

▼ From left to right: S3000, S6000, S1500



Rigid Steel Professional Square Drive Solution



S-Series, Square Drive Wrenches

This product range has been designed using state-of-the-art CAD techniques to bring you the most advanced square drive torque wrench on the market.

To ensure that the tools you buy meet our own exacting requirements, during the design process every prototype was put through finite element stress analysis, photo-elastic modeling, rigorous cyclic testing and strain gauging.

Simplicity

- 360° click-on, multi-position reaction arm
- Push button square drive release for quickly reversing the square drive for tightening or loosening
- Fine tooth ratchet prevents tool “lock-on”
- Single 360° hydraulic swivel manifold, complete with screw lock couplings, increases wrench and hose maneuverability

Design

- Compact, high-strength uni-body construction for a small operating radius
- Robust design with minimal parts enables easy on-site maintenance without special tools
- Lightweight, ergonomic design for easy handling and an easy fit, even in applications where access is limited
- Optimised strength-to-weight ratio
- Fast operation due to the large nut rotation per wrench cycle (35 degree rotation angle) and rapid return stroke.

Reliability

- All wrenches are nickel-plated for excellent corrosion protection and improved durability in harsh environments.

Accuracy

- Constant torque output provides high accuracy across the full stroke
- Uni-body construction ensures accuracy by reducing internal deflections.



Special Design Service

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



Optional Direct Allen Drives

Expanded versatility with a wide range of metric and imperial Allen drives for hexagon socket head cap screws.

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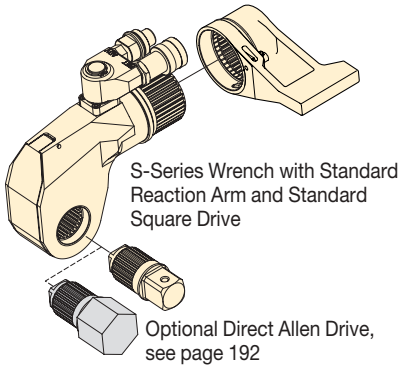


Torque Wrench Hoses

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

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

Double-Acting Square Drive Hydraulic Torque Wrenches



Use only Heavy Duty Impact Sockets for power driven torquing equipment, according to ISO2725 and ISO1174; DIN 3129 and DIN 3121 or ASME-B107.2/1995.

S Series



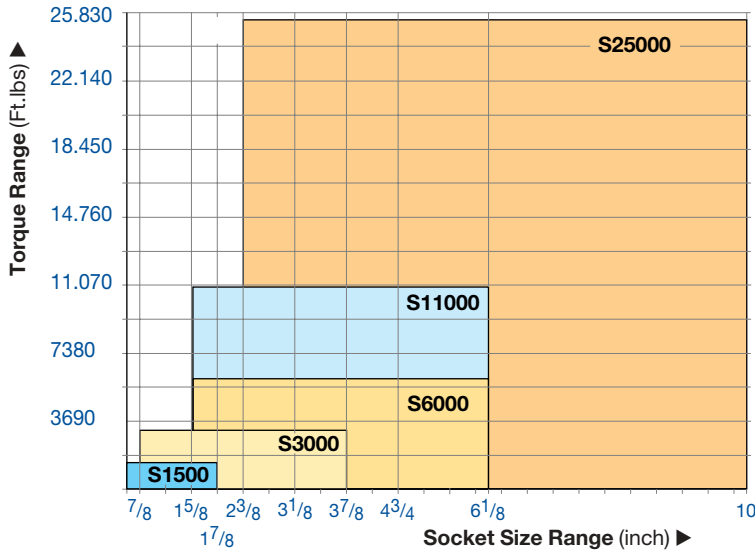
Maximum Torque at 10,000 psi:
25,150 Ft.lbs

Square Drive Range:
3/4 - 2 1/2 inches

Nose Radius:
.99-2.50 inches

Maximum Operating Pressure:
10,000 psi

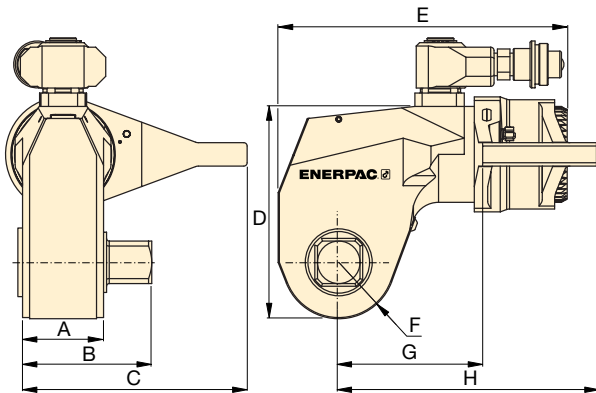
TORQUE WRENCH SELECTION (based on socket size range)



Torque Wrench and Pump Selection Matrix

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

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The rigid steel design of S-Series torque wrenches guarantee durability, reliability and safety. These wrenches can be powered by the portable ZU4T-Series pumps.



Typical Socket Size Range		Square Drive		Maximum Torque ¹⁾ at 10,000 psi	Torque Wrench Model No.	Dimensions (in)								Wt. (lbs)
		Size (in)	Model No. (included with wrench)			A	B	C	D	E	F	G	H	
5/8 - 17/8	15 - 50	3/4	SD15-012	1400	S1500	1.54	2.48	4.33	3.74	5.36	0.99	2.72	4.69	5.94
7/8 - 37/8	20 - 100	1	SD30-100	3200	S3000	1.89	3.03	5.28	4.96	6.78	1.30	3.55	6.27	11.00
1 5/8 - 6 1/4	41 - 155	1 1/2	SD60-108	6010	S6000	2.24	3.55	7.05	6.38	7.92	1.66	4.41	7.37	18.70
1 5/8 - 6 1/4	41 - 155	1 1/2	SD110-108	11,000	S11000	2.80	4.37	7.22	7.29	8.90	1.95	5.20	8.94	33.00
2 3/8 - 10	60 - 255	2 1/2	SD250-208	25,140	S25000	3.43	5.63	9.61	9.46	11.50	2.50	7.17	11.50	68.20

¹⁾ Determine maximum torque according to the bolt (nut) size and grade. See "Yellow Pages" section for torque conversions.



Optional Allen Drives and Reaction Arm

The SRA-Series Reaction Arm for Allen drives must be used instead of standard reaction arm for square drives.

For
S
Series



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

Hexagon Size Allen Drive:
1/2-2 1/4 inches

SELECTION CHART

TORQUE WRENCH	OPTIONAL ALLEN DRIVES, IMPERIAL				SHORT REACTION ARM FOR ALLEN DRIVES		
	Hexagon Size (in)	Maximum Torque ¹⁾ (Ft.Lbs)	Model Number	Dim. B1 (in)	Model Number	Dimensions (in) C1 H1	
 S1500 (1400 Ft-lbs)	1/2	355	SDA15-008	2.6	SRA15	2.66	2.56
	5/8	690	SDA15-010	2.6			
	3/4	1195	SDA15-012	2.8			
	7/8	1400	SDA15-014	2.9			
	1	1400	SDA15-100	3.0			
 S3000 (3200 Ft-lbs)	5/8	690	SDA30-010	3.0	SRA30	3.15	2.91
	3/4	1195	SDA30-012	3.1			
	7/8	1895	SDA30-014	3.3			
	1	2824	SDA30-100	3.4			
	1 1/8	4023	SDA30-102	3.5			
	1 1/4	5517	SDA30-104	3.5			
	-	-	-	-			
 S6000 (6000 Ft-lbs)	5/8	690	SDA60-010	3.3	SRA60	3.60	3.50
	3/4	1195	SDA60-012	3.5			
	7/8	1895	SDA60-014	3.6			
	1	2824	SDA60-100	3.7			
	1 1/8	4023	SDA60-102	3.8			
	1 1/4	5517	SDA60-104	3.9			
 S11000 (11,000 Ft-lbs)	1 1/4	5517	SDA110-104	4.5	SRA110	5.02	4.17
	1 3/8	7341	SDA110-106	4.6			
	1 1/2	10	SDA110-108	4.6			
	1 5/8	11	SDA110-110	4.8			
	1 3/4	11	SDA110-112	4.9			
 S25000 (25,000 Ft-lbs)	1 1/2	10	SDA250-108	5.5	SRA250	6.24	5.31
	1 5/8	13	SDA250-110	5.7			
	1 3/4	16	SDA250-112	5.8			
	1 7/8	19	SDA250-114	5.9			
	2	23	SDA250-200	5.9			
	2 1/4	26	SDA250-204	6.0			
	-	-	-	-			
	-	-	-	-			
-	-	-	-				



Nut Splitters

Remove rusted or corroded nuts easily with Enerpac Nut Splitters. Hexagon nut capacities up to 2.88 in.

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Torque Wrench and Pump Selection Matrix

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

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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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¹⁾ Determine maximum torque according to the bolt size and grade.

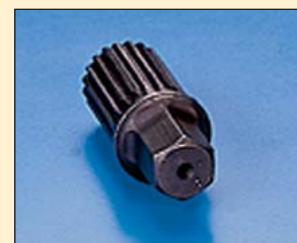
SDA-Series, Allen Drives – Metric





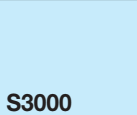
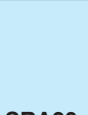
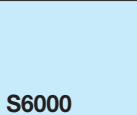
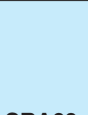
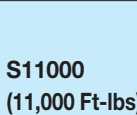
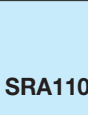
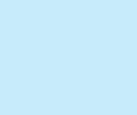
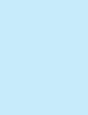
Optional Allen Drives and Reaction Arm

The SRA-Series Reaction Arm for Allen drives must be used instead of standard reaction arm for square drives.

For
S
Series



▼ SELECTION CHART

TORQUE WRENCH	OPTIONAL ALLEN DRIVES, METRIC				SHORT REACTION ARM FOR ALLEN DRIVES		
	Model Number	Hexagon Size (mm)	Maximum Torque ¹⁾ (Ft.lbs)	Model Number	Dim. B1 (in)	Model Number	Dimensions (in) C1 H1
 S1500 (1400 Ft-lbs)	14	475	SDA15-14	2.60	 SRA15	2.66	2.56
	17	850	SDA15-17	2.68			
	19	1184	SDA15-19	2.76			
	22	1399	SDA15-22	2.87			
	24	1399	SDA15-24	2.91			
 S3000 (3200 Ft-lbs)	17	850	SDA30-17	3.03	 SRA30	3.15	2.91
	19	1184	SDA30-19	3.11			
	22	1833	SDA30-22	3.23			
	24	2384	SDA30-24	3.31			
	27	3198	SDA30-27	3.35			
	30	3198	SDA30-30	3.43			
	32	3198	SDA30-32	3.46			
 S6000 (6000 Ft-lbs)	17	850	SDA60-17	3.39	 SRA60	3.60	3.50
	19	1184	SDA60-19	3.46			
	22	1833	SDA60-22	3.58			
	24	2384	SDA60-24	3.66			
	27	3393	SDA60-27	3.70			
	30	4652	SDA60-30	3.78			
	32	5647	SDA60-32	3.82			
 S11000 (11,000 Ft-lbs)	30	4652	SDA110-30	4.41	 SRA110	5.02	4.17
	32	5647	SDA110-32	4.49			
	36	8035	SDA110-36	4.61			
	41	10,993	SDA110-41	4.76			
	46	10,993	SDA110-46	5.00			
 S25000 (25,000 Ft-lbs)	36	8035	SDA250-36	5.51	 SRA250	6.24	5.31
	41	11873	SDA250-41	5.67			
	46	16765	SDA250-46	5.83			
	50	21,480	SDA250-50	5.94			
	55	25,135	SDA250-55	6.06			
	60	25,135	SDA250-60	6.22			
	65	25,135	SDA250-65	6.34			
	70	25,135	SDA250-70	6.46			
	75	25,135	SDA250-75	6.61			
	85	25,135	SDA250-85	6.89			

Maximum Torque at 10,000 psi:

25,150 Ft.lbs.

Hexagon Size Allen Drive:

14-85 mm



Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 150% of tightening torque.

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Flange Spreaders

Friction-free, smooth and parallel wedge movement with unique interlock wedge design. Eliminates flange damage and risk of spreading arm failure.

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ATM-Series Alignment Tools

Rectifies twist and rotational misalignment without additional stress in pipelines.

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¹⁾ Determine maximum torque according to the bolt size and grade.