



PIGGY-BACK CYLINDERS



OEM HYDRAULIC CYLINDER SPECIALISTS



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RAM Piggy-back cylinder design provides maximum stroke where space is restricted. For applications that require a shorter retraction area, these cylinders can almost double the stroke available while maintaining consistent force for the full stroke. RAM understands the high demands placed on this type of cylinder.

The RAM Piggy-back features:

- Light to heavy duty applications
- Better retraction forces
- Simplified seal kits with consistent barrel diameter
- Standard pressure 3000 PSI; up to 5000 PSI available
- Non-shaft fed cylinders can incorporate smart sensor technology

The assessment of your equipment's operating environment is important, as RAM's expertise is in supplying cylinders that are specifically engineered for your application.

A wide range of sizes (bore & stroke) are available for RAM Piggy-back cylinders. We are well-versed in the latest technologies in materials, cylinder componentry, cylinder design and manufacturing methods to ensure your cylinder functions exactly as required.

Customized options include:

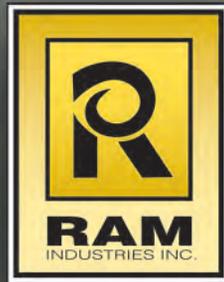
- High strength materials such as 4140, QT100, AR (Abrasion Resistant) and other high yield strength carbon and alloy steels
- Increased shaft protection through induction hardened rods, thicker chrome, chrome over nickel, and other material alternatives
- Leading edge seal technologies for heavy duty use, high wear environments, and abrasion resistance
- Expanded seal sets to resist shock pressures
- Bellows for external shaft protection
- External guards for ports, hoses and oil lines
- Bolt in glands for added strength
- High pressure ports (SAE Code 61/62 4 bolt flange designs)
- Integrated valve options (relief, counterbalance or PO check) to protect the cylinder, maintain position, and control the rate of extension and retraction to counteract external forces
- Safety lockout
- Position sensor technology for increased cylinder precision and control
- Replaceable bushings and bearings for easier serviceability
- Hardened pins for added durability
- Custom designed mounting configurations to accommodate specific requirements



BUILT TO YOUR SPECIFICATIONS

Rated Pressure:	Up to 5000 PSI	End Mounts:	Trunnion, cross tube
Rod Size:	Starting at 1 1/2"	Head Style:	Bolt in flange type manufactured from ductile or steel
Rod Material:	High tensile SAE C1045, ground and polished hard chrome plated	Ports:	ORB, NPT, or Code 61 or 62 4-bolt flange
Barrel Size:	Up to 14"	Port Plugs:	High quality steel
Barrel Material:	High tensile SAE C1026/St52.3 cold drawn tube precision honed for extended seal life	Internal Seals:	North American
Gland Material:	Ductile iron 65-45-12 (ASTM A536) or steel (AISI 1026)	Paint Finish:	2 part urethane black
Piston Material:	Ductile iron 65-45-12 (ASTM A536) or steel (AISI 1026)	Testing:	100% full cycle tested





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