

Caster Stand Overhaul at Nucor Steel Mill

Project 789

- Casters make up separate lines which form steel plates
- Caster stands support casters
- Nucor's caster network's coating system had never been maintained...
 1. Too messy using conventional blasting
 2. Too expensive to contract blasting and painting to an outside company
 3. Expensive bearings and seals on the machine could not tolerate the dust of conventional blasting
 4. Safety concerns for blasters working in high elevations with the limited visibility associated with conventional blast helmets



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Caster stand dimensions:

21m x 10m x 15m (70ft x 35 ft x 50ft)

Project Size: 700m² (7,500ft²)

Manpower:

- Two technicians per 12-hour shift for two shifts
- Nucor provided 16 machine operators, per shift for a total of 32



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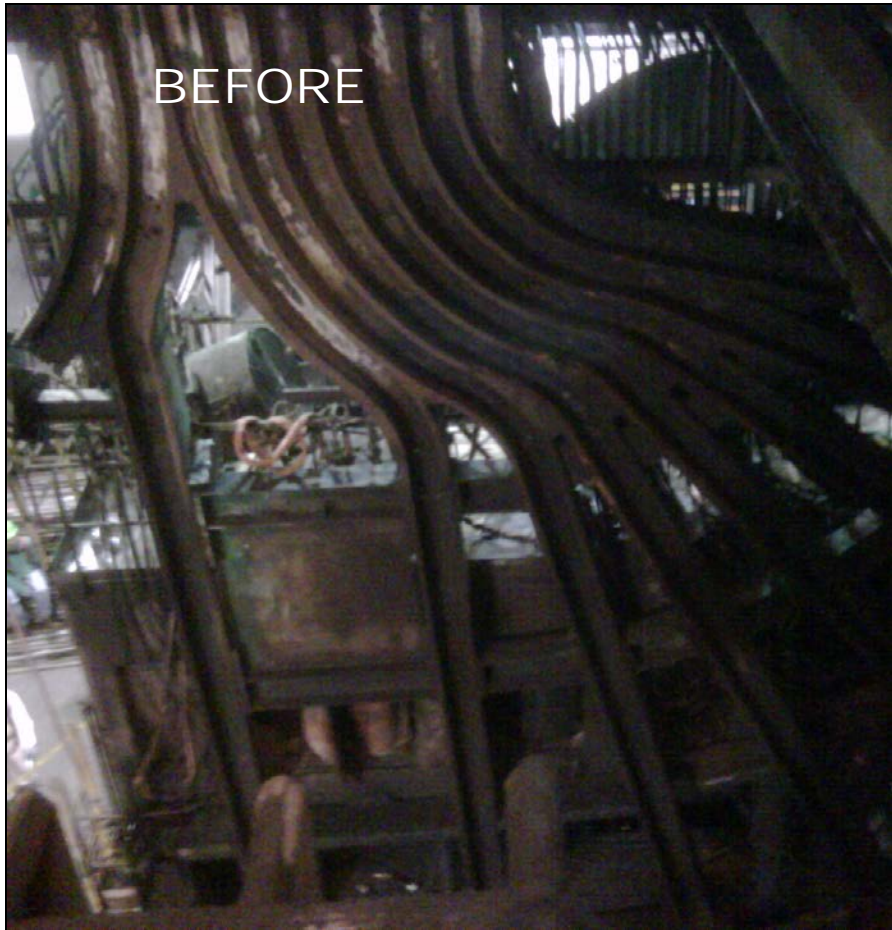
Used:

- Four 400-HP Feed Units
- Two 100-HP Feed Units
- Two 35-E Recyclers
- One 35-P Recycler
- 1,000 bags of Silver 16
Sponge Media™ abrasives



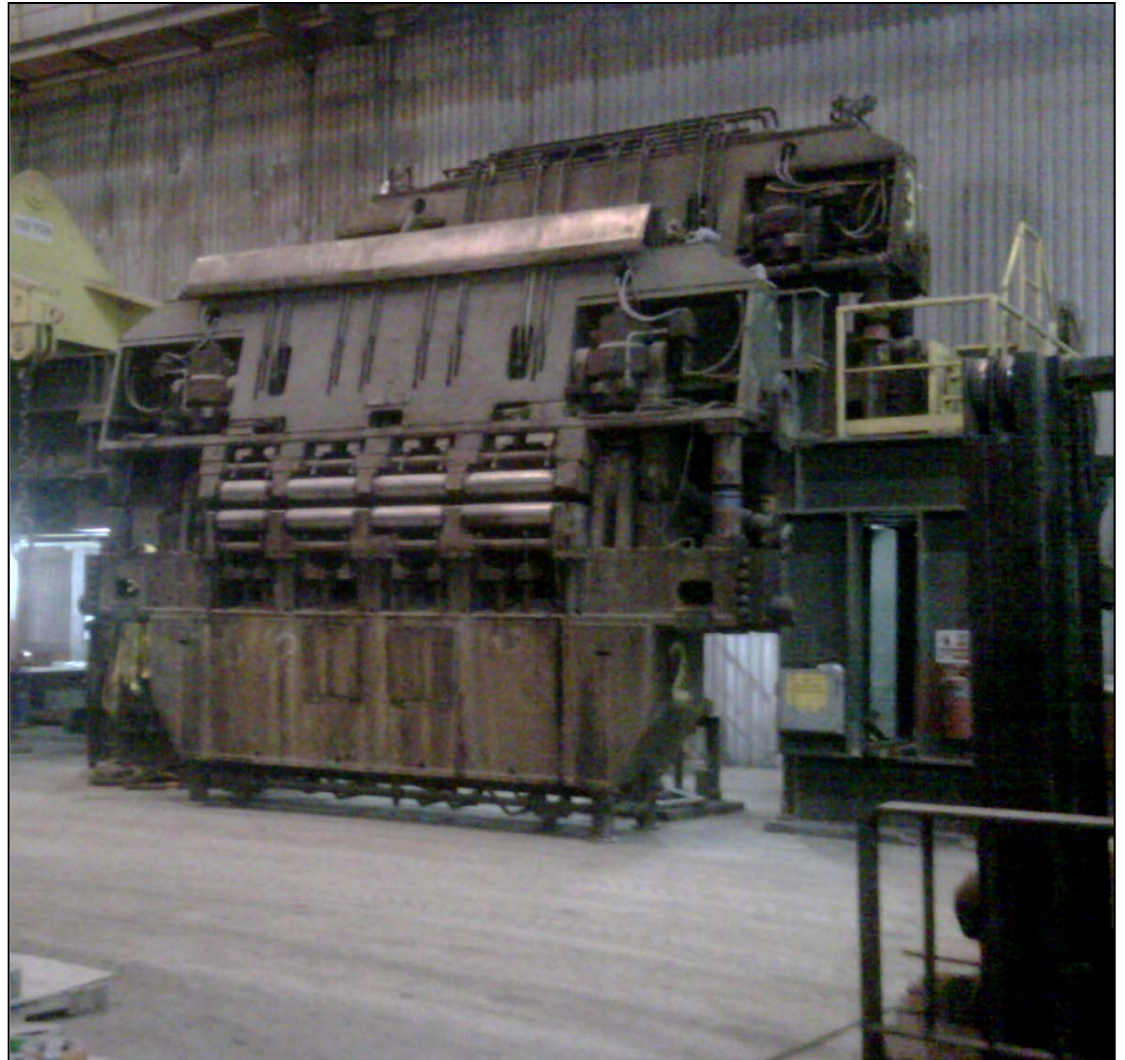
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Caster Guides



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- Project took nine days, working non-stop
- Facility managers are considering the purchase of complete Sponge-Jet systems
- Casters exit shop for maintenance (usually two at a time)



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