

RACH, Aluminium Hollow Plunger Cylinders

ENERPAC 
POWERFUL SOLUTIONS. GLOBAL FORCE.

▼ Shown from left to right: RACH-1504, RACH-15010, RACH-206, RACH-306



- Hollow plunger design allows for both pull and push forces
- Composite bearings increase cylinder life and sideload resistance
- Hard-Coat finish on all surfaces resists damage and extends cylinder life
- Floating center tube increases seal and product life
- Handles standard 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.

The Lightweight Solution for Tensioning and Testing



Saddles

All RACH-cylinders are equipped with bolt-on hollow removable saddles of hardened steel.



Lightweight Hand Pumps

The Enerpac composite lightweight hand pumps P-392 or P-802 make the optimal lightweight set.

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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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◀ An RACH-306 powered by a P-392 hand pump used to extract corroded carriage pins of refuse collection vehicles.

▼ SELECTION CHART

Cylinder Capacity @ 700 bar ton (kN)	Stroke (mm)	Model Number *	Cylinder Effective Area (cm ²)
20 (229)	50	RACH-202	32,7
	150	RACH-206	32,7
30 (358)	50	RACH-302	51,1
	150	RACH-306	51,1
60 (596)	100	RACH-604	84,7
	150	RACH-606	84,7
100 (1157)	150	RACH-1006	164,6

* Note: Every RACH-cylinder is available with a stroke of 50, 100, 150, 200 and 250 mm.

Single-Acting, Aluminium Hollow Plunger Cylinders

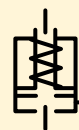


Aluminium versus Steel

Aluminium cylinders, while offering the most lightweight solution, also have some unique limitations due to material properties. It differs from steel in that it has a lower finite fatigue life. Aluminium cylinders should NOT be used in high-cycle applications such as production.

The Enerpac line of aluminium cylinders are designed to provide 5000 cycles at their recommended pressure. **This limit should not be exceeded.** In normal lifting and many maintenance applications, this should provide a lifetime of use.

RACH Series



Capacity:

20 - 100 ton

Stroke:

50 - 150 mm

Center Hole Diameter:

27 - 79 mm

Maximum Operating Pressure:

700 bar



Steel Base Plate

The steel base plate protects the cylinder from damage, it should not be removed.

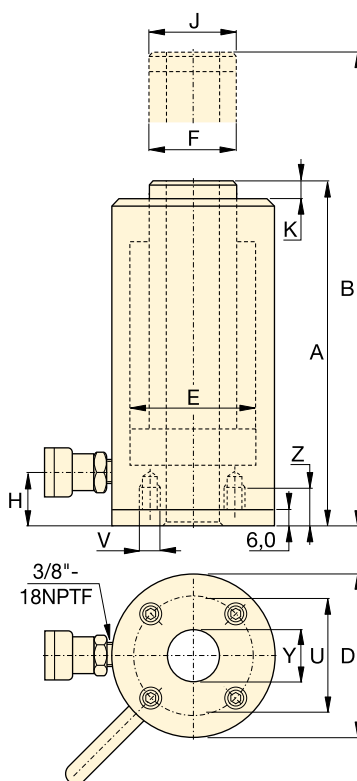
The base holes in these aluminium cylinders are designed for securing the steel base plate. **They will not withstand the capacity of the cylinder.**

Do not use the base holes in these aluminium cylinders to attach any device to the cylinder.

Steel Base Plate Mounting Holes

Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth ¹⁾ Z (mm)
RACH-20	80	M6	12
RACH-30	110	M6	12
RACH-60	160	M6	12
RACH-100	230	M6	12

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



Standard Features

- CR-400 coupler and dustcap included on all models.
- All cylinders meet ASME B-30.1 and ISO 10100 standards.

Oil Capacity (cm ³)	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Bottom to Adv. Port H (mm)	Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	Center Hole Diameter Y (mm)	Weight (kg)	Model Number *
164	188	238	100	75	55	29	55	10	27	5,2	RACH-202
491	315	465	100	75	55	29	55	10	27	7,1	RACH-206
256	208	258	130	95	70	29	70	10	34	8,0	RACH-302
766	333	483	130	95	70	29	70	10	34	11,2	RACH-306
847	315	415	180	130	100	61	100	12	54	19,5	RACH-604
1270	380	530	180	130	100	61	100	12	54	22,8	RACH-606
2487	391	541	250	185	145	61	145	14	79	46,2	RACH-1006