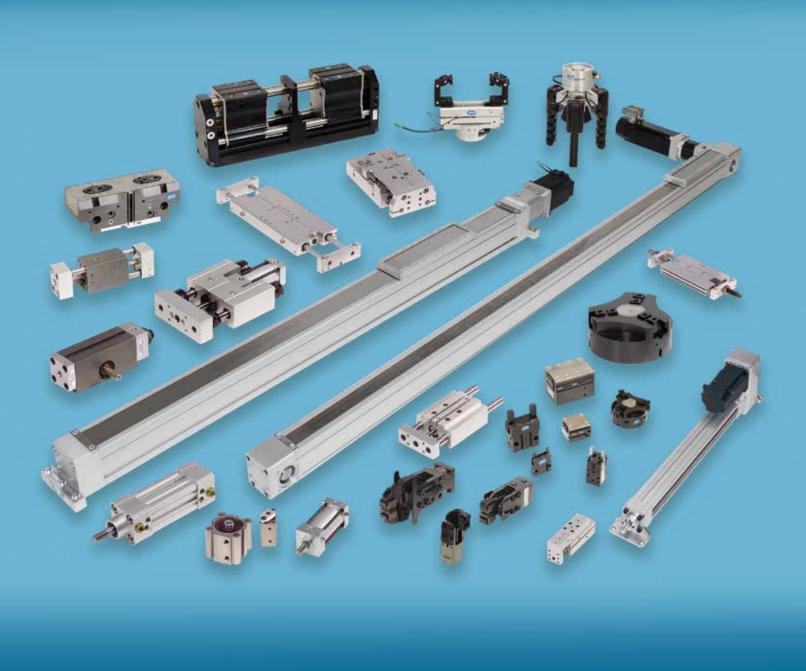
PRODUCT OVERVIEW

Pneumatic • Hydraulic • Electric • Robotic Solutions





Member of the MAC Distributor Network





OUR STORY

Creating the Solutions That Make It All Possible

Behind nearly every product is a carefully engineered manufacturing operation where elements are produced, pieces come together, and products keep rolling off the line. For over 65 years, PHD has made the parts that make it all possible.

Empowering Automation

Through imagination, creativity, decades of experience, and skill, we provide innovative automation solutions to companies looking to enhance their productivity. We rely on customer intimacy to deliver what our customers need when they need it: products that fuel breakthroughs, innovation, and success – that simplify, improve, and advance people's everyday lives.

Expansive Product Line

PHD offers a full line of standard pneumatic and electric automation components providing flexibility, durability, and repeatability: cylinders, escapements, grippers, linear slides, rotary actuators, clamps, multi-motion actuators, switches, sensors, and more.

136 PRODUCT SERIES

100 INDUSTRIES SERVED

98 WORLDWIDE DISTRIBUTION PARTNERS

3 INTERNATIONAL OFFICES

Customized Solutions

We have the engineering expertise and factory capability to design and build custom solutions for almost any industry and application. Currently, our database includes over 35,000 unique designs born out of a commitment to provide our customers exactly what they need. If an application requires a modified component, our team is ready to help. We welcome special requests for fully custom products, regardless of quantity or frequency of order.



FAST & EASY PRODUCT CUSTOMIZATION

35,000+ DESIGNS IN OUR DATABASE

150,000+ AVAILABLE QUOTES

NO MINIMUM ORDER QUANTITIES



Focused Industries

Aluminum Automotive & Workholding Food & Beverage Glass Machine Building Material Handling Medical Packaging Robotics Semiconductor Stretch Blow Molding Tire Thermoforming



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Digital Design Tools



CAD APP

- Select from popular CAD formats (AutoCAD[®] Inventor[®] Unigraphics[®], Solidworks[®], and more)
- Graphical configurator supports realtime compatibility
- Download CAD models directly from your browser or have them emailed



Sizing APP

Answer questions about your application to find a product that meets your exact requirements.

- Save a project to revisit and revise later
- Automatic calculations and unit conversion: imperial or metric
- Available for web and mobile use



Our powerful online engineering tools simplify the design process to save you time.

Partnering to Serve the Customer



We're a proud member of the MAC Distributor Network (MDN): a global network of manufacturers and distributors partnering to provide superior product, service, and support to customers.

Our distribution partners within this global network are factory-trained, application-oriented, and carry a wide range of supporting products. MDN offers the opportunity to blend their unique expertise with that of the PHD team to provide exceptional automation solutions and ongoing support to our customers around the world.

Global Reach

A globally linked network of partners in over 45 countries facilitates fast and seamless support to multinational customers.

Expert Support

Factory-trained application and industry specialists ensure cost-effective and field-proven automation solutions.

Customer Commitment

MDN members are committed to providing customers what they need when they need it.



CYLINDERS









CRS Compact

8 bore sizes, 12 to 63 mm Ideal compact size for applications where length is critical Optional shock pads extend cylinder life and minimize piston noise

CV ISO/VDMA

8 bore sizes, 20 to 100 mm
PTFE wear ring and built-in shock pads for long life
Rodlok option
Hushcontrol option for superior control and low noise levels
Electric version available - see Series ECV
Price alternative version available - see Series OCV
3 Position, Double rod, and Rodlok models also available



CTS Guided Compact

8 bore sizes, 12 to 63 mm For limited space applications Hard chrome-plated guide rods prevent rotation of tooling connected to cylinder Standard tool plate allows easy mounting of Series 190 & 191 Grippers



Since 1957, PHD has manufactured this small bore cylinder. These cylinders can be specified with built-in flow controls, adjustable cushions, shock pads, proximity switches, and many other options. To this day, the Tom Thumb® Cylinder provides our customers with durability, reliability, strength, versatility, and rebuildability.

TIE ROD NFPA - PNEUMATIC OR HYDRAULIC



A, AV, HV 3 bore sizes: 3/4", 1", 1-1/8, 1-3/8" Repairable for long term savings Cleanroom available 3 Position, Back-to-Back, and Rodlok

EA, EL, EH, ES Heavy Duty

3 bore sizes: 3/4", 1-1/8", and 1-3/8"	
Cartridge-type bushings	
Hard chrome-plated alloy steel piston rods	
Long life and high performance	

TD Air/Oil Tandem

Medium duty cylinders available as Air/Oil Tandems Control of hydraulic with simplicity of air



CYLINDERS

OEM - PNEUMATIC



OCG Round Body 6 sizes, 10 stroke lengths Drop-in imperial mounting to match global standard Metric or Imperial designs Repairable High speed/double acting

Standard cushions to reduce travel impact





OCV Profile Body ISO 6431

3 sizes, 4 stroke lengths Price alternative to Series CV Cylinder Cushion controls on both ends to reduce impact at end of stroke Optional switches and brackets for end position sensing



OCQ Compact

10 bore sizes, incremental stroke lengths Drop-in metric mounting matching global standard Standard shock pads reduce end of travel impact Standard magnets for switch sensing capability





ECV Rod-Style Ball Screw/Lead Screw

5 sizes, travels up to 1,000 mm
Electrically-driven units based on proven Series CV designs
High thrust and speed capabilities
Choice of lower cost lead screw or precision ball screw models
Inline or foldback motor mounting

ECP IP69K

3 models, 3 sizes each, travel lengths up to 750 mm

IP69K for high pressure and high temperature washdown and clean in place (CIP) environments 300 grade stainless steel versions (-Y8 and -Y91) for caustic washdown environments with USDA certifications for splash zone and product contact zones High thrust or speed capability

Precision screw assemblies with long service life

ESCAPEMENTS

DOUBLE OR SINGLE ROD - PNEUMATIC



160 (double rod)

4 bore sizes, standard or heavy duty

Imperial and Metric Two fixtured, squared shafts with internally sequenced

strokes work with your tooling to isolate a single part for continuation Models are available with switches for easy interface with

various electronic controls

LC (single rod)

4 bore sizes Imperial and Metric Ideal for separating and releasing parts being presented from various systems, as well as conveyor stops Large rod bearing area ensures high side load capacity and long life Optional shock pads provide additional flexibility for your application needs



LINEAR SLIDES

PNEUMATIC





STP Compact Rail

Compact design utilizes rail bearing technology for smooth precision movement Mounts directly to Series SFP to create rugged, compact, precise pick-and-place devices Twin bore provides two times the power Multiple mounting surfaces



SHP Miniature Rail

Compact design utilizes rail bearing technology for smooth precision movement Multiple mounting surfaces



SIP Low Profile Miniature Rail

Low profile design utilizes rail bearing technology for smooth precision movement Multiple mounting surfaces



SxL, SxH Compact

9 sizes, 2 bearing types Series SxL for moderate load capacity, low friction, and low price Series SxH for superior slide performance at a moderate price and longer travels



SD, SE Versatile (Imperial Design)

Streamlined, thruster style slides	
Exceptional performance and low price	
Many options available to increase capabilities	
Available with Rodlok	



SK, SL Robust Versatile (Metric Design)

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 Electric version available - see Series ESK/ESL



SCV Vertical

Powered by Series CV Cylinders Ideal for vertical or non-rotating applications Low cost cantilever slides Available with Rodlok Electric version available - see Series ESCV Price alternative version available - see Series OSCV



SFP Rodless Precision Rail Space saving rodless slide design Lowest deflection and highest moment capacity combination in the industry Precision rail bearing



SFM Multi-Position Rodless Precision Rail Multiple adjustable midstops Space saving rodless slide design Lowest deflection and highest moment capacity combination in the industry Precision rail bearing



SM Compact

Precision ball or polymer bushings Smooth linear motion at twice the thrust of a single bore cylinder Long life



SG High Load

Long travel Highest load capacity saddle type slide Lowest cost per travel length and load Available with Rodlok



LINEAR SLIDES

OEM - PNEUMATIC



OSCV Thruster

3 sizes, 4 travel lengths Price alternative to Series SCV Slide Powered by Series OCV Cylinder Magnet on piston for position sensing is standard



OSW Dual Bore Table

6 bore sizes, incremental travel lengths
Drop-in metric mounting matching global standard
High power dual piston bores and compact design
Standard shock pads reduce end of travel impact
Magnets standard for switch sensing capability
Stroke adjustments and shock absorbers available as kits



OSH Compact Table

4 bore sizes, incremental travel lengths
Drop-in metric mounting matching global standard
Multiple port locations for application flexibility
Standard shock pads reduce end of travel impact
Standard magnets for switch sensing capability



OSX Light Duty Thruster

5 sizes, 7 travel lengths Dual bore Standard shock pads reduce end of travel impact Travel adjustment on retract



OSP Compact Thruster

8 bore sizes, incremental travel lengths
Drop-in metric mounting matches global standard
Port locations on top and side
Standard shock pads reduce end of travel impact
Magnets standard for switch sensing capability





ESK / ESL Thruster

Powered by Series ECV Cylinders Lower cost lead screw or precision ball screw models Offered in long or short bodies for application flexibility Standard dowel pin holes with optional transitional and precision diameters

High thrust and speed capability with low backlash Travel lengths up to 700 mm



ESU -RT Belt-Driven Linear

3 sizes	
Single saddle or dual in-line saddle	
Superior HTD8 steel reinforced polyurethane belt for improved performance	
Speeds up to 5,000 mm/s, travels up to 5,500 mm	
Exceptional moment and load capability	



ESCV Vertical Thruster

5 sizes, travels up to 1,000 mm Electrically-driven units based on proven Series CV designs High thrust and speed capabilities Lower cost lead screw or precision ball screw models Inline or foldback motor mounting



ESU -RB Ball Screw Linear

3 sizes
Single saddle or dual in-line saddle
Precision ball screw assemblies with long service life
Speeds up to 3,200 mm/s, travels up to 1,000 mm
Exceptional moment and load capability

Your Motor Your Way



CLAMPS

WORKHOLDING - PNEUMATIC





GRM0 Workholding

2 jaw styles	
Standard and flange	
Sheet metal handling requiring compact design	
Modular designed tips for various thicknesses	
Simple design, long life	
Fully field repairable	



GRM1 Workholding

2 jaw styles Standard and flange Sheet metal handling requiring compact design Modular designed tips for various thicknesses Simple design, long life Fully field repairable



GRM2/GRM4 Workholding

13 jaw styles	
Grips and locks on panels with varying thicknesses without adjustment	
Sheet metal handling applications	_
Modular designed tips	
Simple design, long life	
Fully field repairable	_





PLK & PLKD Pin Locating

Ideal for part holding and positioning in weld areas Enclosed finger design keeps out weld slag



PLC Pin Locating

Used to locate and clamp a part through a hole or slot Ideal for part clamping in weld areas Enclosed finger design keeps weld slag out Full compliment of standard and special pin sizes available



PA & PB Swing Arm Rotates clamp arm into position before clamping with linear motion

Ideal for wide variety of automated part holding and transfer applications



PEC Power Superior part holding for assembly and welding applications Clamps and locks over last six degrees of rotation

phdinc.com



PSP Shot Pin

Compact design Internal porting and shock absorption Self-locking internal threads throughout



CLAMPS

HEAVY DUTY - PNEUMATIC



PNC66 Number Cruncher®

Utilizes industry-proven PNC cam mechanism on a larger scale Provides cost effective solution for identification stamping, staking, and crimping



PNC44 / PNC55 Number Cruncher®

Provides cost effective solution for stamping identification characters into various materials

High capacity force produces characters in draw quality steel at 70 psi [4.8 bar]



PFC Frame

Securely holds heavy parts in place Power window of 0.150° [3.8 mm] Wide jaw space allows to clamp part closer to tooling surface



TRI-AXIS PRESS TOOLING

Features & Benefits

Simpler, stronger, and more economical solution compared to others in the market All our components are one-piece construction. Maximized for weight and rigidity Precision fit, resulting in little to no movement when torquing All our components are completely interchangeable. We utilize multiple bolt patterns where possible to keep the interchangeability and ordering process as simple as possible. Anodized to provide a better visual to the operators as well as wear resistance. Customer satisfaction is at the top of our priority list. We want to make every customer feel like our only customer. Designed based on customer feedback providing the best solution for your project.





TRI-AXIS PRESS TOOLING

1-/4" COMPONENT SERIES



TAC Arm Clamps

Solid one piece construction Precision bore fit so finger assembly doesn't move when tightening bolts 2 - 8 mm S.H.C.S. for ultimate grip force



TSP Swing Plate Assembly

Solves the problem of close to center adjustment

Bolts directly to our gripper mount Multiple bolt patterns for many different styles of grippers or shovel assemblies



TDC Inline, 90 degree, and Rotational Double Hole Clamps

Highest strength for parallel, perpendicular or rotational automation Holes for airline routing 2 - 8 mm S.H.C.S. per end for ultimate clamp force



TFxM Flange Tube/Finger Mounts

Replaces a receiver adapter when mounting finger directly to transfer bar, extruded beam, or removable plates



TGM Gripper Mounts

5 mm, 6 mm and 8 mm bolt patterns Covers common gripper or shovel bolt patterns

Under cut to accommodate S.H.C.S. Dome feature for swivel ball mounting



TAT 1-1/4" Aluminum Tubing

1/4" wall for durability Available in 6" - 24" in 6" increments Custom lengths also available



TSB Ball Swivel Assembly

Allows gripper to rotate up to 80° and free spinning Rest of assembly can stay square to grid while accomplishing any compound angle Bolts directly between gripper and gripper mount



Gripper Adaptability

Our standard bolt patterns fit most common grippers.

Any gripper or shovel can take advantage of our product range with the use of our adapter plates and mounts.



TCC Collar Clamps

1-3/4" Bore, 8 mm S.H.C.S. Used for securing receiver adapters to tooling Flat top for finger identification

Holes for airline routing

Standard Metric and Imperial sizes are also available. Components are either made from 6061 T-6 Aluminum anodized for wear and visibility, or steel and black oxide for corrosion resistance.





GRIPPERS

PARALLEL - PNEUMATIC





GRA Narrow Compact

Compact precision Consistent jaw movement over life of unit Flexible mounting capability 10 million cycle life in a robust, compact design



Jaw Style 1 Jaw Style 2

190/191 Compact Compact size is ideal for handling small parts in confined areas

Units provide true parallel jaw travel for easy tooling design



GRD Compact

Very high grip force to weight ratio for efficient use of space and power Compact size Short and long jaw travels



OGZ Compact

4 sizes

Drop-in replacement for other manufacturers Integral linear guide for high rigidity and precision

Base dowel mounting for accurate locating Standard magnets on pistons for externally mounted switches



GRS Low Profile

3 jaw styles, 8 sizes Low profile, high force Rugged jaw support, hardened jaws and hardcoated bearing surfaces IP54 Ingress protection 6 million cycles minimum rated life

GRF Low Profile

3 jaw styles, 4 sizes Low profile MRO direct replacement Jaw covers help prevent contamination IP54 Ingress protection



GRH Low Profile/Long Travel

Low profile, long jaw travels Corrosion-resistant and robust construction for long operating life Dual bore provides higher grip force Extended support guide system with wide slot jaws minimizes tooling deflection when

gripping and provides side load stability



GRC Rack and Pinion

High grip force to weight ratio Available with locking capability for retaining part upon loss or removal of air pressure



5300 Oval Piston

Double acting for either internal or external gripper applications Oval piston construction provides high grip force to weight ratio



GRT 3-Jaw

3 jaw design provides self-centering and maximum contact between part and jaw tooling Ideal for high moment applications



GRK Precision High Grip Force

Ideal for assembly and robotics Highest average grip force to weight ratio Precision jaw movement wear compensating over life of unit

High moment capacity allows for long tooling and high part weights



GRW Parallel

Jaws have large tooling surfaces and precision dowel holes for accurate tooling attachment

Large diameter jaw guides allow long tooling lengths and high moment capabilities and reduce deflection

Dependable design



GRL Parallel

Parallel jaw motion simplifies jaw tooling design and is ideal for gripping parts of varying sizes Narrow width, low profile, and long jaw travel



GRIPPERS

HEAVY DUTY PARALLEL - PNEUMATIC





GRR Heavy Duty

Ideal for high force and high jaw loads, moving heavy objects such as wheel rims can be done quickly Rugged build withstands high impact and shock loads Double acting for both internal and external gripping Narrow width and long jaw travel Three large diameter jaw guides spanning the length of the gripper provide

Three large diameter jaw guides spanning the length of the gripper provide stable jaw travel, long allowable tooling length, and high moment capacities

ELECTRIC





EGRR Heavy Duty

Built on the field proven Series GRR chassis, the electric version offers many of the same benefits as the pneumatic Your Motor, Your Way motor and control flexibility

High grip force and large moment capacity

Rugged construction for demanding industrial environments Robust rack and pinion jaw drive

Motor speed reducer and motor can be easily repositioned in the field

ANGULAR - PNEUMATIC



GRV Compact

Compact precision For large moment capacities and long tooling lengths Manifold porting capability allows for nested gripper installation 10 million cycle life in a robust, compact design



8400 Compact

Imperial Compact size Double acting for either internal or external applications



GRB Angular

6 sizes, 2 mounting surfaces 3 standard jaw rotations: 60°, 90°, and 180° 5 million cycles minimum rated life



5300 Oval

4 sizes, metric and imperial versions Optional internal springs allow unit to be used as single acting gripper, for additional grip force, or for holding object without air pressure

5 million cycles minimum rated life with standard seals



GRIPPERS



FG FLEXION Segmented fingers flex to close on parts like a hand Configurable design provides for a wide range of gripping solutions Can be reconfigured and repurposed

ROBOTIC SOLUTIONS

Radial Hub Models Utilizes 3 finger arrays, ideal

for handling circular objects



Parallel Hub Models Utilizes 2 finger arrays, with up to 5 fingers per array





Inspired by the ultimate gripper: the human hand



Pneu-Connect[®] End Effector System

Easily attaches to robot arm and features embedded directional control valves for control of an end-effector through robot's tool port.

Five popular PHD pneumatic gripper models for a wide variety of applications

Pneu-Connect X2 kits provide for two grippers for maximum automation efficiency providing for a wide variety of applications. The power density of pneumatics allows for a superior performance to weight ratio when compared to some electric alternatives. This inherent property allows for lighter, non-payload robbing end-effectors, ideal for robotic applications. Additionally, when properly controlled, the compressibility of air provides intrinsically safe, back-drivable actuation capability.

Seamless Integration of PHD Grippers to Collaborative Robots





Series FG Flexion Gripper



Series GRT Parallel 3-Jaw Gripper



Series GRH Parallel Long Travel Gripper



Series GRL Parallel Narrow Body Gripper



Series GRV Angular Micro Gripper



ROBOTIC SOLUTIONS

ADJUSTABLE GRIPPER TOOLING



Click & Grip

Fast configuration and reconfiguration Flexibility with interchangeable components. Segments can be added and removed allowing for endless combinations Lightweight polyamide plastic, ideal for cobot applications and proof of concept

Design provides limited compliance - helpful during setups and around workers



Fast, Flexible, Functionality

CLICK TO ADJUST

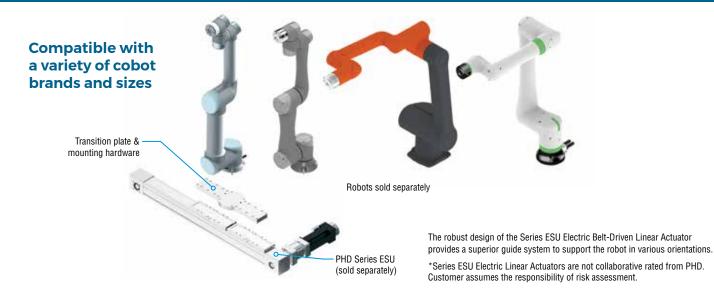
TIGHTEN & GRIP





INSTALL

MODULAR 7TH AXIS LINEAR ACTUATOR



7th Axis Linear Actuator

Transition plates and hardware available for direct mounting between electric linear actuator and robot. Torque limiting features on servo-driven linear actuator can provide faults in case of collisions.* With a maximum stroke of 5,500 mm, the 7th axis linear actuator can multiply working area of the robot tenfold.



ROTARY ACTUATORS

HIGH TORQUE - PNEUMATIC



RA High Torque

5 sizes, 6 standard rotations Retains zero backlash Oversize sealed ball bearings, large pinion shafts for heavy load stability and high load stopping ability



RL High Torque

8 sizes, 6 standard rotations Very high torque to envelope ratio



RI High Torque

3 sizes, single and dual bore Eliminates external air lines Hollow pinion manifold Lower cost and lower profile High torque performance High axial load capacity Additional switching options

COMPACT - PNEUMATIC



ORQ Compact Rotary Table

6 sizes
Standard adjustment screws with integral shock pads
Standard thru mounting holes in body are threaded to provide versatility and ease of mounting
Double rack and pinion drive system increases output torque and eliminates backlash at end of rotation
Hollow pinion allows pass thru from back of unit to output hub

HEAVY DUTY - PNEUMATIC OR HYDRAULIC



1000-8000 Option of single or double rack Rugged design and construction make these actuators ideal for heavy duty service Standard rotations range from 45° to 450° Both hydraulic and pneumatic operation



2000-8000 Multi-Position

Provides significant flexibility with up to five different rotational positions in a single unit Both hydraulic and pneumatic operation



2000-8000 Air/Oil Tandem Options including built-in speed controls, adjustable cushions, and angle adjustments are available

MULTI-MOTION ACTUATORS - PNEUMATIC OR HYDRAULIC



1000-8000

4 bore sizes: single or double rack rotary section, standard rotations from 45° to 450° Independent rotary and linear motion from one output

shaft ideal for part transfer, positioning, and orientation



2000-8000 Multi-Position

4 bore sizes: 3, 4, or 5 position models ideal for feeding and positioning applications Multiple positioning design eliminates expensive and cumbersome fixturing and pinning

Available hub adaptors for all Series 1000-8000 Rotary Actuators provide easy attachment of grippers and tooling.



2000-8000 Air/Oil Tandem

Provides smooth consistent rotary motion even at low speeds for applications requiring positive control of hydraulics Offered in 2 or 3 rotary positions ideal for feeding and positioning applications



3, 4, or 5 position models



BLOW MOLDING DIRECT COMPONENTS

'S' STYLE COMPONENTS



BCS Stretching Cylinders 'S' Style Series1 and Series2 components X27 PHD check valve option



BCSU Universal Stretching Cylinders 'S' Style components X27 PHD check valve option



BCZ Nozzle Cylinders 'S' Style Series2 CSD and HR components Valve manifold assembled to cylinder available as standard



BCZUS Universal Nozzle Cylinders 'S' Style Universal components FDA approved seals



BCZUD Universal Nozzle Cylinders 'S' Style Universal components FDA materials used on all internal components Designed to operate



for 20 million cycles



BCN Needle Cylinders Continuous extrusion blow molding needle actuators direct replacement



BCT Needle Cylinders Needle Cylinders for Continuous Extrusion Bottle Blow Molding



Series1 Pneumatic Nozzle Cylinders (SB02-SB06)

Simplified design and maintenance Provides energy savings with enhanced sealing technology



BST2 Transfer Arms 'S' Style Series2 components Vertical height adjustment eliminates need for shims Designed to operate over 20 million cycles



Preform/Bottle Eject Slides 'S' Style Series2 components Consistent preform/bottle ejection Minimizes stress on transfer

arm iaws

ML308951



Bottle Eject Slides Universal/Matrix components Direct valve manifold provides quicker response with higher

kinetic energy capacity

'K' STYLE COMPONENTS



Transfer Arm Heads 'K' Style components ML311628



2 Position Filler Cylinders 'K' Style components 55 & 60 mm bolt spacing Replaces failure-prone diaphragm with simple piston design ML313378, ML312828



BCK Stretching Cylinders

'K' Style components Simplified pneumatic system

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CUSTOM SOLUTIONS

Nearly every standard unit PHD makes is manufactured to order. That's because PHD has such a wide variety of actuators, options and accessories available. We have the capabilities built into our factory systems to modify products within our everyday processes. Because of our flexibility, creating custom products is simple for us.

We have dedicated assembly cells, machining centers, and many engineers to design and build unique solutions for our customers. We carry over 35,000 custom designs and over 150,000 quotes already in our database, we can provide most quotes within eight working hours. We have the systems in place to provide the best delivery in the industry.

Capabilities

- Most quotes delivered within eight working hours
- Dedicated application assistance
- 24 hours a day, 7 days a week service
- Fast delivery and competitive pricing
- Separate custom solutions engineering and manufacturing areas dedicated to our customers, ensuring prompt quotes and dependable delivery

Do you have an application for a specific need? Browse our always-growing industry segments to discover your specific industrial automation solution at www.phdinc.com/industries. There you will find industry-specific solutions displayed according to application use. View our many field-tested components by process or product type. If your industry is listed, we may already have a solution designed specifically to your needs!

DROP-IN REPLACEMENT COMPONENTS

We design custom drop-in replacement components that often provide longer life and repeatability than the original unit.

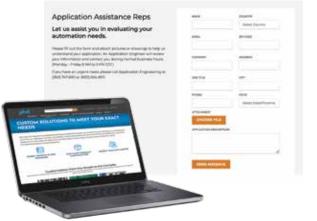
















CUSTOM SOLUTIONS

CUSTOM EOAT

Custom end of arm tooling for unique products such as metal, round, irregular shapes or varying products.





UNIQUE APPLICATIONS

Unique applications require custom solutions. Here are a few very unique actuators PHD has developed for specific customer requirements.



SPECIAL MATERIAL REQUIREMENTS

A variety of component materials can be specified, such as corrosion-resistant plastic or stainless steel.





REBUILD PROGRAM

A green solution that helps your bottom line.

- Refurbishes your existing PHD products with all new wear items.
- 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.





After 12 Month

Virtually all PHD products are field repairable, so your maintenance personnel can rebuild these products at your facility to save costs. 12 Month "Like New" Warranty



Rebuild. Repair. Recycle.

Rebuild or repair your PHD products for significantly less cost than the original price. Ask your distributor about PHD's Rebuild Program.



Distributor Support

We are a proud member of the MAC Distributor Network (MDN). MDN is a customer focused network of global manufacturers and distributors providing worldwide sales and exceptional service. With partners located worldwide, we are equipped to provide you a wide variety of value-added support and ongoing assistance.



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