

▼ 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



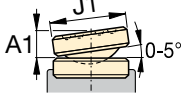
◀ The portable Lock Nut cylinder RACL1506 used for extended load support during epoxy injection for bridge reinforcement.

Cylinder Capacity ton (maximum)	Stroke* (in)	Model Number	Cylinder Effective Area (in ²)
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

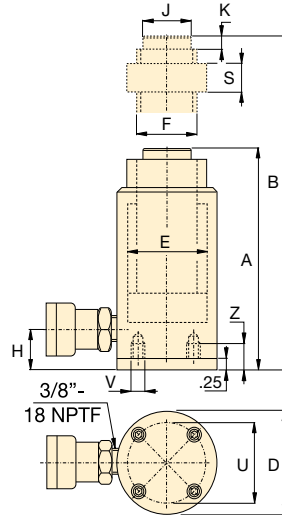
Optional Tilt Saddle Dimensions (in)

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

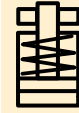
Steel Base Plate Mounting Holes

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

¹⁾ 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	Collapsed Height	Extended Height	Outside Diameter	Cylinder Bore Diameter	Plunger Diameter (Threaded)	Base to Advance Port	Saddle Diameter	Saddle Protrusion from Plunger	Lock Nut Height	Weight	Model Number
	(in ³)	A (in)	B (in)	D (in)	E (in)	F (in)	H (in)	J (in)	K (in)	S (in)	(lbs)	
	9.52	8.83	10.80	3.35	2.48	2.17	1.07	1.58	0.12	1.97	8.8	RACL202
	19.03	10.80	14.73	3.35	2.48	2.17	1.07	1.58	0.12	1.97	10.1	RACL204
	28.55	12.76	18.67	3.35	2.48	2.17	1.07	1.58	0.12	1.97	11.4	RACL206
	38.01	14.73	22.61	3.35	2.48	2.17	1.07	1.58	0.12	1.97	12.7	RACL208
	47.53	16.70	26.54	3.35	2.48	2.17	1.07	1.58	0.12	1.97	14.1	RACL2010
	13.49	9.10	11.07	3.94	2.95	2.36	1.31	1.58	0.12	1.97	11.9	RACL302
	26.99	11.07	15.01	3.94	2.95	2.36	1.31	1.58	0.12	1.97	13.4	RACL304
	40.48	13.04	18.95	3.94	2.95	2.36	1.31	1.58	0.12	1.97	14.9	RACL306
	53.91	15.01	22.88	3.94	2.95	2.36	1.31	1.58	0.12	1.97	16.5	RACL308
	67.40	16.98	26.82	3.94	2.95	2.36	1.31	1.58	0.12	1.97	18.0	RACL3010
	21.65	9.29	11.27	5.12	3.74	3.15	1.19	1.97	0.12	2.95	20.5	RACL502
	43.30	11.26	15.21	5.12	3.74	3.15	1.19	1.97	0.12	2.95	23.4	RACL504
	64.95	13.23	19.14	5.12	3.74	3.15	1.19	1.97	0.12	2.95	27.8	RACL506
	86.49	15.20	23.08	5.12	3.74	3.15	1.19	1.97	0.12	2.95	29.1	RACL508
	108.14	17.17	27.02	5.12	3.74	3.15	1.19	1.97	0.12	2.95	31.9	RACL5010
	43.71	11.65	13.63	7.09	5.32	4.33	1.82	3.70	0.12	2.95	48.2	RACL1002
	87.43	13.62	17.57	7.09	5.32	4.33	1.82	3.70	0.12	2.95	53.3	RACL1004
	131.14	15.59	21.50	7.09	5.32	4.33	1.82	3.70	0.12	2.95	58.4	RACL1006
	174.64	17.57	25.44	7.09	5.32	4.33	1.82	3.70	0.12	2.95	63.4	RACL1008
	218.35	19.54	29.38	7.09	5.32	4.33	1.82	3.70	0.12	2.95	68.5	RACL10010
	69.30	12.72	14.68	9.06	6.69	5.51	2.02	4.45	0.12	3.15	71.0	RACL1502
	138.61	14.69	18.62	9.06	6.69	5.51	2.02	4.45	0.12	3.15	79.8	RACL1504
	207.91	16.65	22.56	9.06	6.69	5.51	2.02	4.45	0.12	3.15	88.6	RACL1506
	276.87	18.62	26.49	9.06	6.69	5.51	2.02	4.45	0.12	3.15	97.4	RACL1508
	346.17	20.59	30.43	9.06	6.69	5.51	2.02	4.45	0.12	3.15	106.3	RACL15010