

▼ 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 prevent metal-to-metal contact, increasing cylinder life and resistance to side-loads of up to 10%
- 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



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

## 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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### Lifting an Unbalanced Load

When lifting an unbalanced load Enerpac Integrated Lifting Systems can be the

solution with multiple lift point capabilities from 4 to 64 points.

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### ▼ SELECTION CHART

Cylinder Capacity @ 700 bar ton (kN)	Stroke (mm)	Model Number *	Cylinder Effective Area (cm <sup>2</sup> )
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.

These 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**

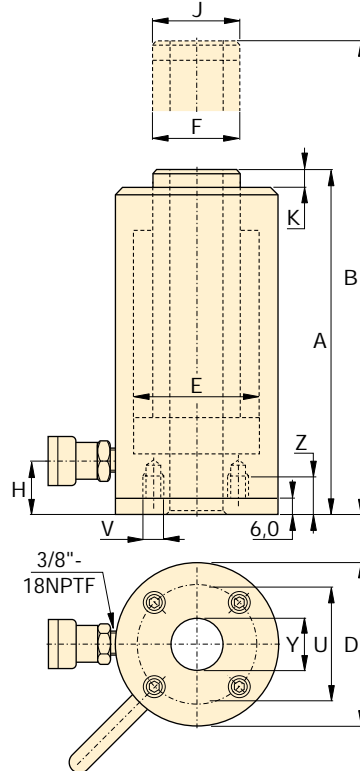
Center Hole Diameter:  
**27-79 mm**

Maximum Operating Pressure:  
**700 bar**



## Steel Base Plate Mounting Holes

The mounting holes in these aluminium cylinders are designed for fixturing the steel base plate. They will not withstand the capacity of the cylinder. The steel base plate protects the cylinder from damage and should not be removed.



## Other Cylinder Capacities

Aluminium Hollow Plunger Cylinders are also available in capacities of 150 ton.

## Additional Stroke Lengths

All cylinder models are available with standard stroke lengths of 50, 100, 150, 200 and 250 mm.

Visit [www.enerpac.com](http://www.enerpac.com) for all cylinder models and details.

## Steel Base Plate Mounting Holes

Cylinder Model / Capacity ton	Bolt Circle U (mm)	Thread V (mm)	Thread Depth <sup>1)</sup> Z (mm)
RACH-20	80,0	M6	12
RACH-30	110,0	M6	12
RACH-60	160,0	M6	12
RACH-100	230,0	M6	12

<sup>1)</sup> Including Base Plate Height of 6 mm.



## 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 <sup>3</sup> )	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	75,0	55,0	29	55	10,0	27,0	5,2	RACH-202
491	315	465	100	75,0	55,0	29	55	10,0	27,0	7,1	RACH-206
256	208	258	130	95,0	70,0	29	70	10,0	34,0	8,0	RACH-302
766	333	483	130	95,0	70,0	29	70	10,0	34,0	11,2	RACH-306
847	315	415	180	130,0	100,0	61	100	12,0	54,0	19,5	RACH-604
1270	380	530	180	130,0	100,0	61	100	12,0	54,0	22,8	RACH-606
2487	391	541	250	185,0	145,0	61	145	14,0	79,0	46,2	RACH-1006