



# TECH DATA

## Air Operated Post Driver Specifications

### PD-39 Specifications

- Top Cover:** Alloy steel, treated to remove all mill scale, O-Ring sealed.
- Body:** Ductile iron casting, with excellent wear resistant characteristics, high in strength and ductility with 60,000 PSI tensile and 40,000 PSI yield strength. 90° air inlet cast into the body.
- Piston:** Alloy steel heat treated to 54-56 Rockwell C surface hardness with an approximate 15 Rockwell C core hardness. Ground surface with hard chrome plate. Designed with 2 round valve ports to give better lubrication and load distribution to the valve ring while running.
- Master Chuck:** The 3 5/8" (92 mm) I.D. master chuck is of an all welded, reinforced steel and tubing construction. The chuck is equipped with extra long mounting bolt tubes, chuck adapter attachment lugs and handle mounts with three keys each to insure maximum life.
- Handles:** 25 1/4" long, zinc plated handles constructed of steel tubing, with three keyways for maximum life and four springs to help isolate the operator from vibration. HI Tech pre-lubed bushings help to add long life to the handles.
- Throttle Valve:** Each unit includes a Rhino Stainless Steel Throttle Valve. The valve is equipped with a lever lock for safety.
- Fasteners:** S.A.E. Grade 5 bolts with Belleville lock washers A151 6150 Alloy steel. All fasteners are plated.
- Chuck Adapters:** Standard chuck adapters constructed of a welded combination of alloy steel and tubing are available in the following sizes: 3" (76.2 mm) I.D., 2 1/2" (63.5 mm) I.D. and 2" (50.8 mm) I.D. Plus three adapters for channel posts.
- Air Consumption:** 42 CFM (1.19 m³/min) @ 90 PSI (6.4 kg/cm²)
- Weight:** Approximately 39 lbs (17.69 kg)

### PD-39P Specifications

- Top Cover:** Alloy steel, treated to remove all mill scale, O-Ring sealed.
- Body:** Ductile iron casting, with excellent wear resistant characteristics, high in strength and ductility with 60,000 PSI tensile and 40,000 PSI yield strength. 90° air inlet cast into the body.
- Piston:** Alloy steel heat treated to 54-56 Rockwell C surface hardness with an approximate 15 Rockwell C core hardness. Ground surface with hard chrome plate. Designed with 2 round valve ports to give better lubrication and load distribution to the valve ring while running.
- Master Chuck:** The 2 1/8" (53.98 mm) I.D. master chuck is of an all welded, reinforced steel and tubing construction. The chuck is equipped with extra long mounting bolt tubes. The handle mounts with three keys, each to insure maximum life, are placed on one side of the chuck to allow the post driver to be easily operated from one side of a panel fence.
- Handles:** 30 7/8" long, zinc plated handles constructed of steel tubing, with three keyways for maximum life and four springs to help isolate the operator from vibration. HI Tech pre-lubed bushings help to add long life to the handles.
- Throttle Valve:** Each unit includes a Rhino Stainless Steel Throttle Valve. The valve is equipped with a lever lock for safety.
- Fasteners:** S.A.E. Grade 5 bolts with Belleville lock washers A151 6150 Alloy steel. All fasteners are plated.
- Air Consumption:** 42 CFM (1.19 m³/min) @ 90 PSI (6.4 kg/cm²)
- Weight:** Approximately 41 lbs (18.6 kg)

### PD-45 Specifications

- Top Cover:** Ductile iron casting, high in strength and ductility has a 1" (25.4 mm) diameter handle designed into the cover for easy handling and carrying. O-Ring sealed.
- Body:** Ductile iron casting, with excellent wear resistant characteristics, high in strength and ductility with 60,000 PSI tensile and 40,000 PSI yield strength. 90° air inlets are cast into the body and tapped with 3/4" NPT female threaded ports, along with 1" (25.4 mm) diameter ergonomically designed side handles for easy handling and carrying. Chuck bolts pass thru the lower body flange into tapped holes in the chuck mounting plate allowing special chucks to be made in a wide variety of shapes and sizes.
- Piston:** Alloy steel heat treated to 54-56 Rockwell C surface hardness with an approximate 15 Rockwell C core hardness. Ground surface with hard chrome plate. Designed with 2 round valve ports to give better lubrication and load distribution to the valve ring while running.
- Master Chuck & Chuck Adapters:** The 3" (76.2 mm) I.D. master chuck is of an all welded, reinforced steel and tubing construction. The chuck is equipped with extra long chuck adapter attachment lugs. Standard chuck adapters are available in the following sizes: 1" (25.4 mm) I.D., 1 1/2" (38.1 mm) I.D., 2" (50.8 mm) I.D., 2 1/2" (63.5 mm) I.D. and a channel post adapter for 1.2 to 1.5 lbs/ft posts.
- Fasteners:** S.A.E. Grade 5 bolts with Belleville lock washers A151 6150 Alloy steel. All fasteners are plated.
- Air Consumption:** 30 CFM (0.85 m³/min) @ 90 PSI (6.4 kg/cm²)
- Weight:** Approximately 46.3 lbs (21 kg)

## PD-55 Specifications

- Top Cover:** Ductile iron casting, high in strength and ductility has a 1" (25.4 mm) diameter handle designed into the cover for easy handling and carrying. O-Ring sealed.
- Body:** Ductile iron casting, with excellent wear resistant characteristics, high in strength and ductility with 60,000 PSI tensile and 40,000 PSI yield strength. 90° air inlets are cast into the body and tapped with with 3/4" NPT female threaded ports, along with 1" (25.4 mm) diameter ergonomically designed side handles for easy handling and carrying. Chuck bolts pass thru the lower body flange into tapped holes in the chuck mounting plate allowing special chucks to be made in a wide variety of shapes and sizes.
- Piston:** Alloy steel heat treated to 54-56 Rockwell C surface hardness with an approximate 15 Rockwell C core hardness. Ground surface with hard chrome plate. Designed with 2 round valve ports to give better lubrication and load distribution to the valve ring while running.
- Master Chuck & Chuck Adapters:** The 3 7/8" (98.4 mm) I.D. master chuck is of an all welded, reinforced steel and tubing construction. The chuck is equipped with extra long chuck adapter attachment lugs. Standard chuck adapters are available in the following sizes: 1" (25.4 mm) I.D., 1 1/2" (38.1 mm) I.D., 2" (50.8 mm) I.D., 2 1/2" (63.5 mm) I.D., 3" (76.2 mm) I.D., 3 1/2" (88.9 mm) I.D. and three channel post chuck adapters for 1.2 to 1.5 lbs/ft, 2 to 2.75 lbs/ft and 3 to 4 lbs/ft posts.
- Fasteners:** S.A.E. Grade 5 bolts with belleville lock washers A151 6150 Alloy steel. All fasteners are plated.
- Air Consumption:** 42 CFM (1.19 m<sup>3</sup>/min) @ 90 PSI (6.4 kg/cm<sup>2</sup>)
- Weight:** Approximately 54.6 lbs (24.8 kg)

## PD-100 Specifications

- Top Cover:** Ductile iron casting, high in strength and ductility has two 1" (25.4 mm) diameter ergonomically designed handles and a chain pickup loop designed into the cover for easy handling and carrying. O-Ring sealed.
- Body:** Ductile iron casting, with excellent wear resistant characteristics, high in strength and ductility with 60,000 PSI tensile and 40,000 PSI yield strength. 90° air inlets are cast into the body and tapped with with 3/4" NPT female threaded ports, along with 1" (25.4 mm) diameter side handles for easy handling. Chuck bolts pass thru the lower body flange into tapped holes in the chuck mounting plate allowing special chucks to be made in a wide variety of shapes and sizes.
- Piston:** Alloy steel heat treated to 54-56 Rockwell C surface hardness with an approximate 15 Rockwell C core hardness. Ground surface with hard chrome plate. Designed with 2 round valve ports to give better lubrication and load distribution to the valve ring while running.
- Master Chuck & Chuck Adapters:** The 4 1/4" (107.9 mm) I.D. master chuck is of an all welded, reinforced steel and tubing construction. The chuck is equipped with extra long chuck adapter attachment lugs. Standard chuck adapters are available in the following sizes: 2" (50.8 mm) I.D., 2 1/2" (63.5 mm) I.D., 3" (76.2 mm) I.D., 3 5/8" (92 mm) I.D. and three channel post chuck adapters for 1.2 to 1.5 lbs/ft, 2 to 2.75 lbs/ft and 3 to 4 lbs/ft posts.
- Fasteners:** S.A.E. Grade 5 bolts with belleville lock washers A151 6150 Alloy steel. All fasteners are plated.
- Air Consumption:** 64 CFM (1.81 m<sup>3</sup>/min) @ 100 PSI (7 kg/cm<sup>2</sup>)
- Weight:** Approximately 100.8 lbs (45.7 kg)

## PD-140 Specifications

- Top Cover:** Ductile iron casting, high in strength and ductility has two 1" (25.4 mm) diameter ergonomically designed handles and a chain pickup loop designed into the cover for easy handling and carrying. O-Ring sealed.
- Body:** Ductile iron casting, with excellent wear resistant characteristics, high in strength and ductility with 60,000 PSI tensile and 40,000 PSI yield strength. 90° air inlets are cast into the body and tapped with with 3/4" NPT female threaded ports, along with 1" (25.4 mm) diameter side handles for easy handling. Chuck bolts pass thru the lower body flange into tapped holes in the chuck mounting plate allowing special chucks to be made in a wide variety of shapes and sizes.
- Piston:** Alloy steel heat treated to 54-56 Rockwell C surface hardness with an approximate 15 Rockwell C core hardness. Ground surface with hard chrome plate. Designed with 2 round valve ports to give better lubrication and load distribution to the valve ring while running.
- Master Chuck & Chuck Adapters:** The 4 1/4" (107.9 mm) I.D. master chuck is of an all welded, reinforced steel and tubing construction. The chuck is equipped with extra long chuck adapter attachment lugs. Standard chuck adapters are available in the following sizes: 2 1/2" (63.5 mm) I.D., 3" (76.2 mm) I.D., 3 5/8" (92 mm) I.D. and three channel post chuck adapters for 1.2 to 1.5 lbs/ft, 2 to 2.75 lbs/ft and 3 to 4 lbs/ft posts. A chuck is available to drive 4" x 4" (101 mm x 101 mm) wood posts and a chuck and drive cap are available to drive 4" x 6" (101 mm x 152 mm) H column guard rail posts.
- Fasteners:** S.A.E. Grade 5 bolts with belleville lock washers A151 6150 Alloy steel. All fasteners are plated.
- Air Consumption:** 64 CFM (1.81 m<sup>3</sup>/min) @ 100 PSI (7 kg/cm<sup>2</sup>)
- Weight:** Approximately 138.7 lbs (62.9 kg)

