

Tire Industry Components

If rugged design and long life
are what you need...

mixing

tire build

curing

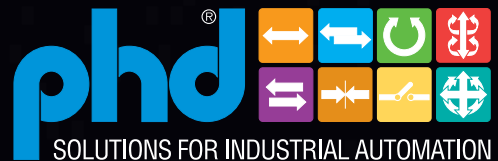
we have the answer.

TIRE INDUSTRY

TIREG01B



PHD is a member of the
MAC Distributor Network



SOLUTIONS FOR INDUSTRIAL AUTOMATION

PHD, Inc. • P.O. Box 9070 • Fort Wayne, IN 46899 • (260) 747-6151 • FAX (260) 747-6754
www.phdinc.com • phdinfo@phdinc.com

Tire Industry Components

We have the solutions to reduce downtime and increase production.

Dedicated Division

This dedicated division is focused totally on the specific needs of the tire industry — *We speak your language.*

We have a full line of components; cylinders, escapements, grippers, slides, rotary actuators, clamps, multi-motion actuators, and proximity switches which can be combined or used individually to provide the motion your application requires. With millions of component variations, we can help in the mixing, component prep, tire build, curing, and final finish areas to increase your productivity.

If an application requires a modified component, PHD team is ready to help. We welcome special requests for unique products, regardless of quantity or frequency of order. PHD and our local MDN partner will work closely with you to find a solution for your application needs.

The products, supported by our strong commitment to delivery and service, have made us a leader in industrial automation.



www.phdinc.com • 1-800-624-8511

Tire Industry Components

MIXING

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Series HV Cylinder

- Use on Banbury® mixing machine - dust ring stop
- Long life design for low maintenance
- NFPA standard mounting for 3/4", 1", & 1-1/8" bore sizes

Banbury® is a registered trademark of the Farrel Corporation.



Series 1000-8000 Rotaries

- Heavy duty
- Wide variety of options & accessories
- Versatile design
- High torque



COMPONENT PREP

Series AV ML with Clevis Mount

- Use on Bias Cutter
- Long life design for low maintenance
- NFPA standard mounting for 3/4", 1", & 1-1/8" bore sizes



Series SD/SE or SK/SL Slides

- Offered in long or short body
- Can be ordered with standard or oversized shafts
- Standard dowel pin holes for ease of mounting
- Versatile unit with several standard options
- Can also be used for stitchers in the tire build process



TIRE BUILD

Series SFP Slide

- Space saving design
- Smooth, precise movement
- High load capacity with very low deflection
- Two bore sizes offered
- Long travel lengths



Series CV with Trunnion Mounts

- Adjustable Center Trunnion available in bore sizes 32 mm - 100 mm (Meets ISO 6431 standards)
- Front Trunnion available in bore sizes 20 mm - 100 mm, 2 options available



Series GRR Gripper

- Narrow width and long travel
- Rugged design withstands high impact and shock loads
- Rack and pinion jaw synchronization with minimal backlash
- 5 million cycles minimum rated life with standard seals



CURING

Series CV with Rodlok®

- Used in loading and unloading of tires into the press
- ISO/VDMA interchange for easy mounting
- Rodlok® option for easy and dependable locking of piston rod
- Also used in ply application and tread server in tire build



FINAL FINISH

PHD Slides

- Series SFP Slide
- Series SD/SE Slides
- Series SK/SL Slides



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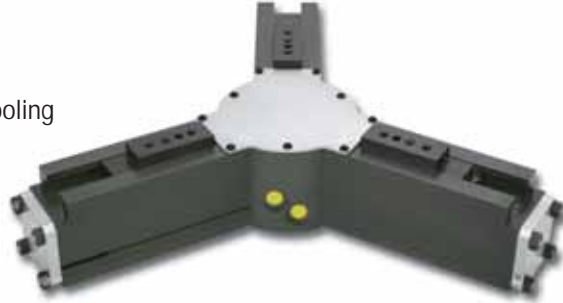
Tire Industry Components

Custom units

If it's not cataloged, it doesn't mean we can't make it.

ML305420 Gripper

- Jaw travel 60 mm (2.4 in) per jaw
- Grip force = 338 lb @ 100 psi
- Dowel pin holes on jaws for accurate tooling



If your process calls for alternative materials, PHD is your preferred supplier.



Distributor Support

PHD distributors are factory trained, application oriented, and carry a wide range of supporting product lines. Your local distributor will take the time to thoroughly analyze and assess your specific needs. Backed by PHD's superior service and engineering expertise, you can be assured of a cost-effective, field proven solution. The solution offered will be the best blend of expertise available from the close PHD-distributor partnership.

Contact your local distributor today for the full story including a working product demonstration at your site.



Superior Delivery

Nowhere in our industry is product delivery taken as seriously as it is at PHD. Even with the wide range of options offered on PHD products, shipping time in most cases is one to three working days. In today's fast-paced competitive markets, we understand the need for quick turnaround. With a track record of 98% on-time shipments, you can be assured of prompt delivery. And if you find yourself in an emergency situation, expedited service is also available.



Unique Solutions

Unique application designs require unique components. With over 50 years of experience, our Unique Solutions team welcomes special requests for unique products, regardless of quantity or frequency of order. PHD is willing and able to develop drop-in replacement actuators for your toughest applications. Request quotes online at www.phdinc.com/unlimited.



Engineering Software

PHD's engineering software and online tools provide powerful design and selection capabilities at your fingertips. The software eliminates risk and simplifies your design process and component selection, while offering significant time savings.



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9009 Clubbridge Drive
P.O. Box 9070 • Fort Wayne, IN 46899 U.S.A.
Tel. 260-747-6151 • Fax 260-747-6754
phdinfo@phdinc.com

PHDinEurope GmbH

Arnold-Sommerfeld-Ring 2
52499 Baesweiler, Germany
Tel. +49 (0)2401 805 230 • Fax +49 (0)2401 805 232
info@PHDinEurope.de

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