

Fabrication



Pennsylvania Rail Car



Laser Burning

Please contact our sales team for any fabrication questions you may have!

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Machining



Fabrication Capabilities

Shearing

Shearing is accomplished on our 12 ft. Cincinnati model 500 shear. We can shear mild steel plate up to 1/2" thick and up to 12 ft. long. We can also shear stainless steel plate up to 3/8" thick and up to 12 ft. long. We also have a Best 12 ft. shear set up to shear angle iron up to 3/8" thick to various flange widths.



Press Brakes

PRC has 3 press brakes that handle most of our bending of up to 1/2"x10 ft. mild steel, depending on flange width and radius of bend; and up to 3/8"x12 ft. in mild steel in most radiuses. We can also bend heavier thicknesses in bar stock. We recently purchased a horizontal bender which makes bends in smaller parts and various sizes and thicknesses of bar stock more efficiently. All 3 press brakes are Cincinnati machines: Model 230 CB x 10ft, Model 350 CB x 12ft, and a 10ft mechanical.



Fabrication Capabilities

Punching and Notching

Two ironworkers and a large Kline Brothers mechanical punch handle all of our punching and notching needs. We punch up to 1" mild steel at 1 3/16" Dia. And 1/2" mild steel up to 1 5/16" with our present tooling. We notch up to 3/8" mild steel. We also keep a 12 ft. press brake set up to gang punch multiple holes simultaneously.



Sawing

We operate 3 automatic band saws, providing us the ability to saw a wide variety of bar, pipe, angle, channel, and tubing at angles up to 45 degrees.



Machining Capabilities

PRC has a complete and modern machine shop capable of almost all of your machining needs. Our Mori-Seki CNC Horizontal Milling Machine (figure 1) can handle large production runs with ease. We have 2 CNC Vertical Machining Centers (figure 2) to handle any milling or drilling needs. The 2 Mori-Seki CNC Turning Centers (figure 3) both have chucking and bar feed capabilities and sub-spindles. Both lathes have live tooling, to combine turning and milling or drilling operations. Some manual equipment is kept for specialty or secondary operations. These include a Radial drill, 2 Knee mills, a Turret lathe, an Engine lathe, a Surface grinder and a Landis threading machine.



Figure 1



Figure 2

Machining Capabilities

CNC Turning Centers



Figure 3

Welding Capabilities

PRC has welding personnel qualified in GMAW and GTAW processes. We continually operate 4 bench welding stations and have a large central area in our weld shop to accommodate larger fabrications.



Forging Department

In our forge, we operate 2 Ajax Upsetters and induction heating units to produce a variety of grab irons and handholds for the rail car industry. We produce these in $\frac{3}{4}$ " and 1" diameters in both flat foot and "L" foot designs.



Laser Burning Capabilities

Our laser burning is done on a Bystronic model 3015, 3k, Bystar Laser. This machine is CNC operated and we can generate a pattern using any .dxf CAD drawing. We can burn up to 60"x120" plates of the following thicknesses:



- Steel- up to $\frac{3}{4}$ " plate in most specifications and grades.
- Stainless Steel- up to $\frac{1}{2}$ " plate in most specifications and grades.
- Manganese 11- 14%- we stock up to $\frac{1}{4}$ " plate.
- Aluminum- up to $\frac{5}{16}$ " plate.



OXY/Fuel and Plasma Burning Capabilities

Our flame cutting and plasma cutting is accomplished on a CNC controlled table equipped with 4 OXY/Fuel torches and 1 plasma torch. We can flame cut from 1 to 8 parts per cycle with the addition of splitters. We plasma cut 1 part per cycle. We can burn 48"x120" plates in the following thicknesses:

OXY/Fuel

- Steel plate up to 4" in all specifications and grades.

Plasma

- Steel plate up to 1" in all specifications and grades.
 - Aluminum plate up to ½".
 - Stainless Steel plate up to 1".



Rubber Products

Pennsylvania Rail Car Co. has made door gasket for rail cars for over 20 years. We injection mold gasket corners for these gaskets and could produce similar injection molded items. We also operate a compression molding machine capable (with creation of die sets) of producing many different rubber parts.

