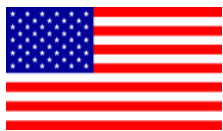


Hyco Alabama and the worldwide engineering and manufacturing resources of Hyco International, can provide technical services for users of Hydraulic Cylinders:-

- CONTRACT DESIGN ENGINEERING TO DEVELOP APPLICATION-SPECIFIC CYLINDERS
 - CONTRACT MANUFACTURING OF CYLINDER COMPONENTS AND ASSEMBLIES
 - AFTERMARKET HYDRAULIC CYLINDERS AND COMPONENTS
 - FACTORY REMANUFACTURED HYDRAULIC CYLINDERS
 - INDEPENDENT WARRANTY AND FAILURE ANALYSIS

Hyco International Engineering and Manufacturing Locations



USA



Canada



Europe



Brasil

CONTRACT DESIGN ENGINEERING TO DEVELOP APPLICATION-SPECIFIC CYLINDERS

Group knowledge base of multiple Mobile Hydraulic Applications developed over more than 70 years in the Hydraulic Cylinder Industry.

Cylinder design and development covering all sizes and types of cylinders from simple solid rod single acting to double acting multi-stage telescopics.

- FEA capabilities
- Benchmarking Expertise
- Product Test Capabilities
- NFPA Specification Support
- 3-D modeling through Solid Edge
- Multi-national language support

CONTRACT MANUFACTURING OF CYLINDER COMPONENTS AND ASSEMBLIES

- Multiple international locations
- Best practices from multi-plant international operations.
- Diversified process knowledge
- In-house processes including
 - heat treating
 - centerless grinding
 - chrome plating
 - friction welding
 - Skive and roller burnishing
 - Multi-process metal cutting capabilities

AFTERMARKET HYDRAULIC CYLINDERS AND COMPONENTS

- Multi-specification offering of Telescopic Cylinders for OEM Dump Truck, Roll-Off, Refuse, Construction and Lifting applications.
- Cross reference data base for OE and Standard Telescopic Cylinders (Parker, Custom Hoist).
- Raw Material and Component availability for repair and low volume requirements including:-
 - Tube and Chromed Rod (Solid and Hollow) cut to length
 - Sealing Elements and Seal Kits
 - Castings and forgings, Raw and Machined
 - Rod and Tube Assemblies

FACTORY REMANUFACTURED/REPAIRED HYDRAULIC CYLINDERS

- Fast evaluation and reman times
- Can handle most design and sizes of cylinders.
- Specialize in big bore/long stroke and telescopic cylinders
- Complete range of in-house resources including:-
 - Design engineering
 - Full quality capabilities under ISO Certification
 - Machining
 - Chrome Plating
 - Extensive floor stock of sealing elements, kits and components
 - OEM certified by wide range of major equipment manufacturers
- Full Reman warranties and product support.

INDEPENDENT WARRANTY AND FAILURE ANALYSIS AND EXPERT WITNESS SERVICES

Based on 70 years of Hydraulic Cylinder design and application development, Hyco has unique capabilities to identify root causes of cylinder failures.

Add the Hyco web-based administration tools to the qualified human resources and the inspection and test capabilities, and Hyco is able to offer complete support for warranty claim evaluations and to provide root cause analyses for cylinder field failures.

As well as identifying root causes, Hyco is capable of developing engineering solutions to prevent future problems.

Hyco has qualified senior managers with Expert Witness experience who can be used to provide independent and detailed technical analyses in disputes.



TECHNICAL SERVICES

Please call for a project proposal and pricing.



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