

Making Complex Automation Simple

- Increased Production
- Reduced Downtime
- Lowest Cost of Ownership



SEMICON02



SOLUTIONS FOR INDUSTRIAL AUTOMATION

Semiconductor Solutions

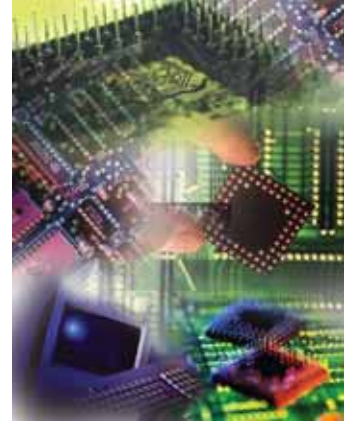
Is it hard to find a source for your unique requirements? *We have the solutions for you.*

With over 45 years of experience, you can trust PHD to produce high quality, reliable products for your automation needs.

We have a full line of pneumatic 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 pick, place, twist, turn, lift, grip, reach, rotate, inject, and clamp what you need to increase your productivity.

If an application requires a modified component, our Custom Products 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 to your application needs.

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



We have the solution for your processes.

Long Life - Reduces Maintenance and Down Time

Automated Circuit Board Routing / Depaneling

PCB Gripper



SA Slide



SA Slide



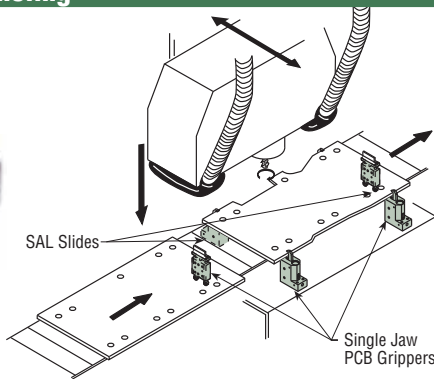
GRF Gripper



RFS Rotary Actuator



GRL Gripper



Low Breakaway Units

ML#305422



ML#305421

SHP Slide

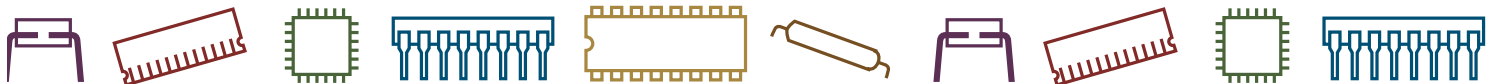


Ring Cylinder

ML#302190



Pick Head



















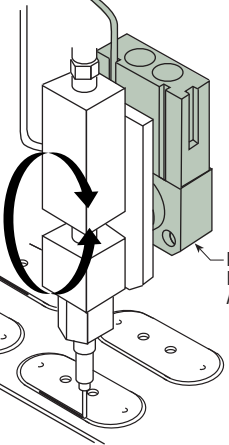







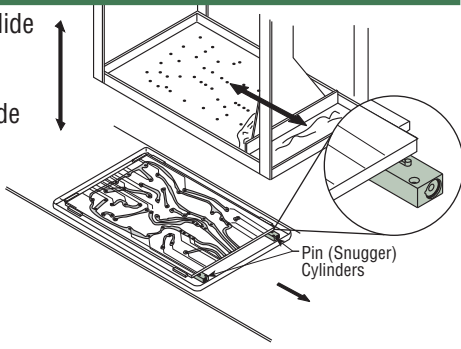








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Long Life - Reduces Maintenance and Downtime

Final Packaging			Alternative Materials	
ML#302988 	SIP Slide 	CV Cylinder with Rodlok® 	PET Gripper 	
Dual Gripper 	STP Slide 	RI Rotary Actuator 	Titanium/PET Rotary 	
Precision Gripper 	SFP Slide 	RCC Rotary Actuator 	SS Slide 	
Variable Pick Head 	ML#303340 			
Conformal Coating			Adhesive Application / Conformal Coating	
RCC Rotary Actuator 	RAS Slide 	SIP Slide 	RCC Rotary Actuator 	
RFS Rotary Actuator 	STP Slide 	SHP Slide 	RFS Rotary Actuator 	
SHP Slide 				
Wet Processing			Solder Paste or Reflow	
SFP Slide 			Snagger Cylinder 	
PET Gripper 			SFP Slide 	
Titanium/PET Rotary 			SA Slide 	
SIP Slide 			STP Slide 	
			Materials ML301141, other plastic grippers, cleanroom, AV, CR, SA, SD	

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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.



Custom Products

Unique application designs require unique components. With over 45 years of experience, our Custom Products 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/customproducts.



Engineering Software

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

CAD CONFIGURATOR

PHD's Online CAD Configurator allows the generation, download, and e-mail within minutes of many PHD products in a native/neutral format in over 80 CAD formats. Formats include AutoCAD®, Inventor®, SolidEdge®, and SolidWorks® just to name a few. This tool saves hours of design time and ensures accurate part number generation all in the format of your choice. For complete information and additional features of this exceptional design tool, go to www.phdinc.com/cad.

Product Sizing Software

Based on users' input, this software selects the proper model and size of unit. This ensures the actuator will perform to your specific application requirements.

As new features are added, updates to this software are available at the PHD web site. www.phdinc.com/apps/sizing

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