

SUPERIOR
CRAFTSMANSHIP
IN THE
CASTING OF
DIVERSE
METALS



S U P E R I O R B R O N Z E



For more than 75 years, manufacturers from throughout North America have been turning to Superior Bronze Corporation for high-quality sand castings in brass, bronze, Monel, aluminum alloys and other special alloys. Today, castings made by Superior Bronze can be found on a variety of products in general industrial, commercial and military settings.

Superior has a long-standing reputation for fast turnaround and flexibility in meeting the diverse needs of customers. Our experience includes working with more exotic alloys such as manganese bronze and aluminum bronze. We also specialize in Monel and pure nickel castings.

We can work from both customer specifications as well as existing patterns, when necessary. On-site machining capabilities allow us to provide parts in any form—from rough to semi-machined to fully machined.



CASTING METALS/SIZES

Superior has experience casting in a variety of metals, including:

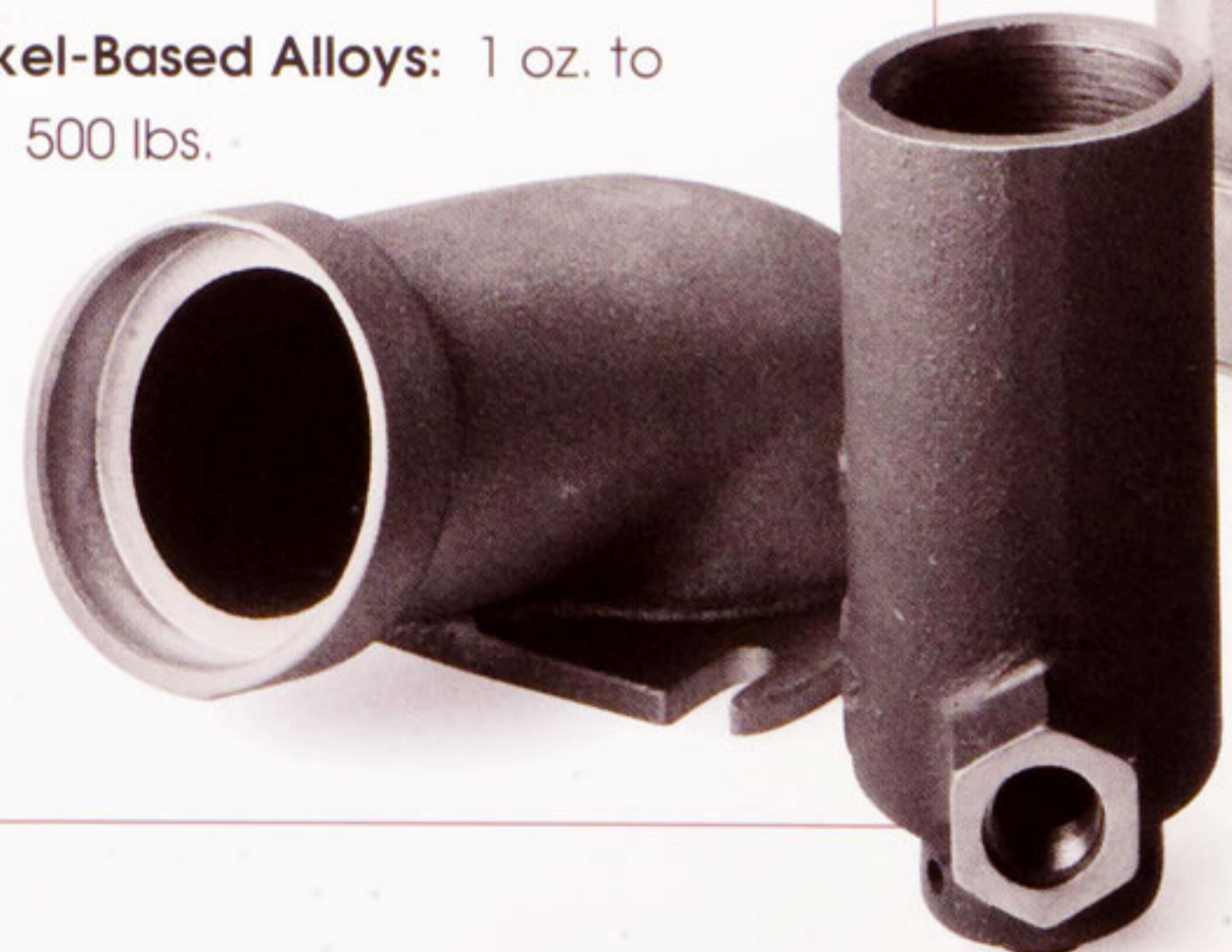
- Tin Bronzes
- Leaded Tin Bronze
- High Leaded Tin Bronze
- Red Brass
- Yellow Brass
- Manganese Bronze
- Silicon Bronze
- Aluminum Bronze
- Nickel Silver
- Ni-Vee Bronze
- Cu-Pro Nickel
- Pure Nickel
- Monel
- 304, 310, 316 Stainless Steel
- Pure Copper
- Nearly All Aluminum Alloys

Castings can be provided in a range of quantities, from as few as one to as many as 10,000 or 20,000. We pour in sizes as follows:

Brass, Bronze: 1 oz. to 1,000 lbs.

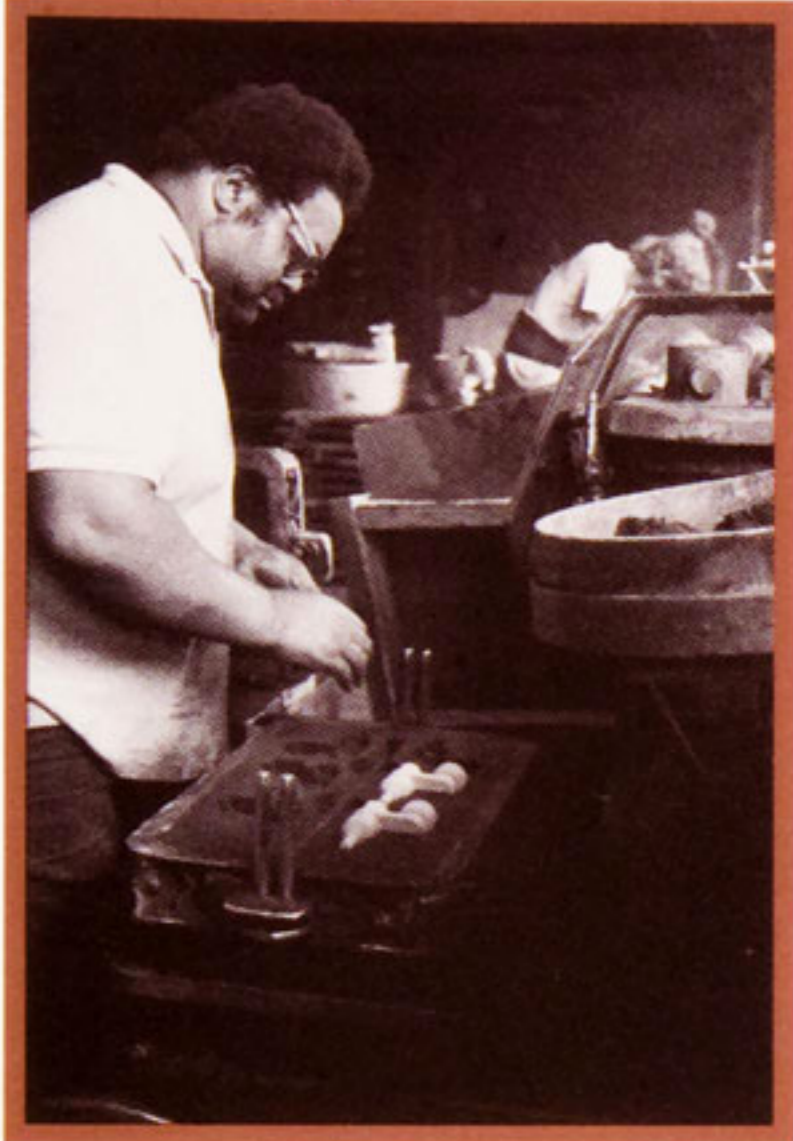
Aluminum Alloys: 1 oz. to 600 lbs.

Nickel-Based Alloys: 1 oz. to 500 lbs.



OUR CAPABILITIES

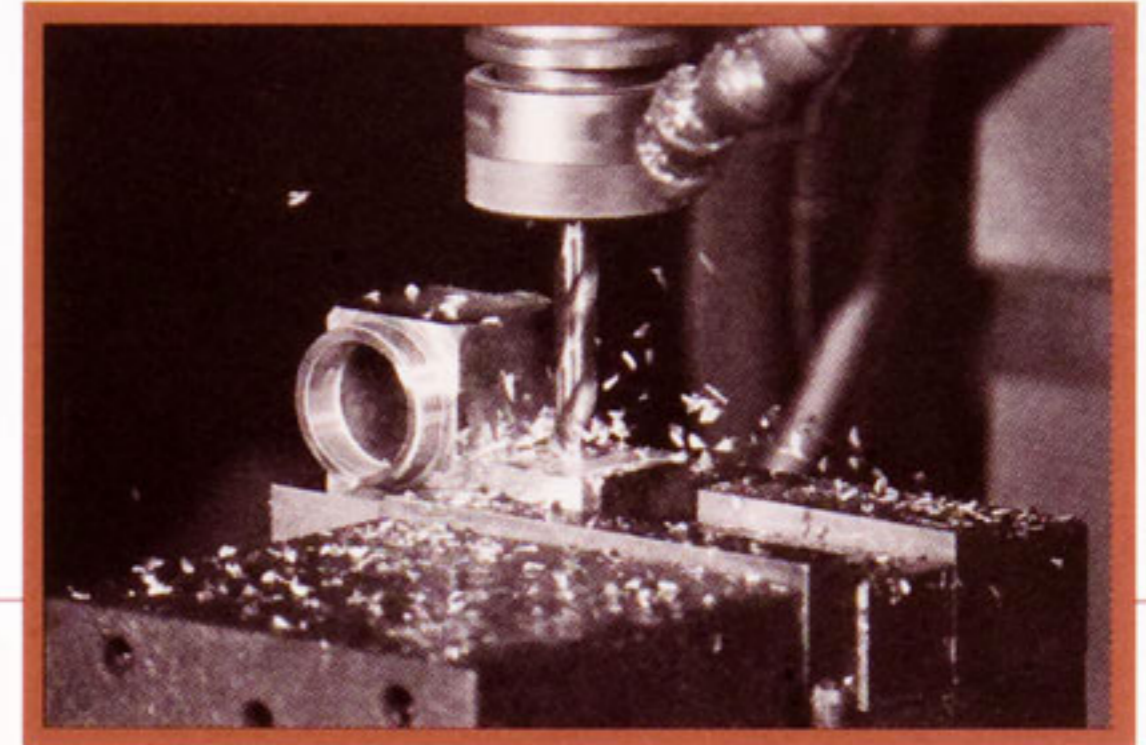
Core-Making: Shell, CO₂ and oil sand processes; capabilities ranging from a single core of simple design to multiple, complex-core inserts.



Melting: Capacity to pour 18,000 pounds per shift utilizing two 750-pound Detroit Electric Furnaces and 10 gas-fired units.

Molding: Green sand molding at Jolt Squeezer, bench and floor molding stations.

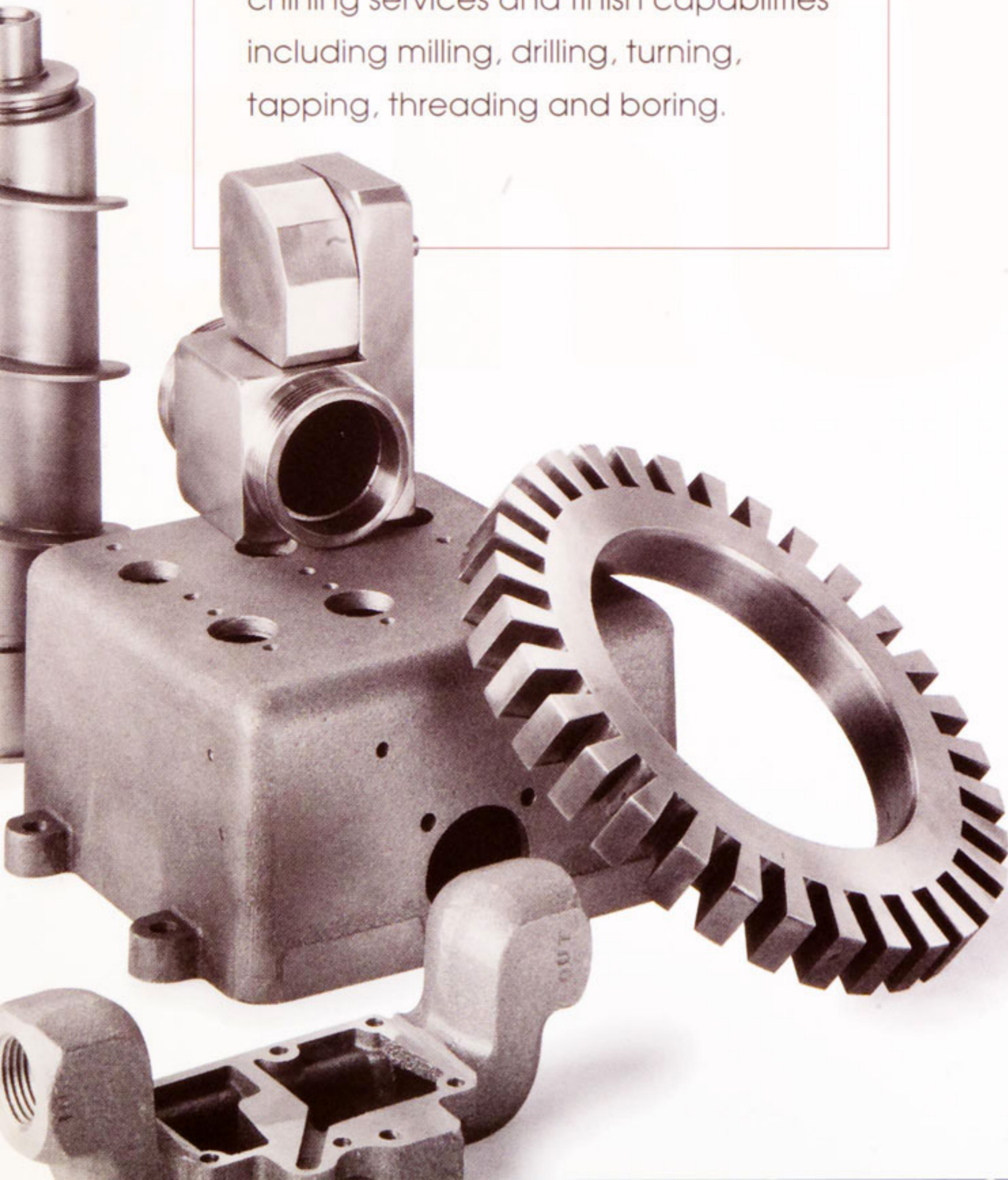
Machining: CNC machining services and finish capabilities including milling, drilling, turning, tapping, threading and boring.



OUR QUALITY STANDARDS

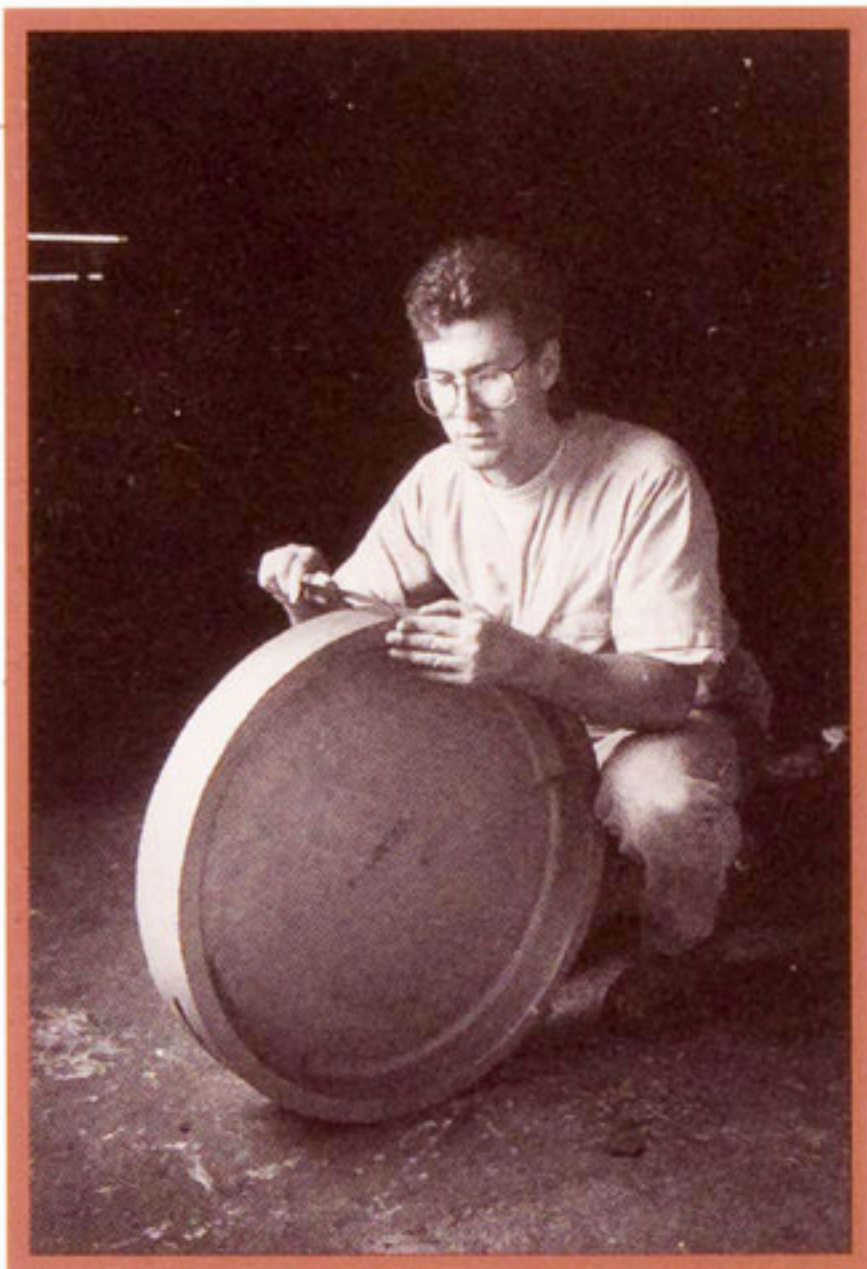
In all of the metals we cast, we meet a variety of required specifications, including ASTM, SAE, Army, Navy and Federal. Specializing in low- to medium-run quantities also allows us to meet more unique product specifications.

To fully ensure all product requirements are met, we implement statistical process control of our core-making and molding operations. Prior to production runs, dimensional checks are done on sample castings, and all finished castings are visually inspected for defects. Every lot of castings undergoes chemical and mechanical analysis for conformance with material specifications. X-ray, liquid penetrant and other additional inspections are also made as requested.



OUR COMMITMENT

Since our founding in 1917, Superior Bronze has maintained a dedication to providing castings of superior quality and durability—products that ensure the success of our customers. We'd enjoy the opportunity to prove that commitment to you. Give us a call at 814/452-3474.



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