle

Robust ergonomic positioning handle comes supplied as standard with every DSX tool.

Compatible DSX-Series wrenches	Ergonomic Handle (Standard)
DSX1500, 3000, 5000	SWH6A
DSX11000	SWH10A
DSX25000	SWH10EA



Bolting Integrity Software

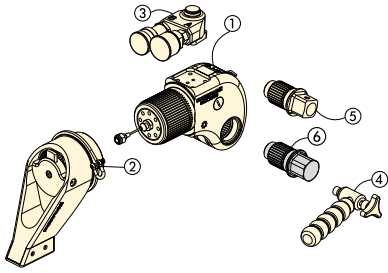
Enerpac Bolting Integrity Software Solutions play a key role in

implementing and managing an Integrity Program for bolted connections.

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

Custom Joint information can also be entered.

Square Drive Hydraulic Torque Wrenches



Standard are: ① ② ③ ④ ⑤

Item ⑥ is optional.

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

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

DSX Series



Nominal Torque Output:

32.617 Nm | 24.057 Ft.lbs

Square Drive Range:

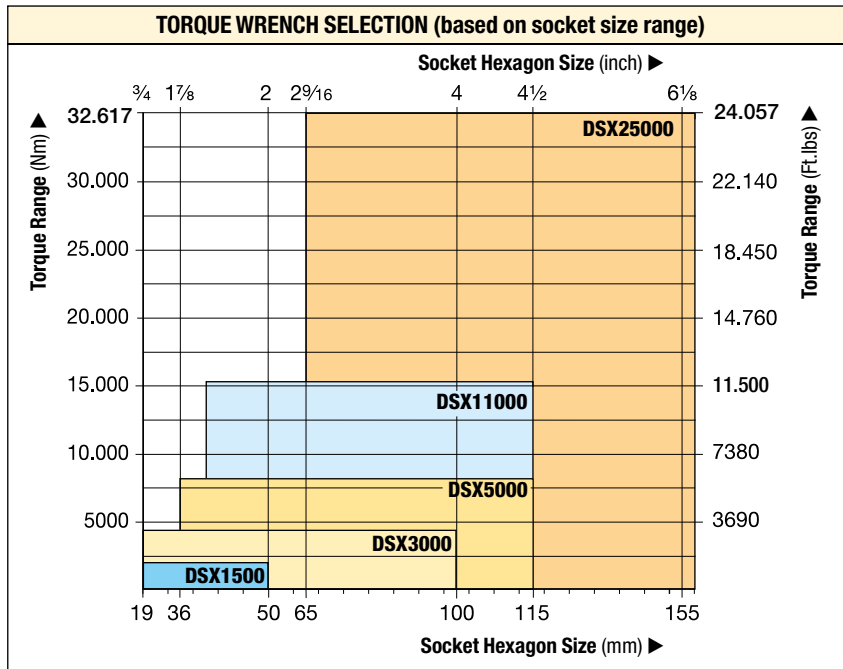
3/4 - 2 1/2 inch

Nose Radius:

24 - 64 mm

Maximum Operating Pressure:

690 bar



Back-Up Spanners

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

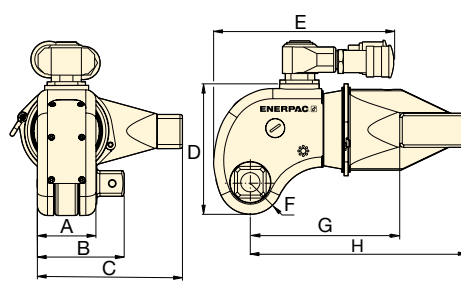
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▼ The rigid design of the DSX-Series torque wrenches provides durability, reliability and safety.



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

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Nominal Torque at 690 bar		Minimum Torque at 69 bar		Square Drive Size (inch)	Torque Wrench Model Number	Dimensions (mm)								(kg)	
(Nm)	(Ft.lbs)	(Nm)	(Ft.lbs)			Model Nr. (included with wrench)	A	B	C	D	E	F	G		H
1913	1411	191	141	3/4	DSX1500-08	DSX1500	44	67	107	96	145	24	114	163	2,2
4383	3233	438	323	1	DSX3000-08	DSX3000	58	86	144	129	171	32	148	215	4,8
7640	5635	764	563	1 1/2	DSX5000-08	DSX5000	69	112	173	148	192	38	180	260	8,1
15.624	11.524	1562	1152	1 1/2	DSX11000-08	DSX11000	87	129	215	181	222	48	227	325	14,4
32.617	24.057	3262	2406	2 1/2	DSX25000-08	DSX25000	117	176	288	244	266	64	281	426	32,5

Maximum Torque Output:

32.617 Nm

Hexagon Size Allen Drive:


1/2 - 2 1/4 inch

Hexagon Size Allen Drive:

14 - 85 mm

For
DSX
Series



Torque Wrench	Optional Allen-Key Drives, Imperial				Optional Allen-Key Drives, Metric			
	Hexagon Size	Maximum Torque	Model Number	Dim.	Hexagon Size	Maximum Torque	Model Number	Dim.
(max. torque)	(inch)	(Ft.Lbs)		B1 (mm)	(mm)	(Nm)		B1 (mm)
 DSX1500 (1411 Ft.lbs) (1913 Nm)	1/2	350	DDA15008	67	14	644	DDA1514	67
	5/8	690	DDA15010	67	17	1152	DDA1517	67
	3/4	1200	DDA15012	67	19	1627	DDA1519	67
	7/8	1411	DDA15014	67	22	1913	DDA1522	67
	1	1411	DDA15100	67	24	1913	DDA1524	67
DSX3000 (3233 Ft.lbs) (4383 Nm)	5/8	690	DDA30010	86	17	1152	DDA3017	86
	3/4	1200	DDA30012	86	19	1627	DDA3019	86
	7/8	1900	DDA30014	86	22	2495	DDA3022	86
	1	2830	DDA30100	86	24	3376	DDA3024	86
	1 1/8	3233	DDA30102	86	27	4383	DDA3027	86
	1 1/4	3233	DDA30104	86	30	4383	DDA3030	86
	-	-	-	86	32	4383	DDA3032	86
DSX5000 (5635 Ft.lbs) (7640 Nm)	5/8	690	DDA50010	112	17	1152	DDA5017	112
	3/4	1200	DDA50012	112	19	1627	DDA5019	112
	7/8	1900	DDA50014	112	22	2495	DDA5022	112
	1	2830	DDA50100	112	24	3376	DDA5024	112
	1 1/8	5325	DDA50102	112	27	4610	DDA5027	112
	1 1/4	5635	DDA50104	112	30	7640	DDA5030	112
	-	-	-	-	32	7640	DDA5032	112
DSX11000 (11.524 Ft.lbs) (15.624 Nm)	1 1/4	5635	DDA110104	129	30	7640	DDA11030	129
	1 3/8	9958	DDA110106	129	32	7640	DDA11032	129
	1 1/2	9958	DDA110108	129	36	10.846	DDA11036	129
	1 5/8	11.524	DDA110110	129	41	15.624	DDA11041	129
	1 3/4	11.524	DDA110112	129	46	15.624	DDA11046	129
DSX25000 (24.057 Ft.lbs) (32.617 Nm)	1 1/2	9958	DDA250104	176	36	10.846	DDA25036	176
	1 5/8	16.433	DDA250106	176	41	16.107	DDA25041	176
	1 3/4	15.200	DDA250112	176	46	22.777	DDA25046	176
	1 7/8	22.777	DDA250114	176	50	29.211	DDA25050	176
	2	24.057	DDA250200	176	55	32.617	DDA25055	176
	2 1/4	24.057	DDA250204	176	60	32.617	DDA25060	176
	-	-	-	-	65	32.617	DDA25065	176
	-	-	-	-	70	32.617	DDA25070	176
	-	-	-	-	75	32.617	DDA25075	176
	-	-	-	-	85	32.617	DDA25085	176


Back-Up Spanners for Torque Wrenches

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



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

▼ SELECTION CHART BACK-UP SPANNERS

Hexagon Sizes (A/F)		Model Number	Dimensions (mm)				 (kg)
S1 to S2 (mm)	S1 to S2 (inch)		A	B	C	D	
27 - 32	1 ¹ / ₁₆ - 1 ¹ / ₄ "	BUS 01	51	98	15	M8	0,3
36 - 41	1 ⁷ / ₁₆ - 1 ⁵ / ₈ "	BUS 02	62	119	15	M8	0,4
46 - 50	1 ¹³ / ₁₆ - 2"	BUS 03	75	141	20	M8	0,6
55 - 60	2 ³ / ₁₆ - 2 ³ / ₄ "	BUS 04	89	166	20	M12	0,8
65 - 70	2 ⁹ / ₁₆ - 2 ³ / ₄ "	BUS 05	100	190	25	M16	1,0
75 - 80	2 ¹⁵ / ₁₆ - 3 ¹ / ₈ "	BUS 06	112	213	25	M16	1,3
-	3 ¹ / ₂ - 3 ⁷ / ₈ "	BUS 07	135	257	30	M20	2,2
-	4 ¹ / ₄ - 4 ⁵ / ₈ "	BUS 08	163	310	30	M20	3,3
85 - 90	-	BUS 09	126	242	25	M16	1,7
95 - 100	3 ³ / ₄ - 3 ¹⁵ / ₁₆ "	BUS 10	138	266	30	M20	2,3
105 - 110	4 ¹ / ₈ - 4 ¹⁵ / ₁₆ "	BUS 11	153	297	30	M20	3,1
115 - 120	-	BUS 12	165	320	30	M20	3,5

BUS Series

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

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



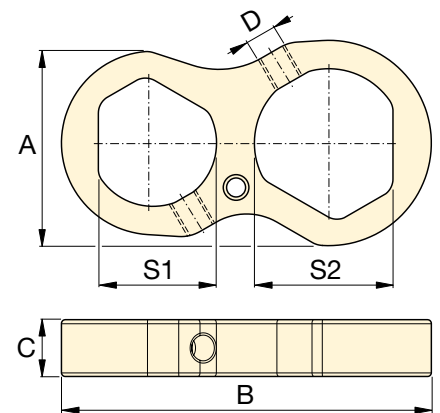
Back-Up Spanners

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

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

The Back-Up Spanners have been specifically designed to prevent them from locking onto the nut during bolt torquing operations.

They fit easily onto the back nut and prevent it from turning during make up or break out of bolted joints.



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



BSH-Series, Heavy-Duty Sockets

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

BSH Series



Hexagon Sizes (A/F):

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



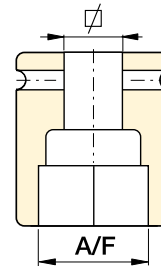
Select the Right Torque

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



Hexagon Bolt and Nut Sizes

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




























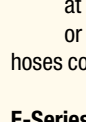
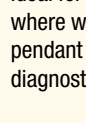
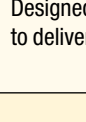
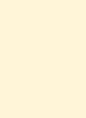


METRIC SOCKETS							
3/4" Square Drive		1" Square Drive		1 1/2" Square Drive		2 1/2" Square Drive	
A/F (mm)	Model Number	A/F (mm)	Model Number	A/F (mm)	Model Number	A/F (mm)	Model Number
19	BSH7519	19	BSH1019	36	BSH1536	65	BSH2565
24	BSH7524	24	BSH1024	41	BSH15163	70	BSH2570
27	BSH7527	27	BSH1027	46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

IMPERIAL SOCKETS													
3/4" Square Drive		1" Square Drive				1 1/2" Square Drive				2 1/2" Square Drive			
A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	A/F (inch)	Model Number	Model Number	
3/4"	BSH7519	3/4"	BSH1019	2 5/16"	BSH10231	1 7/16"	BSH15144	2 13/16"	BSH15281	2 7/16"	BSH25244	4 3/16"	BSH25419
7/8"	BSH75088	7/8"	BSH10088	2 3/8"	BSH10238	1 1/2"	BSH1538	2 7/8"	BSH15288	2 1/2"	BSH25250	4 1/4"	BSH25425
1 5/16"	BSH75094	1 5/16"	BSH10094	2 7/16"	BSH10244	1 9/16"	BSH15156	2 15/16"	BSH1575	2 13/16"	BSH2565	4 5/16"	BSH25110
1 1/16"	BSH7527	1 1/16"	BSH1027	2 1/2"	BSH10250	1 5/8"	BSH15163	3"	BSH15300	2 5/8"	BSH25263	4 3/8"	BSH25438
1 3/16"	BSH7530	1 3/16"	BSH1030	2 9/16"	BSH1065	1 11/16"	BSH1543	3 1/16"	BSH15306	2 11/16"	BSH25269	4 1/2"	BSH25450
1 1/4"	BSH75125	1 1/4"	BSH10125	2 5/8"	BSH10263	1 3/4"	BSH15175	3 3/8"	BSH15313	2 3/4"	BSH2570	4 5/8"	BSH25463
1 5/16"	BSH75131	1 5/16"	BSH10131	2 11/16"	BSH10269	1 13/16"	BSH1546	3 3/16"	BSH15319	2 11/16"	BSH25281	4 3/4"	BSH25475
1 3/8"	BSH7535	1 3/8"	BSH1035	2 3/4"	BSH1070	1 7/8"	BSH15188	3 1/4"	BSH15325	2 7/8"	BSH25288	4 7/8"	BSH25488
1 7/16"	BSH75144	1 7/16"	BSH10144	2 13/16"	BSH10281	1 15/16"	BSH15194	3 3/8"	BSH15338	2 15/16"	BSH2575	5"	BSH25500
1 1/2"	BSH7538	1 1/2"	BSH1038	2 7/8"	BSH10288	2"	BSH15200	3 1/2"	BSH15350	3"	BSH25300	5 1/8"	BSH25513
1 9/16"	BSH75156	1 9/16"	BSH10156	2 15/16"	BSH1075	2 1/16"	BSH15206	3 5/8"	BSH15363	3 1/16"	BSH25306	5 3/16"	BSH25519
1 5/8"	BSH75163	1 5/8"	BSH10163	3"	BSH10300	2 1/8"	BSH15213	3 3/4"	BSH1595	3 1/8"	BSH25313	5 1/4"	BSH25525
1 11/16"	BSH7543	1 11/16"	BSH1043	3 1/16"	BSH10306	2 3/16"	BSH15219	3 7/8"	BSH15388	3 3/16"	BSH25319	5 3/8"	BSH25538
1 3/4"	BSH75175	1 3/4"	BSH10175	3 3/8"	BSH10313	2 1/4"	BSH15225	3 15/16"	BSH15100	3 1/4"	BSH25325	5 1/2"	BSH25140
1 13/16"	BSH7546	1 13/16"	BSH1046	3 3/16"	BSH10319	2 5/16"	BSH15231	4"	BSH15400	3 3/8"	BSH25338	5 3/4"	BSH25575
1 7/8"	BSH75188	1 7/8"	BSH10188	3 1/4"	BSH10325	2 3/8"	BSH15238	4 1/8"	BSH15105	3 1/2"	BSH25350	5 7/8"	BSH25150
1 15/16"	BSH75194	1 15/16"	BSH10194	3 3/8"	BSH10338	2 7/16"	BSH15244	4 3/16"	BSH15419	3 5/8"	BSH25363	6"	BSH25600
2"	BSH75200	2"	BSH10200	3 1/2"	BSH10350	2 1/2"	BSH15250	4 1/4"	BSH15425	3 3/4"	BSH2595	6 1/8"	BSH25613
-	-	2 1/16"	BSH10206	3 5/8"	BSH10363	2 9/16"	BSH1565	4 5/16"	BSH15110	3 7/8"	BSH25388	-	-
-	-	2 1/8"	BSH10213	3 3/4"	BSH1095	2 5/8"	BSH15263	4 3/8"	BSH15438	3 15/16"	BSH25100	-	-
-	-	2 3/16"	BSH10219	3 7/8"	BSH10388	2 11/16"	BSH15269	4 1/2"	BSH15450	4"	BSH25400	-	-
-	-	2 1/4"	BSH10225	-	-	2 3/4"	BSH1570	4 5/8"	BSH15463	4 1/8"	BSH25105	-	-

Selection Matrix – Optimum Wrench-Pump Combinations

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

		ELECTRIC TORQUE PUMPS					AIR DRIVEN TORQUE PUMPS	
		Cordless XC-Series	E-Pulse® E-Series	TQ-Series	ZU4T-Series	ZE-T-Series	LAT-Series	ZA4T-Series
								
Speed:								
Oil Flow at 700 bar:		0,25 l/min	0,52 l/min	0,5 l/min	1,0 l/min	0,8 - 1,6 l/min	0,4 l/min	1,0 l/min
Reservoir Capacity:		2,0 litres	3,0 litres	4,0 litres	4,6 - 6,8 litres	4,6 - 39 litres	3,0 litres	4,6 - 6,8 litres
Duty Cycle:		Intermittent	Heavy-Duty	Standard	Standard	Heavy-Duty	Standard	Heavy-Duty
Weight:								
Work:		Field	Field/Factory	Field/Factory	Field	Factory	Field	Field
	S1500X	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	S3000X							
	S6000X	-	Acceptable	Acceptable	Optimal	Optimal	Acceptable	Optimal
	S11000X							
	S25000X	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	W2000X							
	W4000X	-	Acceptable	Acceptable	Optimal	Optimal	Acceptable	Optimal
	W8000X							
	W15000X	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	W22000X							
	W35000X	-	Acceptable	Acceptable	Optimal	Optimal	Acceptable	Optimal
	RSL1500							
	RSL3000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	RSL5000							
	RSL8000	-	Acceptable	Acceptable	Optimal	Optimal	Acceptable	Optimal
	RSL11000							
	RSL19000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	RSL28000							
	DSX1500	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	DSX3000							
	DSX5000	-	Acceptable	Acceptable	Optimal	Optimal	Acceptable	Optimal
	DSX11000							
	DSX25000	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	HMT1500							
	HMT3500	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal
	HMT7500							
		Acceptable	Optimal	Optimal	Optimal	Optimal	Optimal	Optimal



XC-Series, Portable Cordless Pumps

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

E-Series, E-Pulse Portable Torque Pumps

Ideal for high volume fastening applications where weight is critical. Feature an interactive pendant for operation, programming and diagnostics.

TQ-700 Series Electric Torque Pumps

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

ZU4T-Series, Electric Torque Pumps

Works well with long extension cords or generator driven electrical power supplies. Available in **Pro** and **Classic** formats. **ZU4T Pro Pumps** have an LCD feature to display torque or pressure, selectable torque wrench, and self-diagnostics.

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

ZE-T-Series Electric Torque Pumps

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

LAT-Series, Lightweight Torque Air Pumps

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

ZA4T-Series Air Driven Torque Pumps

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

THQ-Series, Torque Wrench Hoses

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



THE RIGHT TOOL MAKES ALL THE DIFFERENCE

Enerpac bolting tools are put to work under the most intense and demanding conditions. That's why we never compromise. So you can rely on quality and precision every time for your controlled tightening and joint integrity applications.

As a global leader in high-pressure hydraulic tools, controlled force products and solutions for precision positioning of heavy loads, Enerpac products have moved and maintained some of the largest structures on earth. They are the industry standard in aerospace, infrastructure, manufacturing, mining, oil & gas, power generation and much more.

ELITE TOOLS. FOR ELITE PROFESSIONALS.

Controlled Tightening and Loosening



S-, W-, RSL-, DSX and HMT-Series Hydraulic Torque Wrenches



STTL-Series Safe T™ Torque Lock



Manual Torque Multipliers



Pneumatic and Electric Torque Wrenches



Cordless Torque Pumps



Electric Torque Pumps



Pneumatic Torque Pumps

Tensioning Tools



Power Generation Bolt Tensioners



HydraMax, General Purpose and Aquajack® Subsea Tensioners



Electric Tensioning Pumps



Pneumatic Tensioning Pumps



High-Pressure Hand Pumps

Joint Assembly & Joint Separation



Hydraulic Nut Cutters and Nut Splitters



Flange Alignment Tools



Flange Face Tool



Flange Spreaders



Valve Change-Out Tool Sets



Flange Puller Sets



www.enerpac.com