HBS-LN LOCK NUT HYDRAULIC CYLINDER

After lifting, the load is held mechanically by a trapezoidal-thread lock nut.
For bridges, viaducts, steel structures and shipyards.



700 bar
WORKING PRESSURE

200–1000 ton
CAPACITY

30 models
MODELS

Single-acting · load return

- Plunger: trapezoidal thread with lock nut
- Stop ring: stops at full stroke
- Port: 3/8″ NPT/F, single line
- Optional tilt saddle (up to 5°)
- Max. working pressure 700 bar (10,153 psi)

MODEL TABLE

Model Code	Capacity t / kN	Stroke mm	Closed Height A mm	Extended Height B mm	Outer Dia. D mm	Nut Height L mm	Oil Volume cm³	Weight kg
HBS-LN-200050	200 / 2,198	50	270	320	265	50	1,570	114
HBS-LN-200100	200 / 2,198	100	320	420	265	50	3,140	132
HBS-LN-200150	200 / 2,198	150	370	520	265	50	4,710	150
HBS-LN-200200	200 / 2,198	200	420	620	265	50	6,280	168
HBS-LN-200250	200 / 2,198	250	540	790	265	92	7,850	217
HBS-LN-200300	200 / 2,198	300	590	890	265	92	9,420	235
HBS-LN-300050	300 / 3,165	50	300	350	320	60	2,261	186
HBS-LN-300100	300 / 3,165	100	350	450	320	60	4,522	213
HBS-LN-300150	300 / 3,165	150	420	570	320	60	6,782	253
HBS-LN-300200	300 / 3,165	200	470	670	320	60	9,043	280
HBS-LN-400050	400 / 4,308	50	340	390	375	70	3,077	290
HBS-LN-400100	400 / 4,308	100	390	490	375	70	6,154	328
HBS-LN-400150	400 / 4,308	150	440	590	375	70	9,232	367
HBS-LN-400200	400 / 4,308	200	505	705	375	70	12,309	418
HBS-LN-500050	500 / 4,946	50	365	415	400	80	3,533	355
HBS-LN-500100	500 / 4,946	100	415	515	400	80	7,065	399
HBS-LN-500150	500 / 4,946	150	480	630	400	80	10,598	458
HBS-LN-500200	500 / 4,946	200	530	730	400	80	14,130	502
HBS-LN-500250	500 / 4,946	250	615	865	400	102	17,663	580

Model Code	Capacity t / kN	Stroke mm	Closed Height A mm	Extended Height B mm	Outer Dia. D mm	Nut Height L mm	Oil Volume cm³	Weight kg
HBS-LN-500300	500 / 4,946	300	665	965	400	102	21,195	624
HBS-LN-700050	700 / 7,122	50	425	475	480	90	5,087	596
HBS-LN-700100	700 / 7,122	100	475	575	480	90	10,174	658
HBS-LN-700150	700 / 7,122	150	535	685	480	90	15,260	735
HBS-LN-700200	700 / 7,122	200	585	785	480	90	20,347	798
HBS-LN-1000050	1000 / 11,127	50	495	545	600	110	7,948	1,086
HBS-LN-1000100	1000 / 11,127	100	545	645	600	110	15,896	1,184
HBS-LN-1000150	1000 / 11,127	150	605	755	600	110	23,844	1,304
HBS-LN-1000200	1000 / 11,127	200	655	855	600	110	31,792	1,402
HBS-LN-1000250	1000 / 11,127	250	715	965	600	110	39,741	1,522
HBS-LN-1000300	1000 / 11,127	300	765	1065	600	110	47,689	1,620

A: closed height, B: extended height, D: outer diameter. Forces are given at 700 bar. Dimensions are for information and confirmed before order. Strokes and capacities not listed are made to order.

DIMENSION DETAILS (MM)

Capacity	Outer Dia. D	Bore E	Plunger Thread F	Port Height H	Saddle Ø G	Base Hole Pitch U	Base Holes K	Shaft Protr. V
200 t	265	200	TR 170×6	48	125	180	4×M20	25
300 t	320	240	TR 210×6	58	150	220	4×M20	25
400 t	375	280	TR 250×6	75	180	250	4×M24	30
500 t	400	300	TR 270×6	77	200	280	5×M24	30
700 t	480	360	TR 320×6	90	230	340	5×M27	35
1000 t	600	450	TR 400×6	120	300	430	5×M27	35

MANUFACTURER

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PRODUCT PAGE

hydrobard.com/en/lock-nut-cylinder.html