

▼ Shown from left to right: RACL1006, RACL504 and RACL506



## To Secure Loads Mechanically



### Saddles

All RACL cylinders are equipped with bolt-on removable saddles of hardened steel. 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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- Aluminum Lock Nut provides mechanical load holding for extended periods
- Hardened steel stop-ring increases 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 dust cap included on all models
- All cylinders meet ASME B-30.1 standards



◀ The portable Lock Nut cylinder RACL1506 used for extended load support during epoxy injection for bridge reinforcement.

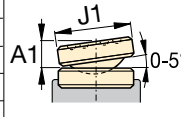
Cylinder Capacity	Stroke*	Model Number	Cylinder Effective Area
ton (maximum)	(in)		(in <sup>2</sup> )
20 (24.2)	1.97	RACL202	4.83
	3.94	RACL204	4.83
	5.91	RACL206	4.83
	7.87	RACL208	4.83
	9.84	RACL2010	4.83
30 (34.2)	1.97	RACL302	6.85
	3.94	RACL304	6.85
	5.91	RACL306	6.85
	7.87	RACL308	6.85
	9.84	RACL3010	6.85
50 (54.9)	1.97	RACL502	10.99
	3.94	RACL504	10.99
	5.91	RACL506	10.99
	7.87	RACL508	10.99
	9.84	RACL5010	10.99
100 (110.9)	1.97	RACL1002	22.19
	3.94	RACL1004	22.19
	5.91	RACL1006	22.19
	7.87	RACL1008	22.19
	9.84	RACL10010	22.19
150 (175.9)	1.97	RACL1502	35.18
	3.94	RACL1504	35.18
	5.91	RACL1506	35.18
	7.87	RACL1508	35.18
	9.84	RACL15010	35.18

\* Custom strokes available.

# Single-Acting, Spring-Return, Lock Nut Cylinders

## Optional Tilt Saddle Dimensions (in)

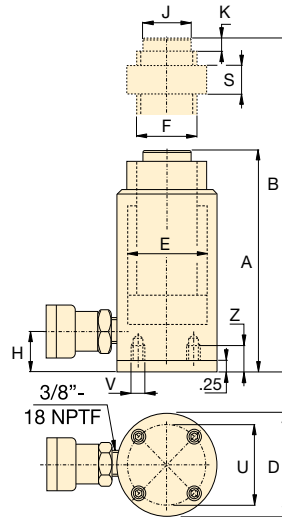
For Cylinder Model / Capacity (ton)	Tilt Saddle Model Number	Tilt Saddle Diameter	Addition to Collapsed Height A1
		J1	A1
<b>RACL20, 30</b>	<b>CATS30</b>	2.17	0.43
<b>RACL50</b>	<b>CATS50</b>	2.80	0.55
<b>RACL100</b>	<b>CATS150</b>	3.82	0.75
<b>RACL150</b>	<b>CATS200</b>	4.96	0.71



## Steel Base Plate Mounting Holes

Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth <sup>1)</sup> Z (in)
<b>RACL20</b>	2.76	M6	0.47
<b>RACL30</b>	3.15	M6	0.47
<b>RACL50</b>	4.33	M6	0.47
<b>RACL100</b>	5.91	M10	0.47
<b>RACL150</b>	7.87	M10	0.47

<sup>1)</sup> Base plate height of 0.25" and (4) four base plate bolts.



## RACL Series



Capacity:  
**20 - 150 tons**

Stroke:  
**1.97 - 9.84 inches**

Maximum Operating Pressure:  
**10,000 psi**



### Steel Base Plate

The steel base plate protects the cylinder base from damage, it should not be removed. See warning on page 11.

Oil Capacity (in <sup>3</sup> )	Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter (Threaded) F (in)	Base to Advance Port H (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Lock Nut Height S (in)	Weight (lbs)	Model Number
9.52	8.83	10.80	3.35	2.48	2.17	1.07	1.58	0.12	1.97	8.8	<b>RACL202</b>
19.03	10.80	14.73	3.35	2.48	2.17	1.07	1.58	0.12	1.97	10.1	<b>RACL204</b>
28.55	12.76	18.67	3.35	2.48	2.17	1.07	1.58	0.12	1.97	11.4	<b>RACL206</b>
38.01	14.73	22.61	3.35	2.48	2.17	1.07	1.58	0.12	1.97	12.7	<b>RACL208</b>
47.53	16.70	26.54	3.35	2.48	2.17	1.07	1.58	0.12	1.97	14.1	<b>RACL2010</b>
13.49	9.10	11.07	3.94	2.95	2.36	1.31	1.58	0.12	1.97	11.9	<b>RACL302</b>
26.99	11.07	15.01	3.94	2.95	2.36	1.31	1.58	0.12	1.97	13.4	<b>RACL304</b>
40.48	13.04	18.95	3.94	2.95	2.36	1.31	1.58	0.12	1.97	14.9	<b>RACL306</b>
53.91	15.01	22.88	3.94	2.95	2.36	1.31	1.58	0.12	1.97	16.5	<b>RACL308</b>
67.40	16.98	26.82	3.94	2.95	2.36	1.31	1.58	0.12	1.97	18.0	<b>RACL3010</b>
21.65	9.29	11.27	5.12	3.74	3.15	1.19	1.97	0.12	2.95	20.5	<b>RACL502</b>
43.30	11.26	15.21	5.12	3.74	3.15	1.19	1.97	0.12	2.95	23.4	<b>RACL504</b>
64.95	13.23	19.14	5.12	3.74	3.15	1.19	1.97	0.12	2.95	27.8	<b>RACL506</b>
86.49	15.20	23.08	5.12	3.74	3.15	1.19	1.97	0.12	2.95	29.1	<b>RACL508</b>
108.14	17.17	27.02	5.12	3.74	3.15	1.19	1.97	0.12	2.95	31.9	<b>RACL5010</b>
43.71	11.65	13.63	7.09	5.32	4.33	1.82	3.70	0.12	2.95	48.2	<b>RACL1002</b>
87.43	13.62	17.57	7.09	5.32	4.33	1.82	3.70	0.12	2.95	53.3	<b>RACL1004</b>
131.14	15.59	21.50	7.09	5.32	4.33	1.82	3.70	0.12	2.95	58.4	<b>RACL1006</b>
174.64	17.57	25.44	7.09	5.32	4.33	1.82	3.70	0.12	2.95	63.4	<b>RACL1008</b>
218.35	19.54	29.38	7.09	5.32	4.33	1.82	3.70	0.12	2.95	68.5	<b>RACL10010</b>
69.30	12.72	14.68	9.06	6.69	5.51	2.02	4.45	0.12	3.15	71.0	<b>RACL1502</b>
138.61	14.69	18.62	9.06	6.69	5.51	2.02	4.45	0.12	3.15	79.8	<b>RACL1504</b>
207.91	16.65	22.56	9.06	6.69	5.51	2.02	4.45	0.12	3.15	88.6	<b>RACL1506</b>
276.87	18.62	26.49	9.06	6.69	5.51	2.02	4.45	0.12	3.15	97.4	<b>RACL1508</b>
346.17	20.59	30.43	9.06	6.69	5.51	2.02	4.45	0.12	3.15	106.3	<b>RACL15010</b>