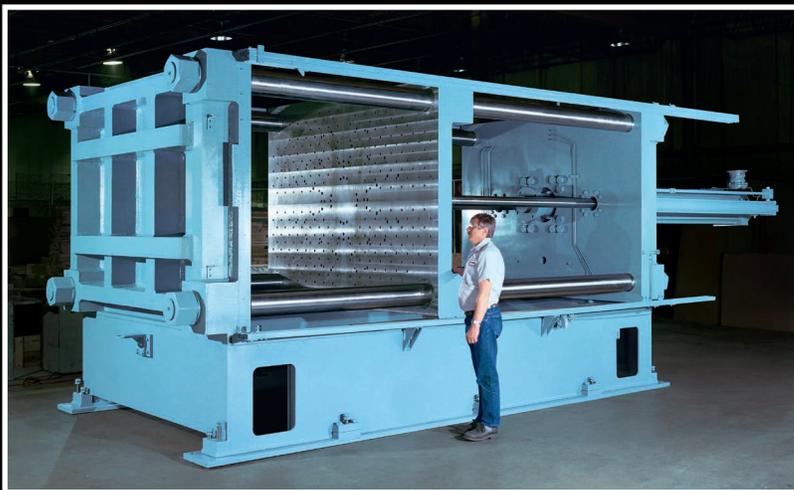


# FROM PLATE MATERIALS & SERVICES - TO COMPLETE PRESS FRAMES

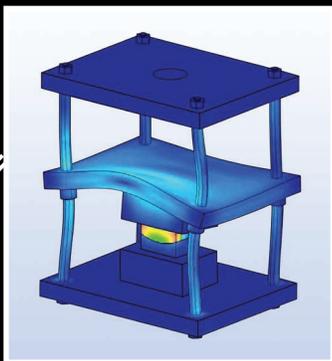


## Press Weldments & Assemblies:

Superior has specialized in these unique Heavy duty fabricated sub assemblies that serve the metal stamping, forging and plastic molding industries.



We offer our experience and fabrication skills for your presses that can range from a few tons to several thousand tons of press capacity.



## 2D & 3D CAD

AND

## F.E.A. SERVICES



Our engineering assistance offers you a method of determining the proof of component design before you manufacture your press or fabrications. Static stress with uniform material modeling, fatigue analysis, design variation and improvement are some of the services we offer. Send us your 2 D and 3D CAD files by using our **CAD Line**.

Visit our website for complete details.

Form-V3-MJF-0218



900 W. Drexel Avenue | Oak Creek, WI 53154  
(800) 558-6040 | Fax (800) 657-0855

**SUPERIORDIESET.COM**

# PLATE & WELDING SERVICES



**CONSTRUCTION**

A photograph showing a highway with several large white and blue semi-trucks, viewed through a circular opening in a metal plate.

**MINING**

A photograph of a mining operation with a conveyor belt and large piles of material, viewed through a circular opening in a metal plate.

**MATERIAL HANDLING**

A photograph of a blue steel truss structure, viewed through a circular opening in a metal plate.

**TRANSPORTATION**



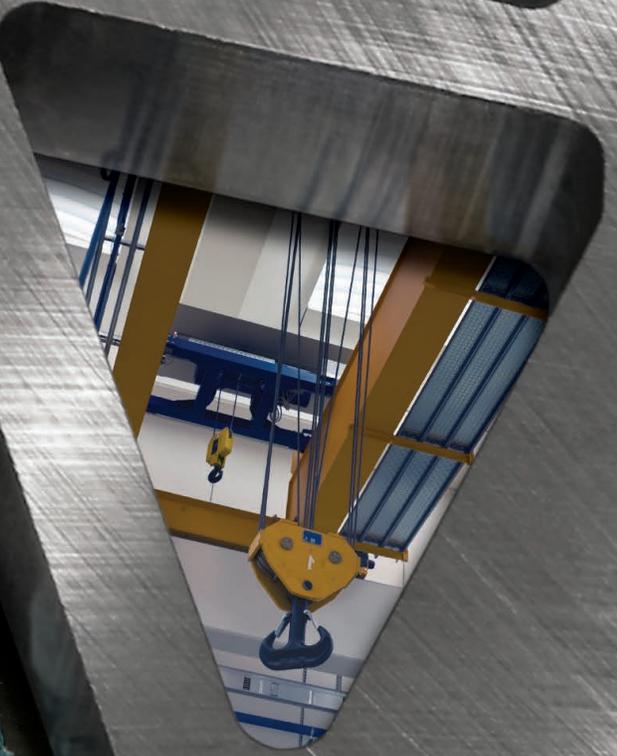
**MEDICAL**

A photograph of a medical facility with several large machines, viewed through a circular opening in a metal plate.

**NUCLEAR**



**MANUFACTURING**

A photograph of a person in a white protective suit and mask handling a large metal box, viewed through a circular opening in a metal plate.

*FROM ONE PART  
TO MEDIUM PRODUCTION*

A photograph of an industrial crane with a yellow hook and blue cables, viewed through a circular opening in a metal plate.

# FROM PLATE & STRUCTURAL INVENTORY - TO BASIC FINISHING SERVICES



**Structural Inventory:** Flats, bars, angles, channels, I beams and tubing are saw cut to your specifications.

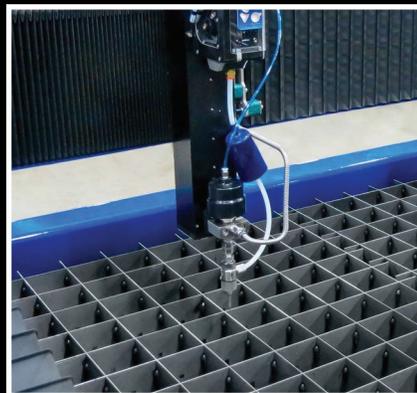
**Plate Inventory:** Full sheet 96" x 240", 1/4" up to 12" thick in most steel types including - A36, 4140, P20, Holder Block, 4340 Forge-Rite™ and FORTAL® aluminum. Certification and traceability services are available.



**Plasma/Oxygen Flame Cutting Machine:** This machine has one high-definition plasma cutting torch along with two standard oxygen torches. It has full CNC capabilities with a 120" x 330" plate table. The plasma torch can cut through 2" thick steel with extreme accuracy and speed along with a very clean and non-beveled edge.



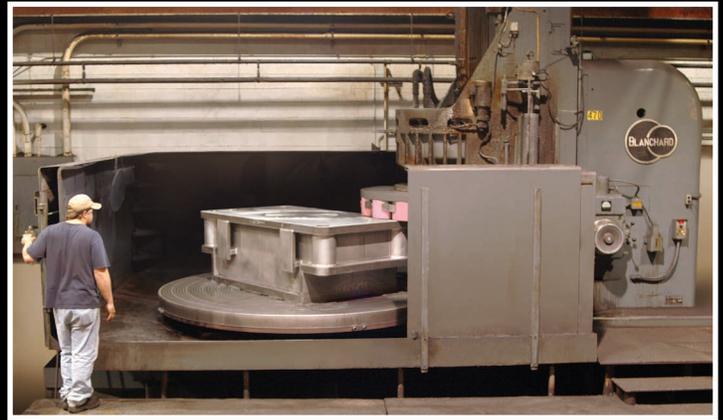
**Simple and Complex Flame Cuts:** Reduce machining time and costs. A 2 inch plate has a typical  $\pm .030$  inch flame cut tolerance. Nested plates offer you material savings. Angled flame cutting offered for steel and alloy materials.



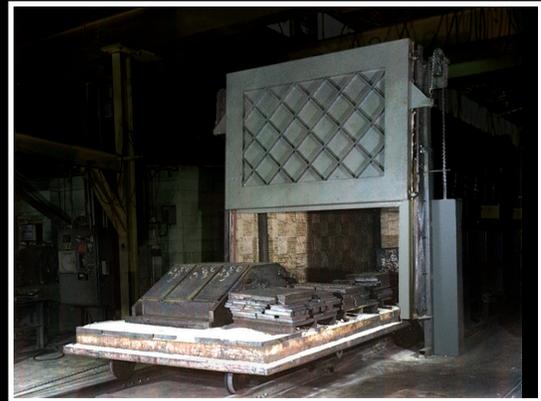
**Waterjet Cutting:** Extreme accuracy of contour shapes in any material type.



**Dual Spindle Edge Milling:** Precision edge milling of plates up to 48" square with 32 finish.



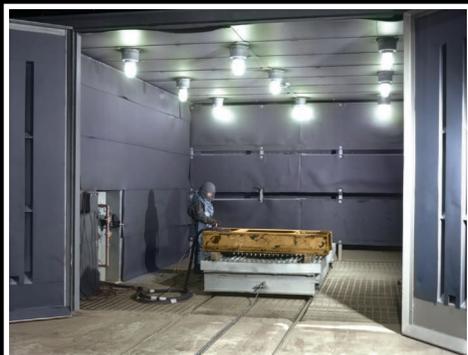
**Large Capacity Blanchard Grinding:** Rotary action surface finishing will accommodate parts up to 160 inch diagonal length. Typical .0015 per foot flatness and parallel tolerance.



**Stress Relieving:** Assures uniform material characteristics.

**Vibratory Stress Relieving:** Multi-point method for the best results in structural weldments and parts.

**Tempering:** Removes hardened surfaces after flame cutting alloy plate.

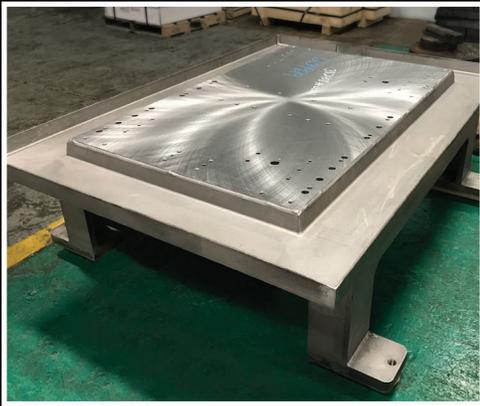


**Shot Blasting:** Ideal for scale removal, pre-weld treatment and for prime and painting preparation.



**Large Capacity Surface Grinding:** "Bridge type" flat and parallel finishing for all plate thickness. High micro-finishing down to 32 micro.

# FROM WELDING SERVICES - TO FABRICATED PARTS & ASSEMBLIES



**Fabricated Table Base:** Fully machined with ground top surface and water-tight trough.

**Large Fabrications:** Heavy plate fabrication is available for your unique component design. Crane capacity is up to 60,000 lbs.



**Structural Fabrications:** I-Beam and plate construction fixtures were fabricated for a new stadium construction project. Superior can provide heavy duty parts using a variety of structural steel shapes to your specifications.



**Structural Components:** Steel parts, using common structural shapes, can be furnished as welded, machined, stress relieved and painted which are all completed In-house to maintain our stringent process standards.



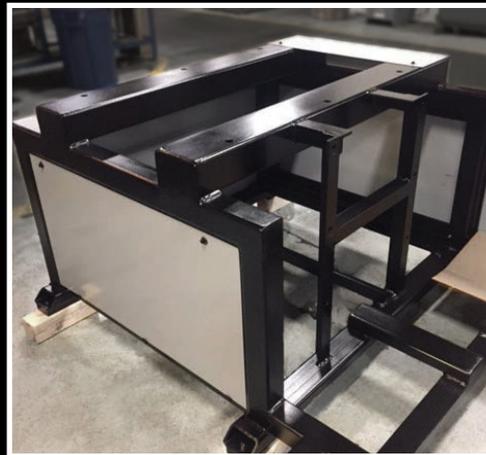
**Equipment Bases and Platforms:** Water-tight and air-tight fabrications are manufactured to your design. Complete turnkey services include prime and finish painting.

## DIVERSE WELDING CAPABILITIES

Consider Superior for your components welded from plate and structural materials. Quality welds including MIG, TIG, Submerged Arc, Stick and Carbon Arc gouging by our certified welders insures compliance to certification requirements.



**Irregular Frame Shapes:** Manufacturing experience, facility and machine capabilities can offer you fabrication of odd shapes and sizes. Our capabilities offer you welds up to 2 inches on steel parts.



**Complex Weldment Assemblies:** Structural tubing fabrication fully machined with sheet metal cladding and an 'automotive like' paint job all ready for final assembly.



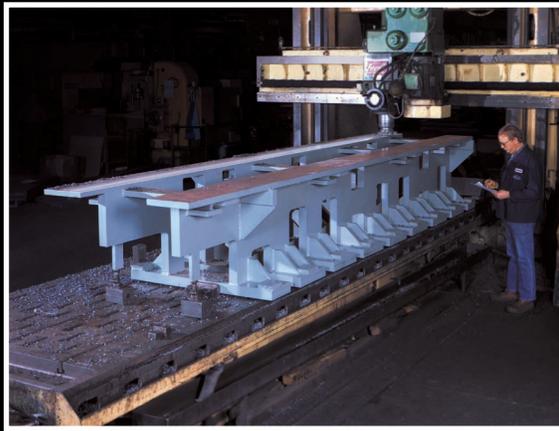
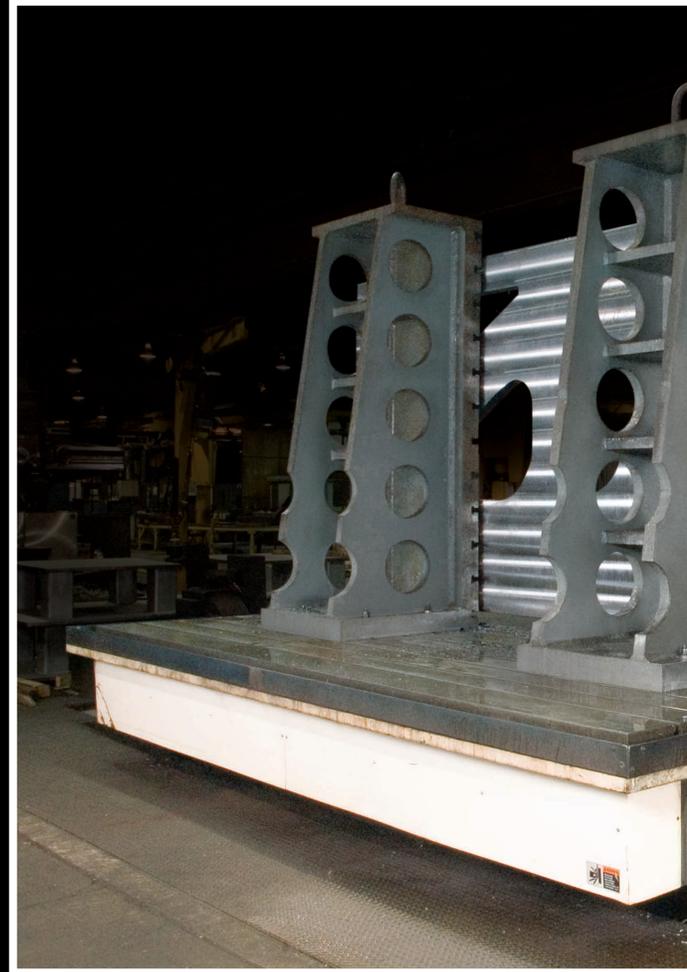
**Intricate Structural Assemblies:** Superior has the facilities to offer you steel fabricated assemblies using combinations of structural and plate shapes. Flatbed shipping docks help facilitate faster loading and shipping of large bulky parts.

# FROM COMPLETED WELDMENTS - TO BASIC OR DETAILED MACHINING



**Slotting & Pocket Milling:** Heavy bolster plate, such as this 16" thick unit, can be furnished with T-slots, bolt holes, milled edges and clamping pockets.

**Full Machining Services:** Our range includes from small to large, horizontal, vertical, and multiple machines. All are dedicated to efficient machining services from one part to medium production.



**Large Capacity Milling:** Long and narrow plate and fabricated assemblies are easily surface milled for flatness and parallelism.

## Plate Components:

Full service CNC machining includes profile milling, grinding, hole drilling, and tapping.

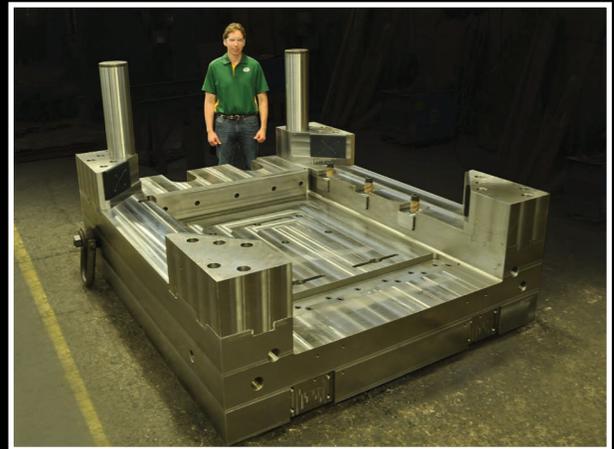
Save more time and costs with Superior's machining services that speed up your manufacturing capabilities.



**Large Fabrication Horizontal Milling Capacities:** Plate and weldment assemblies to 50 feet are finished machined by Superior's in-house machining equipment.

## SECONDARY MACHINING OPERATIONS

Superior's continual equipment investment for plant operations provides you full service capabilities in part fabrication like no other. Other machining services offered include cylindrical machining, turning and OD & ID grinding.



**Complete Finish Machining Services:** Forging press components designed and built with plates weighing over 30 tons each. A wide variety of grinding, drilling, tapping and pocket milling services were completed on this 8,000 ton bolster assembly.



**Medium Production Parts:** These components featured flame cutting, stress relieving, milling, boring and shot blasting operations. Custom fixtures including "tombstones" are easily manufactured to your specifications.



**Large Fabrication Vertical Milling Capacities:** Our machining centers offer you high tolerance machining in a shorter time frame. We feature complete inspection and verification to your fabrication design.

