

Western Foundries



Casting Capabilities



Western Foundries

Engineering quality sand castings for tough applications is our specialty. We provide full service offerings for prototype projects and production runs. We pour irons, high chrome irons and multiple alloys.

Pattern Services

An on-site full service pattern shop provides quick turnaround on new patterns, pattern modifications or pattern repairs. Using advanced computerized machinery, pattern molds and core boxes can be produced in a variety of shapes and sizes. New parts can be created from the following sources:

- Existing casting (either new or worn)
- Design drawing
- Solid Model



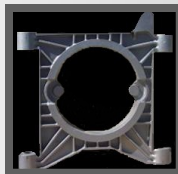
Centrifugal Pump Case



Ornamental Casting



Agricultural Hub



OEM Casting



Gear



Rail Coupler



Roller

Casting Sizes

Irons: 2 to 3,500 pounds

Other Alloys: 2 to 2,500 pounds

Diameters: up to 10 feet

Products and Markets

Pumps

Cases, impellers, wear parts, frames for horizontal, vertical and specialty pumps. Materials include irons, high chrome irons, steels, stainless steels, and nickel based alloys. Industries served are fertilizer, chemical, mining, aggregate and many more.

Mining

Liners, crushers, pulverizers, rollers, wear plates, blades and pump parts.

Cement

Mixer liners, wear parts and pump components.

Agricultural

Hubs, tips, ripper points, spikes and shanks.

Architectural

Iron fences, ornamental trim and decorative structural castings.

Rail Renovation

Steam and antique train parts - brake shoes, firebox grates, compressor housings and journal boxes.

Sugar Refining

Pump components, wear parts and mill machinery components.

Construction

Crusher liners, bridge drains and equipment components.

OEM Equipment and Products

Engineered castings and production components for equipment manufacturers.

Gears

Specialty gear castings up to 10 feet in diameter with cast tooth design.

Challenged by Corrosion or Erosion?

Our high performance corrosion and abrasion resistant castings excel in the toughest applications. Western Foundries' specialty Duplex Stainless Steel (WCD4) provides 90 BHN points higher than typical ASTM A890 CD4MCu. Our specialty Hastelloy C for corrosive environment lasts 75% longer than standard ASTM A494 CW-2M. Maxalloy 2 and 5 hard irons were developed specifically to increase wear life in abrasive applications and can achieve hardness values of over 750 BHN. Our expertise in machining these irons without an annealing process ultimately saves the customer cost and greatly reduces lead time. Maxalloy 10 is a specialty material offered when both corrosive and erosive conditions are present.

Machining and Finishing

Western Foundries offers several finishing options for your convenience, including:

- Rough Machining
- Finish Machining
- Sandblasting, Painting
- 2 Plane Balancing
- Hydrostatic Testing for Pressure Parts



Machined Casting



Quench after Heat Treat

Heat Treatment Capabilities

All alloys can be treated to ASTM or customer specifications, or custom engineered to meet your needs. Capabilities vary from subcritical stress relieving of iron and steel castings to solution annealing of stainless steels. Proprietary thermal and cryogenic treating of specialty alloys provides a wide range of properties to offer an optimal material solution.

Material Offerings

	ASTM Designation	
Irons	Gray Iron	A48
	Ductile Iron	A536
	Ni-Resist	A436 Gr 1, 1b, 2, 2b
Abrasion Resistant Hard Irons	White Iron	N/A
	Maxalloy 2	A532 Cl II, Type B Mod
	Maxalloy 5	A532 Cl III, Type A Mod
	Maxalloy 10	Proprietary
Carbon Alloy Steel	1020	A27/A148
	LCA	A352 Gr LCA
	LCB	A352 Gr LCB
	LCC	A352 Gr LCC
	WCA	A216 Gr WCA
	WCB	A216 Gr WCB
	WCC	A216 Gr WCC
High Strength Low Alloy Steel	8620	A487 Gr 4 A, B, C, D
	8630	A487 Gr 4 A, B, C, D
	4140	A148 Gr 90-60, 105-85
Stainless Steel	CA15	A487 Gr CA15
	304L	A743 Gr CF3
	304S	A743 Gr CF8
	316L	A743 Gr CF3M
	316S	A743 Gr CF8M
	347S	A743 Gr CF8C
	317L	A743 Gr CG3M
	317	A743 Gr CG8M
	Alloy 20	A743 Gr CN7M
	Nitronic 50	A743 CA6NM
	904L	A743 CN3MCu
Duplex Stainless Steel	CD4	A890 Gr CD4MCu 1A
	CD4B	A890 Gr CD4MCu 1B
	WCD4*	A890 Gr CD4MCu 1A
Super Duplex Grades	CE3MN	A890 Gr CE3MN 5A
	CE3MN	A890 Gr CE3MN 6A
Precipitation Hardened SS	CB7Cu-1	A747 Gr CB7Cu-1
	CB7Cu-2	A747 Gr CB7Cu-2
Nickel Base Alloys	Hast G30	CXNW Modified
	Hast B2	A494 N-7M Modified
	Hast C	A494 CW-2M

Partial listing—contact Western Foundries for complete offerings

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