Solutions for The Tire Industry

Rugged design and long life for reduced downtime and increased production

Mixing
Component Preparation
Tire Build
Curing
Final Finish

TIRE02
We have the solutions to reduce downtime and increase production.

PHD offers an extensive line of standard pneumatic actuators that are known for long life and high quality. Over the 55 years of innovation, PHD has extended its product offerings to include built-to-need components, price alternative components, electric actuators, specialty workholding clamps, and motion control robots. From single actuator solutions to multi-unit systems, PHD can provide total solution flexibility for practically any application requirement.

Mixing

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

Series 1000-8000 Rotary Actuators
Heavy duty
Wide variety of options & accessories
Versatile design

Component Preparation

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 Slides
Series SD and SE Slides are streamlined, thruster style slides
Exceptional performance and low price
Many options available to increase capabilities
Rodlok option available

Series SK/SL Slides
Powered by Series CV Cylinders
SK ideal for short travel in horizontal or vertical application, where slide length and weight are critical
Available with Rodlok

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Tire Build

Series CV with Trunnion Mounts
- Meets ISO trunnion dimensions
- Available on all Series CV Cylinders
- Available on bore sizes 20 mm - 100 mm
- Stroke range 25 mm - 2000 mm
- Built-in shock pads
- Cushions available
- Corrosion resistance available

Series GRR Gripper
- Narrow width and long travel to 350 mm
- 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

Series EGR Electric Gripper
- Narrow width and long travel to 350 mm
- Rugged design withstands high impact and shock loads
- Rack and pinion jaw synchronization with minimal backlash
- Your Motor, Your Way design with various mounting configurations

Check out our animations for more information.
Curing

Tire Stop Solution

A tire fresh from the press is subject to deformation due to mechanical hard stops such as cylinder rods and staging stops.

Where roller conveyors are used, adding a friction plate to the PHD SAH150x1-AE under the conveyor rollers successfully stops the rollers thus stopping the tire without marking it.

Series CV with Rodlok
Used in loading and unloading of tires into the curing 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

Series CV Cylinder with CNOMO Mounting for Press Lock - ML309773
Available in bore sizes 20 mm - 100 mm
Available with stud mounting on both ends
Designed for long life

Curing Press Water Cylinder - ML310536
3-1/4" bore with 44" stroke
Trunnion mount
Longer life than competitor units
Piston wear band to maximize piston seal life
Double rod seal to prevent leakage
Stainless steel construction and electroless nickel plating to prevent corrosion
Drop-in replacement for quick changeover

SAH150x1-AE Tire Stop
Non-contact roller conveyor stop eliminates marking on the tire
Field repairable

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

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Final Finish

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