

Turning Ideas Into Engineered Solutions  
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# Engineered Solutions

In the specialized business of providing hydraulic cylinders for industries ranging from aerospace to material handling, no two applications – no two customers – are identical. Each

is specific, one of a kind. And each requires its own highly specialized solution.

That's exactly why businesses worldwide call on Kaydon Fluid Power. To engineer hydraulic cylinder *solutions* that meet their unique requirements, proprietary designs, specific market and application needs, including:

- Motion compensation on semi-submersible oil platforms
- Boom extensions in truck-mounted and self-propelled cranes
- Mast raise cylinders on fork trucks
- ...and many other specialized applications for custom cylinders

Solutions utilizing the latest technology, materials, manufacturing processes, computer-aided design, quality inspection and engineering techniques. Enhanced by chrome plating, heat treating, custom finishing capabilities, and our exclusive in-house foundry. Solutions that exceed OEM quality standards, and are delivered promptly by our own tractor trailer fleet.

Only at Kaydon will you find cylinder solutions developed jointly by your engineers and ours, working together on all facets of the project, from design and prototyping, to testing and final production. Turning your *ideas* into engineered *solutions*.

**Kaydon Fluid Power.** Let us turn your ideas into engineered solutions.



The world's largest equipment manufacturers call upon Kaydon to custom-engineer hydraulic cylinder solutions that meet their unique needs for construction, forestry, agricultural equipment, material handling, defense, instrumentation, truck cranes, aerial work platforms and other diverse applications.



# Cylinder Solutions

Cylinders with such custom features as:

- Trunnion, clevis, pin and other specialized mounts
- Special seals for cold weather, high temperatures, unique fluids
- Integrated counterbalance valves
- Components that meet the requirements of your application

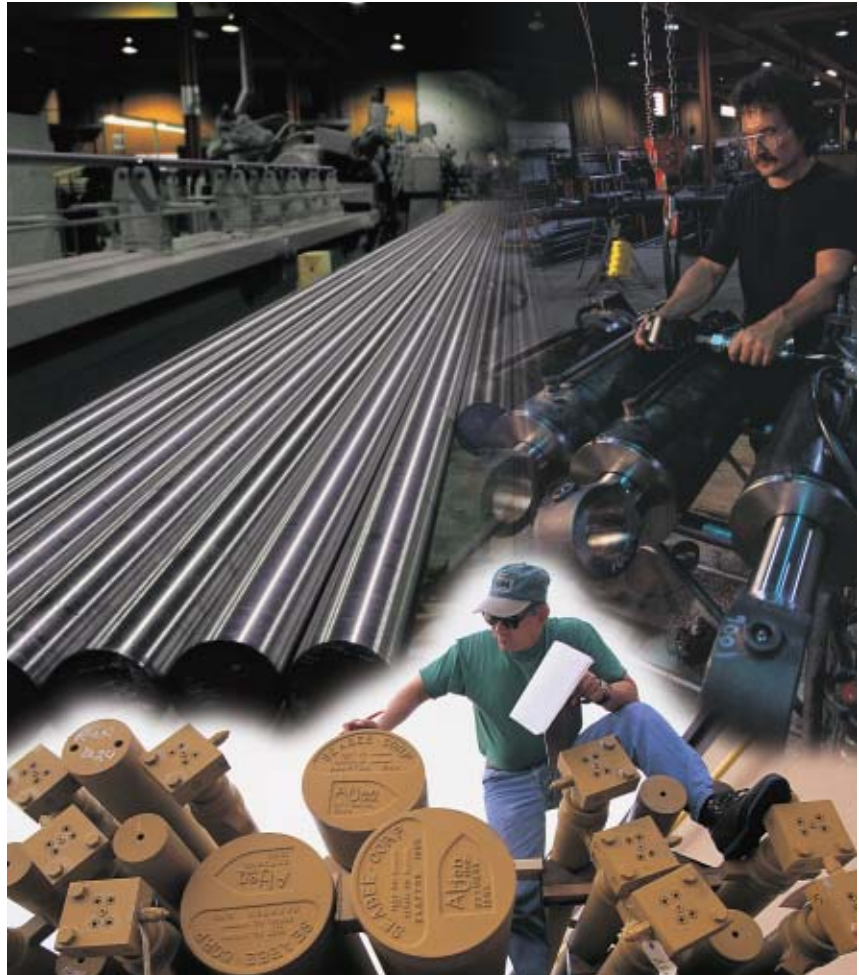
Engineered for optimum performance through chrome plating, cylindrical and centerless grinding, skive-roller burnishing and other specialized finishing processes. So precise that they meet – and exceed – OEM quality standards, USCG, ABS and DNV qualifications, and -20° F Charpy certification. Finish painted to your requirements. Competitively priced, from small runs to high volumes.

Whether you need:

- Bore sizes from 1 to 27 inches
- Single stroke ranges up to 50 feet
- Pressure ratings up to 10,000 PSI

...or other highly specialized requirements that cannot fall short of the mark, isn't it time you stopped shopping for products...and just demanded solutions?

**Kaydon Fluid Power.** Let us engineer your cylinder solutions.





Being able to offer engineering, manufacturing, specialty finishing and foundry capabilities – *all under one roof* – is a rare combination in today's business environment. But it's this very combination that distinguishes Kaydon Fluid Power from its competitors.

# Processing Solutions

With capabilities that include over 700,000 square feet of manufacturing space. Complete design analysis through CAD/CAM, FEA and other processes. Skilled designers with over 300 years of combined experience in hydraulic engineering. A foundry that processes 480 tons of alloy steel, grey and ductile iron every month.

Offering customers such unique capabilities as:

- Heat treating (normalizing/annealing)
- Six-axis CNC machining centers
- Skip hardened rods
- Engine lathes with swings to 52 inches, part lengths to 600 inches and through-spindle bores to 20 inches
- Full line foundry pattern shop
- Grinding, honing, chrome plating and other custom finishing processes
- Quality assured through spectrograph, internal microstructure, liquid penetrant, hardness and other sophisticated testing equipment
- The capacity to service any need, any customer requirement, whether it's a small or high volume run
- ...and all under one roof



You'll only find this rare combination in one place, with one company, worldwide.

**Kaydon Fluid Power.** Turning ideas into engineered solutions.

