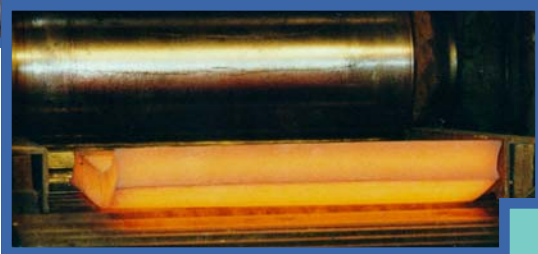


# *Manufacturing Sciences Corporation*

***The Metals Processing Specialists***



**Casting**



**Rolling**



**Machining**



**Fabrication**

***Fully - Integrated Manufacturing Facility***

***Turnkey Production***



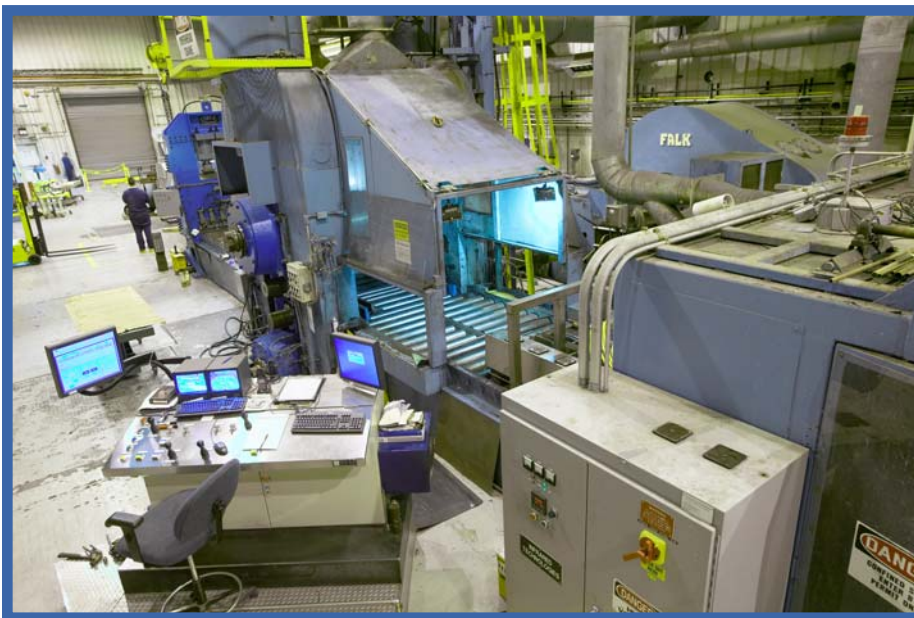
***Customized Services***

## Vacuum Induction Melting

- Two vacuum induction furnaces for high purity ingots
- Ferrous and non-ferrous alloys
- Ingots for rolling or forging
- Rounds and shapes for machining blanks
- Near net shapes



Vacuum Induction Melting Furnace



Four-High Rolling Mill With 5,000,000 Pounds of Separating Force

## Metal Rolling

- MSC rolls plate, sheet, and foil on our four-high rolling mill or our Stanat two-high rolling mill
- Plates and sheets up to 44" wide foil as thin as 0.001"
- Customer provided material or MSC material
- Specializing in small to medium lot sizes
- Process development and R&D on our rolling mill
- Data acquisition to document or repeat rolling schedule
- Three electric furnaces and one gas furnace for pre-heating materials for warm or hot rolling
- Infrared heating on the rolling mill

## Machining

- Array of CNC turning and machining centers
- Precision machining of ferrous/non-ferrous materials



Programmable CNC Lathe Utilizing Solid Works® Solid 3-D Model

## Quality Assurance

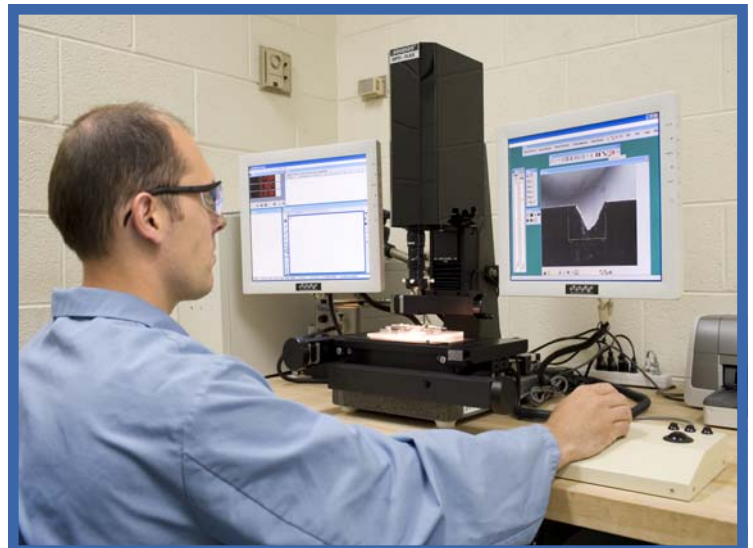
- NQA-1 QA program and DOE QC-1 approved
- Material traceability and process documentation



HAAS Vertical Machining Center

## Fabrication

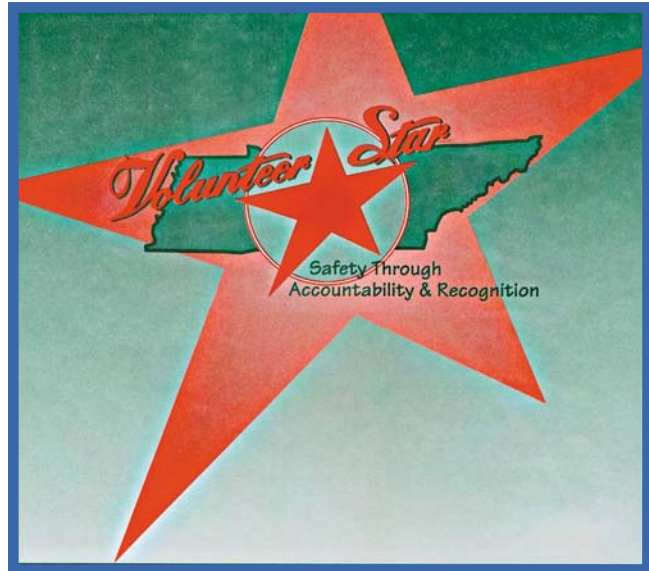
- Qualified MIG and TIG welders for fabricated components
- Cladding capability
- Plate shearing - up to 16-foot lengths
- Roll bending
- Deep drawing



Opti-Flex® Optical Inspection System

## Safety

MSC is one of 18 recipients of the Tennessee STAR Award for demonstrating safe work practices, procedures, and work history.



**MSC Facility at Oak Ridge, Tennessee**

***Please contact us today to discuss your requirements for custom services or turnkey production.***

**Manufacturing Sciences Corporation**

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