

RACL-Series, Aluminium Lock Nut Cylinders

ENERPAC

▼ Shown from left to right: RACL1006, RACL504, RACL5010



- Aluminium Lock Nut provides mechanical load holding for extended periods
- Hardened steel stop ring increasing cylinder life and resistance to side-loads of up to 5%
- Hard-Coat finish on all surfaces resists damage and extends cylinder life
- Composite bearings increase cylinder life and side load resistance
- Handles included on all models
- Steel base plate and saddle for protection against load-induced damage
- Integral stop ring prevents plunger over-travel and is capable of withstanding the full cylinder capacity
- High strength return spring for rapid cylinder retraction
- CR400 coupler and dustcap included on all models
- All cylinders meet ASME B-30.1 standards.



◀ The portable lock nut cylinder RACL1506 used for extended load supports during epoxy injection for bridge reinforcement.



Saddles

All RACL-cylinders are equipped with bolt-on removable hardened steel saddles. For Tilt Saddles see next page.

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Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

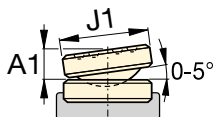
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Cylinder Capacity @ 700 bar ton (kN)	Stroke (mm)	Model Number	Cylinder Effective Area (cm ²)
20 (218)	50	RACL202	31,2
	100	RACL204	31,2
	150	RACL206	31,2
	200	RACL208	31,2
	250	RACL2010	31,2
30 (309)	50	RACL302	44,2
	100	RACL304	44,2
	150	RACL306	44,2
	200	RACL308	44,2
	250	RACL3010	44,2
50 (496)	50	RACL502	70,9
	100	RACL504	70,9
	150	RACL506	70,9
	200	RACL508	70,9
	250	RACL5010	70,9
100 (1002)	50	RACL1002	143,1
	100	RACL1004	143,1
	150	RACL1006	143,1
	200	RACL1008	143,1
	250	RACL10010	143,1
150 (1589)	50	RACL1502	227,0
	100	RACL1504	227,0
	150	RACL1506	227,0
	200	RACL1508	227,0
	250	RACL15010	227,0

Single-Acting, Aluminium Lock Nut Cylinders

Optional Bolt-on Tilt Saddle Dimensions (mm)

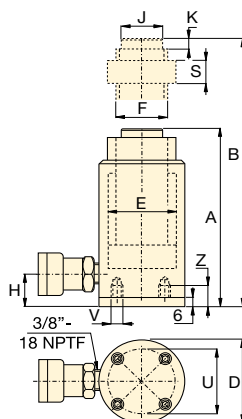
For Cylinder Model / Capacity ton	Tilt Saddle Model Number	Tilt Saddle Diameter J1	Addition to Collapsed Height A1
RACL20, 30	CATS30	55	11
RACL50	CATS50	71	14
RACL100	CATS150	97	19
RACL150	CATS200	126	18



Steel Base Plate Mounting Holes

Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth ¹⁾ Z (mm)
RACL20	70	M6	12
RACL30	80	M6	12
RACL50	110	M6	12
RACL100	150	M10	12
RACL150	200	M10	12

¹⁾ Including Base Plate Height of 6 mm and four (4) base plate bolts M6.



RACL Series



Capacity:
20 - 150 ton

Stroke:
50 - 250 mm

Maximum Operating Pressure:
700 bar

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)	Bottom to Advance Port H (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	Lock Nut Height S (mm)	(kg)	Model Number
156	224	274	85	63	Tr 55 x 4	27	40	3	50	4,0	RACL202
312	274	374	85	63	Tr 55 x 4	27	40	3	50	4,6	RACL204
468	324	474	85	63	Tr 55 x 4	27	40	3	50	5,2	RACL206
624	374	574	85	63	Tr 55 x 4	27	40	3	50	5,8	RACL208
780	424	674	85	63	Tr 55 x 4	27	40	3	50	6,4	RACL2010
221	231	281	100	75	Tr 60 x 4	33	40	3	50	5,4	RACL302
442	281	381	100	75	Tr 60 x 4	33	40	3	50	6,1	RACL304
663	331	481	100	75	Tr 60 x 4	33	40	3	50	6,8	RACL306
883	381	581	100	75	Tr 60 x 4	33	40	3	50	7,5	RACL308
1105	431	681	100	75	Tr 60 x 4	33	40	3	50	8,2	RACL3010
354	236	286	130	95	Tr 80 x 4	30	50	3	50	9,3	RACL502
709	286	386	130	95	Tr 80 x 4	30	50	3	50	10,6	RACL504
1063	336	486	130	95	Tr 80 x 4	30	50	3	50	12,6	RACL506
1417	386	586	130	95	Tr 80 x 4	30	50	3	50	13,2	RACL508
1771	436	686	130	95	Tr 80 x 4	30	50	3	50	14,5	RACL5010
716	296	346	180	135	Tr 110 x 6	46	94	3	75	21,9	RACL1002
1431	346	446	180	135	Tr 110 x 6	46	94	3	75	24,2	RACL1004
2147	396	546	180	135	Tr 110 x 6	46	94	3	75	26,5	RACL1006
2863	446	646	180	135	Tr 110 x 6	46	94	3	75	28,8	RACL1008
3578	496	746	180	135	Tr 110 x 6	46	94	3	75	31,1	RACL10010
1135	323	373	230	170	Tr 140 x 6	51	113	3	80	32,2	RACL1502
2270	373	473	230	170	Tr 140 x 6	51	113	3	80	36,2	RACL1504
3405	423	573	230	170	Tr 140 x 6	51	113	3	80	40,2	RACL1506
4540	473	673	230	170	Tr 140 x 6	51	113	3	80	44,2	RACL1508
5675	523	773	230	170	Tr 140 x 6	51	113	3	80	48,2	RACL15010