Our products provide superior part holding and transferring for your assembly and welding environments.

**Features & Benefits**

**Series PEC Clamp**
- Cam design provides widest range of high clamping force in its class.
- Ensures part retention if air pressure is lost.
- Available in four bore sizes for application flexibility.
- Multiple output shaft options for mounting arms on either or both sides. Provides unique alternative to typical clamp mounting configurations.
- Weld field immune switch option provides consistent position sensing.
- Enclosed design prevents particles and weld slag from entering.

**Series PA, PB, & PC Clamps**
- Simple design, compact size, for low weight, long life, and high clamp force.
- Available in several bore sizes for application flexibility.
- Mounting patterns on multi surfaces provide flexibility in clamp mounting.
- Switch ready for easy interfacing to electronic controls and logic systems.
- Series PB & PC – for NRO drop-in replacement unit opportunity applications.
- Available in left and right rotations to fit a variety of applications.
- Series PB offers rod weld cover to protect cylinder rod and bearing areas from weld splatter during clamping.

**Series PLK & PLKD Clamps**
- Completely endowd finger/pin protects against weld slag and contamination.
- Mechanism is easily modified into special clamps that have different shapes and mounting. Can be made into drop-in replacements for many units in the field.
- Available in four standard pin sizes. Short pin length ideal for blind applications.
- 5 or 10 mm clamping strokes
- NAAMS™ mounting
- Lightweight construction facilitates mounting on robots
- Weld field immune switch option provides open or closed sensing

For more information on custom clamps and other applications, consult PHD, Inc.: PHD, Inc. P.O. Box 5078 • Fort Wayne, IN 46899 • 260-747-6151 • Fax 260-747-6754 www.phdinc.com • phdinfo@phdinc.com PHD in Europe GmbH Arnold-Sommerfeld-Ring 2 52499 Baesweiler, Germany Tel. +49 (0)2401 805 230 • Fax +49 (0)2401 805 232 www.phdinc.com • info@PHDinEurope.de
Series PA swing arm clamps are well suited for this fixtured tube holding application.

Series PA swing arm clamps are used to hold door panel components together for a robotic welding process.

PC swing arm, PLKD disappearing pin locating, and PEC arm over clamps are used to fixture and hold frame parts together in this high speed robotic welding application. These products are ideal for their various motions and speed in setting parts to prepare for the welding stage.

When a part comes out of the injection mold, the operator places the part in a nest. Then the operator actuates the PA clamps to hold the part down during an automated trimming operation.

Series PA swing arm clamps are used to securely hold snowmobile tunnel parts for automated welding and riveting processes.

Series PLKD pin locating clamps are ideal for applications where pins are required to locate the parts and securely hold. The locating pin of the PLKD retracts fully into the part support, allowing greater ease of part removal.

Series PEC arm over clamps hold down parts while a robot welds smaller parts into place. PHD’s cam design allows more part variation without having to adjust for part variation.

Series PB swing arm and PEC arm over clamps are used to fixture ATV frame components together for this robotic welding application.

Series PEC arm over clamps hold tubular parts as Series SAH slides exert tension and support for this automated welding process.

PHD Clamps’ robust designs provide longer life over other actuators.

PHD Clamps maintain repeatability over life. Provide superior performance and increased productivity. Reduce downtime and scrap.

PHD Clamps are field repairable. Provide the lowest cost of ownership.

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- Simple design, compact size, for low weight, long life, and high clamp force.
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- Mounting patterns on multi surfaces provide flexibility in clamp mounting.
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- Series PB offers rod weld cover to protect cylinder rod and bearing areas form weld splatter during clamping.

Series PLK & PLKD Clamps
Features & Benefits
- Completely enclosed finger/pin protects against weld slag and contamination.
- Mechanism is easily modified into special clamps that have different shapes and mounting. Can be made into drop-in replacements for many units in the field.
- Available in four standard pin sizes. Short pin length ideal for blind applications.
- 5 or 10 mm clamping strokes
- NAAMS™ mounting
- Lightweight construction facilitates mounting on robots
- Weld field immune switch option provides open or closed sensing