

# XTORC

- THE RIGHT TOOLS -



## **ABOUT US**

### **Engineering Excellence, Driven by Experience**

XTORC was founded with a vision to provide world-class industrial tools and services tailored to modern challenges. With over a decade of experience, we're redefining how industries achieve precision, efficiency, and safety.

All our products are proudly manufactured in India and certified to the highest standards, including ISO 9001:15000, CE, and ATEX.

At XTORC, we believe in creating value that extends beyond products.

Our WIN-WIN-WIN philosophy ensures that our customers win, our employees thrive, and our entrepreneurs succeed.

### **Mission Statement:**

Deliver Excellence By providing Perfect Product, Unmatched Quality, Unbeatable Prices with International Certifications

Continuous Innovation - Investing in cutting-edge technology to stay ahead in the industry

Global Expansion - Strengthening our presence in India, Europe, APAC, Middle East, USA & Africa

At XTORC, we don't just sell tools - we deliver precision, performance, and trust

### **Vision Statement:**

At XTORC, we believe in a WIN-WIN-WIN philosophy where:

Customers Win with perfect products, unmatched quality, and unbeatable prices.

Employees Win through growth, innovation, & rewarding work culture.

Entrepreneurs Win by building a brand that sets new industry benchmarks.

We strive to be the most TRUSTED and INNOVATIVE brand in Bolting and In-Situ Machining Solutions WORLDWIDE.



# INSIDE

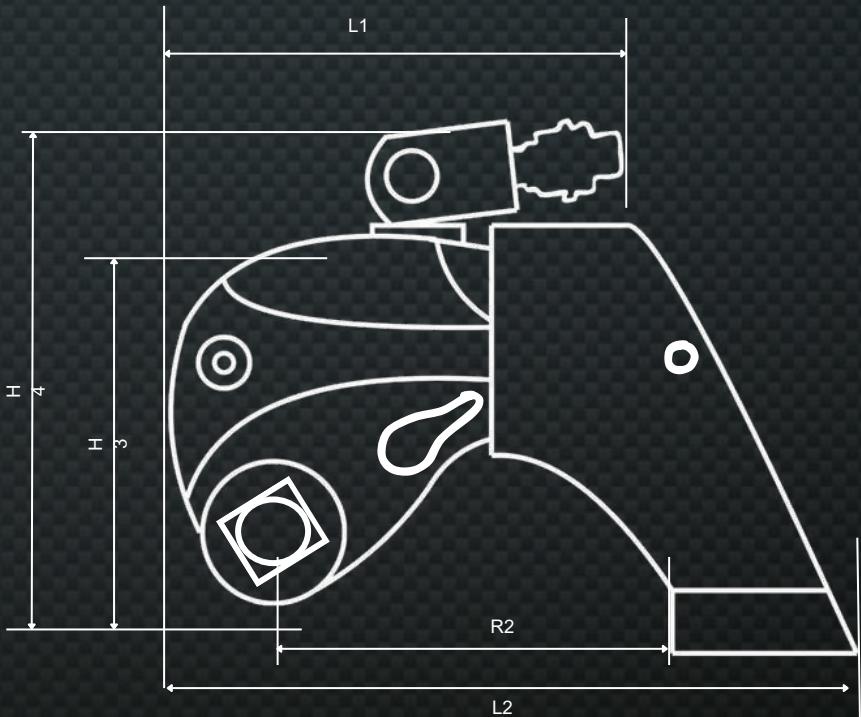
- XTS / XTH SERIES HYDRAULIC TORQUE WRENCHES
- XEP700/XAP700 POWER PACK FOR HYDRAULIC TORQUE WRENCHES
- XET/XES ELECTRIC TORQUE WRENCHES
- HYDRAULIC BOLT TENSIONERS
- XEP1500/XAP1500 HYDRAULIC POWER PACK FOR BOLT TENSIONERS
- ACCESORIES



# XTORC SQAURE DRIVE HYDRAULIC TORQUE WRENCHES



	Unit	XTS-07	XTS-1	XTS-3	XTS-5	XTS-8	XTS-10	XTS-20	XTS-25	XTS-35	XTS-50
Sq. Drive	inch	3/4"	3/4"	1"	1.1/2"	1.1/2"	1.1/2"	2.1/2"	2.1/2"	2.1/2"	2.1/2"
Min. Torque	Nm	112	172	450	740	1078	1450	2719	3472	4866	6925
Max. Torque	Nm	1120	1731	4500	7380	10780	14508	27197	34725	48666	69247
Bolt Size	mm	14-30	16-36	22-48	27-56	30-64	36-72	42-90	48-100	64-120	72-125
Weight	Kg	1.8	2.5	4.9	9.5	10.8	14.7	26	35	50	65



		XTS-07	XTS-1	XTS-3	XTS-5	XTS-8	XTS-10	XTS-20	XTS-25	XTS-35	XTS-50
Body Length (L1)	mm	110	144.5	178	213	222	246	305	321	371	376
	inch	4.33	5.69	7.0	8.38	8.74	9.69	12.0	12.6	14.6	14.8
Overall Length (L2)	mm	139	173	228	274.5	292	317	383	401	465	528
	inch	5.47	6.81	8.98	10.80	11.49	12.48	15.08	15.78	18.3	20.78
Tool Width (H1)	mm	42	52	69.5	82.5	92	102	112.5	120	137	162
	inch	1.65	2.04	2.74	3.24	3.62	4.01	4.43	4.72	5.39	6.14
Overall Width (H2)	mm	65	75	94	128.5	134	142	183	200	216	226
	inch	2.55	2.95	3.7	5.06	5.2	5.6	7.2	7.87	8.5	8.9
Tool Height (H3)	mm	77	95.5	115	149	167	182	220	246	282	291
	inch	3.03	3.76	4.53	5.87	6.57	7.16	8.33	9.68	11.1	11.5
Overall Height (H4)	mm	108	136	176	199	217	232	270	297	332	226
	inch	4.25	5.35	6.93	7.83	8.54	9.13	10.62	11.69	13.07	12.83
Tool Radius Aroud Bolt (R1)	mm	21	26.3	34.5	39	47	51	59	66	77	78.8
	inch	0.82	1.03	1.36	1.53	1.85	2	2.32	2.59	3.03	3.1
Reaction Reach (R2)	mm	68	85	111.5	140	153	154	186	199	241	295
	inch	2.67	3.35	4.39	5.51	6.02	6.06	7.32	7.83	9.48	11.6

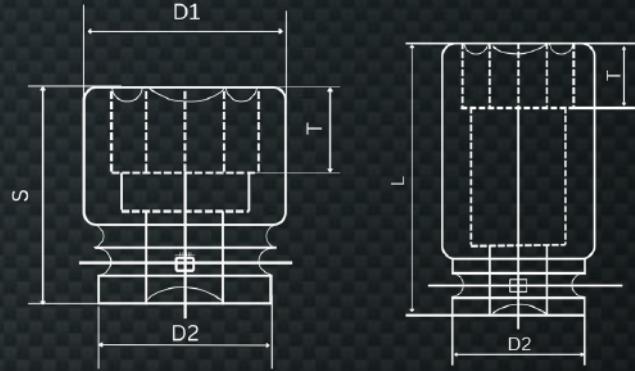
# ACCESSORIES FOR HYDRAULIC TORQUE WRENCH

## HEAVY DUTY IMPACT SOCKETS

The range of Imperial Impact Sockets with square drives is from 3/4" to 2.1/2" and the across flat sizes go up to 6.7/8". The Metric Impact Sockets offer 56 models with square drives ranging from 3/4" to 2.1/2" and across flat sizes up to 145mm



**6 point  
IMPACT SOCKETS**



Model No.	Square Drive	Nut A/F		D1	D2	S	T	L
		Inch	mm					
XTIS7524	3/4"	-	24	40	44	46	21	90
XTIS7527	3/4"	-	27	41	44	48	23	90
XTIS7527F	3/4"	1.1/16	-	41	44	48	23	90
XTIS7530	3/4"	-	30	44	44	52	24	90
XTIS7531F	3/4"	1.1/4	-	49	44	52	24	90
XTIS7532	3/4"	-	32	49	44	52	26	90
XTIS7536	3/4"	-	36	52	44	55	28	90
XTIS7536F	3/4"	1.7/16	-	52	44	56	28	90
XTIS7541	3/4"	-	41	57	44	59	36	90
XTIS7541F	3/4"	1.5/8	-	57	44	59	36	90
XTIS7546	3/4"	-	46	67	44	64	37	90
XTIS7546F	3/4"	1.13/16	-	67	44	64	36	90
XTIS7550	3/4"	-	50	70	54	67	39	90
XTIS7551F	3/4"	2	-	73	54	67	39	90
XTIS7555	3/4"	-	55	78	54	71	41	94
XTIS755F	3/4"	2.3/16	-	78	54	71	41	94
XTIS7560	3/4"	-	60	82	52	75	45	98
XTIS7560F	3/4"	2.3/8	-	82	54	75	45	98
XTIS124	1"	-	24	42	54	55	21	100
XTIS127	1"	-	27	46	54	55	23	100
XTIS127F	1"	1.1/16	-	46	54	55	23	100
XTIS130	1"	-	30	50	54	57	24	100
XTIS131F	1"	1.1/4	-	51	54	57	24	100
XTIS132	1"	-	32	51	54	57	26	100
XTIS136	1"	-	36	54	54	60	28	100
XTIS136F	1"	1.7/16	-	54	54	60	28	100
XTIS141	1"	-	41	63	54	64	36	100
XTIS141F	1"	1.5/8	-	63	54	64	36	100
XTIS146	1"	-	46	70	54	69	36	100
XTIS146F	1"	1.13/16	-	70	54	69	36	100
XTIS150	1"	-	50	73	54	72	36	100
XTIS151F	1"	2	-	73	54	72	39	100
XTIS155	1"	-	55	82	54	76	41	105
XTIS155F	1"	2.3/16	-	82	54	80	41	105
XTIS160	1"	-	60	86	54	82	45	112
XTIS160F	1"	2.3/8	-	88	54	85	45	112
XTIS165	1"	-	65	92	54	85	46	118
XTIS165F	1"	2.9/16	-	92	54	85	46	118
XTIS170	1"	-	70	96	54	88	50	124
XTIS170F	1"	2.3/4	-	96	54	88	50	124
XTIS175	1"	-	75	100	86	92	57	124
XTIS175F	1"	2.15/16	-	100	86	92	57	124
XTIS179F	1"	3.18"	-	105	86	97	57	124
XTIS180	1"	-	80	105	86	97	62	132
XTIS185	1"	-	85	115	86	100	62	132
XTIS188F	1"	3.1/2"	-	121	86	104	62	140
XTIS190	1"	-	90	127	86	104	62	140
XTIS195	1"	-	95	135	86	106	62	140
XTIS197F	1"	3.7/8"	-	135	86	112	62	143

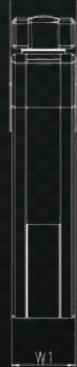
Model No.	Square Drive	Nut A/F		D1	D2	S	T	L
		Inch	mm					
XTIS1100	1"	-	-	100	86	112	62	143
XTIS1536	1.1/2"	-	-	36	64	80	28	130
XTIS1541	1.1/2"	-	-	41	69	86	32	130
XTIS1546	1.1/2"	-	-	46	76	86	36	130
XTIS1546F	1.1/2"	1.13/16	-	76	86	86	36	130
XTIS1550	1.1/2"	-	-	50	81	86	90	130
XTIS1550F	1.1/2"	2	-	-	81	86	90	39
XTIS1555	1.1/2"	-	-	55	88	86	95	140
XTIS1555F	1.1/2"	2.3/16	-	-	88	86	95	41
XTIS1560	1.1/2"	-	-	60	96	86	98	140
XTIS1560F	1.1/2"	2.3/8	-	-	96	86	98	45
XTIS1565	1.1/2"	-	-	65	102	86	102	140
XTIS1565F	1.1/2"	2.9/16	-	-	102	86	102	46
XTIS1570	1.1/2"	-	-	70	108	86	102	150
XTIS1570F	1.1/2"	2.3/4	-	-	108	86	102	50
XTIS1575	1.1/2"	-	-	75	116	86	108	150
XTIS1575F	1.1/2"	2.15/16	-	-	116	86	108	57
XTIS1580	1.1/2"	-	-	80	120	86	110	150
XTIS1580F	1.1/2"	3.1/8	-	-	120	86	110	62
XTIS1585	1.1/2"	-	-	85	130	86	115	170
XTIS1590	1.1/2"	-	-	90	135	125	118	170
XTIS1590F	1.1/2"	3.1/2	-	-	135	125	118	65
XTIS1595	1.1/2"	-	-	95	140	125	118	170
XTIS15100	1.1/2"	-	-	100	148	125	128	190
XTIS15100F	1.1/2"	3.7/8	-	-	148	125	128	75
XTIS15105	1.1/2"	-	-	105	155	125	133	190
XTIS15105F	1.1/2"	4.1/4	-	-	155	125	133	80
XTIS15110	1.1/2"	-	-	110	161	150	138	200
XTIS15115	1.1/2"	-	-	115	161	150	143	200
XTIS15115F	1.1/2"	4.5/8	-	-	175	150	149	94
XTIS2580	2.1/2"	-	-	80	135	125	140	190
XTIS2580F	2.1/2"	3.1/8	-	-	135	125	140	62
XTIS2585	2.1/2"	-	-	85	140	125	140	190
XTIS2590	2.1/2"	-	-	90	145	125	140	190
XTIS2595	2.1/2"	-	-	95	155	125	150	190
XTIS2595F	2.1/2"	3.7/8	-	-	155	125	150	70
XTIS25100	2.1/2"	-	-	100	160	125	150	200
XTIS25105	2.1/2"	-	-	105	165	125	160	200
XTIS25110	2.1/2"	-	-	110	174	150	160	210
XTIS25115	2.1/2"	-	-	115	180	150	170	210
XTIS25115F	2.1/2"	4.1/2	-	-	180	150	170	90
XTIS25125F	2.1/2"	5	-	-	195	150	175	220
XTIS25130	2.1/2"	-	-	130	195	150	175	220
XTIS25135F	2.1/2"	5.3/8	-	-	205	150	180	102
XTIS25145	2.1/2"	-	-	145	220	150	180	230
XTIS25145F	2.1/2"	5.3/4	-	-	220	150	180	105
XTIS25155F	2.1/2"	6.1/8	-	-	230	180	190	110
XTIS25165F	2.1/2"	6.1/2	-	-	240	180	200	120
XTIS25175F	2.1/2"	6.7/8	-	-	255	180	200	120

# XTORC LOW PROFILE HYDRAULIC TORQUE WRENCHES



# XTH SERIES DIRECT HEX TYPE HYDRAULIC TORQUE WRENCHES

	Units	XTH-2		XTH-4		XTH-8		XTH-14	XTH-32	
Min. Torque	NM	293	305	608	673	1192	1283	2222	5026	5351
Max. Torque	NM	2943	3051	6092	6733	11926	12834	22225	50258	53512
Min. Torque	FT.LBS	214	221	443	489	867	932	1615	3652	3888
Max. Torque	FT.LBS	2137	2217	4426	4891	8863	9323	16147	36511	38875
Across Flat	MM	19-55	55-60	34-65	70-80	46-95	100-105	50-117	110-155	160-180
	INC	3/4-2.3/16	2.3/16-2.3/8	1.5/16-2.9/16	2.3/4-3.1/8	1.13/16-3.3/4	3.7/8-4.1/8	2-4.1/2	4.1/4-6.1/8	6.1/8-7.1/16
Weight	KG	1.5	1.5	3.2	3.2	5.3	5.3	9.8	15	15
Drive Unit	LBS	3.3	3.3	7	7	11.6	11.6	21.6	33	33
Weight	KG	1.7	1.85	4.1	4.2	8.7	8.8	11.5	32	35
Ratchet Unit	LBS	3.7	4	9	9.2	19	19.4	25	70	77



	Units	XTH-2		XTH-4		XTH-8		XTH-14	XTH-32	
Overall Length (L)	mm	179	183	223	223	287	287	350	435	447
	Inch	7.04	7.2	8.7	8.7	11.29	11.29	13.77	17.12	17.59
(H1)	mm	142	142	184	184	209	209	240	320	320
	Inch	5.59	5.59	7.24	7.24	8.22	8.22	9.4	12.59	12.59
(H2)	mm	109.5	109.5	143.5	143.5	185	185	205	290	290
	Inch	4.31	4.31	5.64	5.64	7.28	7.28	8.07	11.41	11.41
Width at Link (W1)	mm	32.2	32.2	40.6	40.6	52.5	52.5	63	83	83
	Inch	1.26	1.26	1.59	1.59	2.06	2.06	2.48	3.26	3.26
Width at Cylinder (W2)	mm	34.4	34.4	49.5	49.5	61.5	61.5	81	93	93
	Inch	1.35	1.35	1.94	1.94	2.42	2.42	3.18	3.66	3.66
Nose Radius (R)	mm	22-43	43-46	33-55	55-60	42-76	76-81	52-92	90-116	116-128
R Min	mm	9.5	10.5	13.52	13.7	18	18	2	25.7	25.7
R Max	mm	12.2	10.75	17	17	20	20	25.5	27.5	27.5

# LINK SELECTION



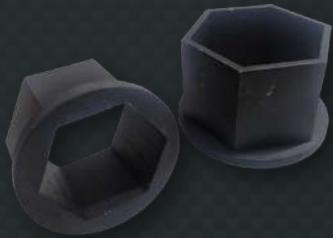
XTH-2 Link	Hex Size	
	Imperial	Metric
XHL-2-19	3/4	19 MM
XHL-2-20	13/16"	
XHL-2-21		21mm
XHL-2-22	7/8"	22mm
XHL-2-23	15/16"	
XHL-2-24		24mm
XHL-2-25	1"	
XHL-2-27	1-1/16"	27mm
XHL-2-28	1-1/8"	
XHL-2-30	1-3/16"	30mm
XHL-2-31	-1/4"	
XHL-2-32		32mm
XHL-2-33	1-5/16"	
XHL-2-34		34mm
XHL-2-35	1-3/8"	35mm
XHL-2-36		36mm
XHL-2-37	1-7/16	
XHL-2-38	1-1/2"	38mm
XHL-2-39	1-9/16"	
XHL-2-41	1-5/8"	41mm
XHL-2-42	1-11/16"	
XHL-2-44	1-3/4"	
XHL-2-46	1-13/16"	46mm
XHL-2-47	2-3/8"	
XHL-2-49	1-15/16"	49mm
XHL-2-50		50mm
XHL-2-51	2"	
XHL-2-52	2-1/16"	
XHL-2-54	2-1/8"	
XHL-2-55	2-3/16"	55mm
XHL-2-57	2-1/4"	
XHL-2-58	2-5/16"	
XHL-2-60	2-3/8"	60mm
XHL-2-61	2-7/16"	
XHL-2-63	2-1/2"	
XHL-2-65	2-9/16"	65mm
XHL-2-66	2-5/8"	
XHL-2-68	2-11/16	
XHL-2-70	2-3/4"	70mm
XHL-2-71	2-13/16"	
XHL-2-73	2-7/8"	
XHL-2-75	2-15/16"	75mm
XHL-2-76	3"	
XHL-2-77	3-1/16"	
XHL-2-79	3-1/8"	
XHL-2-80		80mm
XHL-2-81	3-3/16"	
XHL-2-82	3-1/4"	
XHL-2-84	3-5/16"	
XHL-2-85		85mm
XHL-2-86	3-3/8"	
XHL-2-87	3-7/16"	
XHL-2-89	3-1/2"	
XHL-2-90		90mm
XHL-2-91	3-9/16"	
XHL-2-92	3-5/8"	
XHL-2-93	3-11/16"	
XHL-2-95	3-3/4"	95mm
XHL-2-96	3-13/16"	
XHL-2-98	3-7/8"	
XHL-2-100	3-15/16"	100mm
XHL-2-101	4"	
XHL-2-104	4-1/6"	
XHL-2-105	4-1/8"	105mm
XHL-2-106	4-3/16"	
XHL-2-107	4-1/4"	
XHL-2-109	4-5/16"	
XHL-2-110		
XHL-2-111	4-3/8"	
XHL-2-112	4-7/16"	
XHL-2-114	4-1/2"	
XHL-2-115		115mm
XHL-2-117	4-13/16"	
XHL-2-123	4-7/8"	
XHL-2-125		125mm
XHL-2-126	4-15/16"	
XHL-2-127	5"	127mm
XHL-2-128	5-1/16"	
XHL-2-130	5-1/8"	
XHL-2-131	5-3/16"	
XHL-2-133	5-1/4"	
XHL-2-134	5-5/16"	135mm
XHL-2-136	5-3/8"	
XHL-2-138	5-7/16"	
XHL-2-140	5-1/2"	140mm
XHL-2-141	5-9/16"	
XHL-2-142	5-5/8"	
XHL-2-144	5-11/16"	
XHL-2-145	5-7/16"	145mm
XHL-2-146	5-3/4"	
XHL-2-147	5-13/16"	
XHL-2-149	5-7/8"	
XHL-2-150		150mm
XHL-2-151	5-15/16"	
XHL-2-152	6"	
XHL-2-153	6-1/16"	
XHL-2-155		155mm
XHL-2-156	6-1/8"	
XHL-2-157	6-3/16"	
XHL-2-158	6-1/4"	
XHL-2-160		160mm
XHL-2-161	6-5/16"	
XHL-2-162	6-3/8"	
XHL-2-163	6-7/16"	
XHL-2-165		165mm
XHL-2-166	6-1/2"	
XHL-2-168	6-9/16"	
XHL-2-170		170mm
XHL-2-171	6-3/4"	
XHL-2-173	6-13/16	
XHL-2-174	6-7/8"	
XHL-2-175		175mm

## FEATURES:

- Compact design with longer arm improves the reliability
- More accurate and easier to use, since the wrench directly operates on the nuts.
- 360x160 degree swivel or 360x360 degree swivel allows the wrench to operate freely in confined areas.

XTH-8 Link	Hex Size	
	Imperial	Metric
XHL-8-41	1-5/8"	41mm
XHL-8-42	1-11/16"	
XHL-8-44	1-3/4"	
XHL-8-46	1-13/16"	46mm
XHL-8-47	1-7/8"	
XHL-8-49	1-15/16"	49mm
XHL-8-50	50mm	
XHL-8-51	2"	
XHL-8-52	2-1/16"	
XHL-8-54	2-1/8"	
XHL-8-55	2-3/16"	55mm
XHL-8-57	2-1/4"	
XHL-8-58	2-5/16"	
XHL-8-60	2-3/8"	60mm
XHL-8-61	2-7/16"	
XHL-8-63	2-1/2"	
XHL-8-65	2-9/16"	65mm
XHL-8-66	2-5/8"	
XHL-8-68	2-11/16	
XHL-8-70	2-3/4"	70mm
XHL-8-71	2-13/16"	
XHL-8-73	2-7/8"	
XHL-8-75	2-15/16"	75mm
XHL-8-76	3"	
XHL-8-77	3-1/16"	
XHL-8-79	3-1/8"	
XHL-8-80		80mm
XHL-8-81	3-3/16"	
XHL-8-82	3-1/4"	
XHL-8-84	3-5/16"	
XHL-8-85		85mm
XHL-8-86	3-3/8"	
XHL-8-87	3-7/16"	
XHL-8-89	3-1/2"	
XHL-8-90		90mm
XHL-8-91	3-9/16"	
XHL-8-92	3-5/8"	
XHL-8-93	3-11/16"	
XHL-8-95	3-3/4"	95mm
XHL-8-96	3-13/16"	
XHL-8-98	3-7/8"	
XHL-8-100	3-15/16"	100mm
XHL-8-101	4"	
XHL-8-88	3-1/2"	
XHL-8-90		90mm
XHL-8-91	3-9/16"	
XHL-8-92	3-5/8"	
XHL-8-93	3-11/16"	
XHL-8-95	3-3/4"	95mm
XHL-8-96	3-13/16"	
XHL-8-98	3-7/8"	
XHL-8-100	3-15/16"	100mm
XHL-8-101	4"	
XHL-8-88	3-1/2"	
XHL-8-90		90mm
XHL-8-91	3-9/16"	
XHL-8-92	3-5/8"	
XHL-8-93	3-11/16"	
XHL-8-95	3-3/4"	95mm
XHL-8-96	3-13/16"	
XHL-8-98	3-7/8"	
XHL-8-100	3-15/16"	100mm
XHL-8-101	4"	
XHL-8-88	3-1/2"	
XHL-8-90		90mm
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XHL-8-95	3-3/4"	95mm
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XHL-8-90		90mm
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XHL-8-95	3-3/4"	95mm
XHL-8-96	3-13/16"	
XHL-8-98	3-7/8"	
XHL-8-100	3-15/16"	100mm
XHL-8-101	4"	
XHL-8-88	3-1/2"	
XHL-8-90		90mm
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XHL-8-95	3-3/4"	95mm
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XHL-8-101	4"	
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XHL-8-90		90mm
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XHL-8-88	3-1/2"	
XHL-8-90		90mm
XHL-8-91	3-9/16"	
XHL-8-92	3-5/8"	
XHL-8-93		

# HEXAGON REDUCER BUSHES



To reduce the Female hexagon A/F size of the XTH Series these XTOR Hexagon Reducer Bushes offer an easy and economical solution. Just select your outside A/F size (i.e Ratchet Head A/F size) and the required inside A/F size to determine the Model number.

Outside A/F size	Inside A/F size	XTH-2	XTH-4	XTH-8	XTH-14	XTH-32
		Height-1.25"	Height-1.625"	Height-2.1"	Height-2.55"	Height-3.34"
		Model Number	Model Number	Model Number	Model Number	Model Number
11"	11 <sup>1</sup> / <sub>2</sub> "	XHR-2-125-106	XHR-4-125-106			
17 <sup>1</sup> / <sub>2</sub> "	11 <sup>1</sup> / <sub>2</sub> "	XHR-2-143-106	XHR-4-143-106			
17 <sup>1</sup> / <sub>2</sub> "	11"	XHR-2-143-125	XHR-4-143-125			
15"	11 <sup>1</sup> / <sub>2</sub> "	XHR-2-162-125	XHR-4-162-125			
15"	17 <sup>1</sup> / <sub>2</sub> "	XHR-2-162-143	XHR-4-162-143			
11 <sup>3</sup> / <sub>16</sub> "	17 <sup>1</sup> / <sub>2</sub> "	XHR-2-181-143	XHR-4-181-143			
11 <sup>3</sup> / <sub>16</sub> "	15"	XHR-2-181-162	XHR-4-181-162	XHR-8-181-162		
2"	15"	XHR-2-200-162	XHR-4-200-162	XHR-8-200-162		
2"	11 <sup>3</sup> / <sub>16</sub> "	XHR-2-200-181	XHR-4-200-181	XHR-8-200-181		
23 <sup>1</sup> / <sub>16</sub> "	15"	XHR-2-218-162	XHR-4-218-162	XHR-8-218-162		
23 <sup>1</sup> / <sub>16</sub> "	11 <sup>3</sup> / <sub>16</sub> "	XHR-2-218-181	XHR-4-218-181	XHR-8-218-181		
23 <sup>1</sup> / <sub>16</sub> "	2"	XHR-2-218-200	XHR-4-218-200	XHR-8-218-200		
23"	11 <sup>3</sup> / <sub>16</sub> "	XHR-2-237-181	XHR-4-237-181	XHR-8-237-181		
23"	2"	XHR-2-237-200	XHR-4-237-200	XHR-8-237-200	XHR-14-237-200	
23%"	23 <sup>1</sup> / <sub>16</sub> "	XHR-2-237-218	XHR-4-237-218	XHR-8-237-218	XHR-14-237-218	
2 <sup>1</sup> / <sub>16</sub> "	2"		XHR-4-256-200	XHR-8-256-200	XHR-14-256-200	
2 <sup>1</sup> / <sub>16</sub> "	23 <sup>1</sup> / <sub>16</sub> "		XHR-4-256-218	XHR-8-256-218	XHR-14-256-218	
2 <sup>1</sup> / <sub>16</sub> "	23"		XHR-4-256-237	XHR-8-256-237	XHR-14-256-237	
23"	23 <sup>1</sup> / <sub>16</sub> "		XHR-4-275-218	XHR-8-275-218	XHR-14-275-218	
23"	23"		XHR-4-275-237	XHR-8-275-237	XHR-14-275-237	
23"	2 <sup>1</sup> / <sub>2</sub> "		XHR-4-275-256	XHR-8-275-256	XHR-14-275-256	
21 <sup>5</sup> / <sub>16</sub> "	23"		XHR-4-293-237	XHR-8-293-237	XHR-14-293-237	
21 <sup>5</sup> h <sup>6</sup> "	26"		XHR-4-293-256	XHR-8-293-256	XHR-14-293-256	
21 <sup>5</sup> h <sup>6</sup> "	23"		XHR-4-293-275	XHR-8-293-275	XHR-14-293-275	
31"	2 <sup>1</sup> / <sub>16</sub> "		XHR-4-312-256	XHR-8-312-256	XHR-14-312-256	
31"	23"		XHR-4-312-275	XHR-8-312-275	XHR-14-312-275	
31"	215 <sup>1</sup> / <sub>16</sub> "		XHR-4-312-293	XHR-8-312-293	XHR-14-312-293	
31"	215"			XHR-8-350-293	XHR-14-350-293	
31h"	3"			XHR-8-350-312	XHR-14-350-312	
37k"	31 <sup>1</sup> / <sub>8</sub> "			XHR-8-387-312	XHR-14-387-312	
37"	3"			XHR-8-387-350	XHR-14-387-350	
4 <sup>1</sup> k"	31 <sup>1</sup> / <sub>2</sub> "			XHR-8-412-350	XHR-14-412-350	
41"	37"			XHR-8-412-387	XHR-14-412-387	
45f"	37"					
45"	4 <sup>1</sup> / <sub>4</sub> "					XHR-32-462-425
5"	4%"					XHR-32-500-425
5"	45"					XHR-32-500-462
55"	45%"					XHR-32-531-462
55"	5"					XHR-32-531-500
53"	5"					XHR-32-575-500
53"	53"					XHR-32-575-573
61"	53"					XHR-32-612-573
6"	5 <sup>3</sup> / <sub>4</sub> "					XHR-32-612-575
6 <sup>1</sup> h"	53"					XHR-32-650-575
6 <sup>1</sup> h"	6%"					XHR-32-650-612
67"	6%"					XHR-32-687-612
67"	6%"					XHR-32-687-650
73%	61"					XHR-32-718-650
73h	67/					XHR-32-718-687
77%	67k					XHR-32-744-687
77h	73"					XHR-32-744-718
75%"	6%"					XHR-32-762-687
75%"	77					XHR-32-762-744
77"	7%					XHR-32-787-744
77"	75%"					XHR-32-787-762

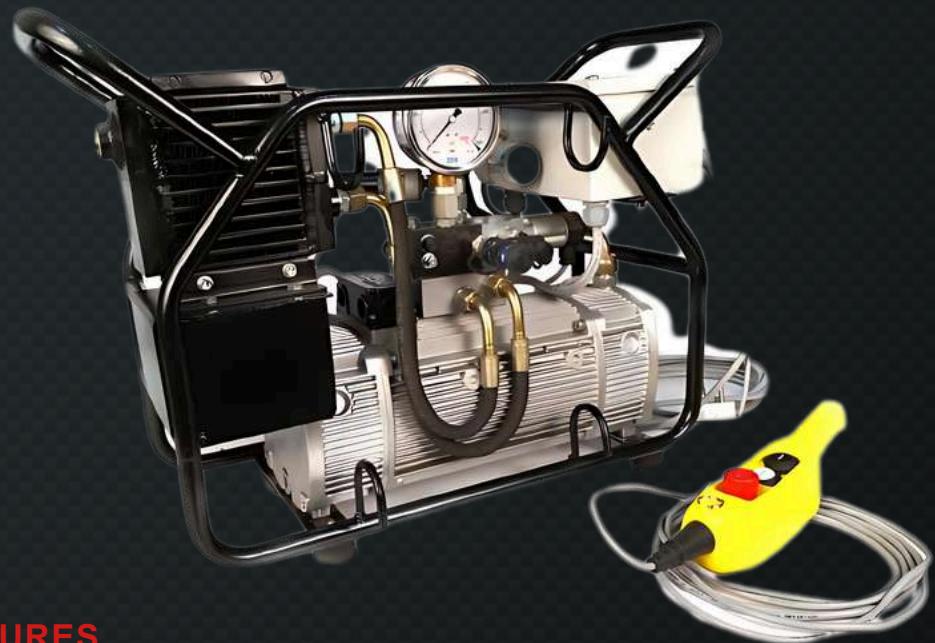
Outside A/F size	Inside A/F size	XTH-2	XTH-4	XTH-8	XTH-14	XTH-32
		Height-32mm	Height-42mm	Height-53mm	Height-64mm	Height-85mm
		Model number	Model number	Model number	Model number	Model number
30	24	XHR-2-30-24				
32	24	XHR-2-32-24				
32	27	XHR-2-32-27				
36	30	XHR-2-36-30				
41	36	XHR-2-41-36	XHR-4-41-36			
46	36	XHR-2-46-36	XHR-4-46-36			
46	41	XHR-2-46-41	XHR-4-46-41	XHR-8-46-41		
50	41	XHR-2-50-41	XHR-4-50-41	XHR-8-50-41		
50	46	XHR-2-50-46	XHR-4-50-46	XHR-8-50-46		
55	41	XHR-2-55-41	XHR-4-55-41	XHR-8-55-41		
55	46	XHR-2-55-46	XHR-4-55-46	XHR-8-55-46		
55	50	XHR-2-55-50	XHR-4-55-50	XHR-8-55-50		
60	46	XHR-2-60-46	XHR-4-60-46	XHR-8-60-46		
60	50		XHR-4-60-50	XHR-8-60-50	XHR-14-60-50	
60	55		XHR-4-60-55	XHR-8-60-55	XHR-14-60-55	
65	50		XHR-4-65-50	XHR-8-65-50	XHR-14-65-50	
65	55		XHR-4-65-55	XHR-8-65-55	XHR-14-65-55	
65	60		XHR-4-65-60	XHR-8-65-60	XHR-14-65-60	
70	55		XHR-4-70-55	XHR-8-70-55	XHR-14-70-55	
70	60		XHR-4-70-60	XHR-8-70-60	XHR-14-70-60	
70	65		XHR-4-70-65	XHR-8-70-65	XHR-14-70-65	
75	60		XHR-4-75-60	XHR-8-75-60	XHR-14-75-60	
75	65		XHR-4-75-65	XHR-8-75-65	XHR-14-75-65	
75	70		XHR-4-75-70	XHR-8-75-70	XHR-14-75-70	
80	65		XHR-4-80-65	XHR-8-80-65	XHR-14-80-65	
80	70		XHR-4-80-70	XHR-8-80-70	XHR-14-80-70	
80	75		XHR-4-80-70	XHR-8-80-75	XHR-14-80-75	
85	70			XHR-8-85-70	XHR-14-85-70	
85	75			XHR-8-85-75	XHR-14-85-75	
85	80			XHR-8-85-80	XHR-14-85-80	
90	75			XHR-8-90-75	XHR-14-90-75	
90	80			XHR-8-90-80	XHR-14-90-80	
90	85			XHR-8-90-85	XHR-14-90-85	
95	80			XHR-8-95-80	XHR-14-95-80	
95	85			XHR-8-95-85	XHR-14-95-85	
95	90			XHR-8-95-90	XHR-14-95-90	
100	85			XHR-8-100-85	XHR-14-100-85	
100	90			XHR-8-100-90	XHR-14-100-90	
100	95			XHR-8-100-95	XHR-14-100-95	
105	90			XHR-8-105-90	XHR-14-105-90	
105	95			XHR-8-105-95	XHR-14-105-95	
105	100			XHR-8-105-100	XHR-14-105-100	
110	95				XHR-14-110-95	XHR-32-110-95
110	100				XHR-14-110-100	XHR-32-110-100
110	105				XHR-14-110-105	XHR-32-110-105
115	100				XHR-14-115-100	XHR-32-115-100
115	105				XHR-14-115-105	XHR-32-115-105
115	110				XHR-14-115-110	XHR-32-115-110
135	110					XHR-32-135-110
135	115					XHR-32-135-110
135	120					XHR-32-135-130
145	110					XHR-32-145-110
145	115					XHR-32-145-115
145	130					XHR-32-145-130
160	130					XHR-32-160-130
160	145					XHR-32-160-145
175	145					XHR-32-175-145
175	160					XHR-32-175-160

# XTORC POWERPACKS FOR TORQUING AND TENSIONING



# XTORC ELECTRIC PUMP FOR HYDRAULIC TORQUE WRENCHES

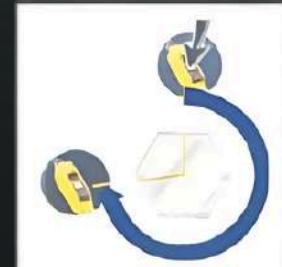
## FULLY AUTOMATIC ELECTRIC POWER PACK



### EQUIPPED WITH SAFETY FEATURES

NOTE: Also available as Conventional Electric Power pack. Pump will be supplied with Remote Control Pendant

#### With Auto Cycle



#### Fully Automatic Power Pack

- Faster and reliable in operations
- High repeatability of the bolting process without pressing the button again and again.



#### Without Auto Cycle

### TECHNICAL SPECIFICATION:

Model No.	XEP-700
Power Rating Flow Rate	1.5 KW
Maximum Pressure	700Bar/10,000 PSI
Flow Rate	9.7LPM @ 70Bar 0.97LPM @ 700 Bar
Capacity	6 Ltr./2 Gallon

#### Temperature Management

- In-built heat exchanger to cool the system
- The unique concept of the high-speed cooling and heat exchanger optimizes cooling for Continuous operation
  - Power pack switches off automatically if temperature rises above 80°C

#### Oil immersed Motor

- Noiseless and vibration free operations Effective temperature equalisation by cooling. motor, pump & oil at the same time

#### PLC Controlled System

- Effectively controlled operations of power packs. If the power pack remains idle continuously more than 3 minutes, it gets switched off automatically.



# AIR OPERATED POWERPACK FOR HYDRAULIC TORQUE WRENCHES

700 Bar, TwoSpeed  
0.9/0.45 - 7.9/0.9cm OilFlow

Model	Pressure 1st-2nd Stage Bar (PSI)	Flow Rate 1st-2nd Stage V/mm (g/min)	Motor	RPM	Reservoir Capacity Liter (Gallon)	Weight Kg (Lbs)
XAP-700	70/700	7.9/0.9	Pneumatic	3000	8.5 (2.24)	36 (79)

## ADVANTAGES OF AIR OPERATE POWER PACKS

- Powered by a rotary air vane, 4HP motor(3,000RPM) Equipped with a filter-lubricator assembly, air muffler, adjustable relief and 10" remote controlled pendant on all models.

High performance two-stage pump provides higher cross-over pressure for faster cycle times and tool operation; 55 cubic inches/minute@10,000 PSI.



## XTORC MODEL: XEP 700 ATEX

### FEATURES:

Hydraulic Pump with Three Phase Electric Motor

ATEX Certified Version CE Ex li 2 G K T3

ATEX Zone-2 Class T3 Gas Group IIA

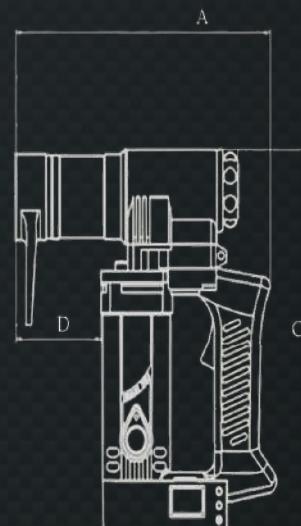
- Three Phase Electric Motor 1.1 kW 440V
- Axial-piston pump mod
- Oil flow 9.4 Litres/min @ 0-70 Bar (2.48 g/min@1015 PSI) and 0.9 Litres/min @ 700 Bar (0.23 g/min@ 10000 PSI)
- 3/2 solenoid valve 24DC and inversion valve
- Pressure regulator on P Line to set the torque value
- Adjustable Relief Valve on return line
- Pressure Gauge DN 100 range 0-1000 Bar (14500 PSI)
- Reservoir Capacity 10 Litres (2.64 Gallon)
- Recommended Hydraulic Oil ISO 32 and above Also available in Air Operated Type (PAE-ATEX)
- The pump includes remote control and electric box



# XTORC ELECTRIC TORQUE WRENCHES



# XET SERIES ELECTRIC TORQUE WRENCH



Model	Torque (Nm)	Direct Hex Available	Speed (RPM)	Weight (kg)	Overall Length (mm)	Overall Width C	Diameter
XET-3	100-300	M10, M12, M16	28	4	240	267	80
XET-5	200-500	M12, M16, M20	20	4.2	271	267	111
XET-7	300-700	M16, M20, M22	18	4.6	221	269	54
XET-9	400-900	M20, M22, M24	16	5.1	238.	275	71
XET-12	500-1200	M22,M24, M27	14	6.3	225	287	50
XET-17	800-1700	M24, M27, M30	12	7	286	287	81
XET-21	1000-2100	M27, M30, M33	10	7.2	274	286	95
XET-25	1100-2500	M30, M33, M36	5	9	283	293	107
XET-35	1700-3500	M33,M36, M42	4.5	15	283	293	107
XET-50	2000-5000	M42, M45, M48	2.5	17	375	301	273

Model	Torque Range (Nm)	Speed (RPM)	Weight (Kg)	Square Drive
XES-3	100-300	28	4	3/4"
XES-5	200-500	20	4.2	3/4"
XES-7	300-700	18	4.6	1"
XES-9	400-900	16	5.1	1"
XES-12	500-1200	14	6.3	1"
XES-17	800-1700	4.5	7.0	1.1/2"
XES-21	1000-2100	5.5	7.2	1.1/2"
XES-25	1000-2500	5	9	1.1/2"
XES-35	1700-3500	4.5	15	1.1/2"
XES-40	2000-4000	3	17	1.1/2"
XES-60	3000-6000	2.5	18	1.1/2"
XES-100	5000-10000	2.5	21	2.1/2"



# XSL SERIES ELECTRIC SHEAR WRENCH

XTORC XSL-Series Light Weight and Compact Shear Wrenches provide consistent, reliable Torque

Tightening and Shearing to the Tension Control Bolts.

XTORC Electric Shear Wrenches are capable of achieving Controllable Torque Range of 5000 Nm with supported Bolt Sizes till M36.

All our Shear Wrenches are calibrated and certified on in-house test bench in our facility.



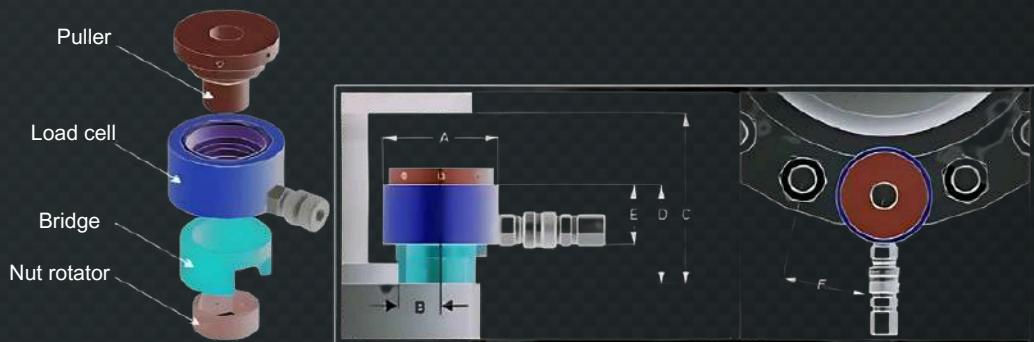
Model No.	Bolt Sizes (mm)	Torque (Nm)	Speed (Rpm)	Weight (Kg)
XSL-16	M12, M16	320	36	3.8
XSL-20	M12, M16, M20	540	24	6
XSL-22	M16, M20, M22	910	20	6.8
XSL-24	M20, M22, M24	1200	14	8
XSL-27	M22, M24, M27	1700	12	8.3
XSL-30	M24, M27, M30	2500	<b>5</b>	10.5
XSL-33	M27, M30, M33	3500	4.5	15
XSL-36	M30, M33, M36	5000	2.5	17



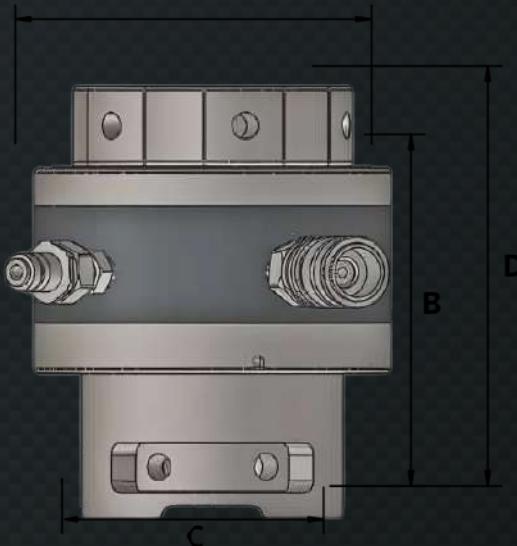
# XTORC BOLT TENSIONERS



# TOP-SIDE BOLT TENSIONER



# SPRING RETURN HYDRAULIC BOLT TENSIONER XST SERIES



Model	BOLT SIZE		Max. Load kN (Ton)	Hyd. Area cm <sup>2</sup> (in <sup>2</sup> )	A mm (in)	B mm (in)	C mm (in)	Clearance Dmm (in)	Weight Kg (lbs)
	Imperial	Metric							
XST 1	3/4"	XST2-1	M20	XST1-3	160 (16.31)	10 (1.56)	66 (2.59)	93 (3.66)	63 (2.48)
XST 2	1"	XST2-1	M24	XST2-3	280 (28.55)	18.67 (2.89)	87 (3.42)	117 (4.60)	68 (2.67)
XST 3	1"	XST3-1	M24	XST3-5	450 (45.88)	30.01 (4.65)	103 (4.05)	117 (4.60) 120 (4.72) 123 (4.84) 126 (4.96)	80 (3.14) 84 (3.30) 89 (3.50) 88 (3.46)
	1-1/8"	XST3-2	M30	XST3-7					
	1-3/8"	XST3-4	M36	XST3-9					
XST 4					660 (67.30)	44.01 (6.82)	118 (4.64)	123 (4.84) 126 (4.96) 130 (8.11) 133 (5.23)	96 (6.77) 96 (3.77) 105 (4.13) 112 (4.40)
	1-3/8"	XST4-2	M36	XST4-6					
	1-5/8"	XST4-4	M42	XST4-8					
XST 5					1000 (101.97)	66.68 (10.33)	140.5 (5.53)	132 (5.19) 135 (5.31) 139 (5.47) 142 (5.59) 145 (5.70)	114 (4.48) 118 (4.64) 114 (4.48) 120 (4.72) 120 (4.72)
	1-5/8"	XST5-2	M42	XST5-7					
	1-7/8""	XST5-4	M48	XST5-9					
XST 6	2"	XST6-1	M52	XST6-5	1500 (152.95)	100.03 (15.50)	175.5 (6.90)	148 (5.82) 154 (6.06) 161 (6.33) 161 (6.33) 167 (6.57)	138 (5.43) 138 (5.43) 153 (6.02) 156 (6.14)
			M60	XST6-7					
	2-3/4"	XST6-4	M68	XST6-9					
XST 7					2500 (254.92)	166.71 (25.84)	219 (8.62)	157 (6.18) 167 (6.57) 171 (6.73) 180 (7.08) 180 (7.08)	294 (11.57) 307 (12.08) 310 (12.20) 320 (12.59)
	3"	XST6-1	M76	XST7-6					
	3-1/4"	XST67-3	M85	XST7-8					
XST 8					3200 (326.30)	213.39 (33.07)	252 (9.92)	186 (7.32) 186 (7.32) 192 (7.55) 199 (7.83)	339 (13.34) 346 (13.62) 352 (13.85) 364 (14.33)
	3-1/4"	XST 8-1	M90	XST 8-4					
	3-3/4"	XST 8-2	M100	XST8-6					32 (70.54)

# MULTI-STAGE HYDRAULIC BOLT TENSIONER XMT SERIES



## Features:

- | II Working Pressure 1500Bar / 21755 psi
- | Fast, simple, accurate, reliable and ideal tightening and bolting tool for Wind Turbine
- | I Small, compact, can impart large tensioning load
- | Durable composite material seal kit
- | Clear over stroke alarming mark
- | Optional gear drive allows the user rotate the nut quickly

Model	Bolt Diameter		The Min. Length of Thread (mm)	The Max. Length of Thread (mm)	Working Storke (mm)	Bolt Distance (mm)	Max. Load (kn)	Outline Diameter (mm)	Min. height (mm)
	(mm)	(in)							
XMT-M30	M30	1-1/8	62	69	7	66	464	73	276
XMT-M33	M33	1-1/4	66	73	9	72	583	78	295
XMT-M36	M36	1-3/8	75	82	9	77	677	84	326
XMT-M39	M39	1-1/2	78	88	10	83	805	90	360
XMT-M42	M42	1-5/8	83	91	10	89	926	96	357
XMT-M45	M45	1-3/4	87	96	10	96	1091	105	371
XMT-M48	M48	1-7/8	93	102	10	102	1231	110	387

Note: Dimensions are subject to change.

## WIND TURBINE FOUNDATION BOLT TENSIONER XWT SERIES

To meet electricity generation targets Wind Turbines must be installed rapidly and these structures require a strong foundation, it is a task which requires a tool that can be relied upon repeatedly.

## FEATURES:



- | Custom Built Tools with Synchronized Tensioner Operation.
- | An Auto retract mechanism makes installation faster.
- | High Tensioning Force available for various thread profiles and a wide range of Bolt Sizes.
- | Compatible with Electrical, Pneumatic and Manually Operated Power Packs.

# XSST HYDRAULIC BOLT TENSIONER

XTORC subsea Bolt tensioners are manufactured to suit the demanding requirements of divers working in harsh subsea environments. We provide a complete range of Subsea Tensioners which incorporate the Split Reaction Nut benefitting divers by saving time and by ensuring the fastest possible reaction nut engagement.



• Cover full range of bolt sizes from 1" to 3.1/2"

Model		Bolt Dia.		Max Load		Hydraulic Area		Stroke	Tool Weight	Tool Dimensions inch					
Imperial	Metric	in	mm	TONF	KN	in <sup>2</sup>	cm <sup>2</sup>	mm	kg (lbs)	a	b	c	d	e	f
1ST:1000	1ST:0024	1"	24	24.58	245	2.53	16.34	30	3.2 (7.05)	3.22	0.98	8.5	4.72	5.66	2.40
1ST:1125	1ST:0027	1.1/8"	27	24.58	245					3.22	0.98	8.5	4.72	5.66	2.51
2ST:1250	2ST:0033	1.1/4"	33	38 38	379.2	3.92	25.32	30	4.8 (10.58)	3.93	1.10	9.44	5.15	6.25	2.95
2ST:1375	2ST:0036	1.3/8"	36	55.4	379.2					3.93	1.10	9.44	5.15	6.25	3.07
3ST:1500	3ST:0039	1.1/2"	39	55.4	552	5.71	36.88	30	6.2 (13.66)	4.40	1.37	9.80	5.23	6.53	3.30
3ST:1625	3ST:0042	1.5/8"	42	75.6	552					4.40	1.37	9.80	5.23	6.537	3.42
4ST:1750	4ST:0045	1.3/4"	45	75.6	753	7.79	50.27	30	8.5 (18.73)	5.03	1.61	10.66	5.51	7	3.75
4ST:1875	4ST:0048	1.7/8"	48	108	753					5.03	1.61	10.66	5.51	7.79	3.85
5ST:2000	5ST:0052	2"	52	108	1076	11.12	71.74	30	12.2 (26.89)	5.82	1.88	11.65	5.98	7.79	4.76
5ST:2250	5ST:0056	2.1/4"	56	165	1076					5.82	1.88	11.65	5.98	8.81	4.56
6ST:2500	6ST:0064	2.1/2"	64	165	1644	17	109.68	30	19.2 (42.32)	6.92	2.28	13.18	6.61	8.81	5.31
6ST:2750	6ST:0072	2.3/4"	72	253.4	1644					6.92	2.28	13.18	6.61	10.23	5.55
7ST:3000	7ST:0076	3"	76	253.4	2525	26.1	168.70	30	29 (63.93)	8.50	2.08	14.68	7.55	10.23	6.37
7ST:3500	7ST:0090	3.1/2"	90		2525					8.50	2.08	14.68	7.55		6.81

Note: Dimensions are subject to change..

# HYDRAULIC POWER PACK FOR TENSIONERS



## AIR OPERATED HYDRAULIC POWER PACK FOR TENSIONERS



The Air Operated Pumps are designed considering the safety, reliability and maximum operator comfort. All the pressure connections are facing away from operator.

### **Model No.: XAP 1500**

Consumption of Free Air 800 Litres per minute (28 Standard cubic feet per minute)

Air Pressure Required 4 - 7 Bar (60 - 100 psi) Finish Pressure Gauge Dual Scale 0 - 2000 Bar (0-29000 psi)

Working Pressure 1500 Bar

## HAND PUMPS FOR BOLT TENSIONERS



Model No.: XHP-1500 Maximum Working Pressure: 1600 Bar Tanks Size: 1.8 / 2.4 Ltr. The XTORC Two-Stage Hand Pumps come with Standard Pressure Gauge; this gives the user precise and safe control over the work carried out. The gauge is directly mounted onto the pump and is well protected by the specially designed pump lever. - Return connections on all pumps - Robust design - Aluminum Tank - Easy and simple maintenance

# ULTRA HIGH PRESSURE ELECTRIC PUMP FOR TENSIONING APPLICATIONS



Two Stage piston pump, compact, robust and reliable

1.1 kw electric motor, powerful, big flow

Safety and easy operating control line

When pressure under the set pressure 1 Bar/ 14.5 psi, pressure switch start automatically and pressure will be raise to set value

Single and double acting available, apply to various operation

High performance radiator ensure continuous operation



Integral Hydraulic System, Compact and Robust



Dual Pistons, no gear pump, stable pressure

Model	Reservoir (L)	Motor (kW)	Supply *	Max. Working Pressure	Size (mm)	Control Line (m)	Output Flow (L/min)	Weight (kg)	Mode of Action
XEP 1500	7.6	1.1	220V/50Hz/single phase	2000 bar/ 29000 psi	375X300X410	6	2@ 50 bar/725 psi 0.3@ 2000 bar/29000 psi	20	Single Acting
XEP 1500D									Double Acting

\*Supply: Voltage and frequency can be demanded by customer

# ACCESORIES



# XTORC FLANGE SPREADERS HYDRAULIC VERTICAL LIFTING WEDGE XVWL

XTORC Hydraulic Vertical Lifting Wedge XVWL has been developed as an easy to use or a cost effective way to find solutions to heavy lifting where minimum clearance is available. It will lift objects vertically where an access gap of 3/8" (9.5mm) or more is available. The HVWL-10 will lift an object fast, with a secure and fast lifting force of 16 Tons per tool.

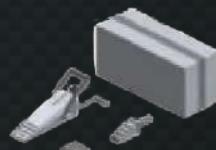
## Special Features:

- | Access gap of only 3/8" (9.5mm) needed.
- | 3/4" (19.0mm) of vertical lift available from each step
- | Max. height of 50mm on 4th step
- | Automatic spring return retraction Interlocking first step ensures safe hold
- | No slippage due to locking Will lift in a straight vertical place



## Kit Options:

**MINI KIT**  
I1 x Hydraulic Vertical Lifting Wedge Assembly  
Safety Block  
I1 x Stepped Block  
I1 x Instruction Manual



## STANDARD KIT

I1 x Hydraulic Vertical Lifting Wedge Assembly  
I1 x 10,000 psi (700 Bar) Two Stage Hydraulic Hand Pump  
I1 x 10,000 psi (700 Bar) Hydraulic Hose Length 6 feet  
I1 x Safety Block  
I1 x Stepped Block  
I1 x Instruction Manual I1 x Carry Case



# HYDRAULIC SPREADING WEDGE XWFS

The Spreading Wedge has been developed as the simple cost effective solution for flange spreading

## Special Features:

- | Only requires an access gap 1/4" (6mm)
- | Robust light weight tool-just 7.2 kg (16 lbs)
- | 10,000 psi (700 Bar) generates 14.0 Tons spreading force
- | Automatic Spring Return
- | Locking at first step ensures no slippage increased safety



## Kit Options:

**MINI KIT** I1 x Hydraulic Spreading Wedge Assembly  
Safety Block  
I1 x Instruction Manual I1 x Carry Case



## STEPPED BLOCK ACCESSORY

I2 x Safety Block  
I2 x CSK M6 x 12mm  
ICountersunk Screws



## STANDARD KIT

I1 x Hydraulic Spreading Wedge Assembly I1 x 10,000 psi (700 Bar) Two Stage Hydraulic Hand Pump  
I1 x 10,000 psi (700 Bar) Hydraulic Hose I1 x Safety Block  
I1 x Instruction Manual I1 x Carry Case  
IGross Weight: 17 kg.



## MAXI KIT

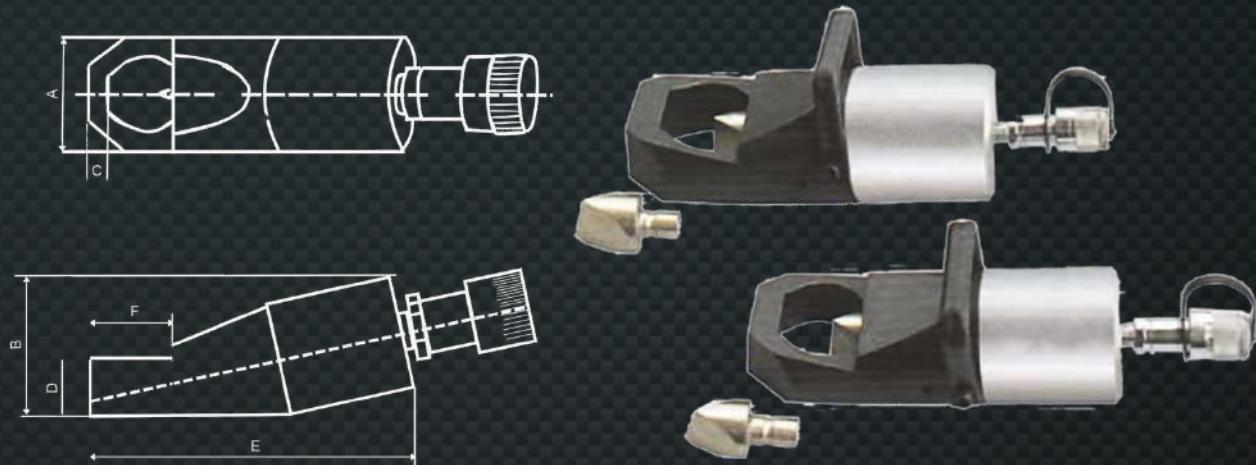
I2 x Hydraulic Spreading Wedge Assembly I1 x 10,000 psi (700 Bar) Two Stage Hydraulic Hand Pump  
I2 x 10,000 psi (700 Bar) Hydraulic Hoses  
I2 x Safety Block I1 x Instruction Manual I1 x Carry Case I1 x 10,000 psi Twin Valve Manifold IGross Weight: 28kg.



## XTORC ANGLE NUT SPLITTER

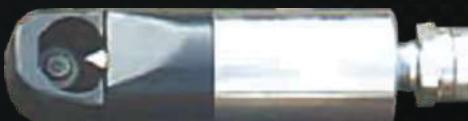
XTORC's Light Weight Hydraulic Nut Splitters are used in applications that involve corrosion; it can be used to remove corroded or seized nuts fast and safely. The light weight option helps the user to apply the product to lower sized bolts.

XTORC's offers Weight Hydraulic Nut Splitters for a range of Hex size 0.37" to 2.95". Our product is designed for operator comfort that fits tight spaces and it cuts through the hardest of nuts.



Model	Hex Size in (mm)	Thread Size in (mm)	A in(mm)	B in(mm)	C in(mm)	D in(mm)	E in(mm)	F in(mm)	Weight lba(kg)	Replacement Chisel Model Nos.
STANDARD										
XNSL-5	0.37"-0.75" (10-19)	M6-M12	1.57" (40)	2.04" (52)	0.31" (8)	0.79" (20)	5.11" (130)	1.18" (30)	2 (1)	TNSC-5
XNSL-10	0.75"-0.94" (19-24)	M12-M16	2.12" (54)	2.64" (67)	0.47" (12)	0.94" (24)	6.41" (163)	1.41" (41)	4 (2)	TNSC-10
XNSL-15	0.94"-1.26" (24-32)	M16-M22	2.52" (64)	3.11" (79)	0.51" (13)	1.18" (30)	7.36" (187)	2.04" (52)	6 (3)	TNSC-15
XNSL-20	1.26"-1.61" (32-41)	M22-M27	3.07" (78)	3.70" (94)	0.78" (20)	1.46" (37)	8.62" (219)	2.72" (69)	10 (4.5)	TNSC-20
XNSL-35	1.61"-1.97" (41-50)	M27-M33	3.74" (95)	4.45" (113)	0.83" (21)	1.77" (45)	10.43" (265)	3.07" (78)	21 (9.6)	TNSC-35
XNSL-50	1.97"-2.36" (50-60)	M33-M39	4.17" (106)	5.04" (128)	0.98" (25)	2.12" (54)	11.69" (297)	3.58" (91)	29 (13)	TNSC-50
XNSL-90	2.36"-2.95" (60-75)	M39-M48	6.14" (156)	7.28" (185)	1.06" (27)	2.95" (75)	14.05" (357)	4.33" (110)	75 (34)	TNSC-90

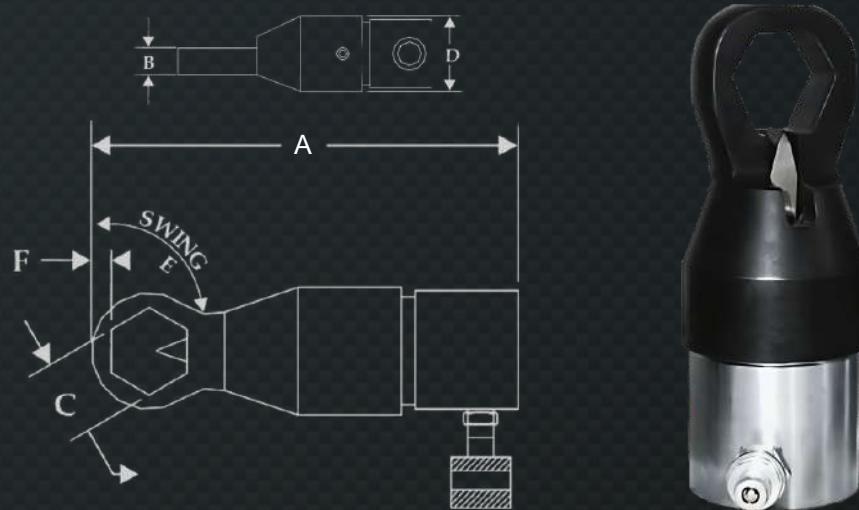
Higher capacity and customized solutions on request Specifications  
are subject to change due to continual improvement



### Application

- I    The fast, sure and safe method to cut and remove seized nuts
- II   Compact and ergonomic angled head design  
Heavy duty cutting tool, can be re-ground

## XTORC HEAVY DUTY HYDRAULIC NUT SPLITTERS



Model	Stud Diameter in(mm)	Nut A/F in(mm)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	Weight lbs(kg)
Standard									
XNSH 105	7/16"-7/8" (11-22)	5/8"-17/16" (16-36)	11" (271)	1.05" (38)	1.49" (38)	4.13" (105)	60	0.39" (10)	20 (9)
XNSH 200	7/8"-11/4" (22-31)	15/16"-2" (33-50)	11.29" (287)	1.05" (38)	2.12" (54)	4.25" (108)	45	0.51" (13)	21 (10)
XNSH 204	11/4"-11/2" (32-38)	17/8"-23/8" (47-60)	15.16" (385)	21/4" (57)	2.52" (64)	6.45" (164)	30	0.55" (14)	71 (32)
XNSH 210	13/8"-13/4" (39-44)	21/16"-23/4" (52-70)	16.10" (398)	21/4" (57)	2.87" (73)	6.45" (164)	30	0.70" (18)	72 (33)
XNSH 308	1.3/4"-2.1/4" (45-57)	2.5/8"-3.1/2" (70-89)	17.75" (460)	3" (77.8)	3.89" (99)	8.42" (214)	30	0.75" (19)	158 (72)
XNSH 314	2"-2.1/2" (50-64)	3.1/8"-3.7/8" (79-98)	18" (488)	3.12" (79.4)	4.25" (108)	8.42" (214)	30	0.86" (22.2)	163 (74)
XNSH 404	2.1/2"-2.3/4" (64-70)	3.3/4"-4.1/4" (95-108)	22.75	3.75" (95.3)	4.64" (118)	9.88" (251)	60	1.14" (28.6)	251 (114)
XNSH 500	3"-3.1/4" (76-83)	4.1/2"-5" (114-127)	18" (488)	4.12" (104.8)	5.39" (137)	9.88" (251)	60	1.14" (28.6)	256 (116)
XNSH 506	3.1/4"-3.1/2" (83-89)	4.7/8"-5.3/8" (124-136)	23.5" (598)	4.12" (104.8)	5.86" (149)	9.88" (251)	60	1.14" (28.6)	262 (119)

**Nut Splitter is supplied complete with:**

- || Hydraulic Cylinder
  - || Housing
  - || Chisel
- Set of Allen Keys Spacer Set  
Packed in a Rugged Steel Tool Box

### **Application:**

- || Designed for Operator comfort Removes corroded nuts faster Removes frozen nuts safely
- Fits tight spaces
- Cuts through the hardest nuts

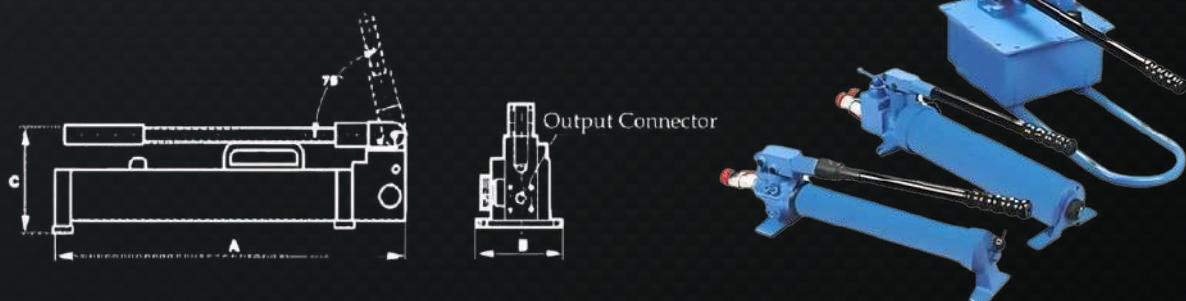
## POWERPACK FOR CYLINDERS

Reservoir Capacity: 28 - 55 litres  
 Flow at Rated Pressure: 1-2.21/min  
 Motor Size: 1.5 - 3 kw  
 Max. Operating Pressure: 700 bar



Model No.	Oil Flow		Pressure (bar)		Power	Oil Capacity	Input Power*	Weight	Dimensions
	High Pressure	Low Pressure	High Pressure	Low Pressure					
	(l/min)	(l/min)	(bar)	(bar)					
EL 10	1	6.3	700	70	1.5	28	220V-440V 3Ph/50Hz	50	565*385*620
	1	7.5	700	70	1.5	28	220V-480V 3Ph/60Hz	50	565*385*620
EL 15	1.5	7	700	70	2.2	28	220V-440V 3Ph/50Hz	55	565*385*620
	1.5	8	700	70	2.2	28	220V-480V 3Ph/60Hz	55	565*385*620
EL 25	2.2	9.3	700	70	3	55	220V-440V 3Ph/50Hz	74	605*525*790
	2.2	8.6	700	70	3	55	200V-480V 3Ph/60Hz	74	605*525*790

## HAND PUMP FOR CYLINDERS



Pump Type	Usable Oil Capacity (cm^3)	Model Number	Pressure Rating (Bar)		Output Oil Volume Each Stroke (cm^3)		Handle Force (N)	Dimensions (mm)			Output Adapter	Weight (Kg)
			1st Stage	2st Stage	1st Stage	2st Stage						
Double Speed	655	HH 7-0.7	25	700	15	2.6	300	520	133	119	NPT 3/8"	5.3
	1440	HH 7-1	25	700	32	2.5		577	120	170		6.3
	2200	HH 7-2	25	700	16	2.5		539	146	170		8
	3240	HH 7-3	25	700	32	2.5		582	200	170		10
	5860	HH 7-4	25	700	32	2.5		667	250	172		14.5
	7500	HH 7-8	14	700	126	4.8		742	308	270		27
	1440	HH 16-1	15	1600	32	2.5	375	577	120	170	G 1/4"	6.3
	3240	HH 16-3	15	1600	32	2.5		577	140	190		10

## HYDRAULIC CYLINDERS

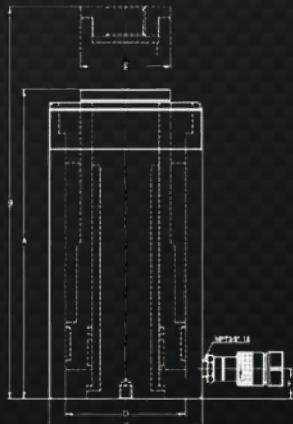
XTORC's Cylinders operate with a maximum pressure of 700 Bar. With Single and Double Acting ranges.

XTORC's Cylinders show versatility in operational requirements and fulfils the need of the user.

All Single Acting Cylinders are spring return and Double Acting Cylinders are oil return.



### SINGLE-ACTING HOLLOW HYDRAULIC CYLINDER

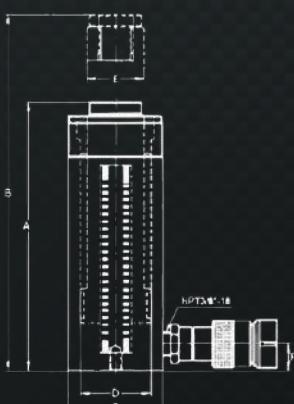


Cylinder Capacity ton (kN)	Stroke (mm)	Model Number	Oil Capacity (cm³)	Collapsed Height	Extend Height	Outside Dia.	Cylinder Bore Dia.	Plunger Dia. (Thread)	Weight (Kg)
				A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	
13 (125)	42	SAHH 130-42	76	130	172	76	55	35.5	3.4
	76	SAHH 130-76	138	184	260	76	55	35.5	5.2
20 (215)	49	SAHH 200-49	174	162	211	101	77	54.5	8.2
	155	SAHH 200-155	550	306	461	101	77	54.5	15
30 (326)	64	SAHH 300-64	307	180	244	115	90	64.5	11.5
	155	SAHH 300-155	744	330	485	115	90	64.5	21.5
60 (576)	76	SAHH 600-76	640	247	323	159	125	94.5	28.2
	153	SAHH 600-153	1278	323	476	159	125	94.5	35.5
95 (931)	76	SAHH 1000-76	1028	254	330	212	165	125	63.5

## SINGLE ACTING HYDRAULIC CYLINDERS



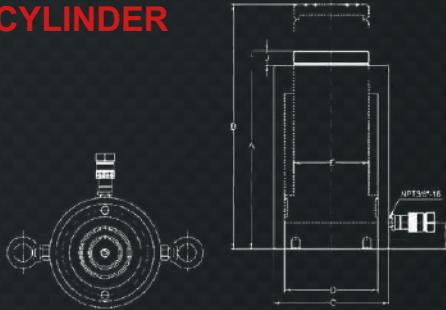
Capacity: 5-95 ton  
Stroke: 25-362 mm  
Max. Pressure: 700 bar



Cylinder Capacity	Stroke	Model Number	Oil Capacity (cm³)	Collapsed Height	Extend Height	Outside Dia.	Cylinder Bore Dia.	Plunger Dia. (Thread)	Weight
				A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	
5 (45)	25	SAH 5-25	18	110	135	40	30	25	1
	76	SAH 5-76	54	165	241	40	30	25	1.6
	127	SAH 5-127	90	215	342	40	30	25	2
	177	SAH 5-177	125	273	450	40	30	25	2.6
	232	SAH 5-232	164	323	555	40	30	25	3.1
10 (101)	54	SAH 10-54	86	121	175	59	45	35	2.3
	105	SAH 10-105	167	171	276	59	45	35	3
	156	SAH 10-156	248	247	403	59	45	35	4.1
	203	SAH 10-203	323	298	501	59	45	35	5.8
	257	SAH 10-257	409	349	606	59	45	35	6.6
	304	SAH 10-304	483	400	707	59	45	35	7.5
	356	SAH 10-356	566	450	806	59	45	35	8.3
15 (142)	25	SAH 15-25	53	124	149	70	52	42	3.5
	51	SAH 15-51	108	149	200	70	52	42	4
	101	SAH 15-101	214	200	301	70	52	42	5
	152	SAH 15-152	323	271	423	70	52	42	7
	203	SAH 15-203	431	322	525	70	52	42	8
	254	SAH 15-254	539	373	627	70	52	42	9
	305	SAH 15-305	647	423	728	70	52	42	10
	356	SAH 15-356	756	474	830	70	52	42	11
25 (232)	26	SAH 25-26	86	139	165	85	65	56	6
	50	SAH 25-50	166	165	215	85	65	56	7
	102	SAH 25-102	338	215	317	85	65	56	8
	158	SAH 25-158	524	273	431	85	65	56	10
	210	SAH 25-210	696	323	533	85	65	56	12
	261	SAH 25-261	866	374	635	85	65	56	14
	311	SAH 25-311	1031	425	736	85	65	56	15
	362	SAH 25-362	1201	476	838	85	65	56	17
30 (295)	50	SAH 30-50	209	228	278	101	73	60	13
	100	SAH 30-100	418	278	378	101	73	60	16
	209	SAH 30-209	874	387	596	101	73	60	19
	300	SAH 30-300	1255	478	778	101	73	60	27
50 (498)	51	SAH 50-51	361	176	206	127	95	80	19
	101	SAH 50-101	716	227	307	127	95	80	19
	159	SAH 50-159	1126	282	422	127	95	80	23
	337	SAH 50-337	2388	460	797	127	95	80	37
75 (718)	156	SAH 75-156	1620	285	441	150	115	100	33
	333	SAH 75-333	3457	492	825	150	115	100	54
95 (933)	168	SAH 100-168	2229	357	525	177	130	120	59
	260	SAH 100-260	3449	449	709	177	130	120	72

# SINGLE ACTING HIGH TONNAGE HYDRAULIC CYLINDER

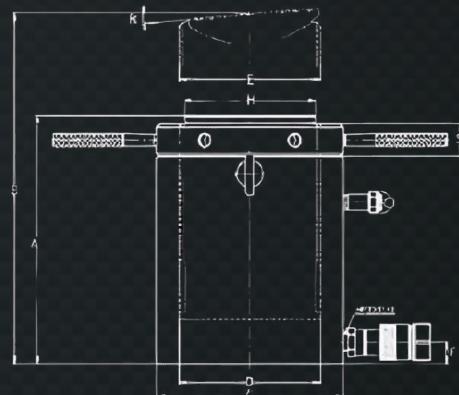
Capacity: 50-800 ton  
Stroke: 50-300 mm  
Max. Pressure: 700 bar



Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extend Height	Outside Dia.	Cylinder Bore Dia.	Plunger Dia.	Base to Advance Port	Weight
ton	(mm)		(cm²)	(cm³)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Kg)
50	50	STH 50-50	78.5	392	188	238	140	100	70	41	21.5
	100	STH 50-100	78.5	784	238	338	140	100	70	41	26
	150	STH 50-150	78.5	1176	288	438	140	100	70	41	31
	200	STH 50-200	78.5	1568	338	538	140	100	70	41	35
	300	STH 50-300	78.5	2352	438	738	140	100	70	41	44
100	50	STH 100-50	153.9	770	216	266	180	140	100	54	42
	100	STH 100-100	153.9	1540	266	366	180	140	100	54	49
	150	STH 100-150	153.9	2310	316	466	180	140	100	54	56
	200	STH 100-200	153.9	3080	366	566	180	140	100	54	63
	300	STH 100-300	153.9	4620	466	766	180	140	100	54	70
150	50	STH 150-50	201	1005	224	274	210	160	112	58	44
	100	STH 150-100	201	2010	274	374	210	160	112	58	57
	150	STH 150-150	201	3015	324	474	210	160	112	58	70
	200	STH 150-200	201	4020	374	574	210	160	112	58	83
	300	STH 150-300	201	6030	474	774	210	160	112	58	109
200	50	STH 200-50	314	1570	246	296	250	200	150	64	84
	150	STH 200-150	314	4712	346	496	250	200	150	64	118
	300	STH 200-300	314	9423	496	796	250	200	150	64	152
320	50	STH 300-50	490.6	2453	277	327	315	250	180	74	155
	150	STH 300-150	490.6	7359	377	527	315	250	180	74	195
	300	STH 300-300	490.6	14718	527	827	315	250	180	74	255
400	50	STH 400-50	572.3	2861	305	355	355	270	220	83	240
	150	STH 400-150	572.3	8583	405	555	355	270	220	83	310
	300	STH 400-300	572.3	17169	555	855	355	270	220	83	415
500	50	STH 500-50	803.8	4019	325	375	395	320	250	93	285
	150	STH 500-150	803.8	12057	425	575	395	320	250	93	353
	300	STH 500-300	803.8	24114	575	875	395	320	250	93	455
630	50	STH 600-50	1017.4	5087	386	436	450	360	280	115	487
	150	STH 600-150	1017.4	15261	486	636	450	360	280	115	579
	300	STH 600-300	1017.4	30522	636	936	450	360	280	115	717
800	50	STH 800-50	1256	6280	427	477	550	400	320	113	712
	150	STH 800-150	1256	18840	527	677	550	400	320	113	860
	300	STH 800-300	1256	37698	677	977	550	400	320	113	1082

## SINGLE ACTING LOW PROFILE LOCK-NUT HYDRAULIC CYLINDER

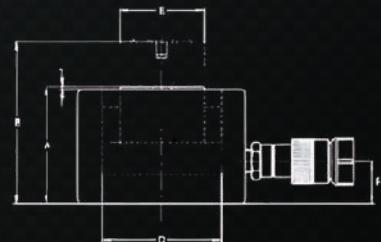
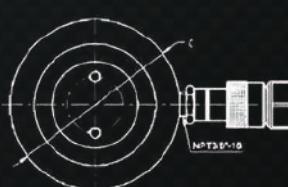
Capacity: 60-520 ton  
Stroke: 45-50 mm  
Max. Pressure: 700 bar



Cylinder Capacity	Stroke	Model Number	Oil Capacity	Collapsed Height	Extended height	Outside Dia.	Cylinder bore Dia.	Plunger Dia. (Thread)	Base to advance port	Saddle Dia.	Saddle Prostition from plgr.	Saddle Max. tilt angle	Plunger Dia.	Weight
				A	B	C	D	E	F	H	J	R	S	
				(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
60 (606)	50	SLLH 60-50	432	125	175	140	106	Tr104x4	19	96	6	5	28	15
100 (1027)	50	SLLH 100-50	734	137	187	180	137	Tr136x6	21	126	8	5	31	27
160 (1619)	45	SLLH 160-45	1040	148	193	224	172	Tr171x6	27	160	9	5	40	45.5
200 (1999)	45	SLLH 200-45	1285	155	200	245	190.7	Tr190x6	30	180	10	5	43	57
260 (2567)	45	SLLH 250-45	1650	159	204	275	216	Tr215x6	32	200	11	5	44	74
400 (3916)	45	SLLH 400-45	2517	178	223	350	270	Tr266x6	41	251	11	4	55	134
520 (5114)	45	SLLH 500-45	3287	192	237	400	305	Tr304x6	48	289	10	3	62	188

## SINGLE ACTING LOW PROFILE HYDRAULIC CYLINDER

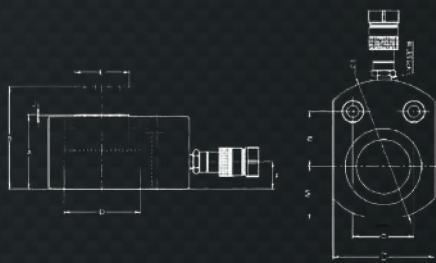
Capacity: 10-150 ton  
Stroke: 11-80 mm  
Max. Pressure: 700 bar



Cylinder Capacity	Stroke	Model Number	Oil Capacity	Collapsed Height	Extended height	Outside Dia.	Cylinder bore Dia.	Plunger Dia. (Thread)	Base to advance port	Saddle Dia.	Saddle Prostition from plgr.	Plunger Max. tilt angle	Plunger to mounting hole	Weight
				A	B	C	D	E	F	J	M	N		
				(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
10 (101)	38	SLH 10-38	60	88	126	78	45	35	23	2				4
20 (201)	45	SLH 20-45	140	97	142	96	63	50	23	2				6.9
30 (295)	64	SLH 30-64	290	117	181	109	76	60	23	2				9.8
50 (435)	60	SLH 50-60	471	120	180	233	200	80	24	2				13.3
75 (718)	50	SLH 75-50	584	116	166	157	122	100	21	2				
100 (887)	57	SLH 100-57	877	141	198	176	140	112	31	2				24.5
150 (1386)	51	SLH 150-51	1184	141	192	215	172	145	28	2				42
150 (1386)	80	SLH 150-80	1860	170	250	215	172	145	28	2				50

## SINGLE ACTING LOW FLAT HYDRAULIC CYLINDER

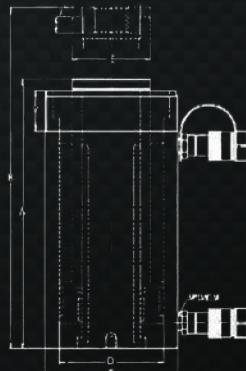
Capacity: 10-150 ton  
Stroke: 11-80 mm  
Max. Pressure: 700 bar



Cylinder Capacity	Stroke	Model Number	Oil Capacity	Collapsed Height	Extended height	Outside Dia.	Cylinder bore Dia.	Plunger Dia. (Thread)	Base to advance port	Saddle Prostrection from plgr.	Saddle Max. tilt angle	Plunger to mounting hole	Weight	
				A	B	C	D	E	F	J	M	N	(kg)	
ton	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)	
10 (101)	11	SLFH 10-11		18	44	55	83x60	45	35	23	1	31.5	34	1.4
20 (201)	12	SLFH 20-12		37	52	64	102x80	63	50	23	1	41	39	2.2
30 (295)	13	SLFH 30-13		59	58	71	117x97	76	60	23	1	48.5	47	4.2
50 (435)	16	SLFH 50-16		125	67	83	150x125	100	80	23	1	63	60	7.4
75 (718)	16	SLFH 75-16		187	79	96	177x152	122	100	23	1	76.5	73	12.7
100 (887)	16	SLFH 100-16		246	87	103	203x179	140	112	23	1	89.5	84	15.5
150 (1386)	16	SLFH 150-16		371	95	111	236x212	172	145	23	1	106	92	28.7

## DOUBLE ACTING HOLLOW HYDRAULIC CYLINDER

Capacity: 30-145 ton  
Stroke: 38-258 mm  
Max. Pressure: 700 bar



Cylinder Capacity	Stroke	Model Number	Max. Cylinder Capacity		Oil Capacity		Collapsed height	Extended height	Outside Dia.	Cylinder Bore Dia.	Plunger Dia. (Thread)	Weight
			Advance	Retract	Advance	Retract						
			(kN)	(kN)	(cm³)	(cm³)						
30	178	DHH 300-178	326	210	855	550	330	508	115	90	64.5	21
	258	DHH 300-258	326	210	1240	798	431	689	115	90	64.5	27
60	89	DHH 600-89	576	360	749	468	247	336	159	125	94.5	28
	166	DHH 600-166	576	360	1398	873	323	489	159	125	94.5	35
	257	DHH 600-257	576	360	2146	1352	438	695	159	125	94.5	45
95	38	DHH 1000-38	931	627	517	345	165	203	212	165	125	33
	76	DHH 1000-76	931	627	1028	692	254	330	212	165	125	61
	153	DHH 1000-153	931	627	2070	1394	342	495	212	165	125	79
	257	DHH 1000-257	931	627	3477	2341	460	717	212	165	125	106
145	203	DHH 1500-203	1429	749	4191	2198	359	562	247	190.5	150	111

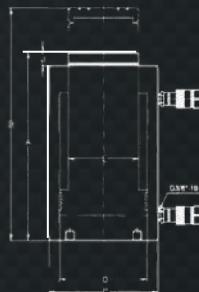
## DOUBLE ACTING HIGH TONNAGE HYDRAULIC CYLINDER



Capacity: 50-800 ton

Stroke: 50-300 mm

Max. Pressure: 700 bar



Cylinder Capacity ton (kN)	Stroke (mm)	Model Number	Max. Cylinder Capacity		Oil Capacity		Collapsed height (mm)	Extended height (mm)	Outside Dia. (mm)	Cylinder Bore Dia. (mm)	Plunger Dia. (Thread) E	Weight (kg)
			Advance	Retract	Advance	Retract						
			(kN)	(cm³)	(cm³)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
50	50	DHT50-50	500	255	392	200	188	238	140	100	70	21.5
	100	DHT50-100	500	255	784	400	238	338	140	100	70	26
	150	DHT50-150	500	255	1176	600	288	438	140	100	70	31
	200	DHT50-200	500	255	1563	800	338	538	140	100	70	35
	300	DHT50-300	500	255	2352	1200	438	738	140	100	70	44
100	50	DHT100-50	1000	490	770	377	216	266	180	140	100	42
	100	DHT100-100	1000	490	1540	754	266	366	180	140	100	49
	150	DHT100-150	1000	490	2310	1131	316	466	180	140	100	56
	200	DHT100-200	1000	490	3080	1508	366	566	180	140	100	63
	300	DHT100-300	1000	490	4620	2262	466	766	180	140	100	70
150	50	DHT150-50	1390	709	1005	512	224	274	210	160	112	44
	100	DHT150-100	1390	709	2010	1025	274	374	210	160	112	57
	150	DHT150-150	1390	709	3015	1537	324	474	210	160	112	70
	200	DHT150-200	1390	709	4020	2050	374	574	210	160	112	83
	300	DHT150-300	1390	709	6030	3075	474	774	210	160	112	109
200	100	DHT200-100	2000	875	3141	1374	296	396	250	200	150	109
	150	DHT200-150	2000	875	4712	2061	346	496	250	200	150	121
	200	DHT200-200	2000	875	6282	2748	396	596	250	200	150	132
	300	DHT200-300	2000	875	9423	4122	496	796	250	200	150	155
300	100	DHT300-100	3193	1537	4906	2363	327	427	315	250	180	180
	200	DHT300-200	3193	1537	9812	4726	427	627	315	250	180	220
	300	DHT300-300	3193	1537	14718	7089	527	827	315	250	180	260
400	100	DHT400-100	3919	1317	5723	1924	355	455	355	270	220	255
	200	DHT400-200	3919	1317	11446	3848	455	655	355	270	220	310
	300	DHT400-300	3919	1317	17169	5772	555	855	355	270	220	375
500	100	DHT500-100	5000	1948	8038	3133	375	475	395	320	250	326
	200	DHT500-200	5000	1948	16076	6266	475	675	395	320	250	394
	300	DHT500-300	5000	1948	24114	9399	575	875	395	320	250	462
600	100	DHT600-100	6300	2488	10174	4019	436	536	450	360	280	542
	200	DHT600-200	6300	2488	20348	8038	536	736	450	360	280	634
	300	DHT600-300	6300	2488	30522	12057	636	936	450	360	280	726
800	100	DHT800-100	8000	2880	12566	4522	477	577	550	400	320	796
	200	DHT800-200	8000	2880	25132	9044	577	777	550	400	320	944
	300	DHT800-300	8000	2880	37698	13566	677	977	550	400	320	1092

Nominal Size		Flange Size															2500		
		150			300			600			900			1500					
Inches	Metric	No. of Bolts	Bolt dia inches	Bolt dia mm	No. of Bolts	Bolt dia inches	Bolt dia mm	No. of Bolts	Bolt dia inches	Bolt dia mm	No. of Bolts	Bolt dia inches	Bolt dia mm	No. of Bolts	Bolt dia mm	No. of Bolts	Bolt dia inches	Bolt dia mm	
1/2	15	4	1/2	14	4	1/2	14	4	1/2	14	4	3/4	20	4	3/4	20	4	34	20
3/4	20	4	1/2	14	4	5/8	16	4	5/8	16	4	3/4	20	4	3/4	20	4	34	20
1	25	4	1/2	14	4	5/8	16	4	5/8	16	4	7/8	24	4	7/8	24	4	7/8	24
1.1/4	32	4	1/2	14	4	5/8	16	4	5/8	16	4	7/8	24	4	7/8	24	4	1	27
1.1/2	40	4	1/2	14	4	3/4	20	4	3/4	20	4	1	27	4	1	27	4	1	27
2	50	4	5/8	16	8	5/8	16	8	5/8	20	8	7/8	24	8	7/8	24	8	1	27
2.1/2	65	4	5/8	16	8	3/4	20	8	3/4	20	8	1	27	1	27	8	1	27	30
3	80	4	5/8	16	8	3/4	20	8	3/4	20	8	7/8	24	8	1.1/8	30	8	1.1/4	33
3.1/2	90	8	5/8	20	8	3/4	20	8	7/8	22									
4	100	8	5/8	20	8	3/4	20	8	7/8	24	8	1.1/4	30	8	1.1/4	33	8	1.1/2	39
5	125	8	3/4	20	6	3/4	20	8	1	27	8	1.1/4	33	8	1.1/2	39	8	1.3/4	45
6	150	8	3/4	20	12	3/4	24	12	1	27	12	1.1/8	30	12	1.3/8	36	8	2	52
8	200	8	3/4	24	12	7/8	27	12	1.1/8	30	12	1.3/8	36	12	1.5/8	42	12	2	52
10	250	12	7/8	24	16	1	30	16	1.1/4	33	16	1.3/8	35	12	1.7/8	48	12	2.1/2	64
12	300	12	7/8	27	16	1.1/8	30	20	1.1/4	33	20	1.3/8	36	12	2	52	12	2.3/4	70
14	350	12	1	27	20	1.1/8	33	20	1.3/8	36	20	1.1/2	39	16	2.1/4	56			
16	400	16	1	30	20	1.1/4	33	20	1.1/2	39	20	1.5/8	42	16	2.1/2	54			
18	450	16	1.1/8	30	24	1.1/4	33	20	1.5/8	42	20	1.7/8	48	16	2.3/4	70			
20	500	20	1.1/8	33	24	1.1/4	33	24	1.5/8	42	20	2	52	16	3	76			
24	600	20	1.1/4	33	24	1.1/2	42	24	1.7/8	48	20	2.1/2	64	16	3.1/2	90			
26	650	24	1.1/2	33	28	1.1/4	42	24	1.3/4	48	20	2.3/4	70						
28	700	28	1.1/2	33	28	1.1/2	45	28	2	52	16	3	76						
30	750	28	1.1/2	33	28	1.3/4	40	28	2	52	20	3	76						
32	800	28	1.1/2	39	28	1.1/4	48	28	2.1/2	56	20	3.1/2	85						
34	850	32	1.1/2	39	28	1.1/2	48	28	2.1/2	56	20	3.1/2	90						
36	900	32	1.1/2	39	32	2	52	28	2.1/2	64	20	3.1/2	90						

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