INJECTION MOLDING
STRETCH BLOW MOLDING
EXTRUSION BLOW MOLDING
FILLING
PACKAGING

INCREASE PRODUCTION • REDUCE MAINTENANCE • REDUCE DOWNTIME • REDUCE SCRAP

INJECTION MOLDING
STRETCH BLOW MOLDING
EXTRUSION BLOW MOLDING
FILLING
PACKAGING
Anywhere in the plant...

we have solutions for your bottleneck.

Injection Mold Preforms
- High Heat Air Dryer Cylinders

Soft Drop to Gaylord/Feed to Hopper
- Series RL Rotary to rotate bucket to unload preforms
- Series SD/SE Slides to lower bucket of preforms to gaylord

Descramble
- Series SxL/SxH Slides
- Series Tam Thumb® Cylinders

Stretch Blow Mold
- Series BC2, BC2U, or BCX Stretching Cylinders
- Series BCZ or BCZUS Nozzle Cylinders
- Series BST1 or BST2 Transfer Arms
- Eject Slides
- Unlimited Solutions®

Stretch Wrap
- ML304633 Zecchetti Replacement

Palletize
- Standard PHD Slides
- Unlimited Solutions®

Case Erect, Package and Shrink Pack
- Variety of Standard PHD Slides, Cylinders and Rotaries
DIRECT REPLACEMENTS FOR LONGER LIFE

PHD specializes in manufacturing standard blow molding replacements that provide longer life than the original components. In addition to our standard lines, unique solutions can be created for any machine in your plant that address production issues of downtime and service life.

Continuous Extrusion
- Series BDN Needle Cylinders
- Series CTS Needle Cylinders
- Series CV Knockout Cylinders
- Series AV Knockout Cylinders

Accumulate/Descramble
- Series SD/SS Slides
- Series 1-8000 Rotaries
- Series RIS Rotaries
- Series Tom Thumb® Cylinders

Air-Veyor
- Series CV Cylinders
- Series Tom Thumb® Cylinders

Eject/Divert
- Eject Slides and Cylinders

Fill/Label
- Series FCA Filler Cylinder
- ML313370 & ML312828
- Replacement Cam Follower Wheels

Depalletizer
- Slip Sheet Gripper

Keg Post-Fill Application
- Series RA Rotary Actuators
We understand your unique automation requirements

Focused on the specific needs of the plastic packaging industry, PHD offers many direct replacements for Sidel®, Krones® and other machines such as stretching cylinders, nozzle and needle cylinders, and transfer arms. PHD also provides the added benefit of unique designs. Our built-to-need designs address your specific application issues.

Our components are the actuators of choice. Designed for long life, PHD products keep your blow molding lines running while increasing productivity and reducing downtime and scrap.

We also offer the added benefit of our rebuild program which refurbishes your existing PHD components, enabling even longer service life and savings.

To request literature, visit www.phdinc.com/resources/inforequest/
Solutions that Save

Direct Replacements

**EASY DROP-IN**

With longer life, reduced maintenance, and reduced downtime

We offer a wide variety of direct replacement components for Sidel®, Krones® and other machines. Our drop-in components save you money by reducing costly production downtime and maintenance costs.

Many of our components provide up to twice the life of the original unit. This means longer up time for higher production and higher profits.

Superior Delivery

**FASTER**

delivery than competitor

Excellent delivery saves you money by getting you back to business faster.

Unique Solutions

**Special Requirements**

PHD offers a variety of components already designed to fit unique requirements. If your application requires a modified component from outside our large database of designs, our team is ready to help. We welcome special requests, regardless of quantity or frequency of order.

Rebuild Program

**Return to service**

Our products can be rebuilt and put back in service for continued savings. Plus you will receive a “like new” warranty. See back page for more information.
**DIRECT REPLACEMENTS**

**BCS Stretching Cylinder**
SIDEL® Series1 and Series2 direct replacement.
XG7 PHD check valve option

**BCSU Universal Stretching Cylinder**
SIDEL® direct replacement.
XG7 PHD check valve option

**BCZ Nozzle Cylinder**
SIDEL® Series2 CSD & HR Resistant direct replacement.
Valve manifold assembled to cylinder available as standard

**BCZUS Universal Nozzle Cylinder**
SIDEL® Universal direct replacement.
FDA approved seals

**Series1 Pneumatic Nozzle Cylinder (SB02-SB06)**
Simplified design and maintenance.
Provides energy savings with enhanced sealing technology

**BST1 Transfer Arm**
SIDEL® Series1 direct replacement.
Significantly more robust and precise than other transfer arms.
Designed to operate over 20 million cycles

**BST2 Transfer Arm**
SIDEL® Series2 direct replacement.
Vertical height adjustment eliminates need for shims.
Designed to operate over 20 million cycles

**BST Transfer Arm Head**
SIDEL® Series2 direct replacement head for arm.
Replaceable wear components.
Ball bearings increase precision

**BST2 Transfer Arm Jig**
Jig designed to verify and assist in rebuilding transfer arms as needed in the field.
Designed to fit in a standard 6 inch vise

**Preform/Bottle Eject Slide**
SIDEL® Series2 direct replacement.
Consistent preform/bottle ejection.
Minimizes stress on transfer arm jaws

**Bottle Eject Slide**
Direct replacement.
Direct valve manifold provides quicker response with higher kinetic energy capacity

- Direct replacements
- Longer life
- Reduced maintenance
- Reduced downtime
- Superior delivery
DIRECT REPLACEMENTS

Transfer Arm Head
Krones® direct replacement
ML311628

2 Position Filler Cylinder
Krones® direct replacement
ML313378, ML312628
55 & 60 mm bolt spacing
Replaces failure-prone diaphragm with simple piston design

BCK Stretching Cylinder
Krones® direct replacement
Simplified pneumatic system

OTHER SOLUTIONS

BCN Needle Cylinder
Continuous extrusion blow molding needle actuators direct replacement
Significantly longer life
Reduces maintenance and downtime

CT Needle Cylinder
Needle Cylinders for Continuous Extrusion Bottle Blow Molding
PHD Cylinder mounts into the same space and bolt patterns
Also available - EPET capable designs

Fill Line Eject Slide
Repeatable ejection
High kinetic energy capacity
Uses proven PHD thruster slide technology

Slip Sheet Gripper
Modular assembly consisting of a clamp, slide and transition plate
Clamp provides a wide opening so slip sheets are not missed
Quick installation and easy maintenance

CV & AV Knockout Cylinders
Significantly longer life
Reduces maintenance and downtime

Cam Follower Wheels
Competitive pricing
 Longer life than OEM
Available in variety of materials
PHD’s rebuild program can save your facility training, additional work load, possible tool requirements, and facility space to perform the rebuilds. In addition, you will receive a 12 month “like new” warranty.

Rebuilt units offer the same PHD quality that you’re used to, but for a fraction of the cost of a new unit, reducing your total cost of ownership.

Rebuilt units are placed back into service, thus reducing your total cost and saving valuable components from scrap.

All PHD factory rebuilt units receive a 12 month “like new” warranty.