

BRADKEN

MANUFACTURING FACILITIES



Naval steel castings for USS NY



Carbon steel and low alloy steel castings to 55,000 lbs. ship weight



Large steel casting for mining industry OEM

Bradken - Amite

As one of the larger, established North American steel foundries, Amite's growth strategy involves investments by Bradken in technical resources such as Pro/ENGINEER and MAGMASOFT solidification modelling. Bradken - Amite's history shines in both the industrial and mining/ construction markets; by providing superior products and services for these industries. Complex engineered castings are becoming more of a focus as we implement technical tools and advanced infrastructure to manufacture more challenging steel sand castings. Basic arc melting contributes to the high standards of our castings and an on-site machine shop provides rapid delivery of machined castings from a single source.

Manufacturing Capabilities (Overview)

- Each Bradken business unit makes use of continuous improvement programs and maintains specialists at the business unit and corporate levels to drive improvements and efficiencies
- ISO 9001 certified world-class foundry
- Casting weight range: Up to 55,000 lbs in carbon and low alloy steels
- In-house X-ray and non-destructive testing facilities
- Machining and value added offerings

Key Differentiators:

- Large low alloy & carbon steel castings
- Specializing in jobbing and one-off projects
- In house testing and X-Ray capabilities
- Solidification modelling
- Machining

Safety & Training

Bradken - Amite is dedicated to safety. The Amite facility has been recognized as one of the winners for the Millionaires Safety Award. The annual award recognizes facilities that reach the one million mark of consecutive man hours worked without incurring an occupational injury or illness that results in days away from work. This commitment to safety and safety record has made our Amite facility a very distinct business unit within Bradken and within the North American steel foundry industry. The commitment to training is evident in the leadership programs also woven into the Bradken - DNA:

- Skills assessment to determine the area of training needs for supervisors
- Tailored curriculum based on needs
- Weekly training sessions
- Lean manufacturing training

The end result...

Professionalism: Enhanced customer focused approach

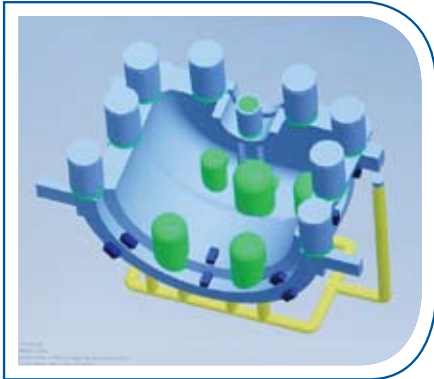
Ownership: A stronger feeling of capability

Supervisor Morale: A sense of accomplishment

Quality castings, value added offerings and pride in workmanship. Bradken - Amite is a natural choice for large carbon steel and low alloy steel castings.

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Bradken - Amite uses Pro/ENGINEER and solidification modelling to ensure casting integrity



Inspection of a large support casting



Large, machined steel differential for mining truck

Facility Information

In Business Since 1992

Capabilities

Casting
Machine Shop

Metals Cast

Cast Steels
Carbon Steels 5,000 to 55,000 lbs.
Low Alloy Steels 5,000 to 55,000 lbs.

Molding or casting process used
Air-Set/No bake 5,000 to 55,000 lbs.

Flask sizes
Minimum 16" X 16"
Maximum 192" X 192"

In House Heat Treating

Furnaces Multiple

What Type
Normalization
Stress Relieving
Annealing
Quench and Temper

Furnace Sizes
Minimum 146" X 146"
Maximum 264" X 288"

In-house Machining Operations
Painting Capabilities

Quality and Process Controls

Hardness
Dimensional Layout
Magnetic Particle
Microstructure Out Sourced
Radiography
Charpy Impact Testing Out Sourced
Magnetic Particle Examination
Liquid Penetrant Examination
Chemical Analysis
Sand Control

Ultrasonic Examination
Mechanical Testing
MagmaSoft
Solidification
Analysis

Certified Welding Standards
ASTM, ASME, MIL-S-248

Machine Shop Capability

Maximum lifting capacity
60,000 lbs.

Turning – Vertical

CNC	V-16	V-12	V-10
Minimum OD	20"	20"	20"
Maximum OD	192"	144"	120"
Maximum Length	100"	180"	106"

Milling – Horizontal

CNC			
Maximum Length	240"	144"	136"
Maximum Width	144"	72"	72"
Maximum Height	120"	96"	90"
Maximum Part Weight (lbs)	80,000	40,000	40,000

Quality Assurance Program

ISO 9001
Military (Naval)

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