

Medical Industry Components

If package size and precision are what you need...

Medical Design

Pharmaceutical Packaging

Life Sciences



MEDIB12



**PHD is a member of the
MAC Distributor Network**



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We have the solutions to reduce downtime and increase production.

This dedicated segment is focused on the specific needs of the medical industry — ***We speak your language.***

PHD offers standard components for handling your syringe, IV bag, or other medical devices.

Also available is a full line of components: cylinders, grippers, slides, and rotary actuators, which can be combined or used individually to provide the motion your application requires.

If an application requires a modified component, PHD Unlimited® is ready to help. We welcome requests for unique solutions, 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.

In this brochure you will find examples of standard actuators as well as many solutions for unique application requirements.

Check out these market symbols throughout the flier!



syringes



tubing



IV bags



lab testing



pharmacy



orthopedics

Electromechanical Solutions

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Electromechanical Solutions

With Easy Actuator & Motor Sizing

phdplus.phdinc.com



Using PHD's 3 step process, you can specify the actuator configured for your particular motor brand.

1

ONLINE SIZING:

Go to sizing.phdinc.com and input your application requirements

Suitable actuator and motor performance requirements are provided.

2

SELECT A MOTOR:

You choose the brand of motor and controls

3

ONLINE CONFIGURATOR:

Go to config.phdinc.com after motor verification, a W-code is assigned for ordering.



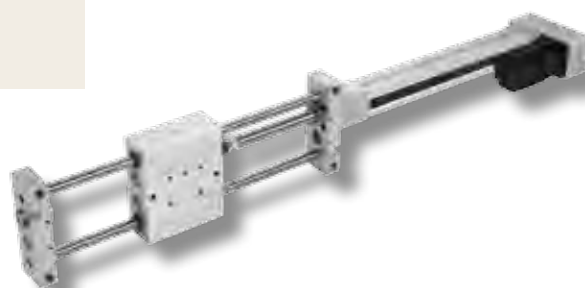
Electric Series ECV Cylinders

- Superior speeds, thrust, and travel lengths
- Fit and functional replacement for pneumatic VDMA/ISO cylinder
- Rigid construction with low backlash
- Open motor architecture
- Your Motor, Your Way



Electric Series ESK/ESL Slides

- Superior speeds, thrust, and travel lengths
- Electrically driven cantilever slide based on PHD's Series SK/SL Slide
- Offered in long or short bodies
- Open motor architecture -Your Motor, Your Way



Electric Series ESG Slides

- Superior speeds, thrust, and travel lengths
- Electrically driven gantry slide based on PHD's Series SG Slide
- Long travel, high load
- Standard travel up to 900 mm
- Open motor architecture -Your Motor, Your Way

Electric Long Travel Gripper ML#309746

- 2.756 in 70 mm jaw travel
- Open motor architecture
- Your Motor, Your Way



Electric Rail Style Gripper ML#310629

- Open motor architecture
- Your Motor, Your Way
- Switch ready
- Grip force = 30 lbf at surface of jaw



Electric Plastic Gripper - ML#211729

- Built-in motor
- 1.9 mm jaw travel
- Stainless steel fasteners



Electric Variable Pick Head ML#306079

- Ideal for final packaging process
- Motor driven pitch



(800) 624-8511
phdinc.com

Grippers



Three Position Gripper ML#308248

- High precision
- Three position
- Long travel
- Low operation of pressure
- High load capacity
- Single 2 way valve for all 3 positions
- Compact size



Series GRF

- MRO drop-in replacement
- Next day shipment
- High grip force
- Four sizes
- Two jaw travels
- Two jaw styles



Series 8400 Gripper

- Compact size
- Double acting - internal/external gripping
- Cost effective
- 2 day delivery



Stainless Steel/PET Gripper ML#302657

- Stainless steel jaws
- PET body
- Designed for chlorine solution
- Fluoro-elastomer seals



Angular Replacement Gripper ML#307584

- Direct replacement with unique jaws
- Hard coated body
- Stainless steel jaws



PET Angular Gripper ML#310141

- PET body and stainless jaws
- Deionized water environment
- Stainless steel jaws
- Single acting



Long Travel Gripper - ML#307562

- PET body
- Stainless steel jaws
- Direct replacement
- Overwrapping of IV bags



Parallel Replacement Gripper - ML#308454

- Direct replacement
- PET body
- Stainless steel jaws



Unique GRS Gripper - ML#306058

- Purge/Scavenge port for extreme environments
- Modified standard Series GRS Gripper



3 Position Bio Plate Gripper ML#308123

- 3 positions with only 2 air lines
- No springs
- Lightweight and compact
- Equivalent 12 mm bore grip forces



Series GRT

- 3 Jaw design provides self centering and maximum contact between part and jaw tooling
- 8 sizes available
- Field tested for over 10 million cycles
- 2 day delivery



Polymer (PET) Gripper with Stainless Jaws - ML#300263

- Passivated stainless jaws for improved attachment of tooling
- Designed for part production in a deionized water and/or high moisture environment
- Parallel jaw motion is ideal for gripping parts of varying sizes

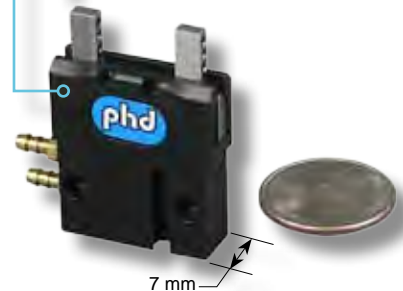


Series PA Swing Arm Clamp

- Compact
- 5 sizes
- Left and right rotations
- Multiple mounting surfaces
- Steel and copper arms

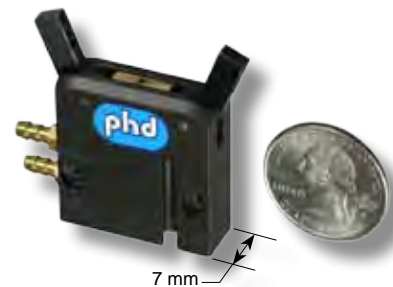


**Contact PHD
about integrated
solutions at
1-800-624-8511**



Series GRA Gripper

- Compact size
- Manifold porting
- Internal speed control
- Directly competes with MPG, MHZ2, HGP



Compact Angular Gripper ML#311973

- Compact size
- Manifold porting
- Internal speed control

Cylinders



Compact Series CR



- Compact design
- Up to six switch slots for flush switch mounting
- Longest life piston seal for long cylinder life
- Multiple mounting options
- Long life piston seal
- 2 day delivery



Plastic Cylinder ML#308000



- FDA approved material
- Stainless steel piston and rod
- Low breakaway



Air/Oil Tandem Cylinders Series TD

- Precise speed control operation at low velocities
- 2 day delivery

NFPA Cleanroom Series AV & A



- Tom Thumb® Class 100 cleanroom
- Bore sizes 3/4", 1", 1-1/8"
- Vacuum port
- Special bushing to minimize particle contamination



Cylinder - ML#309646

- Modified CTD with plate for direct mounting of GRT Gripper
- Modified tool plate



Cylinder - ML#310635

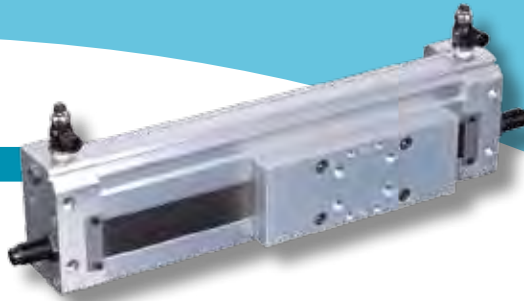
- Special piston and rod for micrometer adjustability
- PHD Tom Thumb® technology for long life
- Non-rotating rods added



Slides

Series SFP

- Lowest deflection and highest moment capacity in the industry
- Smooth, precise movement
- Rodless cylinder
- 4 day delivery



Series STP

- Smooth precise linear motion
- High capacity
- 2-3x payload
- 2 day delivery



Series SIP, SHP

- Compact size
- Precision rail bearing technology
- Multiple mounting surfaces
- 2 day delivery



Plastic Slide - ML#307784

- FDA approved material
- Harsh environment capabilities



Burp Slide - ML#303439

- Stainless steel plugs, guideshafts, and rod seal retainer
- PET rod bushing
- 303 stainless steel piston
- Fluoro-elastomer seals, rod and guideshaft scrapers



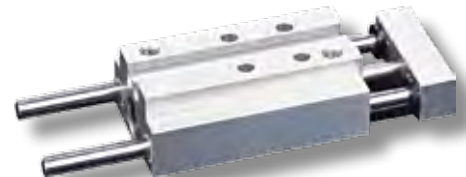
Slide - ML#308918

- Drop-in replacement for competitor unit
- Superior delivery



Series SAH Slide

- No metal to metal contact
- Cost effective
- 9 Bore sizes, 8 mm - 63 mm
- Next day shipping



Corrosion Resistant ML#307246

- 100% corrosion resistant
- Nyteff hardcoat aluminum for maximum corrosion resistance
- Long life
- Field repairable
- Large guide shafts
- Heavy duty, rugged
- Stainless steel stop collars
- Bumpers



Rotary Actuators

Escapements

Series RCC

- Low cost
- Compact size
- Low profile
- High thrust loads
- 2 day shipping



Series RFS

- Compact size
- Low profile
- High thrust loads
- 2 day shipping



Series RL

- Low cost
- High axial & radial bearing load
- High torque/compact size
- 1 day shipping



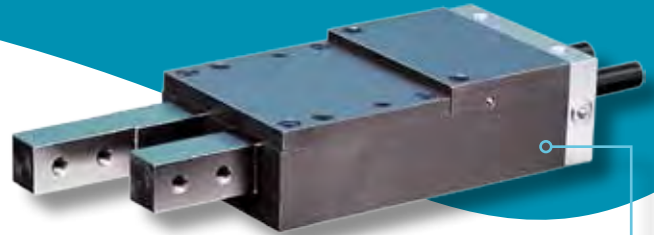
Series RA

- Zero backlash
- High axial & radial bearing
- 1 day shipping

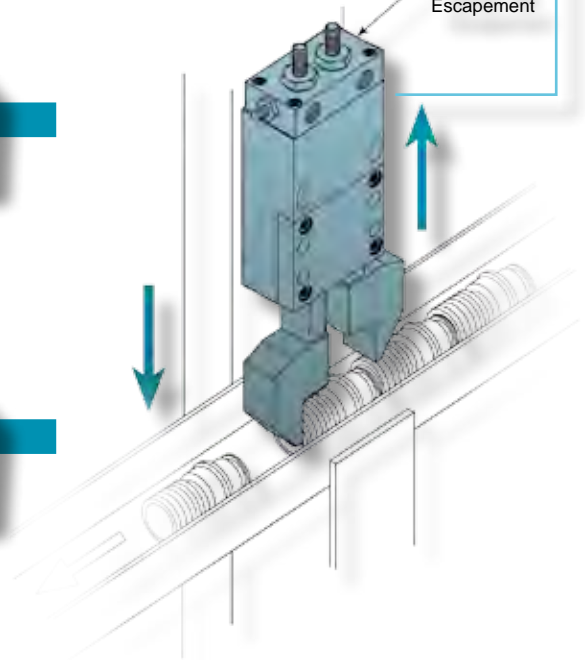


Series 160

- Ideal for isolating and feeding individual parts from vibratory feeders, magazines, hoppers, or conveyors.
- Internally ported design requires only one 4-way valve
- Next day delivery



Series 160 Escapement



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