



THE SAWBROOK STEEL CASTINGS CO.



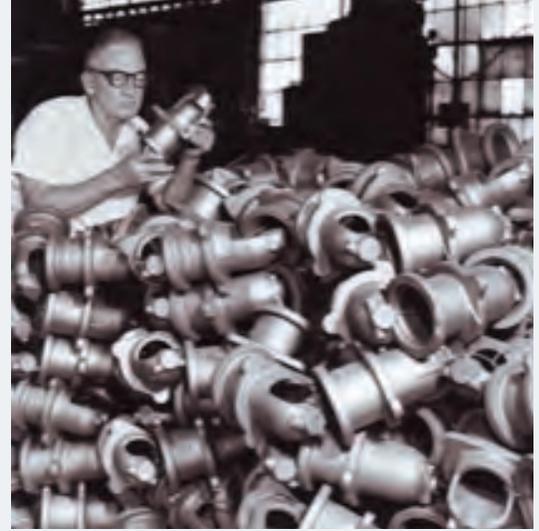
Manufacturing Quality Carbon & Low Alloy Steel Castings

FROM 1 TO 10,000 POUNDS SINCE 1923

For 90 years, Sawbrook has been a leader in the production of the highest quality carbon and low alloy steel castings for a broad spectrum of American industry.

Our manufacturing facility in Cincinnati, Ohio produces a wide range of steel casting shapes and sizes from 1 to 10,000 pounds.

With a monthly production capacity of 325+ tons, we deliver complete customer satisfaction on even the most demanding projects.



At Sawbrook we are committed to producing the highest quality steel castings at the most economical price. For experienced leadership and time-proven performance, *Discover the Sawbrook Advantage.*



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CORES AND MOLDS

Sawbrook takes extreme care in the making of cores and molds to assure good surface finish and correct dimensional control. Cleanliness, proper dryness, permeability and hardness of the cores and molds are all carefully monitored, resulting in the highest quality finished casting.

CORES

Oil Sand, CO², No Bake, and Shell, depending on the specific design of the casting and its final function

MOLDS

Green Sand and No Bake

SQUEEZER

Osborn Squeezer machines
Flask sizes: 12"x12" to 18"x18"

COPE & DRAG

Osborn Cope and Drag machines
Flask sizes: 16"x16" to 30"x30"

FLOOR

Flask sizes: 24"x24" to 120"x120"

SAWBROOK STEEL IS COMMITTED TO QUALITY CONTROL

At Sawbrook, we are constantly working to produce better steel castings. New techniques and methods all along the production line are aimed toward one common goal: the finest steel castings possible. Computerized internal controls and strict adherence to our Quality Control Manual are constantly employed to improve our foundry standards.

HEAT TREATING

Methods include stress relieving, annealing, normalizing, quench and tempering.

MELTING

The Electric Arc Furnace process produces a steel with maximum fluidity and excellent mechanical properties. Heat sizes range from 7,500 pounds to 15,000 pounds.

INSPECTION

Inspection is a continuous operation throughout the casting process to maintain Sawbrook's high standards of quality. Magnetic particle, liquid penetrant, ultrasonic, radiographic, spectrographic, and hardness testing procedures are utilized.

TESTING

Certifications for both chemical composition and physical properties are available by request.



QUALITY AND RELIABILITY FOR AMERICA'S LARGEST MANUFACTURERS

- Hoists and Industrial Cranes
- Machine Tools
- Power Cranes, Shovels, Draglines, Off-the-Road Vehicles and Replacement Parts
- Oil Field Machinery and Equipment
- Mechanical Power Transmission Equipment
- Crushing and Pulverizing Equipment
- Specialized Mining Machines Equipment and Repair Parts
- Valves
- Specialized Freight Train Cars
- Presses
- Gear Industry

STANDARD SAWBROOK STEELS

Materials commonly poured at Sawbrook Steel.

If you don't see what you are looking for, please contact us.

AISI Grade	C	Mn	Cr	Ni	Mo	Tensile Strength (ksi)	Yield Strength (ksi)	BHN	Applicable Spec
1020	.25 max	.70 max	residual	residual	residual	60	30	187 max	ASTM A216 WCA
	.15-.25	.40-.60	residual	residual	residual	65	35	187 max	ASTM A27 N-1, N-2, 60/30
1025	.30 max	1.00	residual	residual	residual	70	36	137-187	ASTM A216 WCB
	.20-.30	.50-.90	residual	residual	residual	70	36	137-187	ASTM A27 65/35, 70/36
1019	.15-.23	.90-1.20	residual	residual	residual	70	40	140-201	ASTM A216 WCC
	.15-.23	.90-1.20	residual	residual	residual	70	40	140-201	ASTM A27 70/40
1040	.35-.45	.60-.90	residual	residual	residual	80	40	163-201	ASTM A148 80/40
1045	.40-.50	.50-.90	residual	residual	residual	85	45	174-229	SAE J435a
8620 to 40	.15-.45	.60-.90	.40-.60	.40-.70	.15-.25	80	50	163-207	ASTM A148 80/50
						90	60	187-229	ASTM A148 90/60
						105	85	223-262	ASTM A148 105/85
						120	95	262-302	ASTM A148 120/95
						150	125	311-363	ASTM A148 150/125
4130 to 40	.25-.45	.60-1.10	.80-1.10	residual	.15-.25	150	125	321-375	ASTM A148
						175	145	363-404	ASTM A148
4330 to 40	.25-.45	.60-.80	.70-.90	1.65-2.00	.20-.30	150	125	321-375	ASTM A148

Residuals will be below maximum concentrations when applicable.



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