

▼ HCRL Double Acting Lock Nut Cylinders

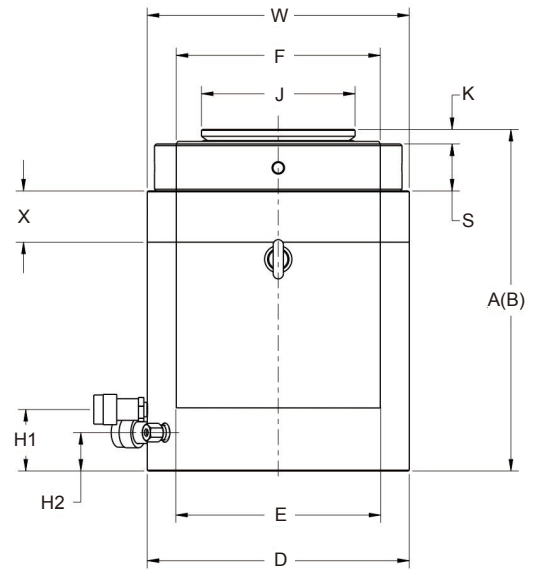
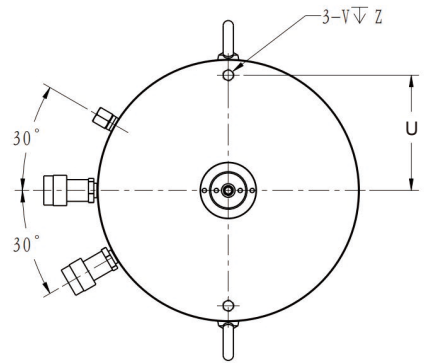


Rated Pressure: 70MPa

Rated Tonnage: 30 -500ton

Stroke Range: 50-300mm

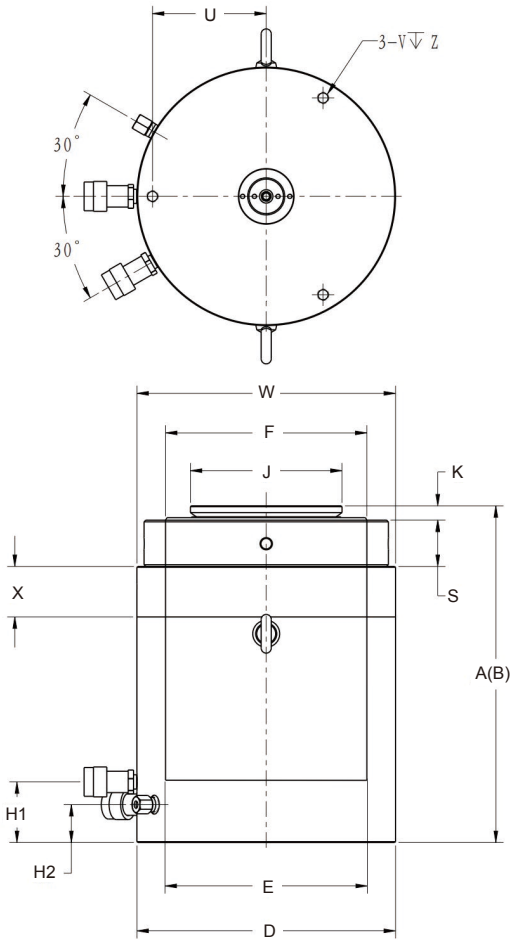
- Hydraulically controlled rapid retraction for efficient operation.
- Locking nut provides mechanical load holding to ensure a safe working environment.
- Capable of withstanding eccentric loads up to 10% of the maximum rated capacity.
- Integrated tilting saddle allows a maximum misalignment angle of 5°.
- Hardened gas nitriding surface treatment delivers exceptional resistance to eccentric loads, cyclic wear, and corrosion, with all-weather internal and external protection.
- Replaceable bearings surround the plunger, offering full-stroke internal and external support.
- Certified lifting lugs, base mounting holes, and collar threads are supplied as standard.
- Retaining ring (stop-ring) prevents plunger over-travel and blow-out.
- Low-friction locking nut is easy to operate, significantly saving time and effort.
- HCRL Series cylinders are available with capacities up to 1000 ton and strokes up to 600 mm upon request. For further details, please contact RIVERLAKE.



HCRL50-150

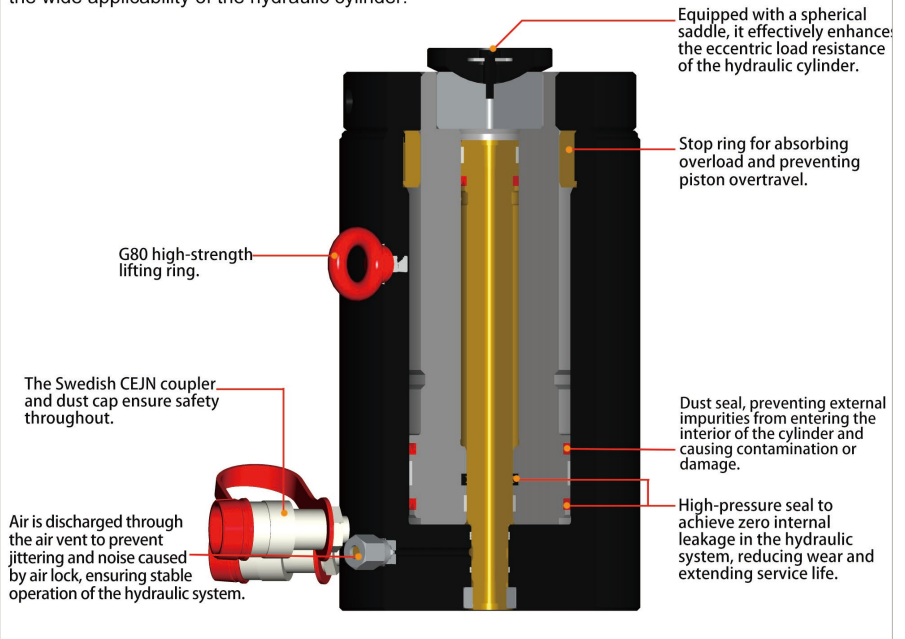
Specification	Bolt Pitch Circle Diameter U (mm)	Thread Size V	Minimum Thread Depth Z (mm)
HCRL50	105	M12 x 1.75	22
HCRL100	150	M12 x 1.75	22
HCRL150	185	M12 x 1.75	22
HCRL200	215	M12 x 1.75	22
HCRL250	245	M12 x 1.75	22
HCRL300	260	M16 x 2	25

Outer Ring Thread		
Specification	Thread Size W	Thread Length X (mm)
HCRL50	M130 x 2	42
HCRL100	M185 x 2	57
HCRL150	M222 x 3	70
HCRL200	M260 x 3	79
HCRL250	M290 x 3	85
HCRL300	M315 x 3	94



► HCRL Cylinder Performance Introduction

All components are surface-treated by gas nitriding and post-oxidation process (except for the hard saddle), providing superior corrosion resistance. High durability and high hardness ensure the wide applicability of the hydraulic cylinder.



HCRL200-300

Capacity (ton)	Stroke (mm)	Model	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)		Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter (threaded) F (mm)	Base to Advance Port H1 (mm)	Base to Retract Port H2 (mm)	Saddle Diameter J (mm)	Saddle Protrusion K (mm)	Lock Nut Height S (mm)	Weight (kg)
				Push	Pull											
50	150	HCRL506	68.4	1025	86	310	460	130	100	Tr90×4	41	27	77	15	26	30
50	200	HCRL508	68.4	1367	115	377	577	130	100	Tr90×4	41	27	77	15	26	36
50	250	HCRL5010	68.4	1709	143	427	677	130	100	Tr90×4	41	27	77	15	26	40
50	300	HCRL5012	68.4	2051	172	477	777	130	100	Tr90×4	41	27	77	15	26	45
100	150	HCRL1006	141.4	2121	236	346	446	185	140	Tr120×6	50	36	77	15	36	64
100	200	HCRL1008	141.4	2827	314	421	621	185	140	Tr120×6	50	36	77	15	36	77
100	250	HCRL10010	141.4	3534	393	471	721	185	140	Tr120×6	50	36	77	15	36	85
100	300	HCRL10012	141.4	4241	471	521	821	185	140	Tr120×6	50	36	77	15	36	94
150	150	HCRL1506	214.4	3216	236	359	534	222	170	Tr150×6	46	32	126	13	45	97
150	200	HCRL1508	214.4	4288	314	434	609	222	170	Tr150×6	46	32	126	13	45	116
150	250	HCRL15010	214.4	5360	393	484	734	222	170	Tr150×6	46	32	126	13	45	129
150	300	HCRL15012	214.4	6432	471	534	834	222	170	Tr150×6	46	32	126	13	45	142
200	150	HCRL2006	285.9	4288	530	399	549	260	200	Tr170×6	71	49	126	13	50	145
200	200	HCRL2008	285.9	5718	707	469	669	260	200	Tr170×6	71	49	126	13	50	168
200	250	HCRL20010	285.9	7147	884	519	769	260	200	Tr170×6	71	49	126	13	50	184
200	300	HCRL20012	285.9	8577	1060	569	869	260	200	Tr170×6	71	49	126	13	50	200
250	150	HCRL2506	351.9	5278	530	416	561	290	220	Tr190×6	71	49	160	15	55	190
250	200	HCRL2508	351.9	7037	707	491	698	290	220	Tr190×6	71	49	160	15	55	224
250	250	HCRL25010	351.9	8796	884	541	791	290	220	Tr190×6	71	49	160	15	55	244
250	300	HCRL25012	351.9	10566	1060	591	891	290	220	Tr190×6	71	49	160	15	55	265
300	150	HCRL3006	424.1	6362	530	421	571	315	240	Tr210×6	71	49	160	15	55	230
300	200	HCRL3008	424.1	8462	707	496	696	315	240	Tr210×6	71	49	160	15	55	269
300	250	HCRL30010	424.1	10603	884	546	796	315	240	Tr210×6	71	49	160	15	55	294
300	300	HCRL30012	424.1	12723	1060	596	896	315	240	Tr210×6	71	49	160	15	55	319