

**DLL Series**  
**Single-Acting**  
 High Tonnage Lock Nut Cylinder  
 Load return

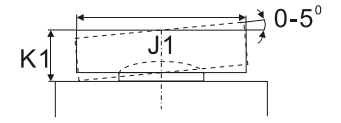
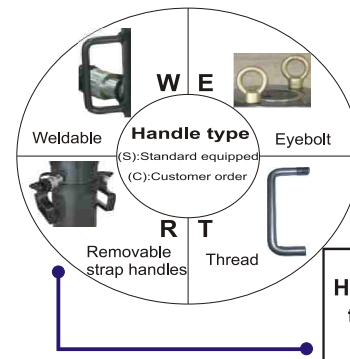
Capacity:  
**50-1,000 ton**

Stroke:  
**50-300 mm**

Maximum Operating Pressure:  
**700 bar**

**DLL Single-Acting, High Tonnage, Lock Nut Cylinders**

- Hard chrome plated inner of barrel resists wear and corrosion.
- Safety lock nut for mechanical load holding.
- Interchangeable, hardened grooved saddles are standard.
- Single-acting load return.
- Overflow port functions as a stroke limiter.
- Special coating on piston and lock nut improves corrosion and abrasion resistance.
- Powder coat finish for increased corrosion resistance and antirust.
- DQC-3/8UF coupler and dust cap are included on all models.



Handle type	Model Number	Cylinder Cap.	Stroke	Effective Area	Coll. Height	Wt.	Optional Tilt Saddle		
							Model Number	Diam.	Height
(S)		ton(kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1(mm)	K1(mm)	
E	DLL-502	50 (496)	50	70.9	164	15	DXKCAT-100	71	24
E	DLL-504		100	70.9	214	20	DXKCAT-100	71	24
E	DLL-506		150	70.9	264	25	DXKCAT-100	71	24
E	DLL-508		200	70.9	314	30	DXKCAT-100	71	24
E	DLL-5010		250	70.9	364	35	DXKCAT-100	71	24
E	DLL-5012		300	70.9	414	40	DXKCAT-100	71	24
E	DLL-1002	100 (929)	50	132.7	187	30	DXKCAT-100	71	24
E	DLL-1004		100	132.7	237	39	DXKCAT-100	71	24
E	DLL-1006		150	132.7	287	48	DXKCAT-100	71	24
E	DLL-1008		200	132.7	337	56	DXKCAT-100	71	24
E	DLL-10010		250	132.7	387	64	DXKCAT-100	71	24
E	DLL-10012		300	132.7	437	73	DXKCAT-100	71	24
E	DLL-1502	150 (1390)	50	198.6	209	53	DXKCAT-200	130	20
E	DLL-1504		100	198.6	259	66	DXKCAT-200	130	20
E	DLL-1506		150	198.6	309	78	DXKCAT-200	130	20
E	DLL-1508		200	198.6	359	92	DXKCAT-200	130	20
E	DLL-15010		250	198.6	409	104	DXKCAT-200	130	20
E	DLL-15012		300	198.6	459	117	DXKCAT-200	130	20
E	DLL-2002	200 (1859)	50	265.6	243	83	DXKCAT-200	130	20
E	DLL-2006		150	265.6	343	117	DXKCAT-200	130	20
E	DLL-20012		300	265.6	493	170	DXKCAT-200	130	20
E	DLL-2502	250 (2562)	50	366.1	249	116	DXKCAT-250	150	21
E	DLL-2506		150	366.1	349	162	DXKCAT-250	150	21
E	DLL-25012		300	366.1	499	234	DXKCAT-250	150	21
E	DLL-3002	300 (3193)	50	456.2	295	173	DXKCAT-300	195	75
E	DLL-3006		150	456.2	395	233	DXKCAT-300	195	75
E	DLL-30012		300	456.2	545	323	DXKCAT-300	195	75
E	DLL-4002	400 (3919)	50	559.9	335	250	DXKCAT-400	225	85
E	DLL-4006		150	559.9	435	327	DXKCAT-400	225	85
E	DLL-40012		300	559.9	585	441	DXKCAT-400	225	85
E	DLL-5002	500 (5118)	50	731.1	375	367	DXKCAT-500	250	91
E	DLL-5006		150	731.1	475	466	DXKCAT-500	250	91
E	DLL-50012		300	731.1	625	617	DXKCAT-500	250	91
E	DLL-6002	600 (5983)	50	854.8	395	446	DXKCAT-600	275	96
E	DLL-6006		150	854.8	495	562	DXKCAT-600	275	96
E	DLL-60012		300	854.8	645	737	DXKCAT-600	275	96
E	DLL-8002	800 (8238)	50	1176.9	455	709	DXKCAT-800	320	123
E	DLL-8006		150	1176.9	555	870	DXKCAT-800	320	123
E	DLL-80012		300	1176.9	705	1110	DXKCAT-800	320	123
E	DLL-10002	1000 (10260)	50	1466.4	495	949	DXKCAT-1000	360	136
E	DLL-10006		150	1466.4	595	1141	DXKCAT-1000	360	136
E	DLL-100012		300	1466.4	745	1430	DXKCAT-1000	360	136

**Cylinder Capacity**

- More above 1000 tons cylinder capacity are also available.
- Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal Lift System.

**DLLR**

**Optional Features**

DLL series cylinder can be designed in Double-acting, please connect to DURAJACK.

Double-acting : DLLR

**WARNING**

Weep hole  
 Coupler

Apply to Single-acting, High tonnage cylinder DLP, DLL and DLS series

When stroke limit is reached; overflow port ("weep hole") spurt oil to prevent piston from being overextended.

**Feature**

- DLL-series are equipped with interchangeable, hardened grooved saddles. (Except capacity above 1000tons)
- DQC-3/8UF coupler and dust cap.
- Top and side mount lifting eye capability.

**Optional Features**

To add optional features to your cylinder, add the follow suffixes to the end of the model number.

Spring return : XF

Example :  
 DLL-502 with spring return, order: DLL-502XF

Technical specifications for these features are available from DURAJACK..

Model Number	Cylinder Cap.	Stroke	Effective Area	Oil Cap.	Coll. Height	Ext. Height	Outside Diam.	Bore Diam.	Plunger Diam. (threaded)
DLL-502	50 (496)	50	70.9	355	164	214	125	95.0	Tr95x4
DLL-504		100	70.9	709	214	314	125	95.0	Tr95x4
DLL-506		150	70.9	1064	264	414	125	95.0	Tr95x4
DLL-508		200	70.9	1418	314	514	125	95.0	Tr95x4
DLL-5010		250	70.9	1773	364	614	125	95.0	Tr95x4
DLL-5012		300	70.9	2127	414	714	125	95.0	Tr95x4
DLL-1002	100 (929)	50	132.7	664	187	237	165	130.0	Tr130x6
DLL-1004		100	132.7	1327	237	337	165	130.0	Tr130x6
DLL-1006		150	132.7	1991	287	437	165	130.0	Tr130x6
DLL-1008		200	132.7	2654	337	537	165	130.0	Tr130x6
DLL-10010		250	132.7	3318	387	637	165	130.0	Tr130x6
DLL-10012		300	132.7	3981	437	737	165	130.0	Tr130x6
DLL-1502	150 (1390)	50	198.6	993	209	259	205	159.0	Tr159x6
DLL-1504		100	198.6	1986	259	359	205	159.0	Tr159x6
DLL-1506		150	198.6	2979	309	459	205	159.0	Tr159x6
DLL-1508		200	198.6	3972	359	559	205	159.0	Tr159x6
DLL-15010		250	198.6	4965	409	659	205	159.0	Tr159x6
DLL-15012		300	198.6	5958	459	759	205	159.0	Tr159x6
DLL-2002	200 (1859)	50	265.6	1330	243	293	235	184.0	Tr184x6
DLL-2006		150	265.6	3989	343	493	235	184.0	Tr184x6
DLL-20012		300	265.6	7995	493	793	235	184.0	Tr184x6
DLL-2502	250 (2562)	50	366.1	1832	249	299	275	216.0	Tr216x6
DLL-2506		150	366.1	5496	349	499	275	216.0	Tr216x6
DLL-25012		300	366.1	10976	499	799	275	216.0	Tr216x6
DLL-3002	300 (3193)	50	456.2	2281	295	345	310	241.0	Tr241x6
DLL-3006		150	456.2	6843	395	545	310	241.0	Tr241x6
DLL-30012		300	456.2	13740	545	845	310	241.0	Tr241x6
DLL-4002	400 (3919)	50	559.9	2800	335	385	350	267.0	Tr266x6
DLL-4006		150	559.9	8399	435	585	350	267.0	Tr266x6
DLL-40012		300	559.9	16800	585	885	350	267.0	Tr266x6
DLL-5002	500 (5118)	50	731.1	3653	375	425	400	305.0	Tr305x6
DLL-5006		150	731.1	10967	475	625	400	305.0	Tr305x6
DLL-50012		300	731.1	21930	625	925	400	305.0	Tr305x6
DLL-6002	600 (5983)	50	854.8	4277	395	445	430	330.0	Tr330x6
DLL-6006		150	854.8	12830	495	645	430	330.0	Tr330x6
DLL-60012		300	854.8	25650	645	945	430	330.0	Tr330x6
DLL-8002	800 (8238)	50	1176.9	5882	455	505	505	387.0	Tr387x6
DLL-8006		150	1176.9	17645	555	705	505	387.0	Tr387x6
DLL-80012		300	1176.9	35370	705	1005	505	387.0	Tr387x6
DLL-10002	1000 (10260)	50	1466.4	7329	495	545	560	432.0	Tr432x6
DLL-10006		150	1466.4	21986	595	745	560	432.0	Tr432x6
DLL-100012		300	1466.4	43980	745	1045	560	432.0	Tr432x6

Base to Advance Port	Stand. Saddle Diam.	Saddle Protrusion from Plgr.	Depth of Plunger Hole	Lock Nut Height	Weight
H (mm)	J (mm)	K (mm)	L (mm)	S (mm)	(kg)
30	71	2	15	36	15
30	71	2	15	36	20
30	71	2	15	36	25
30	71	2	15	36	30
30	71	2	15	36	35
30	71	2	15	36	40
30	71	2	15	44	30
30	71	2	15	44	39
30	71	2	15	44	48
30	71	2	15	44	56
30	71	2	15	44	64
30	71	2	15	44	73
39	130	2	25	44	53
39	130	2	25	44	66
39	130	2	25	44	78
39	130	2	25	44	92
39	130	2	25	44	104
39	130	2	25	44	117
50	130	2	25	50	83
50	130	2	25	50	117
50	130	2	25	50	170
50	150	2	25	56	116
50	150	2	25	56	162
50	150	2	25	56	234
59	139	5	25	60	173
59	139	5	25	60	233
59	139	5	25	60	323
70	159	5	25	70	250
70	159	5	25	70	327
70	159	5	25	70	441
80	179	5	25	80	367
80	179	5	25	80	466
80	179	5	25	80	617
85	194	5	25	85	446
85	194	5	25	85	562
85	194	5	25	85	737
100	224	5	25	100	709
100	224	5	25	100	870
100	224	5	25	100	1110
110	249	5	25	110	949
110	249	5	25	110	1141
110	249	5	25	110	1430

