

# PLATE & WELDING SERVICES



**CONSTRUCTION**

**MINING**

**MATERIAL HANDLING**

**TRANSPORTATION**

**MEDICAL      NUCLEAR**

**MANUFACTURING**

***FROM ONE PART  
TO MEDIUM PRODUCTION***



# FROM PLATE & STRUCTURAL INVENTORY - TO BASIC FINISHING SERVICES



**Plate Inventory:** Full sheet 96" x 240", 1/4" up to 12" thick in most steel types including - A36, 1045, P20, Holder Block, 4340 Forge-Rite™ and FORTAL® aluminum. Certification and traceability services are available.



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



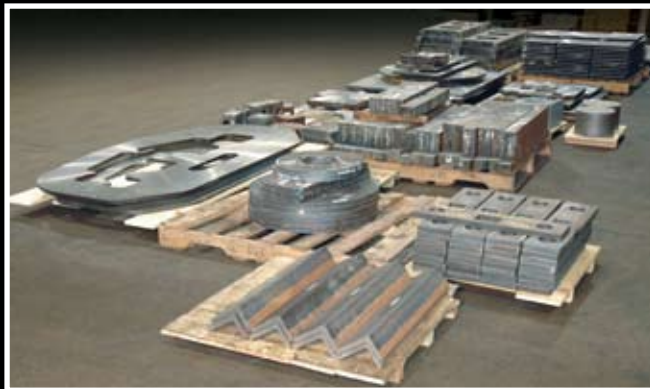
**Precision Flame Cutting:** Superior's plate cutting features accurate burn-out tolerance for 1/4 inch to over 12 inch plate thickness. CNC cutting, optical control and multiple torch capabilities are offered.



## BASIC FINISHING SERVICES



**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.

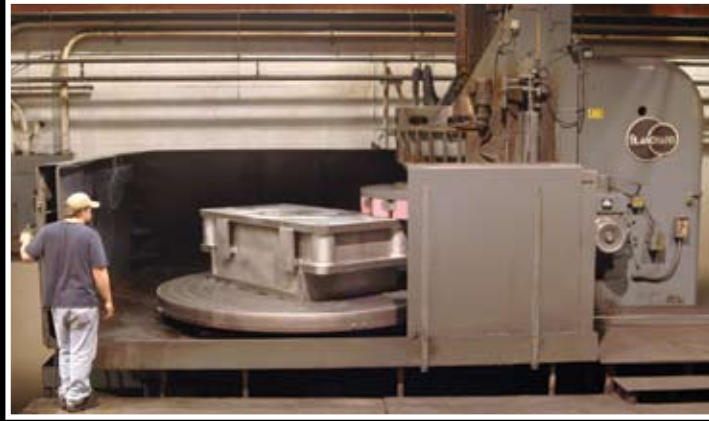


**Structural and Plate Burnouts:** Overnight shipping services for rings, discs, angles and odd shaped plates.



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

# BASIC FINISHING SERVICES



**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.



**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



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



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# FABRICATED PARTS AND ASSEMBLIES

## 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.



**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.



**Our Range of Parts:** Superior can make small, medium and heavy weldments with our complete in-house services.



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

## FABRICATED PARTS AND ASSEMBLIES



**Complex Weldment Assemblies:** Complete fabrication of a very intricate machine base was built for a high production automotive application. Our hallmark is using several in-house manufacturing capabilities required to produce this large assembly.



**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.

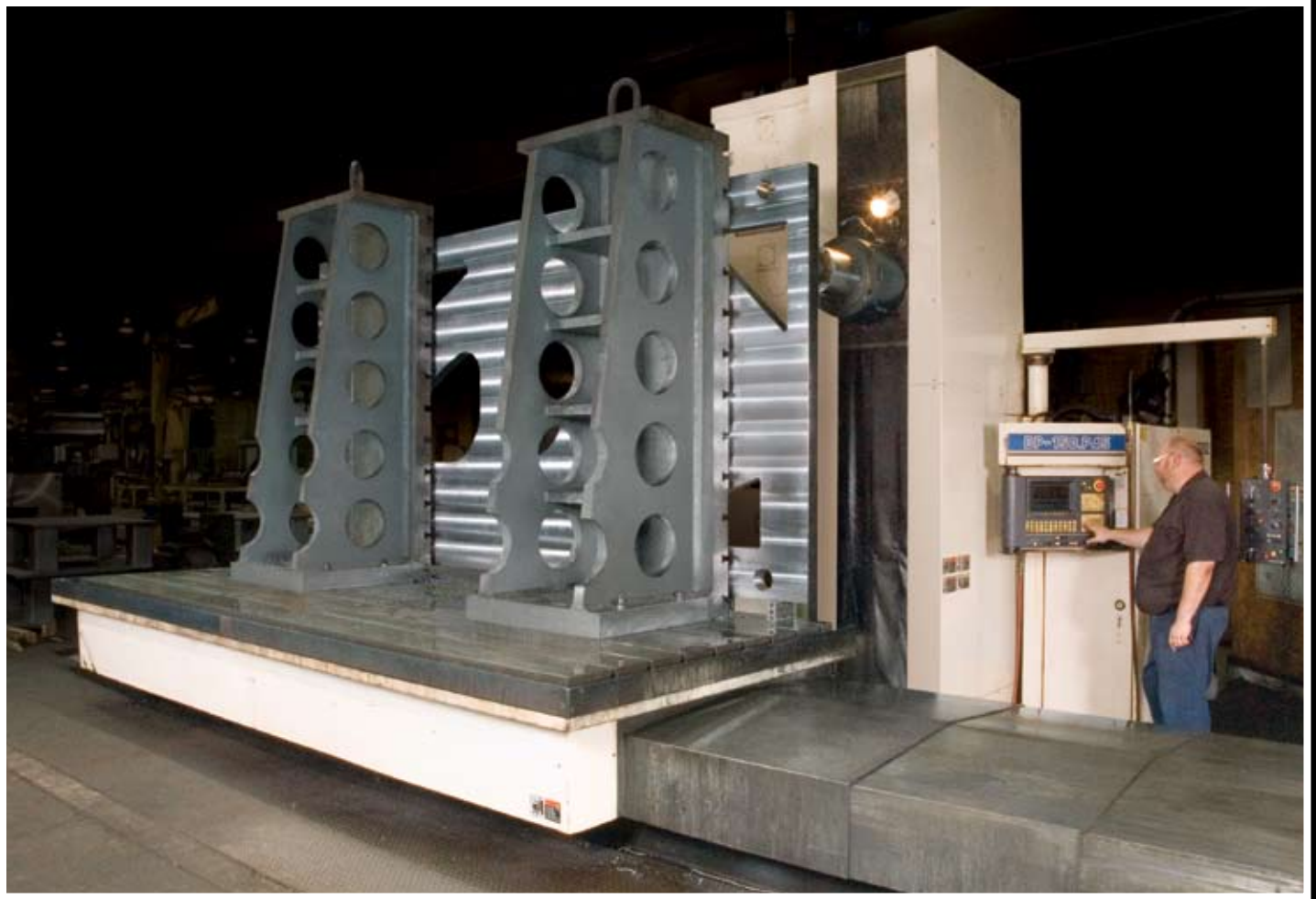
**Intricate Structural Assemblies:** Superior has the facilities to offer you steel fabricated assemblies using combinations of structural and plate shapes. Flatbed shipping docks help facilitate faster loading and shipping of large bulky parts.





# FROM COMPLETED WELDMENTS - TO BASIC OR DETAILED MACHINING

**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.



## 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.

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## 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.



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

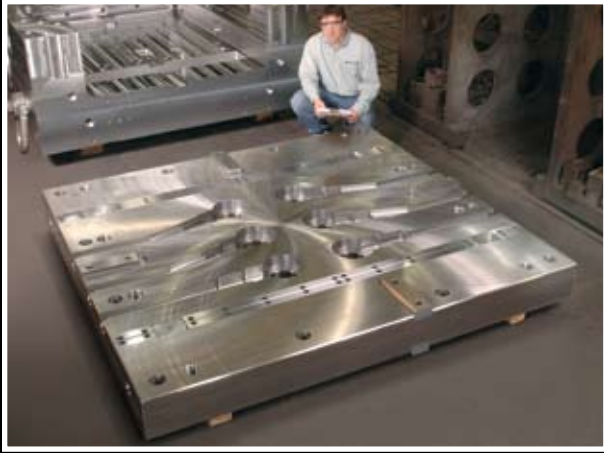
**Plate Components:**  
Full service CNC machining includes profile milling, grinding, hole drilling, and tapping.

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.

# BASIC OR DETAILED MACHINING



**Complete Finish Machining Services:** Forging bolster 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 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.





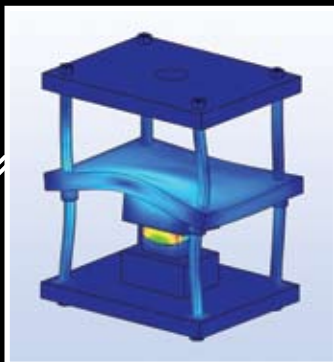
# FROM PLATE MATERIALS & SERVICES - TO COMPLETE PRESS FRAMES



**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**.



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