

142 W. Burns  
Norwich, KS 67118  
(620) 478-2212  
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301 Levee Drive  
Manhattan, KS 66502  
(785) 537-7733  
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## Capabilities and Equipment List

### FOUNDRY

#### Melting

2 – 2500 KW Inductotherm Furnaces  
(10,775 lbs/hour)

#### Molding

2 – 20" x 24" FBN Roberts Sinto  
(with 124 cooling positions)  
1 – 20" x 24" FBO Roberts Sinto  
(with 186 cooling positions)

#### Core Making

1 – IMF 3100 Iso-Cure machine  
1 – Shallco CB-15 Iso-Cure machine  
1 – B&P Shell Core machine  
1 – Dependable Shell Core machine

#### Cleaning Room

3 – Roberts Sinto Barinder CNC Grinders  
3 – SNAG Grinders

#### Pattern Making

1 – Hurco VMX64 CNC Mill  
1 – Hurco VM CNC Mill  
1 – Mori-Seiki SV-500 CNC Mill

#### Engineering

Solidworks  
MasterCAM  
Solidcast

#### Annealing

3 – Unitherm 1,000lb capacity furnaces  
(with shot blasting)

### MACHINE SHOPS

#### CNC Milling

2 – Okuma MA600  
(40" x 40" x 36")  
2 – Mori Seiki SH630/SH633  
(33" x 33" x 30")  
3 – Mori Seiki NH4000  
(22" x 22" x 25")  
4 – Mori Seiki NH5000  
(29" x 29" x 33")  
1 – DMG Mori NHX 5000  
(29" x 29" x 33")  
1 – DMG Mori NHX 4000  
(22" x 22" x 25")  
1 – Mori Seiki MV40 Vertical  
(43" x 18" Table)  
1 – Haas VF-4SS Vertical  
(52" x 18" Table)

#### CNC Turning

2 – DMG Mori NTX2000/1500S2M  
(5 axis; 10" chuck; live tooling)  
1 – Mori Seiki ZT2500  
(2 axis; 10" chuck; live tooling)  
1 – Mori Seiki CL25  
(2 axis; 10" chuck)  
1 – Hardinge GS250  
(2 axis; 10" chuck)  
2 – Okuma L1420  
(2 axis; 10" chuck)  
1 – Okuma LC40  
(2 axis; 12" chuck; live tooling)  
1 – Okuma LB45  
(2 axis; 25" chuck; live tooling)  
1 – Okuma LU15  
(2 axis; 10" chuck; live tooling)

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## Capabilities

- Pouring Grades – ASTM A536-84
  - 60-40-18
  - 65-45-12
  - 80-55-06
  - 100-70-03
  - Other grades available to meet customer needs
- Austempering offered
  - Grade 1 – 130-90-09
  - Grade 2 – 150-100-07
  - Grade 3 – 175-125-04
  - Grade 4 – 200-155-02
  - Grade 5 – 230-185-01
- Ductile Iron Castings 5 lbs to 65 lbs
  - Max dia of 16"
  - Max dim of 16" x 20" x 10"
- CNC milling up to 40" x 40" x 36"
- CNC turning up to 24" dia x 30"
- Annealing & heat treat
- Assembly and kitting
- Finish coatings and painting

## Engineering

- Casting design, technical assistance and manufacturing analysis
- Tooling design and fabrication

[www.farrarusa.com](http://www.farrarusa.com)

DUCTILE IRON FOUNDRY ■ MACHINE SHOP ■ PATTERN SHOP  
Registered to current revision of ISO 9001 by SRI Quality System Registrar