

HCL-Series, High Tonnage Lock Nut Cylinders

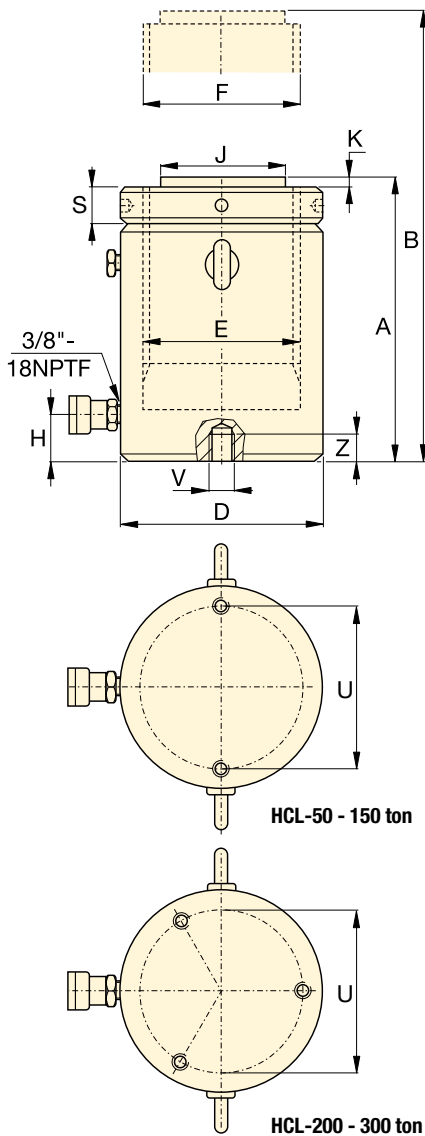
HCL-Series, Single-Acting, Gravity Return Cylinders

- Lock nut provides positive and safe mechanical load holding
- Low-friction locking rings spin easy, save time and effort
- Designed to withstand 10% side-load up to 90% of maximum stroke
- Hardened surface resists side-loading and cyclic wear
- Overflow port as stroke limiter to prevent plunger blow-out
- Weather protected, inside and out
- Replaceable bearings enclose the plunger for support throughout the stroke
- Certified lifting eyes and base mounting holes.

SELECTION CHART 50 - 300 TON HCL-MODELS

For 400 - 1000 ton models, see pages 54-55.

For full product features see pages 40-41.



Base Mounting Holes (mm)					
Model / Capacity ton	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCL-50	105	M8 x 1,25	10	2	90°
HCL-100	150	M12 x 1,75	17	2	90°
HCL-150	185	M12 x 1,75	22	2	90°
HCL-200	215	M12 x 1,75	22	3	60°
HCL-250	245	M12 x 1,75	22	3	60°
HCL-300	260	M16 x 2	25	3	60°

Cylinder Capacity ton	Stroke (mm)	Model Number	Maximum Cylinder Capacity at 700 bar ton (kN)	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)	Collapsed Height A (mm)
50	50	HCL-502	56 (550)	78,5	393	164
	100	HCL-504			785	214
	150	HCL-506			1178	264
	200	HCL-508			1571	314
	250	HCL-5010			1963	364
	300	HCL-5012			2356	414
100	50	HCL-1002	102 (1002)	143,1	716	187
	100	HCL-1004			1431	237
	150	HCL-1006			2147	287
	200	HCL-1008			2863	337
	250	HCL-10010			3578	387
	300	HCL-10012			4294	437
150	50	HCL-1502	153 (1497)	213,8	1069	209
	100	HCL-1504			2138	259
	150	HCL-1506			3207	309
	200	HCL-1508			4276	359
	250	HCL-15010			5346	409
	300	HCL-15012			6415	459
200	50	HCL-2002	202 (1985)	283,5	1418	238
	100	HCL-2004			2835	288
	150	HCL-2006			4253	338
	200	HCL-2008			5671	388
	250	HCL-20010			7088	438
	300	HCL-20012			8506	488
250	50	HCL-2502	259 (2541)	363,1	1815	249
	100	HCL-2504			3631	299
	150	HCL-2506			5446	349
	200	HCL-2508			7261	399
	250	HCL-25010			9076	449
	300	HCL-25012			10.892	499
300	50	HCL-3002	310 (3036)	433,7	2169	278
	100	HCL-3004			4337	328
	150	HCL-3006			6506	378
	200	HCL-3008			8675	428
	250	HCL-30010			10.843	478
	300	HCL-30012			13.012	528

Single-Acting, Lock Nut Cylinders

Capacity:

50 - 300 ton

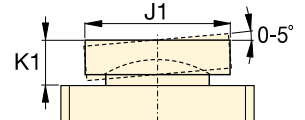
Stroke:

50 - 300 mm

Maximum Operating Pressure:

700 bar

HCL Series



CAT-Series Tilt Saddle

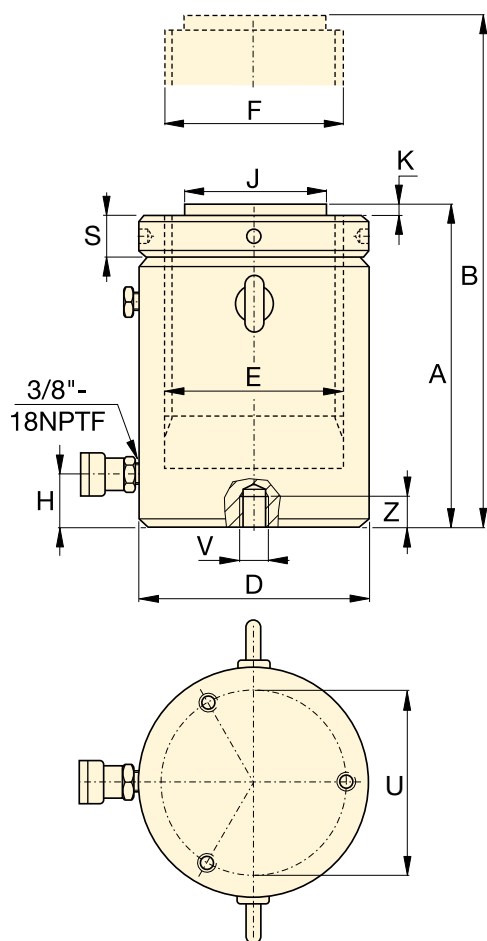
	Extended Height	Outside Diameter	Cylinder Bore Diameter	Plunger Diameter (threaded)	Base to Advance Port	Standard Saddle Diameter	Saddle Protrusion from Plunger	Lock Nut Height		Model Number	Optional Tilt Saddle		
	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	S (mm)		(kg)	Diameter J1 (mm)	Height K1 (mm)	Saddle Model Number
	214	130	100	Tr 100 x 4	24	71	2	25	17	HCL-502	71	24	CAT-100
	314								22	HCL-504			
	414								27	HCL-506			
	514								32	HCL-508			
	614								38	HCL-5010			
	714								43	HCL-5012			
	237	175	135	Tr 135 x 6	33	71	2	33	35	HCL-1002	71	24	CAT-100
	337								44	HCL-1004			
	437								54	HCL-1006			
	537								63	HCL-1008			
	637								73	HCL-10010			
	737								82	HCL-10012			
	259	215	165	Tr 165 x 6	41	130	2	40	59	HCL-1502	130	19	CAT-200
	359								73	HCL-1504			
	459								87	HCL-1506			
	559								102	HCL-1508			
	659								116	HCL-15010			
	759								130	HCL-15012			
	288	250	190	Tr 190 x 6	47	130	2	45	85	HCL-2002	130	19	CAT-200
	388								105	HCL-2004			
	488								124	HCL-2006			
	588								143	HCL-2008			
	688								163	HCL-20010			
	788								182	HCL-20012			
	299	280	215	Tr 215 x 6	53	150	2	52	119	HCL-2502	150	19	CAT-250
	399								143	HCL-2504			
	499								167	HCL-2506			
	599								192	HCL-2508			
	699								216	HCL-25010			
	799								240	HCL-25012			
	328	305	235	Tr 235 x 6	58	140	2	56	158	HCL-3002	195	73	CAT-300
	428								186	HCL-3004			
	528								215	HCL-3006			
	628								244	HCL-3008			
	728								272	HCL-30010			
	828								301	HCL-30012			

HCL-Series, High Tonnage Lock Nut Cylinders

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HCL-Series, Single-Acting, Gravity Return Cylinders

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- Low-friction locking rings spin easy, save time and effort
- Designed to withstand 10% side-load up to 90% of maximum stroke
- Hardened surface resists side-loading and cyclic wear
- Overflow port as stroke limiter to prevent plunger blow-out
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- Replaceable bearings enclose the plunger for support throughout the stroke
- Certified lifting eyes and base mounting holes.



SELECTION CHART 400 - 1000 TON HCL-MODELS

For 50 - 300 ton models, see pages 52-53.

For full product features see pages 40-41.

Cylinder Capacity ton	Stroke (mm)	Model Number	Maximum Cylinder Capacity at 700 bar ton (kN)	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)	Collapsed Height A (mm)
400	50	HCL-4002	409 (4008)	572,6	2863	317
	100	HCL-4004			5726	367
	150	HCL-4006			8588	417
	200	HCL-4008			11.451	467
	250	HCL-40010			14.314	517
	300	HCL-40012			17.177	567
500	50	HCL-5002	522 (5114)	730,6	3653	357
	100	HCL-5004			7306	407
	150	HCL-5006			10.959	457
	200	HCL-5008			14.612	507
	250	HCL-50010			18.265	557
	300	HCL-50012			21.918	607
600	50	HCL-6002	611 (5987)	855,3	4276	380
	100	HCL-6004			8553	430
	150	HCL-6006			12.829	480
	200	HCL-6008			17.106	530
	250	HCL-60010			21.382	580
	300	HCL-60012			25.659	630
800	50	HCL-8002	831 (8149)	1164,2	5821	430
	100	HCL-8004			11.642	480
	150	HCL-8006			17.462	530
	200	HCL-8008			23.283	580
	250	HCL-80010			29.104	630
	300	HCL-80012			34.925	680
1000	50	HCL-10002	1085 (10.644)	1520,5	7603	484
	100	HCL-10004			15.205	534
	150	HCL-10006			22.808	584
	200	HCL-10008			30.411	634
	250	HCL-100010			38.013	684
	300	HCL-100012			45.616	734

Base Mounting Holes (mm)

Model / Capacity ton	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCL-400	300	M16 x 2	25	3	60°
HCL-500	340	M24 x 3	36	3	60°
HCL-600	370	M24 x 3	36	3	60°
HCL-800	440	M24 x 3	36	3	60°
HCL-1000	500	M24 x 3	36	3	60°

Single-Acting, Lock Nut Cylinders



▲ Heavy lifting and foundation levelling. The lock nut provides mechanical load holding over a long period of time.

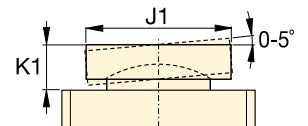
HCL Series



Capacity:
400 - 1000 ton

Stroke:
50 - 300 mm

Maximum Operating Pressure:
700 bar



CAT-Series Tilt Saddle

	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter (threaded) F (mm)	Base to Advance Port H (mm)	Standard Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	Lock Nut Height S (mm)	 (kg)	Model Number	Optional Tilt Saddle		
											Diameter J1 (mm)	Height K1 (mm)	Model Number
	367	350	270	Tr 270 x 6	67	159	5	65	236	HCL-4002	225	85	CAT-400
	467								274	HCL-4004			
	567								311	HCL-4006			
	667								349	HCL-4008			
	767								387	HCL-40010			
	867								425	HCL-40012			
	407	400	305	Tr 305 x 6	75	179	5	72	341	HCL-5002	250	91	CAT-500
	507								390	HCL-5004			
	607								439	HCL-5006			
	707								489	HCL-5008			
	807								538	HCL-50010			
	907								587	HCL-50012			
	430	430	330	Tr 330 x 6	81	194	5	80	427	HCL-6002	275	99	CAT-600
	530								484	HCL-6004			
	630								541	HCL-6006			
	730								598	HCL-6008			
	830								655	HCL-60010			
	930								712	HCL-60012			
	480	505	385	Tr 385 x 6	95	224	5	90	668	HCL-8002	320	124	CAT-800
	580								746	HCL-8004			
	680								825	HCL-8006			
	780								904	HCL-8008			
	880								982	HCL-80010			
	980								1061	HCL-80012			
	534	570	440	Tr 440 x 6	110	249	5	105	959	HCL-10002	360	136	CAT-1000
	634								1059	HCL-10004			
	734								1160	HCL-10006			
	834								1260	HCL-10008			
	934								1360	HCL-100010			
	1034								1460	HCL-100012			