HYDRASTARK OFFICIAL ENGINEERING CATALOG (VECTOR PDF)

700 BAR HYDRAULIC CYLINDERS & JACKS CATALOG

Single-Acting, Double-Acting, Hollow Plunger, Mechanical Lock-Nut, Low-Height & Aluminum Cylinders

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700 Bar Cylinder & Pump Calculator ->

OEM Cross-Reference Matrix ->

FACTORY DIRECT
HANGZHOU, CHINA

- Since 2008 OEM/ODM
- 700 to 4,000 Bar Rated
- ISO 9001 & CE Certified
- 100% Proof-Load Tested

Web: www.hydrastark.com
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INCLUDED PRODUCT SERIES DIRECTORY (20 SERIES - CLICK ANY ITEM TO OPEN LIVE DATASHEET):

01. HSC Series Single-Acting General Purpose Cylinders
02. HSCU Series Ultra-Thin 1500 Bar Cylinders
03. HSCF Series Super-Flat Jack Cylinders
04. HSCL Series Low-Height Cylinders
05. HSCT Series Multi-Stage Telescopic Cylinders
06. HSCH Series Single-Acting Hollow Plunger Cylinders
07. HDCH Series Double-Acting Hollow Plunger Cylinders
08. HDC Series Double-Acting General Purpose Cylinders
09. HSC-LN Series Single-Acting Lock Nut Cylinders
10. HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders
11. HDC-LN Series Double-Acting Lock Nut Cylinders
12. HSC-LP Series Low-Height Pancake Lock-Nut Cylinders
13. HSCX Series Single-Acting High-Tonnage Cylinders
14. HSCP Series Single-Acting Hydraulic Pull Cylinders
15. HDCX Series Double-Acting High-Tonnage Cylinders
16. HSCA Series Lightweight Aluminum Single-Acting Cylinders
17. HDCA Series Lightweight Aluminum Double-Acting Cylinders
18. HSCHA Series Lightweight Aluminum Hollow Cylinders
19. HDCHA Series Lightweight Aluminum Double-Acting Hollow Cylinders
20. HSC-LNA Series Lightweight Aluminum Lock-Nut Cylinders

GENERAL PURPOSE & LOW HEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RC SERIES EQUIVALENT

HSC Series Single-Acting General Purpose Cylinders

Single-acting spring-return general-purpose hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for industrial lifting, pressing, production fixturing, and structural maintenance across 5 to 100 Ton capacities.



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RATED CAPACITY
5 - 100 Metric Tons

OPERATING PRESSURE
700 Bar (10,000 PSI)

ACTION & RETURN
Single-Acting, Spring Return

STROKE RANGE
16 - 362 mm (0.63 - 14.25 in)

COLLAR THREADS
Standard Body Threads & Base Mounting Holes

SURFACE PROTECTION
Hard Chrome-Plated Plunger & Baked Enamel Body

Model	Capacity @10,000 PSI (700 BAR) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Collar Thread (C)	Collar Thread Length (X) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Piston Inner Thread (O)	Inner Thread Length (P) [mm]	Base Mounting Hole			Weight [kg]
													Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]	
HSC-50	5	16	7.1	11.4	42	58	-	-	59x42	25	-	-	*	*	*	0.8
HSC-51	5	25	7.1	17.8	110	135	1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	1.0
HSC-53	5	75	7.1	53.3	165	240	1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	1.3
HSC-55	5	127	7.1	90.2	215	342	1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	1.7
HSC-57	5	177	7.1	125.7	273	450	1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	2.1
HSC-59	5	232	7.1	164.7	323	555	1.1/2" - 16 UN	28	38	25	3/4" - 16 UNF	16	25	1/4" - 20 UN	14	2.3
HSC-101	10	26	14.5	37.7	89	115	2.1/4" - 14 UN	26	57	38	**	-	39	5/16" - 18 UN	12	1.7
HSC-102	10	54	14.5	78.3	121	175	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	2.2
HSC-104	10	105	14.5	152.25	171	276	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	2.9
HSC-106	10	156	14.5	226.2	247	403	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	4.1
HSC-108	10	203	14.5	294.35	298	501	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	4.9
HSC-1010	10	257	14.5	372.65	349	606	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	5.6
HSC-1012	10	304	14.5	440.8	400	704	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	6.4
HSC-1014	10	356	14.5	516.2	450	806	2.1/4" - 14 UN	26	57	38	1" - 8 UNC	19	39	5/16" - 18 UN	12	7.2
HSC-151	15	25	21.2	53	124	149	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	3.2
HSC-152	15	51	21.2	108.12	149	200	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	3.7
HSC-154	15	101	21.2	214.12	200	301	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	5.0
HSC-156	15	152	21.2	322.24	271	423	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	6.5
HSC-158	15	203	21.2	430.36	322	525	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	7.7
HSC-1510	15	254	21.2	538.48	373	627	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	8.7
HSC-1512	15	305	21.2	646.6	423	728	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	9.8
HSC-1514	15	356	21.2	754.72	474	830	2.3/4" - 16 UN	35	69	42	1" - 8 UNC	25	47	3/8" - 16 UN	12	10.8
HSC-251	25	26	33.2	86.32	139	165	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	5.3
HSC-252	25	50	33.2	166	165	215	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	6.2
HSC-254	25	102	33.2	338.64	215	317	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	8.0
HSC-256	25	158	33.2	524.56	273	431	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	10.3
HSC-258	25	210	33.2	697.2	323	533	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	12.1
HSC-2510	25	261	33.2	866.52	374	635	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	14.1

HSC Series Single-Acting General Purpose Cylinders - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Model	Capacity @10,000 PSI (700 BAR) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Collar Thread (C)	Collar Thread Length (X) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Piston Inner Thread (O)	Inner Thread Length (P) [mm]	Base Mounting Hole			Weight [kg]
													Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]	
HSC-2512	25	311	33.2	1032.52	425	736	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	15.5
HSC-2514	25	362	33.2	1201.84	476	838	3.5/16" - 12 UN	54	86	57	1.1/2" - 16 UN	26	58	1/2" - 13 UN	19	17.4
HSC-308	30	209	44.2	923.78	387	596	3.5/16" - 12 UN	50	102	57	1.1/2" - 16 UN	26	-	-	-	21.5
HSC-502	50	51	70.9	361.59	176	227	5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	14.4
HSC-504	50	102	70.9	723.18	227	329	5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	18.1
HSC-506	50	159	70.9	1127.31	282	441	5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	22.2
HSC-5013	50	337	70.9	2389.33	460	797	5" - 12 UN	55	127	80	-	-	95	1/2" - 13 UN	19	34.3
HSC-756	75	156	103.9	1620.84	285	441	5.3/4" - 12 UN	45	146	95	-	-	-	-	-	30.5
HSC-7513	75	333	103.9	3459.87	492	825	5.3/4" - 12 UN	45	146	95	-	-	-	-	-	50.3
HSC-1002	100	50	133	676	219	270	6.7/8" - 12 UN	44	178	105	-	-	139	3/4" - 10 UN	25	36.7
HSC-1004	100	102	133	1353.9	291	393	6.7/8" - 12 UN	44	178	105	-	-	139	3/4" - 10 UN	25	48.4
HSC-1006	100	168	133	2234.4	357	525	6.7/8" - 12 UN	44	178	105	-	-	139	3/4" - 10 UN	25	59.7
HSC-10010	100	260	133	3458	449	709	6.7/8" - 12 UN	44	178	105	-	-	139	3/4" - 10 UN	25	72.9

Engineering Note: * HSC-50 features a non-circular 59 x 42 mm flanged base with two Ø5.6 mm (0.22") mounting through-holes (Ø8.9 mm counterbore, 4.6 mm deep, 25 mm from coupler end). ** HSC-101 plunger end incorporates #10-24 UNC x 6 mm mounting thread holes instead of a center inner thread.

GENERAL PURPOSE & LOW HEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC 1500 BAR UHP CYLINDERS EQUIVALENT

HSCU Series Ultra-Thin 1500 Bar Cylinders

Single-acting load-return ultra-thin hydraulic cylinders rated for 1500 Bar (20,000 PSI), engineered for extreme low-clearance jacking, bridge segment leveling, and heavy structural lifting across 56 to 207 Ton capacities.



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RATED CAPACITY	OPERATING PRESSURE	ACTION & RETURN
56 - 207 Metric Tons	1500 Bar (20,000 PSI)	Single-Acting, Load Return

STROKE RANGE	TILTING HEAD	BODY MATERIAL
10 - 15 mm	Standard 3° Self-Aligning Balance Angle Head	Monobloc Forged Alloy Steel with Special Anti-Wear Coating

Model	Capacity @20,000 PSI (1500 bar) [Metric Ton]	Stroke [mm]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Balance Angle [°]	Weight [kg]
HSCU-001	56	10	37	30	40	118	3	3.0
HSCU-002	56	15	51	35	50	118	3	3.6
HSCU-003	100	10	66	30	40	146	3	4.0
HSCU-004	100	15	91	35	50	146	3	4.8
HSCU-005	150	10	102	30	40	174	3	5.3
HSCU-006	150	15	141	35	50	174	3	6.2
HSCU-007	207	10	135	30	40	189	3	6.4
HSCU-008	207	15	187	35	50	189	3	7.5

GENERAL PURPOSE & LOW HEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RSM SERIES EQUIVALENT

HSCF Series Super-Flat Jack Cylinders

Single-acting spring-return super-flat hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for extremely confined clearances, machinery leveling, and structural separation across 5 to 150 Ton capacities.



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RATED CAPACITY	OPERATING PRESSURE	ACTION & RETURN
5 - 150 Metric Tons	700 Bar (10,000 PSI)	Single-Acting, Spring Return

STROKE RANGE	SADDLE TYPE	SURFACE PROTECTION
6 - 16 mm (Ultra-Low Closed Height)	Integral Grooved Plunger End (Slip Prevention)	Hard Chrome Bore & Bronze Overlay Bearings

Model	Capacity @10,000 PSI (700 BAR) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Top Fixtures Hole Size				Weight [kg]
									M [mm]	L [mm]	V [mm]	U [mm]	
HSCF-50	5	6	7.1	4.3	33	39	59x42	25	25	21	5.5	28.5	1
HSCF-100	10	10	14.5	16	42	55	83x56	38	34	28	7.1	36.5	1.4
HSCF-200	20	11	28.6	31	51	63	101x76	51	39.6	40	10	49	3.1
HSCF-300	30	13	42	55	58.5	71	117x95	66	44.5	48	10	52	4.5
HSCF-500	50	16	62.1	99	67	83	140x114	70	54	57	11	66.5	6.8
HSCF-750	75	16	102.7	164	79	95	165x139	83	66	69	13.5	76	11.4
HSCF-1000	100	16	126.8	203	86	102	178x153	92	74.5	76	13.5	76	14.5
HSCF-1500	150	16	198.1	317	100	116	215x190	115	82	95.5	13.5	117	26.3

HSCL Series Low-Height Cylinders

Single-acting spring-return low-height hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for confined-space structural jacking, machinery leveling, and bridge bearing maintenance across 10 to 100 Ton capacities.



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RATED CAPACITY **10 - 100 Metric Tons**	OPERATING PRESSURE **700 Bar (10,000 PSI)**	ACTION & RETURN **Single-Acting, Spring Return**
STROKE RANGE **38 - 62 mm**	SADDLE CONFIGURATION **Standard Grooved Plunger End (Optional Tilt Saddles Available)**	SURFACE PROTECTION **Hard Chrome-Plated Plunger with Baked Enamel Body**

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Base Mounting Hole			Weight [Kg]
									Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]	
HSCL-101	10	38	14.4	55	88	126	69	38	26	M4	8	4
HSCL-201	20	44	28.6	126	98	142	92	51	39.5	M5	8	5
HSCL-302	30	62	41.9	260	117	179	101	66	39.5	M5	8	7
HSCL-502	50	60	62.1	373	122	182	124	70	39.5	M5	8	11
HSCL-1002	100	57	126.9	723	141	198	165	92	55.5	M8	10	23

GENERAL PURPOSE & LOW HEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RLS SERIES EQUIVALENT

HSCT Series Multi-Stage Telescopic Cylinders

Single-acting load-return multi-stage telescopic flat hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for extended stroke lifting in extremely confined overhead clearances without repetitive shimming across 10 to 50 Metric Ton capacities.



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RATED CAPACITY	OPERATING PRESSURE	ACTION & RETURN
10 - 50 Metric Tons	700 Bar (10,000 PSI)	Single-Acting, Load Return
STROKE RANGE	**COLLAPSED HEIGHT**	**PLUNGER & SURFACE**
25 - 64 mm (Multi-Stage Telescopic)	42 - 66 mm (Ultra-Low Flat Profile)	Sequential Multi-Tier Plunger with Hardened Coating

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Weight [kg]
HSCT-100	10	25	22	42	67	82×55	1.5
HSCT-200	20	26	41	51	77	101×76	2.4
HSCT-300	30	53	58	58	111	117×95	4.5
HSCT-500	50	64	113	66	130	140×114	7.0

HOLLOW PLUNGER CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RCH SERIES EQUIVALENT

HSCH Series Single-Acting Hollow Plunger Cylinders

Single-acting spring-return hollow plunger cylinders rated for 700 Bar (10,000 PSI), engineered for bolt tensioning, tendon pulling, bushing extraction, and load testing across 13 to 100 Ton capacities.



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RATED CAPACITY	OPERATING PRESSURE	ACTION & RETURN
13 - 100 Metric Tons	700 Bar (10,000 PSI)	Single-Acting, Spring Return

CENTER HOLE DIAMETER	BASE PROTECTION	SURFACE PROTECTION
Ø 19.6 - 79.0 mm (Rods & Cables)	Bolt-On Removable Steel Base Plate Standard	Hard Chrome-Plated Plunger & Baked Enamel Finish

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Collar Thread (C)	Collar Thread Length (X) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Piston Inner Thread (O)	Thread Length (P) [mm]	Base Mounting Holes			Center Hole Diam. (Y) [mm]	Weight [kg]
													Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]		
HSCH-120	13	8	18.4	14.7	55	63	2 3/4"-16	30	70	35	3/4"-16 UN	16	50.8	5/16"-18	8.9	19.6	1.7
HSCH-121	13	42	18.4	77.3	120	162	2 3/4"-16	30	70	35	-	-	-	-	-	19.6	3.0
HSCH-123	13	76	18.4	140	184	260	2 3/4"-16	30	70	35	-	-	50.8	5/16"-18	8.9	19.6	4.7
HSCH-202	20	49	32.8	161	162	211	3 7/8"-12	38	99	55	1 9/16"-16 UN	19	82.5	3/8"-16	9.4	26.9	8.0
HSCH-206	20	155	32.8	508	306	461	3 7/8"-12	38	99	55	1 9/16"-16 UN	19	82.5	3/8"-16	9.4	26.9	14.5
HSCH-302	30	64	48.0	307	179	243	4 1/2"-12	42	115	65	1 13/16"-16 UN	22	92.2	3/8"-16	14.0	33.3	11.5
HSCH-306	30	155	48.0	744	330	485	4 1/2"-12	42	115	65	1 13/16"-16 UN	22	92.2	3/8"-16	14.0	33.3	23.0
HSCH-603	60	76	87.4	664	247	323	6 1/4"-12	48	159	92	2 3/4"-16 UN	19	130.3	1/2"-13	14.0	53.8	30.0
HSCH-606	60	153	87.4	1337	323	476	6 1/4"-12	48	159	92	2 3/4"-16 UN	19	130.3	1/2"-13	14.0	53.8	37.5
HSCH-1003	100	76	135.2	1028	254	330	8 3/8"-12	60	212	127	4"-16 UN	25	177.8	5/8"-11	20.1	79.0	62.0

HSCH Series Single-Acting Hollow Plunger Cylinders - Optional Hollow Threaded Saddles

Saddle Model	Compatible Cylinders	Saddle Outer Diam. (A) [in]	Internal Thread (B)	Protrusion (C) [in]	External Plunger Thread (D)
SH-2015	HSCH-202, HSCH-206	2.09	1" - 8 UNC	0.35	1-9/16" - 16 UN
SH-3015	HSCH-302, HSCH-306	2.48	1-1/4" - 7 UN	0.35	1-13/16" - 16 UN
SH-5016	HSCH-603, HSCH-606	3.58	1-5/8" - 5-1/2" UN	0.47	2-3/4" - 16 UN
SH-10016	HSCH-1003	4.96	2-1/2" - 8 UN	0.51	4" - 16 UN

Engineering Note: All dimensions in inches unless otherwise noted.

HOLLOW PLUNGER CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RRH SERIES EQUIVALENT

HDCH Series Double-Acting Hollow Plunger Cylinders

Double-acting hydraulic-return hollow plunger cylinders rated for 700 Bar (10,000 PSI), engineered for high-tonnage tensioning, cable pulling, structural load testing, and bidirectional pushing across 30 to 150 Ton capacities.



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RATED CAPACITY	STROKE RANGE	RETRACTION MECHANISM
30 - 150 METRIC TONS	38 - 258 MM (1.5 - 10.15 IN)	DOUBLE-ACTING, HYDRAULIC RETURN
CENTER BORE DIAMETER	**CYLINDER CONSTRUCTION**	**MAX WORKING PRESSURE**
Ø 33.3 - 79.2 MM (FULL-LENGTH PASS-THROUGH)	HIGH-STRENGTH ALLOY STEEL WITH HARD CHROME PLUNGER	700 BAR (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Max. Capacity (Ton)		Effective Area (cm²)		Oil Capacity (cm³)		Closed Height (A) [mm]	Extended Height (B) [mm]	Collar Thread (C)	Collar Thread Length (X) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Piston Inner Thread (O)	Thread Length (P) [mm]	Base Mounting Hole			Center Hole Diam. (Y) [mm]	Weight [Kg]
			Push [Ton]	Pull [Ton]	Push [cm2]	Pull [cm2]	Push [cm3]	Pull [cm3]									Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]		
HDCH-307	30	178	33	22	47.7	32.4	849	577	330	508	4.1/2" - 12 UN	42	114	65	1 13/16" -16	22	92	3/8" - 16 UNC	15.5	33.3	21
HDCH-3010	30	258	33	22	47.7	32.4	1231	836	431	689	4.1/2" - 12 UN	42	114	65	1 13/16" -16	22	92	3/8" - 16 UNC	15.5	33.3	27
HDCH-603	60	89	60	39	87.4	56.2	778	481	246	335	6.1/4" - 12 UNC	48	159	92	2 3/4"-16	19	130	1/2" - 13 UNC	14	53.8	28
HDCH-606	60	166	60	39	87.4	56.2	1451	891	323	489	6.1/4" - 12 UNC	48	159	92	2 3/4"-16	19	130	1/2" - 13 UNC	14	53.8	35
HDCH-6010	60	257	60	39	87.4	56.2	2246	1388	438	695	6.1/4" - 12 UNC	48	159	92	2 3/4"-16	25	130	1/2" - 13 UNC	14	53.8	45
HDCH-1001	95	38	93	60	135.2	87.1	514	331	165	203	-	-	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	33
HDCH-1003	95	76	93	60	135.2	87.1	1027	662	254	330	8.3/8" - 12 UN	60	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	61
HDCH-1006	95	153	93	60	135.2	87.1	2069	1333	342	495	8.3/8" - 12 UN	60	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	79
HDCH-10010	95	257	93	60	135.2	87.1	3475	2239	460	717	8.3/8" - 12 UN	60	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	107
HDCH-1508	150	203	136	70	196.8	102	3995	2074	349	552	-	-	247	152.5	4 1/4"-12	25	-	-	-	79.2	111

HDCH Series Double-Acting Hollow Plunger Cylinders - Optional Hollow Threaded Saddles

Saddle Model	Compatible Cylinders	Saddle Outer Diam. (A) [in]	Internal Thread (B)	Protrusion (C) [in]	External Plunger Thread (D)
SH-3015	HDCH-307, HDCH-3010	2.48	1-1/4" - 7 UN	0.35	1-13/16" - 16 UN
SH-5016	HDCH-603, HDCH-606, HDCH-6010	3.58	1-5/8" - 5-1/2" UN	0.47	2-3/4" - 16 UN
SH-10016	HDCH-1001, HDCH-1003, HDCH-1006, HDCH-10010	4.96	2-1/2" - 8 UN	0.51	4" - 16 UN

Engineering Note: All dimensions in inches unless otherwise noted.

HDC Series Double-Acting General Purpose Cylinders

Double-acting hydraulic-return general-purpose cylinders rated for 700 Bar (10,000 PSI), engineered for high-cycle industrial lifting, bridge jacking, hydraulic pressing, and structural maintenance across 10 to 300 Ton capacities.



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RATED CAPACITY	STROKE RANGE	OPERATING MECHANISM
10 - 300 METRIC TONS	57 - 511 MM (2.24 - 20.12 IN)	DOUBLE-ACTING, HYDRAULIC RETURN
CYLINDER CONSTRUCTION	**MOUNTING INTERFACE**	**MAX WORKING PRESSURE**
HIGH-STRENGTH ALLOY STEEL WITH HARD CHROME PLUNGER	COLLAR THREADS & BASE MOUNTING HOLES	700 BAR (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Max. Capacity (Ton)		Effective Area (cm²)		Oil Capacity (cm³)		Closed Height (A) [mm]	Extended Height (B) [mm]	Collar Thread (C)	Collar Thread Length (X) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Base Mounting Hole			Weight [Kg]
			Push [Ton]	Pull [Ton]	Push [cm2]	Pull [cm2]	Push [cm3]	Pull [cm3]							Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]	
HDC-1010	10	254	10	3	14.5	4.9	369	124.5	409	663	2.1/4" - 14 UN	26	73	35	-	-	-	12
HDC-1012	10	305	10	3	14.5	4.9	443	149.5	457	762	2.1/4" - 14 UN	26	73	35	-	-	-	14
HDC-308	30	209	31	6	44.2	20.4	923.8	426.4	387	596	3.5/16" - 12 UN	49	102	55	-	-	-	18
HDC-3014	30	368	31	6	44.2	20.4	1626.6	769	549	917	3.5/16" - 12 UN	49	102	55	-	-	-	29
HDC-506	50	156	49	14	70.8	20.6	1104.5	321.4	331	487	5" - 12 UN	44	127	80	-	-	-	30
HDC-5013	50	334	49	14	70.8	20.6	2364.7	688	509	843	5" - 12 UN	44	127	80	-	-	-	52
HDC-5020	50	511	49	14	70.8	20.6	3617.9	1052.7	733	1244	5" - 12 UN	44	127	80	76	1/2" - 13 UNC	25	68
HDC-756	75	156	73	23	103.8	33	1619.3	514.8	347	503	5.3/4" - 12 UN	38	146	95	-	-	-	41
HDC-7513	75	333	73	23	103.8	33	3456.5	1098.9	525	858	5.3/4" - 12 UN	38	146	95	-	-	-	68
HDC-1006	95	168	91	43	132.7	61.8	2229.4	1038.2	357	525	6.7/8" - 12 UN	50	177	95	139	3/4" - 10 UNC	25	61
HDC-10013	95	333	91	43	132.7	61.8	4418.9	2057.9	524	857	6.7/8" - 12 UN	50	177	95	139	3/4" - 10 UNC	25	93
HDC-10018	95	460	91	43	132.7	61.8	6104.2	2842.8	687	1147	6.7/8" - 12 UN	50	177	95	139	3/4" - 10 UNC	25	117
HDC-1502	140	57	140	68	201	97.1	1145.7	553.5	196	253	8" - 12 UN	-	204	115	-	-	-	49
HDC-1506	140	156	140	68	201	97.1	3135.6	1514.8	385	541	8" - 12 UN	55	204	115	158	3/4" - 16 UNF	28	93
HDC-15013	140	333	140	68	201	97.1	6693.3	3233.4	582	915	8" - 12 UN	55	204	115	158	3/4" - 16 UNF	28	124
HDC-2006	200	152	198	98	283.4	140.3	5526.3	2132.6	430	582	-	-	247	135	127	1" - 8 UNC	25	147
HDC-20013	200	330	198	98	283.4	140.3	11998	4629.9	608	938	9.3/4" - 12 UN	54	247	135	127	1" - 8 UNC	25	199
HDC-3006	300	153	316	164	452.2	238.4	6918.7	3647.5	485	638	12.1/4" - 12 UN	58	311	165	158	1.1/4" - 7 UNC	44	200

HDC Series Double-Acting General Purpose Cylinders - Optional Tilt Saddles

Saddle Model	Compatible Cylinders
ST-50	HDC-308, HDC-3014
ST-100	HDC-506, HDC-5013, HDC-5020, HDC-756, HDC-7513

Engineering Note: Self-aligning tilt saddles reduce eccentric side-load wear up to 5 degrees.

LOCK NUT & LONG STROKE CYLINDERS | OEM CROSS-REFERENCE: ENERPAC CLL SERIES EQUIVALENT

HSC-LN Series Single-Acting Lock Nut Cylinders

Single-acting load-return lock nut hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for sustained mechanical load holding, bridge lifting, and structural maintenance across 50 to 1,000 Ton capacities.



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CAPACITY RANGE	STROKE RANGE	RATED PRESSURE
50 - 1000 Metric Ton	50 - 300 mm	700 Bar (10,000 PSI)

LOAD HOLDING	ACTING TYPE	BODY & FINISH
Mechanical Lock Nut Sustained Holding	Single-Acting, Load Return	Forged Alloy Steel with Hard Chrome

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Cyl. Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Locknut Thickness (C) [mm]	Outside Diam. (D) [mm]	Saddle Diam. (E) [mm]	Piston Diam. (F)	Weight [Kg]
HSC-LN-502	50	50	70.8	354	164	214	36	125	71	Tr 95×4	15
HSC-LN-504	50	100	70.8	708	214	314	36	125	71	Tr 95×4	20
HSC-LN-506	50	150	70.8	1062	264	414	36	125	71	Tr 95×4	25
HSC-LN-508	50	200	70.8	1416	314	514	36	125	71	Tr 95×4	30
HSC-LN-5010	50	250	70.8	1770	364	614	36	125	71	Tr 95×4	35
HSC-LN-5012	50	300	70.8	2124	414	714	36	125	71	Tr 95×4	40
HSC-LN-1002	100	50	132.7	663.5	187	237	44	165	71	Tr 130×6	30
HSC-LN-1004	100	100	132.7	1327	237	337	44	165	71	Tr 130×6	39
HSC-LN-1006	100	150	132.7	1990.5	287	437	44	165	71	Tr 130×6	48
HSC-LN-1008	100	200	132.7	2654	337	537	44	165	71	Tr 130×6	56
HSC-LN-10010	100	250	132.7	3317.5	387	637	44	165	71	Tr 130×6	64
HSC-LN-10012	100	300	132.7	3981	437	737	44	165	71	Tr 130×6	73
HSC-LN-1502	150	50	201	1005	209	259	44	205	130	Tr 160×6	53
HSC-LN-1504	150	100	201	2010	259	359	44	205	130	Tr 160×6	66
HSC-LN-1506	150	150	201	3015	309	459	44	205	130	Tr 160×6	78
HSC-LN-1508	150	200	201	4020	359	559	44	205	130	Tr 160×6	92
HSC-LN-15010	150	250	201	5025	409	659	44	205	130	Tr 160×6	104
HSC-LN-15012	150	300	201	6030	459	759	44	205	130	Tr 160×6	117
HSC-LN-2002	200	50	268.8	1417	243	293	50	235	130	Tr 185×6	83
HSC-LN-2006	200	150	268.8	4251	343	493	50	235	130	Tr 185×6	118
HSC-LN-20012	200	250	268.8	7085	443	693	50	235	130	Tr 185×6	153
HSC-LN-2502	250	50	362.9	1814.5	249	299	56	275	150	Tr 215×6	116
HSC-LN-2506	250	150	362.9	5443.5	349	499	56	275	150	Tr 215×6	163
HSC-LN-25012	250	250	362.9	9072.5	449	699	56	275	150	Tr 215×6	210
HSC-LN-3002	300	50	452.2	2261	295	345	60	310	139	Tr 240×6	173
HSC-LN-3006	300	150	452.2	6783	395	545	60	310	139	Tr 240×6	233
HSC-LN-30012	300	300	452.2	11305	545	845	60	310	139	Tr 240×6	293
HSC-LN-4002	400	50	572	2905	335	385	70	350	159	Tr 265×6	251

HSC-LN Series Single-Acting Lock Nut Cylinders - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Cyl. Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Locknut Thickness (C) [mm]	Outside Diam. (D) [mm]	Saddle Diam. (E) [mm]	Piston Diam. (F)	Weight [Kg]
HSC-LN-4006	400	150	572	8715	435	585	70	350	159	Tr 265×6	327
HSC-LN-40012	400	300	572	14525	585	885	70	350	159	Tr 265×6	403
HSC-LN-5002	500	50	730.2	3651	375	425	80	400	179	Tr 305×6	367
HSC-LN-5006	500	150	730.2	10953	475	625	80	400	179	Tr 305×6	467
HSC-LN-50012	500	300	730.2	18255	625	925	80	400	179	Tr 305×6	568
HSC-LN-6002	600	50	854.9	4274.5	395	445	85	430	194	Tr 330×6	447
HSC-LN-6006	600	150	854.9	12823.5	495	645	85	430	194	Tr 330×6	563
HSC-LN-60012	600	300	854.9	21372.5	645	945	85	430	194	Tr 330×6	680
HSC-LN-8002	800	50	1163.6	5818	455	505	100	505	224	Tr 385×6	711
HSC-LN-8006	800	150	1163.6	17454	555	705	100	505	224	Tr 385×6	871
HSC-LN-80012	800	300	1163.6	29090	705	1005	100	505	224	Tr 385×6	1031
HSC-LN-10002	1000	50	1451.5	7257.5	495	545	110	560	249	Tr 430×6	951
HSC-LN-10006	1000	150	1451.5	21772.5	595	745	110	560	249	Tr 430×6	1143
HSC-LN-100012	1000	300	1451.5	36287.5	745	1045	110	560	249	Tr 430×6	1335

HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders

Single-acting load-return high-tonnage lock nut hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for sustained mechanical load holding, bridge deck jacking, and heavy structural leveling across 50 to 1,000 Ton capacities.



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RATED CAPACITY	STROKE RANGE	ACTING TYPE
50 - 1,000 Metric Tons	50 - 300 mm (1.97 - 11.81 in)	Single-Acting, Load-Return with Mechanical Lock Nut

SIDE-LOAD RESISTANCE	BEARING & PROTECTION	MAX WORKING PRESSURE
Up to 10% Side Load (Up to 90% of Max. Stroke)	Replaceable Plunger Bearings & Overflow Limiter Port	700 Bar (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Cyl. Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Cylinder Bore Diam. (E) [mm]	Plunger Diam. (F)	Standard Saddle Diam. (J) [mm]	Locknut Height (S) [mm]	Weight [Kg]
HSC-LNH502	50	50	78.5	393	164	214	130	100	Tr 100 x 4	71	25	17
HSC-LNH504	50	100	78.5	785	214	314	130	100	Tr 100 x 4	71	25	22
HSC-LNH506	50	150	78.5	1178	264	414	130	100	Tr 100 x 4	71	25	27
HSC-LNH508	50	200	78.5	1571	314	514	130	100	Tr 100 x 4	71	25	32
HSC-LNH5010	50	250	78.5	1963	364	614	130	100	Tr 100 x 4	71	25	38
HSC-LNH5012	50	300	78.5	2356	414	714	130	100	Tr 100 x 4	71	25	43
HSC-LNH1002	100	50	143.1	716	187	237	175	135	Tr 135 x 6	71	33	35
HSC-LNH1004	100	100	143.1	1431	237	337	175	135	Tr 135 x 6	71	33	44
HSC-LNH1006	100	150	143.1	2147	287	437	175	135	Tr 135 x 6	71	33	54
HSC-LNH1008	100	200	143.1	2863	337	537	175	135	Tr 135 x 6	71	33	63
HSC-LNH10010	100	250	143.1	3578	387	637	175	135	Tr 135 x 6	71	33	73
HSC-LNH10012	100	300	143.1	4294	437	737	175	135	Tr 135 x 6	71	33	82
HSC-LNH1502	150	50	213.8	1069	209	259	215	165	Tr 165 x 6	130	40	59
HSC-LNH1504	150	100	213.8	2138	259	359	215	165	Tr 165 x 6	130	40	73
HSC-LNH1506	150	150	213.8	3207	309	459	215	165	Tr 165 x 6	130	40	87
HSC-LNH1508	150	200	213.8	4276	359	559	215	165	Tr 165 x 6	130	40	102
HSC-LNH15010	150	250	213.8	5346	409	659	215	165	Tr 165 x 6	130	40	116
HSC-LNH15012	150	300	213.8	6415	459	759	215	165	Tr 165 x 6	130	40	130
HSC-LNH2002	200	50	283.5	1418	238	288	250	190	Tr 190 x 6	130	45	85
HSC-LNH2004	200	100	283.5	2835	288	388	250	190	Tr 190 x 6	130	45	105
HSC-LNH2006	200	150	283.5	4253	338	488	250	190	Tr 190 x 6	130	45	124
HSC-LNH2008	200	200	283.5	5671	388	588	250	190	Tr 190 x 6	130	45	143
HSC-LNH20010	200	250	283.5	7088	438	688	250	190	Tr 190 x 6	130	45	163
HSC-LNH20012	200	300	283.5	8506	488	788	250	190	Tr 190 x 6	130	45	182
HSC-LNH2502	250	50	363.1	1815	249	299	280	215	Tr 215 x 6	140	52	119
HSC-LNH2504	250	100	363.1	3631	299	399	280	215	Tr 215 x 6	140	52	143
HSC-LNH2506	250	150	363.1	5446	349	499	280	215	Tr 215 x 6	140	52	167
HSC-LNH2508	250	200	363.1	7261	399	599	280	215	Tr 215 x 6	140	52	192

HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Cyl. Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Cylinder Bore Diam. (E) [mm]	Plunger Diam. (F)	Standard Saddle Diam. (J) [mm]	Locknut Height (S) [mm]	Weight [Kg]
HSC-LNH25010	250	250	363.1	9076	449	699	280	215	Tr 215 x 6	140	52	216
HSC-LNH25012	250	300	363.1	10892	499	799	280	215	Tr 215 x 6	140	52	240
HSC-LNH3002	300	50	433.7	2169	278	328	305	235	Tr 235 x 6	140	56	158
HSC-LNH3004	300	100	433.7	4337	328	428	305	235	Tr 235 x 6	140	56	186
HSC-LNH3006	300	150	433.7	6506	378	528	305	235	Tr 235 x 6	140	56	215
HSC-LNH3008	300	200	433.7	8675	428	628	305	235	Tr 235 x 6	140	56	244
HSC-LNH30010	300	250	433.7	10843	478	728	305	235	Tr 235 x 6	140	56	272
HSC-LNH30012	300	300	433.7	13012	528	828	305	235	Tr 235 x 6	140	56	301
HSC-LNH4002	400	50	572.6	2863	317	367	350	270	Tr 270 x 6	159	65	236
HSC-LNH4004	400	100	572.6	5726	367	467	350	270	Tr 270 x 6	159	65	274
HSC-LNH4006	400	150	572.6	8588	417	567	350	270	Tr 270 x 6	159	65	311
HSC-LNH4008	400	200	572.6	11451	467	667	350	270	Tr 270 x 6	159	65	349
HSC-LNH40010	400	250	572.6	14314	517	767	350	270	Tr 270 x 6	159	65	387
HSC-LNH40012	400	300	572.6	17177	567	867	350	270	Tr 270 x 6	159	65	425
HSC-LNH5002	500	50	730.6	3653	357	407	400	305	Tr 305 x 6	179	72	341
HSC-LNH5004	500	100	730.6	7306	407	507	400	305	Tr 305 x 6	179	72	390
HSC-LNH5006	500	150	730.6	10959	457	607	400	305	Tr 305 x 6	179	72	439
HSC-LNH5008	500	200	730.6	14612	507	707	400	305	Tr 305 x 6	179	72	489
HSC-LNH50010	500	250	730.6	18265	557	807	400	305	Tr 305 x 6	179	72	538
HSC-LNH50012	500	300	730.6	21918	607	907	400	305	Tr 305 x 6	179	72	587
HSC-LNH6002	600	50	855.3	4276	380	430	430	330	Tr 330 x 6	194	80	427
HSC-LNH6004	600	100	855.3	8553	430	530	430	330	Tr 330 x 6	194	80	484
HSC-LNH6006	600	150	855.3	12829	480	630	430	330	Tr 330 x 6	194	80	541
HSC-LNH6008	600	200	855.3	17106	530	730	430	330	Tr 330 x 6	194	80	598
HSC-LNH60010	600	250	855.3	21382	580	830	430	330	Tr 330 x 6	194	80	655
HSC-LNH60012	600	300	855.3	25659	630	930	430	330	Tr 330 x 6	194	80	712
HSC-LNH8002	800	50	1164.2	5821	430	480	505	385	Tr 385 x 6	224	90	668
HSC-LNH8004	800	100	1164.2	11642	480	580	505	385	Tr 385 x 6	224	90	746
HSC-LNH8006	800	150	1164.2	17462	530	680	505	385	Tr 385 x 6	224	90	825
HSC-LNH8008	800	200	1164.2	23283	580	780	505	385	Tr 385 x 6	224	90	904
HSC-LNH80010	800	250	1164.2	29104	630	880	505	385	Tr 385 x 6	224	90	982
HSC-LNH80012	800	300	1164.2	34925	680	980	505	385	Tr 385 x 6	224	90	1061
HSC-LNH10002	1000	50	1520.5	7603	484	534	570	440	Tr 440 x 6	249	105	959
HSC-LNH10004	1000	100	1520.5	15205	534	634	570	440	Tr 440 x 6	249	105	1059
HSC-LNH10006	1000	150	1520.5	22808	584	734	570	440	Tr 440 x 6	249	105	1160
HSC-LNH10008	1000	200	1520.5	30411	634	834	570	440	Tr 440 x 6	249	105	1260

HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Cyl. Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Cylinder Bore Diam. (E) [mm]	Plunger Diam. (F)	Standard Saddle Diam. (J) [mm]	Locknut Height (S) [mm]	Weight [Kg]
HSC-LNH100010	1000	250	1520.5	38013	684	934	570	440	Tr 440 x 6	249	105	1360
HSC-LNH100012	1000	300	1520.5	45616	734	1034	570	440	Tr 440 x 6	249	105	1460

HSC-LNH Series Single-Acting High-Tonnage Lock Nut Cylinders - Base Mounting Holes

Model / Capacity	Bolt Circle (U) [mm]	Thread Size (V)	Min. Thread Depth (Z) [mm]	Number of Holes	Angle from Coupler
HSC-LNH50 (50T)	105	M8 x 1.25	10	2	90°
HSC-LNH100 (100T)	150	M12 x 1.75	17	2	90°
HSC-LNH150 (150T)	185	M12 x 1.75	22	2	90°
HSC-LNH200 (200T)	215	M12 x 1.75	22	3	60°
HSC-LNH250 (250T)	245	M12 x 1.75	22	3	60°
HSC-LNH300 (300T)	260	M16 x 2	25	3	60°
HSC-LNH400 (400T)	300	M16 x 2	25	3	60°
HSC-LNH500 (500T)	340	M24 x 3	36	3	60°
HSC-LNH600 (600T)	370	M24 x 3	36	3	60°
HSC-LNH800 (800T)	440	M24 x 3	36	3	60°
HSC-LNH1000 (1000T)	500	M24 x 3	36	3	60°

Engineering Note: All dimensions in mm unless otherwise noted.

HDC-LN Series Double-Acting Lock Nut Cylinders

Double-acting hydraulic-return lock nut cylinders rated for 700 Bar (10,000 PSI), equipped with standard integrated 5° tilt saddles and up to 10% side-load resistance for sustained mechanical load holding and bridge repositioning across 50 to 300 Ton capacities.



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RATED CAPACITY	STROKE RANGE	ACTING TYPE
50 - 300 Metric Tons	150 - 300 mm	Double-Acting, Hydraulic Return with Lock Nut

INTEGRATED SADDLE	SIDE-LOAD RESISTANCE	MAX WORKING PRESSURE
Standard Integrated 5° Tilt Saddle	Withstands Up to 10% Side Load	700 Bar (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Max. Capacity [Ton (kN)]	Effective Area [cm2]	Oil Capacity (cm³)		Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F)	Base to Adv. Port (H1) [mm]	Base to Ret. Port (H2) [mm]	Saddle Diam. (J) [mm]	Saddle Protrusion (K) [mm]	Lock Nut Height (S) [mm]	Weight [Kg]
					Advance [cm3]	Retract [cm3]										
HDC-LN506	50	150	49 (479 kN)	68.4	1025	86	310	460	130	Tr 90 x 4	41	27	77	15	26	30
HDC-LN508	50	200	49 (479 kN)	68.4	1367	115	377	577	130	Tr 90 x 4	41	27	77	15	26	36
HDC-LN5010	50	250	49 (479 kN)	68.4	1709	143	427	677	130	Tr 90 x 4	41	27	77	15	26	40
HDC-LN5012	50	300	49 (479 kN)	68.4	2051	172	477	777	130	Tr 90 x 4	41	27	77	15	26	45
HDC-LN1006	100	150	101 (990 kN)	141.4	2121	236	346	496	185	Tr 120 x 6	50	36	77	15	36	64
HDC-LN1008	100	200	101 (990 kN)	141.4	2827	314	421	621	185	Tr 120 x 6	50	36	77	15	36	77
HDC-LN10010	100	250	101 (990 kN)	141.4	3534	393	471	721	185	Tr 120 x 6	50	36	77	15	36	85
HDC-LN10012	100	300	101 (990 kN)	141.4	4241	471	521	821	185	Tr 120 x 6	50	36	77	15	36	94
HDC-LN1506	150	150	153 (1501 kN)	214.4	3216	236	359	509	222	Tr 150 x 6	46	32	126	13	45	97
HDC-LN1508	150	200	153 (1501 kN)	214.4	4288	314	434	634	222	Tr 150 x 6	46	32	126	13	45	116
HDC-LN15010	150	250	153 (1501 kN)	214.4	5360	393	484	734	222	Tr 150 x 6	46	32	126	13	45	129
HDC-LN15012	150	300	153 (1501 kN)	214.4	6432	471	534	834	222	Tr 150 x 6	46	32	126	13	45	142
HDC-LN2006	200	150	204 (2001 kN)	285.9	4288	530	399	549	260	Tr 170 x 6	71	49	126	13	50	145
HDC-LN2008	200	200	204 (2001 kN)	285.9	5718	707	469	669	260	Tr 170 x 6	71	49	126	13	50	168
HDC-LN20010	200	250	204 (2001 kN)	285.9	7147	884	519	769	260	Tr 170 x 6	71	49	126	13	50	184
HDC-LN20012	200	300	204 (2001 kN)	285.9	8577	1060	569	869	260	Tr 170 x 6	71	49	126	13	50	200
HDC-LN2506	250	150	251 (2463 kN)	351.9	5278	530	416	566	290	Tr 190 x 6	71	49	160	15	55	190
HDC-LN2508	250	200	251 (2463 kN)	351.9	7037	707	491	691	290	Tr 190 x 6	71	49	160	15	55	224
HDC-LN25010	250	250	251 (2463 kN)	351.9	8796	884	541	791	290	Tr 190 x 6	71	49	160	15	55	244
HDC-LN25012	250	300	251 (2463 kN)	351.9	10556	1060	591	891	290	Tr 190 x 6	71	49	160	15	55	265
HDC-LN3006	300	150	303 (2969 kN)	424.1	6362	530	421	571	315	Tr 210 x 6	71	49	160	15	55	230
HDC-LN3008	300	200	303 (2969 kN)	424.1	8482	707	496	696	315	Tr 210 x 6	71	49	160	15	55	269
HDC-LN30010	300	250	303 (2969 kN)	424.1	10603	884	546	796	315	Tr 210 x 6	71	49	160	15	55	294
HDC-LN30012	300	300	303 (2969 kN)	424.1	12723	1060	596	896	315	Tr 210 x 6	71	49	160	15	55	319

LOCK NUT & LONG STROKE CYLINDERS | OEM CROSS-REFERENCE: ENERPAC CLP SERIES EQUIVALENT

HSC-LP Series Low-Height Pancake Lock-Nut Cylinders

Single-acting load-return low-height pancake lock-nut cylinders rated for 700 Bar (10,000 PSI), engineered for sustained mechanical load holding in confined vertical clearances and bridge lifting across 60 to 520 Ton capacities.



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RATED CAPACITY	STROKE RANGE	COLLAPSED HEIGHT
60 - 520 METRIC TONS	45 - 50 MM (1.77 - 1.97 IN)	125 - 192 MM (ULTRA-LOW PANCAKE PROFILE)

HOLDING MECHANISM	SADDLE & PROTECTION	MAX WORKING PRESSURE
MECHANICAL LOCK NUT FOR SUSTAINED LOAD HOLDING	INTEGRAL TILT SADDLE & STROKE OVERFLOW PORT	700 BAR (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Locknut Thickness (C) [mm]	Outside Diam. (D) [mm]	Saddle Diam. (E) [mm]	Piston Thread (F)	Weight [Kg]
HSC-LP-602	60	50	86.6	433	125	175	28	140	96	Tr 104×4	14.5
HSC-LP-1002	100	50	143.1	715	137	187	31	175	126	Tr 134.5×6	23.5
HSC-LP-1602	160	45	226.9	1021	148	193	40	220	159	Tr 170×6	41.5
HSC-LP-2002	200	45	283.4	1275	155	200	43	245	180	Tr 190×6	57.0
HSC-LP-2502	250	45	362.9	1633	159	204	44	275	200	Tr 215×6	74.0
HSC-LP-4002	400	45	551.3	2481	178	223	55	350	250	Tr 265×6	134.0
HSC-LP-5002	520	45	730.3	3286	192	237	62	400	290	Tr 305×6	189.0

HSCX Series Single-Acting High-Tonnage Cylinders

Single-acting load-return high-tonnage hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered for critical civil infrastructure, heavy structural lifting, and bridge jacking across 50 to 1,000 Ton capacities.



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RATED CAPACITY	STROKE RANGE	ACTING TYPE
50 - 1000 METRIC TONS	50 - 300 MM (1.97 - 11.81 IN)	SINGLE-ACTING, LOAD-RETURN

STANDARD SADDLE	BEARING & PROTECTION	MAX WORKING PRESSURE
STX TILTING SADDLE (0° - 5° ARTICULATION)	COMPOSITE GUIDE BEARINGS & OVERSTROKE OVERFLOW PORT	700 BAR (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Collapsed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Plunger Diam. (F) [mm]	Bolt Circle (U) [mm]	Bolt Thread (V)	Thread Depth (Z) [mm]	Weight [Kg]
HSCX-502	50	50	75.4	377	162	212	130	70	65	M12	23	17
HSCX-504	50	100	75.4	754	212	312	130	70	65	M12	23	20
HSCX-506	50	150	75.4	1131	262	412	130	70	65	M12	23	23
HSCX-508	50	200	75.4	1508	312	512	130	70	65	M12	23	27
HSCX-5010	50	250	75.4	1885	362	612	130	70	65	M12	23	31
HSCX-5012	50	300	75.4	2262	412	712	130	70	65	M12	23	34
HSCX-1002	100	50	132.5	664	182	232	165	95	95	M12	23	28
HSCX-1004	100	100	132.5	1327	232	332	165	95	95	M12	23	33
HSCX-1006	100	150	132.5	1991	282	432	165	95	95	M12	23	40
HSCX-1008	100	200	132.5	2655	332	532	165	95	95	M12	23	50
HSCX-10010	100	250	132.5	3318	382	632	165	95	95	M12	23	61
HSCX-10012	100	300	132.5	3982	432	732	165	95	95	M12	23	71
HSCX-1502	150	50	202.5	1010	196	246	205	115	130	M12	23	39
HSCX-1504	150	100	202.5	2020	246	346	205	115	130	M12	23	52
HSCX-1506	150	150	202.5	3028	296	446	205	115	130	M12	23	65
HSCX-1508	150	200	202.5	4038	346	546	205	115	130	M12	23	78
HSCX-15010	150	250	202.5	5048	396	646	205	115	130	M12	23	92
HSCX-15012	150	300	202.5	6058	446	746	205	115	130	M12	23	105
HSCX-2002	200	50	266.0	1330	216	266	235	135	165	M12	23	55
HSCX-2006	200	150	266.0	3989	316	466	235	135	165	M12	23	91
HSCX-20012	200	300	266.0	7977	466	766	235	135	165	M12	23	146
HSCX-2502	250	50	362.7	1813	235	285	275	165	190	M12	23	89
HSCX-2506	250	150	362.7	5442	335	485	275	165	190	M12	23	136
HSCX-25012	250	300	362.7	10883	485	785	275	165	190	M12	23	207
HSCX-3002	300	50	452.0	2262	312	362	310	200	180	M16	30	184
HSCX-3006	300	150	452.0	6786	412	562	310	200	180	M16	30	232
HSCX-30012	300	300	452.0	13571	562	862	310	200	180	M16	30	303
HSCX-4002	400	50	572.0	2860	375	425	350	215	205	M16	30	270

HSCX Series Single-Acting High-Tonnage Cylinders - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Collapsed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Plunger Diam. (F) [mm]	Bolt Circle (U) [mm]	Bolt Thread (V)	Thread Depth (Z) [mm]	Weight [Kg]
HSCX-4006	400	150	572.0	8580	475	625	350	215	205	M16	30	330
HSCX-40012	400	300	572.0	17230	625	925	350	215	205	M16	30	421
HSCX-5002	500	50	730.6	3653	419	469	400	250	250	M24	36	401
HSCX-5006	500	150	730.6	10959	519	669	400	250	250	M24	36	480
HSCX-50012	500	300	730.6	21918	669	969	400	250	250	M24	36	599
HSCX-6002	600	50	855.3	4276	429	479	430	270	275	M24	36	474
HSCX-6006	600	150	855.3	12829	529	679	430	270	275	M24	36	565
HSCX-60012	600	300	855.3	25659	679	979	430	270	275	M24	36	701
HSCX-8002	800	50	1163.0	5816	474	524	505	320	330	M24	36	741
HSCX-8006	800	150	1163.0	17450	574	724	505	320	330	M24	36	868
HSCX-80012	800	300	1163.0	34900	724	1024	505	320	330	M24	36	1058
HSCX-10002	1000	50	1450.0	7255	564	614	560	345	375	M24	36	1062
HSCX-10006	1000	150	1450.0	21766	664	814	560	345	375	M24	36	1213
HSCX-100012	1000	300	1450.0	43532	814	1114	560	345	375	M24	36	1439

HIGH TONNAGE & PULL CYLINDERS | OEM CROSS-REFERENCE: ENERPAC BRP SERIES EQUIVALENT

HSCP Series Single-Acting Hydraulic Pull Cylinders

Single-acting spring-return hydraulic pull cylinders rated for 700 Bar (10,000 PSI), engineered for precision tensile pulling, structural tensioning, and cable prestressing across 2.5 to 50 Ton capacities.



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RATED TENSILE CAPACITY
2.5 - 50 METRIC TONS

STROKE RANGE
127 - 154 MM (5.0 - 6.06 IN)

ACTING & RETURN TYPE
SINGLE-ACTING PULL, HEAVY-DUTY SPRING RETURN

MOUNTING INTERFACES
THREADED MOUNT & DROP-FORGED CLEVIS LINKS

CYLINDER SAFETY VALVE
INTEGRAL OVERSTROKE SAFETY VALVE & CHROMED ROD

MAX WORKING PRESSURE
700 BAR (10,000 PSI)

Model	Configuration	Capacity @ 700 Bar [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Retracted Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Plunger Diam. (F) [mm]	Clevis Eye Dimensions (mm)					Threaded Mounting Dimensions							Weight [Kg]
										Link Height (J) [mm]	Link Opening (L) [mm]	Link Thickness (M) [mm]	Link Width (N) [mm]	Slot to Link End (T) [mm]	Link Thread (J)	Plunger Thread (Q)	Plunger Thd Len (P) [mm]	Collar Thread (W)	Collar Thd Len (X) [mm]	Base Thread (V)	Base Thd Depth (Z) [mm]	
HSCP-25	Threaded Mount	2.5	127	3.5	45	391	264	49.5	20	-	-	-	-	-	3/4"-14 NPT	11/16"-24UNEF	22	1 1/2"-16UN	27	3/4"-14 NPT	17	1.8
HSCP-46	Threaded Mount	5	140	7.5	101	441	301	57.2	30	-	-	-	-	-	1 1/4"-11 1/2" NPT	1 3/16"-16UN	28	2 1/4"-14UN	26	1 1/4"-11 1/2" NPT	24	4.5
HSCP-106	Threaded Mount	10	151	15.0	228	440	289	85.0	35	-	-	-	-	-	-	M30x2	20	M85x2	25	M30x2	27	9.5
HSCP-106C	Clevis Eye Links	10	150	15.8	238	738	587	85.0	-	119	62	30	35	32	-	-	-	-	-	-	-	16.0
HSCP-106L	Clevis Eye Links	10	150	15.8	238	692	541	85.0	-	64	115	22	30	32	-	-	-	-	-	-	-	13.3
HSCP-306	Clevis Eye Links	30	154	46.4	715	1240	1085	136.0	-	114	145	35	39	50	-	-	-	-	-	-	-	48.2
HSCP-606	Clevis Eye Links	50	153	72.1	1096	871	719	140.0	-	130	149	40	50	70	-	-	-	-	-	-	-	53.6

HDCX Series Double-Acting High-Tonnage Cylinders

Double-acting hydraulic return high-tonnage cylinders rated for 700 Bar (10,000 PSI), engineered for heavy lifting, bridge positioning, foundation leveling, and structural maintenance across 50 to 1,000 Ton capacities.



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RATED CAPACITY
50 - 1,000 Metric Tons

OPERATING PRESSURE
700 Bar (10,000 PSI)

ACTION & RETURN
Double-Acting, Powered Hydraulic Return

STROKE RANGE
50 - 300 mm

SADDLE TYPE
Standard 0-5° Self-Aligning Tilt Saddle

SAFETY MECHANISM
Built-in Retract Port Over-Pressure Relief Valve

Model	Cap. (Ton) [Metric Ton]	Stroke [mm]	Max Cap. (Ton)		Eff. Area (cm²)		Oil Cap. (cm³)		Closed H. (A) [mm]	Ext. H. (B) [mm]	Outside D. (D) [mm]	Plunger Diam. (F) [mm]	Bolt Circle (U) [mm]	Bolt Thread (V)	Depth (Z) [mm]	Weight [Kg]
			Adv. [Ton]	Ret. [Ton]	Adv. [cm2]	Ret. [cm2]	Adv. [cm3]	Ret. [cm3]								
HDCX-502	50	50	53	26	75.4	36.9	377	185	162	212	129	70	65	2 x M12	12	17.0
HDCX-504	50	100	53	26	75.4	36.9	754	369	212	312	129	70	65	2 x M12	12	19.5
HDCX-506	50	150	53	26	75.4	36.9	1131	554	262	412	129	70	65	2 x M12	12	22.0
HDCX-508	50	200	53	26	75.4	36.9	1508	738	312	512	129	70	65	2 x M12	12	25.5
HDCX-5010	50	250	53	26	75.4	36.9	1885	923	362	612	129	70	65	2 x M12	12	29.0
HDCX-5012	50	300	53	26	75.4	36.9	2262	1107	412	712	129	70	65	2 x M12	12	31.5
HDCX-1002	100	50	93	43	132.7	61.9	664	309	179	229	165	95	95	2 x M12	12	29.0
HDCX-1004	100	100	93	43	132.7	61.9	1327	619	229	329	165	95	95	2 x M12	12	34.0
HDCX-1006	100	150	93	43	132.7	61.9	1991	928	279	429	165	95	95	2 x M12	12	40.0
HDCX-1008	100	200	93	43	132.7	61.9	2655	1237	329	529	165	95	95	2 x M12	12	46.0
HDCX-10010	100	250	93	43	132.7	61.9	3318	1546	379	629	165	95	95	2 x M12	12	53.0
HDCX-10012	100	300	93	43	132.7	61.9	3982	1856	429	729	165	95	95	2 x M12	12	79.0
HDCX-1502	150	50	140	68	201.0	97.1	1005	486	196	246	205	115	130	2 x M12	12	39.0
HDCX-1504	150	100	140	68	201.0	97.1	2010	971	246	346	205	115	130	2 x M12	12	52.0
HDCX-1506	150	150	140	68	201.0	97.1	3015	1457	296	446	205	115	130	2 x M12	12	65.0
HDCX-1508	150	200	140	68	201.0	97.1	4020	1942	346	546	205	115	130	2 x M12	12	78.0
HDCX-15010	150	250	140	68	201.0	97.1	5025	2428	396	646	205	115	130	2 x M12	12	92.0
HDCX-15012	150	300	140	68	201.0	97.1	6030	2913	446	746	205	115	130	2 x M12	12	105.0
HDCX-2002	200	50	185	88	268.7	125.6	1344	628	212	262	235	135	165	3 x M12	12	55.0
HDCX-2006	200	150	185	88	268.7	125.6	4031	1884	312	462	235	135	165	3 x M12	12	91.0
HDCX-20012	200	300	185	88	268.7	125.6	8061	3768	462	762	235	135	165	3 x M12	12	146.0
HDCX-2502	250	50	254	105	362.9	149.2	1815	736	235	285	275	165	190	3 x M12	12	89.0
HDCX-2506	250	150	254	105	362.9	149.2	5444	2289	335	485	275	165	190	3 x M16	12	136.0
HDCX-25012	250	300	254	105	362.9	149.2	10887	4578	485	785	275	165	190	3 x M16	12	207.0
HDCX-3002	300	50	316	108	452.2	153.7	2261	769	322	372	310	200	180	3 x M16	30	184.0
HDCX-3006	300	150	316	108	452.2	153.7	6783	2306	422	572	310	200	180	3 x M16	30	232.0
HDCX-30012	300	300	316	108	452.2	153.7	13566	4611	572	872	310	200	180	3 x M16	30	303.0
HDCX-4002	400	50	386	132	572.0	188.4	2860	1055	374	424	350	215	205	3 x M16	30	270.0

HDCX Series Double-Acting High-Tonnage Cylinders - Specification Matrix (Continued) | Click any row to open online interactive datasheet & quote

Model	Cap. (Ton) [Metric Ton]	Stroke [mm]	Max Cap. (Ton)		Eff. Area (cm²)		Oil Cap. (cm³)		Closed H. (A) [mm]	Ext. H. (B) [mm]	Outside D. (D) [mm]	Plunger Diam. (F) [mm]	Bolt Circle (U) [mm]	Bolt Thread (V)	Depth (Z) [mm]	Weight [Kg]
			Adv. [Ton]	Ret. [Ton]	Adv. [cm2]	Ret. [cm2]	Adv. [cm3]	Ret. [cm3]								
HDCX-4006	400	150	386	132	572.0	188.4	7580	3165	474	624	350	215	205	3 x M16	30	330.0
HDCX-40012	400	300	386	132	572.0	188.4	15160	6330	624	924	350	215	205	3 x M16	30	421.0
HDCX-5002	500	50	511	168	730.2	239.6	3651	1198	419	469	400	250	250	3 x M24	30	410.0
HDCX-5006	500	150	511	168	730.2	239.6	10953	3594	519	669	400	250	250	3 x M24	30	480.0
HDCX-50012	500	300	511	168	730.2	239.6	21906	7188	669	969	400	250	250	3 x M24	30	559.0
HDCX-6002	600	50	599	213	854.9	303.6	4275	1518	429	479	430	265	275	3 x M24	36	474.0
HDCX-6006	600	150	599	213	854.9	303.6	12824	4554	529	679	430	265	275	3 x M24	36	565.0
HDCX-60012	600	300	599	213	854.9	303.6	25647	9108	679	979	430	265	275	3 x M24	36	710.0
HDCX-8002	800	50	815	252	1163.6	384.7	5818	1924	484	534	505	320	330	3 x M24	36	741.0
HDCX-8006	800	150	815	252	1163.6	384.7	17454	5771	584	734	505	320	330	3 x M24	36	868.0
HDCX-80012	800	300	815	252	1163.6	384.7	34908	11541	734	1034	505	320	330	3 x M24	36	1058.0
HDCX-10002	1000	50	1017	362	1451.5	517.1	7258	2586	564	614	560	345	375	3 x M24	36	1062.0
HDCX-10006	1000	150	1017	362	1451.5	517.1	21773	7757	664	814	560	345	375	3 x M24	36	1213.0
HDCX-100012	1000	300	1017	362	1451.5	517.1	43545	15513	814	1114	560	345	375	3 x M24	36	1439.0

HDCX Series Double-Acting High-Tonnage Cylinders - Optional Tilt Saddles

Cylinder Capacity	Saddle Model	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
HDCX-50T	STX-50	49	24	43	39	49
HDCX-100T	STX-100	73	29	48	55	74
HDCX-150T	STX-150	91	31	50	74	94
HDCX-200T	STX-200	118	35	59	90	113
HDCX-250T	STX-250	144	46	70	120	145
HDCX-300T	STX-300	158	62	81	150	177
HDCX-400T	STX-400	193	51	78	170	196
HDCX-500T	STX-500	228	63	90	200	228
HDCX-600T	STX-600	241	76	103	220	247
HDCX-800T	STX-800	297	75	102	260	297
HDCX-1000T	STX-1000	311	93	120	295	323

Engineering Note: All dimensions in mm. Self-aligning 0° - 5° tilt saddles protect plungers against eccentric side loads.

ALUMINUM LIGHTWEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RAC SERIES EQUIVALENT

HSCA Series Lightweight Aluminum Single-Acting Cylinders

Single-acting spring-return lightweight aluminum hydraulic cylinders rated for 700 Bar (10,000 PSI), engineered with hard-coat anodized surfaces and up to 10% side-load resistance for portable rigging, field maintenance, and structural positioning across 20 to 150 Ton capacities.



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CAPACITY RANGE	STROKE RANGE	RATED PRESSURE
20 - 150 Metric Tons	50 - 250 mm	700 Bar (10,000 PSI)

SIDE-LOAD RESISTANCE	CYLINDER MATERIAL	STANDARDS & COUPLER
Composite Bearings for Up to 10% Side-Load Protection	High-Strength Hard-Coat Anodized Aluminum Alloy	ASME B30.1 / ISO 10100 Compliant, Standard HQC-201A Coupler

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Bore Diam. (E) [mm]	Piston Diam. (F) [mm]	Base to Port (H) [mm]	Saddle Size (J) [mm]	Saddle Protrusion (K) [mm]	Weight [Kg]
HSCA-202	20	50	31.2	156	174	224	85	63	50	27	40	3	3.6
HSCA-204	20	100	31.2	312	224	324	85	63	50	27	40	3	4.1
HSCA-206	20	150	31.2	468	274	424	85	63	50	27	40	3	4.6
HSCA-208	20	200	31.2	624	324	524	85	63	50	27	40	3	5.1
HSCA-2010	20	250	31.2	780	374	624	85	63	50	27	40	3	5.6
HSCA-302	30	50	44.2	221	181	231	100	75	60	32	40	3	4.5
HSCA-304	30	100	44.2	442	231	331	100	75	60	32	40	3	5.2
HSCA-306	30	150	44.2	663	281	431	100	75	60	32	40	3	5.9
HSCA-308	30	200	44.2	884	331	531	100	75	60	32	40	3	6.6
HSCA-3010	30	250	44.2	1105	381	631	100	75	60	32	40	3	7.3
HSCA-502	50	50	70.9	354	186	236	130	95	80	30	50	3	8.5
HSCA-504	50	100	70.9	709	236	336	130	95	80	30	50	3	9.8
HSCA-506	50	150	70.9	1063	286	436	130	95	80	30	50	3	11.1
HSCA-508	50	200	70.9	1417	336	536	130	95	80	30	50	3	12.4
HSCA-5010	50	250	70.9	1771	386	636	130	95	80	30	50	3	13.7
HSCA-1002	100	50	143.1	715	221	271	180	135	110	46	94	3	17.3
HSCA-1004	100	100	143.1	1431	271	371	180	135	110	46	94	3	19.6
HSCA-1006	100	150	143.1	2147	321	471	180	135	110	46	94	3	21.9
HSCA-1008	100	200	143.1	2863	371	571	180	135	110	46	94	3	24.2
HSCA-10010	100	250	143.1	3578	421	671	180	135	110	46	94	3	26.5
HSCA-1502	150	50	227.0	1135	243	293	230	170	140	51	113	3	25.3
HSCA-1504	150	100	227.0	2270	293	393	230	170	140	51	113	3	29.3
HSCA-1506	150	150	227.0	3405	343	493	230	170	140	51	113	3	33.3
HSCA-1508	150	200	227.0	4540	393	593	230	170	140	51	113	3	37.3
HSCA-15010	150	250	227.0	5675	443	693	230	170	140	51	113	3	41.3

ALUMINUM LIGHTWEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RAR SERIES EQUIVALENT

HDCA Series Lightweight Aluminum Double-Acting Cylinders

Double-acting hydraulic-return lightweight aluminum cylinders rated for 700 Bar (10,000 PSI), engineered for powered retraction, rapid cycle times, and heavy structural shifting across 20 to 150 Ton capacities.



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CAPACITY RANGE
20 - 150 Metric Ton (Advance) / 13 - 94 Metric Ton (Retract)

STROKE RANGE
50 - 250 mm

MAX WORKING PRESSURE
700 Bar (10,000 PSI)

ACTING & RETURN TYPE
Double-Acting, Hydraulic Powered Advance & Retraction

CYLINDER MATERIAL
High-Strength Hard-Coat Anodized Aluminum Alloy

OVER-PRESSURE DEFENSE
Built-In Safety Valve Prevents Accidental Over-Pressurization

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Push Force (Advance) [kN]	Pull Force (Retract) [kN]	Adv. Eff. Area [cm2]	Ret. Eff. Area [cm2]	Adv. Oil Cap [cm3]	Ret. Oil Cap [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Bore Diam. (E) [mm]	Piston Diam. (F) [mm]	Base to Port (H) [mm]	Top to Port (I) [mm]	Saddle Size (J) [mm]	Saddle Protrusion (K) [mm]	Weight [Kg]
HDCA-202	20	50	218	130	31.2	18.6	156	93	189	239	113	63	40	30	50	30	3	7.4
HDCA-204	20	100	218	130	31.2	18.6	312	186	239	339	113	63	40	30	50	30	3	8.0
HDCA-206	20	150	218	130	31.2	18.6	468	279	289	439	113	63	40	30	50	30	3	8.6
HDCA-208	20	200	218	130	31.2	18.6	624	372	339	539	113	63	40	30	50	30	3	9.2
HDCA-2010	20	250	218	130	31.2	18.6	780	465	389	639	113	63	40	30	50	30	3	9.8
HDCA-302	30	50	309	179	44.2	24.5	221	123	201	251	125	75	50	30	55	40	3	8.6
HDCA-304	30	100	309	179	44.2	24.5	442	245	251	351	125	75	50	30	55	40	3	9.5
HDCA-306	30	150	309	179	44.2	24.5	663	368	301	451	125	75	50	30	55	40	3	10.4
HDCA-308	30	200	309	179	44.2	24.5	884	490	351	551	125	75	50	30	55	40	3	11.3
HDCA-3010	30	250	309	179	44.2	24.5	1105	613	401	651	125	75	50	30	55	40	3	12.2
HDCA-502	50	50	496	187	70.9	26.7	354	134	201	251	145	95	75	30	56	50	3	11.1
HDCA-504	50	100	496	187	70.9	26.7	709	267	251	351	145	95	75	30	56	50	3	12.7
HDCA-506	50	150	496	187	70.9	26.7	1063	401	301	451	145	95	75	30	56	50	3	14.3
HDCA-508	50	200	496	187	70.9	26.7	1417	534	351	551	145	95	75	30	56	50	3	15.9
HDCA-5010	50	250	496	187	70.9	26.7	1771	668	401	651	145	95	75	30	56	50	3	17.5
HDCA-1002	100	50	1002	557	143.1	79.5	715	398	251	301	185	135	90	43	80	75	3	16.4
HDCA-1004	100	100	1002	557	143.1	79.5	1431	795	301	401	185	135	90	43	80	75	3	19.3
HDCA-1006	100	150	1002	557	143.1	79.5	2147	1193	351	501	185	135	90	43	80	75	3	22.2
HDCA-1008	100	200	1002	557	143.1	79.5	2863	1590	401	601	185	135	90	43	80	75	3	25.1
HDCA-10010	100	250	1002	557	143.1	79.5	3578	1988	451	701	185	135	90	43	80	75	3	28.0
HDCA-1502	150	50	1589	924	227.0	132.0	1135	660	248	298	230	170	110	38	75	113	3	24.2
HDCA-1504	150	100	1589	924	227.0	132.0	2270	1320	298	398	230	170	110	38	75	113	3	28.9
HDCA-1506	150	150	1589	924	227.0	132.0	3405	1980	348	498	230	170	110	38	75	113	3	33.2
HDCA-1508	150	200	1589	924	227.0	132.0	4540	2640	398	598	230	170	110	38	75	113	3	37.9
HDCA-15010	150	250	1589	924	227.0	132.0	5675	3300	448	698	230	170	110	38	75	113	3	42.6

ALUMINUM LIGHTWEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RACH SERIES EQUIVALENT

HSCHA Series Lightweight Aluminum Hollow Cylinders

Single-acting spring-return lightweight aluminum hollow plunger cylinders rated for 700 Bar (10,000 PSI), engineered for post-tensioning, tie rod proof testing, and pin extraction across 20 to 150 Ton capacities.



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CAPACITY RANGE	STROKE RANGE	CENTER HOLE DIAMETER
20 - 150 Metric Tons	50 - 250 mm	27 - 79 mm (Through-Hole)

RATED PRESSURE	CYLINDER MATERIAL	BASE & SADDLE PROTECTION
700 Bar (10,000 PSI)	High-Strength Hard-Coat Anodized Aluminum Alloy	Removable 6 mm Hardened Steel Base Plate & Hollow Saddle

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Bore Diam. (E) [mm]	Piston Diam. (F) [mm]	Center Hole Diam. (Y) [mm]	Bottom to Port (H) [mm]	Saddle Diam. (J) [mm]	Saddle Protrusion (K) [mm]	Weight [Kg]
HSCHA-202	20	50	32.7	164	188	238	100	75	55	27	29	55	10	5.2
HSCHA-204	20	100	32.7	327	251	351	100	75	55	27	29	55	10	6.1
HSCHA-206	20	150	32.7	491	315	465	100	75	55	27	29	55	10	7.1
HSCHA-208	20	200	32.7	654	378	578	100	75	55	27	29	55	10	8.0
HSCHA-2010	20	250	32.7	818	442	692	100	75	55	27	29	55	10	9.0
HSCHA-302	30	50	51.1	256	208	258	130	95	70	34	29	70	10	8.0
HSCHA-304	30	100	51.1	511	267	367	130	95	70	34	29	70	10	9.5
HSCHA-306	30	150	51.1	766	333	483	130	95	70	34	29	70	10	11.2
HSCHA-308	30	200	51.1	1022	395	595	130	95	70	34	29	70	10	12.9
HSCHA-3010	30	250	51.1	1277	458	708	130	95	70	34	29	70	10	14.5
HSCHA-602	60	50	84.7	423	251	301	180	130	100	54	61	100	12	16.2
HSCHA-604	60	100	84.7	847	315	415	180	130	100	54	61	100	12	19.5
HSCHA-606	60	150	84.7	1270	380	530	180	130	100	54	61	100	12	25.6
HSCHA-608	60	200	84.7	1694	445	645	180	130	100	54	61	100	12	26.0
HSCHA-6010	60	250	84.7	2117	510	760	180	130	100	54	61	100	12	29.6
HSCHA-1002	100	50	164.6	823	258	308	250	185	145	79	61	145	14	33.8
HSCHA-1004	100	100	164.6	1646	325	425	250	185	145	79	61	145	14	39.8
HSCHA-1006	100	150	164.6	2487	391	541	250	185	145	79	61	145	14	46.2
HSCHA-1008	100	200	164.6	3291	459	659	250	185	145	79	61	145	14	52.2
HSCHA-10010	100	250	164.6	4114	527	777	250	185	145	79	61	145	14	58.8
HSCHA-1502	150	50	225.8	1129	280	330	275	205	150	79	61	145	14	48.9
HSCHA-1504	150	100	225.8	2258	360	460	275	205	150	79	61	145	14	55.7
HSCHA-1506	150	150	225.8	3387	430	580	275	205	150	79	61	145	14	63.0
HSCHA-1508	150	200	225.8	4517	500	700	275	205	150	79	61	145	14	70.1
HSCHA-15010	150	250	225.8	5646	570	820	275	205	150	79	61	145	14	77.2

ALUMINUM LIGHTWEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RARH SERIES EQUIVALENT

HDCHA Series Lightweight Aluminum Double-Acting Hollow Cylinders

Double-acting hydraulic-return lightweight aluminum hollow plunger cylinders rated for 700 Bar (10,000 PSI), engineered for powered retraction, post-tensioning, and heavy cable pulling across 30 to 150 Ton capacities.



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CAPACITY RANGE
30 - 150 Metric Ton (Advance) / 19 - 76 Metric Ton (Retract)

CENTER HOLE DIAMETER
34 - 79 mm Hollow Core

STROKE RANGE
50 - 250 mm

MAX WORKING PRESSURE
700 Bar (10,000 PSI)

ACTING & RETURN TYPE
Double-Acting, Hydraulic Powered Advance & Retraction

CYLINDER MATERIAL
High-Strength Hard-Coat Anodized Aluminum Alloy

Model	Rated Capacity [Ton]	Stroke [mm]	Push Force (Advance) [kN]	Pull Force (Retract) [kN]	Adv. Eff. Area [cm2]	Ret. Eff. Area [cm2]	Adv. Oil Cap [cm3]	Ret. Oil Cap [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Bore Diam. (E) [mm]	Plunger Diam. (F) [mm]	Base to Advance Port (H) [mm]	Top to Return Port (I) [mm]	Saddle Diam. (J) [mm]	Saddle Protrusion (K) [mm]	Plunger Internal Thread (O)	Thread Length (P) [mm]	Center Hole Diam. (Y) [mm]	Weight [Kg]
HDCHA-302	30	50	359	187	51.2	26.7	256	134	209	259	135	95	75	22	64	63	10	1-13/16"-16UN	23	34	8.9
HDCHA-306	30	150	359	187	51.2	26.7	769	401	309	459	135	95	75	22	64	63	10	1-13/16"-16UN	23	34	11.9
HDCHA-3010	30	250	359	187	51.2	26.7	1281	668	409	659	135	95	75	22	64	63	10	1-13/16"-16UN	23	34	14.9
HDCHA-602	60	50	595	264	84.9	37.7	425	189	246	296	180	130	110	48	83	92	13	2-3/4"-16UN	20	54	16.8
HDCHA-606	60	150	595	264	84.9	37.7	1274	566	346	496	180	130	110	48	83	92	13	2-3/4"-16UN	20	54	22.2
HDCHA-6010	60	250	595	264	84.9	37.7	2124	943	446	696	180	130	110	48	83	92	13	2-3/4"-16UN	20	54	27.6
HDCHA-1002	100	50	1001	568	142.9	81.1	715	405	254	304	235	165	130	61	78	126	13.5	4"-16UN	27	79	28.9
HDCHA-1006	100	150	1001	568	142.9	81.1	2144	1216	354	504	235	165	130	61	78	126	13.5	4"-16UN	27	79	38.3
HDCHA-10010	100	250	1001	568	142.9	81.1	3574	2027	454	704	235	165	130	61	78	126	13.5	4"-16UN	27	79	47.7
HDCHA-1502	150	50	1489	748	212.6	106.8	1063	534	264	314	280	190	150	61	83	127	18.8	4-1/4"-12UN	40	79	42.4
HDCHA-1506	150	150	1489	748	212.6	106.8	3190	1602	364	514	280	190	150	61	83	127	18.8	4-1/4"-12UN	40	79	56.2
HDCHA-15010	150	250	1489	748	212.6	106.8	5316	2670	464	714	280	190	150	61	83	127	18.8	4-1/4"-12UN	40	79	70.0

ALUMINUM LIGHTWEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RACL SERIES EQUIVALENT

HSC-LNA Series Lightweight Aluminum Lock-Nut Cylinders

Single-acting spring-return lightweight aluminum lock nut cylinders rated for 700 Bar (10,000 PSI), engineered with up to 5% side-load resistance for sustained mechanical load holding, bridge maintenance, and structural leveling across 20 to 150 Ton capacities.



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CAPACITY RANGE	STROKE RANGE	MAX WORKING PRESSURE
20 - 150 Metric Tons	50 - 250 mm	700 Bar (10,000 PSI)

ACTING & RETURN TYPE	LOAD HOLDING & SIDE LOAD	CYLINDER MATERIAL
Single-Acting, High-Strength Return Spring	Mechanical Lock Nut & Up to 5% Side-Load Resistance	High-Strength Hard-Coat Anodized Aluminum Alloy

Model	Rated Capacity [Ton (kN)]	Stroke [mm]	Effective Area [cm2]	Oil Capacity [cm3]	Closed Height (A) [mm]	Extended Height (B) [mm]	Outside Diam. (D) [mm]	Thread Size (F)	Base to Port (H) [mm]	Saddle Diam. (J) [mm]	Lock Nut Height (S) [mm]	Weight [Kg]
HSC-LNA-202	20 (218)	50	31.2	156	224	274	85	Tr 55 x 4	27	40	50	4.0
HSC-LNA-204	20 (218)	100	31.2	312	274	374	85	Tr 55 x 4	27	40	50	4.6
HSC-LNA-206	20 (218)	150	31.2	468	324	474	85	Tr 55 x 4	27	40	50	5.2
HSC-LNA-208	20 (218)	200	31.2	624	374	574	85	Tr 55 x 4	27	40	50	5.8
HSC-LNA-2010	20 (218)	250	31.2	780	424	674	85	Tr 55 x 4	27	40	50	6.4
HSC-LNA-302	30 (309)	50	44.2	221	231	281	100	Tr 60 x 4	33	40	50	5.4
HSC-LNA-304	30 (309)	100	44.2	442	281	381	100	Tr 60 x 4	33	40	50	6.1
HSC-LNA-306	30 (309)	150	44.2	663	331	481	100	Tr 60 x 4	33	40	50	6.8
HSC-LNA-308	30 (309)	200	44.2	883	381	581	100	Tr 60 x 4	33	40	50	7.5
HSC-LNA-3010	30 (309)	250	44.2	1105	431	681	100	Tr 60 x 4	33	40	50	8.2
HSC-LNA-502	50 (496)	50	70.9	354	236	286	130	Tr 80 x 4	30	50	50	9.3
HSC-LNA-504	50 (496)	100	70.9	709	286	386	130	Tr 80 x 4	30	50	50	10.6
HSC-LNA-506	50 (496)	150	70.9	1063	336	486	130	Tr 80 x 4	30	50	50	12.6
HSC-LNA-508	50 (496)	200	70.9	1417	386	586	130	Tr 80 x 4	30	50	50	13.2
HSC-LNA-5010	50 (496)	250	70.9	1771	436	686	130	Tr 80 x 4	30	50	50	14.5
HSC-LNA-1002	100 (1002)	50	143.1	716	296	346	180	Tr 110 x 6	46	94	75	21.9
HSC-LNA-1004	100 (1002)	100	143.1	1431	346	446	180	Tr 110 x 6	46	94	75	24.2
HSC-LNA-1006	100 (1002)	150	143.1	2147	396	546	180	Tr 110 x 6	46	94	75	26.5
HSC-LNA-1008	100 (1002)	200	143.1	2863	446	646	180	Tr 110 x 6	46	94	75	28.8
HSC-LNA-10010	100 (1002)	250	143.1	3578	496	746	180	Tr 110 x 6	46	94	75	31.1
HSC-LNA-1502	150 (1589)	50	227.0	1135	323	373	230	Tr 140 x 6	51	113	80	32.2
HSC-LNA-1504	150 (1589)	100	227.0	2270	373	473	230	Tr 140 x 6	51	113	80	36.2
HSC-LNA-1506	150 (1589)	150	227.0	3405	423	573	230	Tr 140 x 6	51	113	80	40.2
HSC-LNA-1508	150 (1589)	200	227.0	4540	473	673	230	Tr 140 x 6	51	113	80	44.2
HSC-LNA-15010	150 (1589)	250	227.0	5675	523	773	230	Tr 140 x 6	51	113	80	48.2