

Steel Founders' Society of America

2025 Industry Market Forecast



Marketing Committee Role

The function of the Marketing Committee is to **broaden the market for and promote the use of steel castings** by investigating and developing new markets, developing and implementing an effective marketing program, and communicating the advantages of steel castings to present and prospective consumers in an effective manner.

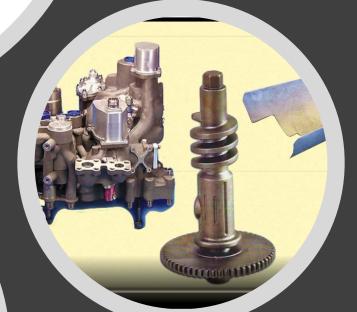
To carry out its mission, the committee maintains liaison with other committees of the Society through the staff, identifies technical, business and market topics of interest to customers and SFSA members, directs development of the material and delivery of the information. The committee develops the deliverables for the marketing program such as messaging, competitive input, target market, and specific planning, The committee also performs related market research to help guide the work of the Society and **prepares** each year for the Society an annual forecast of steel casting demand.....

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Standards specify either a minimum or a range of mechanical properties. Your entered value(s) must be equal to or higher than the minimum or within the mechanical properties specified for a grade in a standard to have a match result. You can search tensile strength (UTS), yield strength (YS) impact toughness, and rupture strength in Metric (SI) or Imperial System. You only need to in using one unit and your entered value will automatically be converted to the other unit.
Hardness BHN HBW HRC
Tensile strength ksi or MPa
Yield strength ksi or MPa
Elongation%
Reduction in area%
Impact Foot-pounds or Joules
Impact test temperature in °F or °C
Stress rupture test ksi or MPa
100 hour rupture test MPa at temperature in °C (Cptonsi)

Customer Education Resources

Elements that are specified as "Others" in a standard are not included in the search algorithm. To see these "Other" elements of a certain grade, click to

of wt% of elements specified for a grade in a standard to have a match result.



- Steel Foundry Directory
- Free SFSA Publications
- Online Specification/Material Database

Steel Founders' Society of America

- Customer Webinars
- White Papers
- Foundry Glossary
- New Steel Casting Design Videos
- Handbook Supplement 6 Update
- Steel Casting NDT Methods











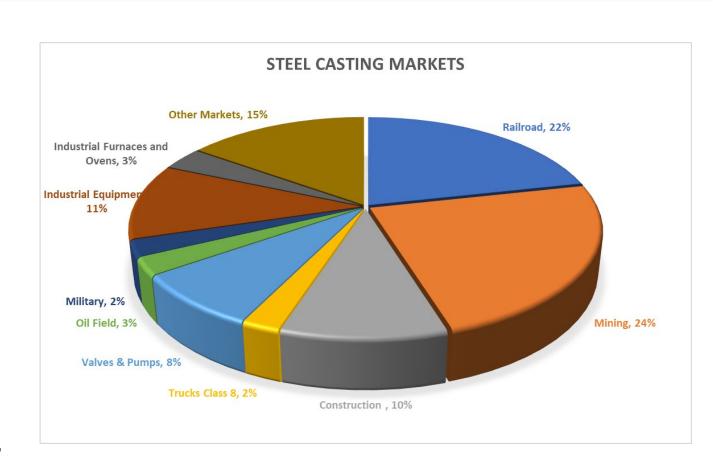
Steel Markets Survey

SFSA Markets	Steel Casting Examples
Rail/Transit	frames, couplings, bolsters, track components
Mining - Equipment	axle housing, frame components, suspension, gear case
Mining - Consumables	G.E.T., liners, hammers, grate plates, cement and aggregate components
Construction Equipment	axle components, sprocket, end caps, transmission housing
Truck - Class 8	suspension brackets, brake components, axle spindles, fifth wheels
Pump	housing, impeller, covers, bowls
Valve	strainer bodies, bonnets, butterfly valves
Oil & Gas	port adapters, brackets, levers, slip linkages
Military	ground vehicle and maritime components
Industrial Furnace and Oven Mfg.	Furnace, heat treat, steel mill components - rollers, links, baskets
Industrial Machinery	Industrial equipment parts - pulp & paper, food, shotblast - plates, wheels, sprockets, flanges
	OTHER MARKETS
Agricultural Implement Manufacturing	Agricultural Products - Hitch Links, Sprockets
Electric Power Generation	Power Generation - Coreforms, deflector blocks
	Aerospace bearing supports, combustor cases, compressor cases, exhaust diffusers, stationary
Aerospace Product and Parts Manufacturing	inlet guides, swirlers
Engine, Turbine, and Power Transmission	
Equipment	Turbine engine - compressor cases, combustor basket
Special Die and Tool Manufacturing	Dies, Tooling, fixtures



Forecast Process

- Segmented primary markets
- Identified key customers and users in each market
- Analyze customer top line sales
- Market survey to members
- Leverage customer associations
 - Pumps, Valves, Rail, Equip. Mfg.
- Review analyst reports





Market Segments – Annual Production

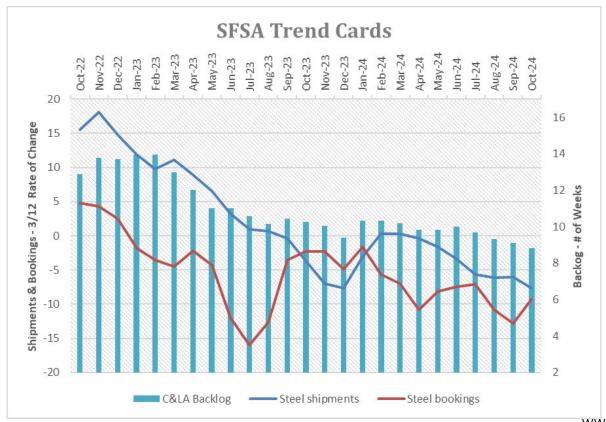
Market	Industry	% of total market prod.	SFSA Members	% of Industry Production
Railroad	161,200	22%	26,300	16%
Mining	177,300	24%	122,100	69%
Valve and Pump	59,800	8%	21,600	36%
Oil & Gas	19,300	3%	14,500	75%
Construction	73,400	10%	11,400	16%
Trucks	17,000	2%	500	3%
Military	18,200	2%	12,500	69%
Industrial Equip.	84,200	11%	30,400	36%
Industrial Furn.	25,450	3%	14,700	58%
Other Industrial	112,800	15%	41,100	36%
Total	748,650		295,100	39%



SFSA Trends Report

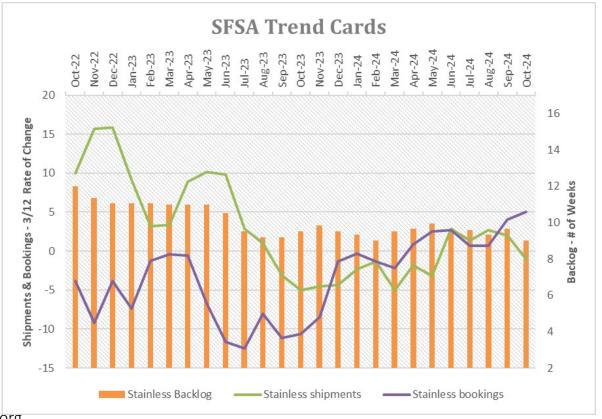
Monthly Business Trends Survey

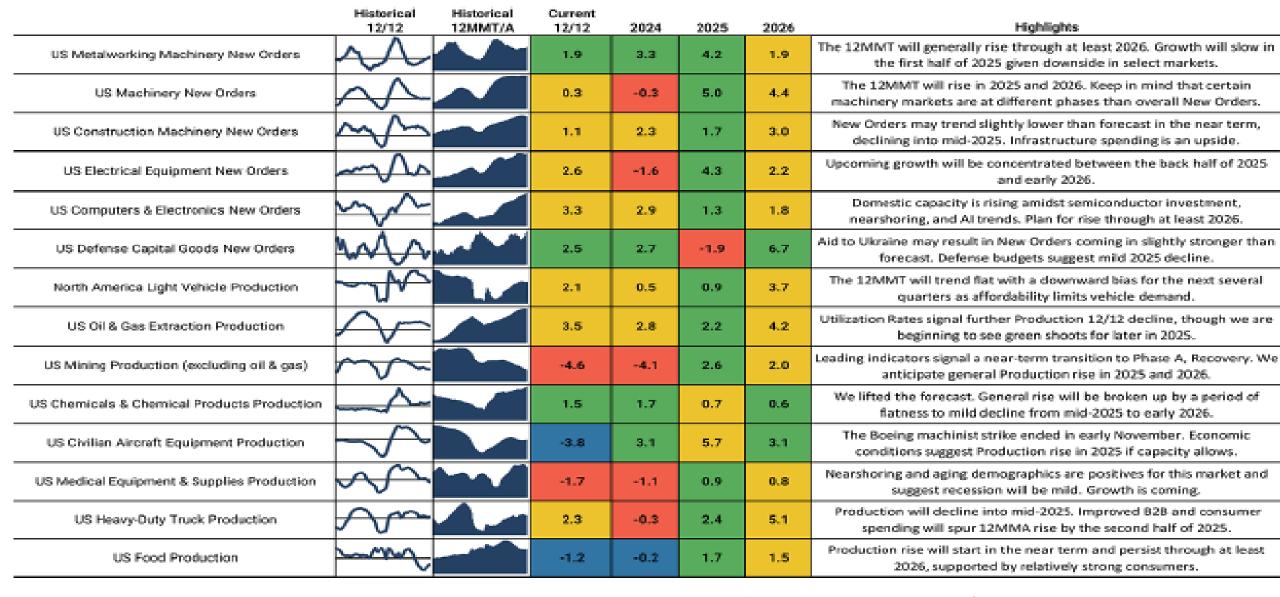
- YoY comparison of C&LA and stainless shipments and bookings
- YoY comparison of C&LA and stainless backlog
- Business bookings 3-month outlook
- Workforce 3-month outlook



October Trends

- Stainless bookings trending up while shipments below year ago levels
- C&LA bookings and shipments below year ago levels
- YoY Backlogs C&LA: -14% Stainless: -5%
- Workforce 83% anticipate stable, 8% to expand





Note: Forecast color represents what Phase the market will be in at the end of the year.

PHASE KEY



Phase A: Recovery



Phase B: Accelerating Growth



Phase C: Slowing Growth

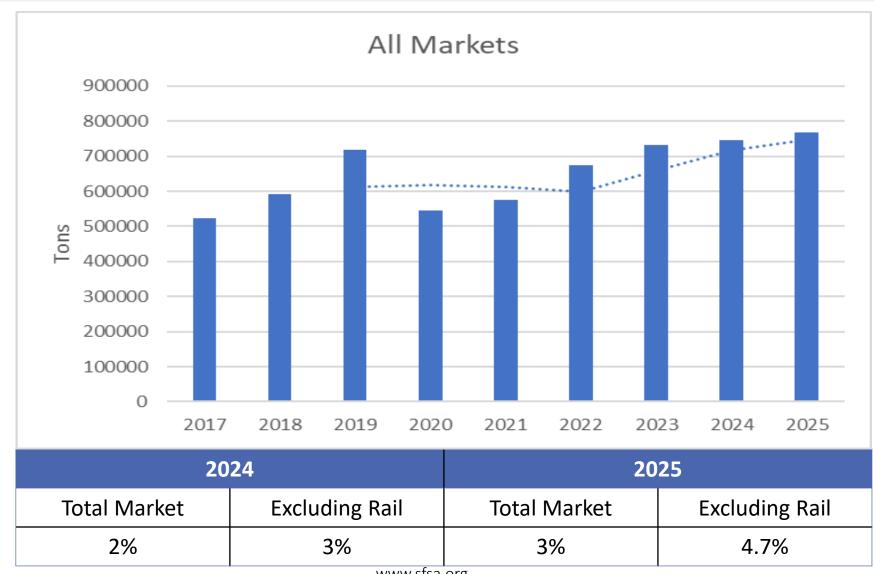
Source: ITR Trends Report



Phase D: Recession

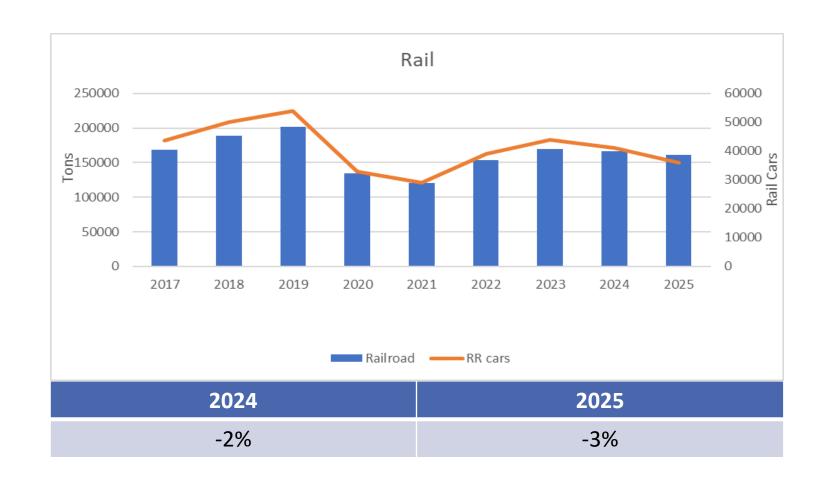


Total Steel Castings Market





Rail Forecast





Projected Car Deliveries

2024 - 41,000

2025 - 36,000

2026 - 39,000

- Transit up YoY 5%
- Decline in railcar deliveries



% change from prior year

Railroad	2022	2023	2024	2025
Railroads (sales)	14.4%	-1.6%	0.6%	4.3%
Equipment (sales)	50.4%	32.4%	1.8%	0%
SFSA Forecast (tonnage)	27%	11%	-2%	-3%

Note: Customer market data is percentage change in sales, SFSA forecast is percentage change in tonnage.



Mining Forecast





Equipment

- 2024 Projection down -4%
- 2025 Forecast up 4%

Consumables

- 2024 Projection flat 0%
- 2025 Forecast up 9%
- Growing ESG Initiatives
- Geopolitical Factors

ITR – US Mining Production (excl. O&G) - '24: -4.1%, '25: 2.6%



% change from prior year

Mining	2022	2023	2024	2025
Mines (sales)	-7.5%	-3.7%	0.3%	1%
Equipment (sales)	25%	12.8%	-2.9%	5%
SFSA Consumables (tonnage)	26%	15%	0%	9%
SFSA Equipment (tonnage)	20%	7%	-4%	4%



Construction Forecast





ITR – US Construction machinery new orders - '24: 2.3%, '25: 1.7%

- Annual U.S. Construction Machinery
 New Orders hit record high in 2024
- Anticipated slowing growth into 2025

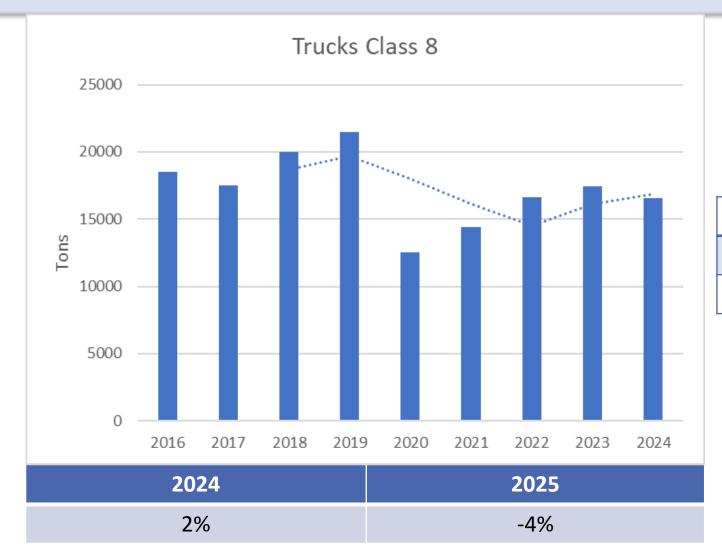


% change from prior year

Construction	2022	2023	2024	2025
Equipment (sales)	19.4%	14.4%	-3.2%	3.5%
SFSA Forecast (tonnage)	5%	2%	13%	5%



Truck Forecast





Class 8 Truck Shipments

	2023	2024f	2025f
Class 8	330,000	308,200	280,000
% Change	4.2%	-6.6%	-9.1%

Source: FTR

- '27 EPA emissions restrictions pre-buy
- 2025 market to soften
 - Low freight rates
 - Equipment surplus

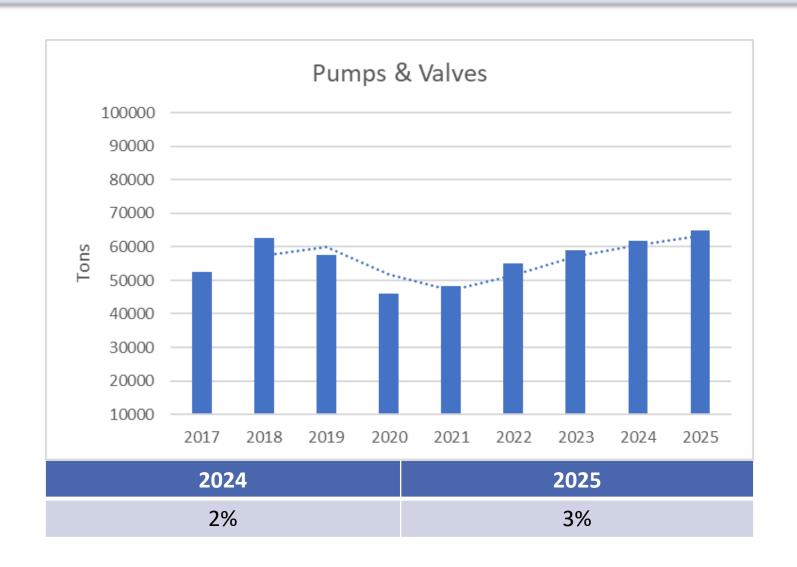


% change from prior year

Trucks	2022	2023	2024	2025
Manufacturers (sales)	27.2%	16.6%	-3.2%	0.7%
SFSA Forecast (tonnage)	15%	5%	2%	-4%



Pump and Valve Forecast





Projected 2024 vs. 2023 Tonnage

- Pumps 2%
- Valves 3%

2025 Forecast

- Pumps 3%
- Valves 3%
- Customer Forecast
- Impact of potential tariffs on reshoring

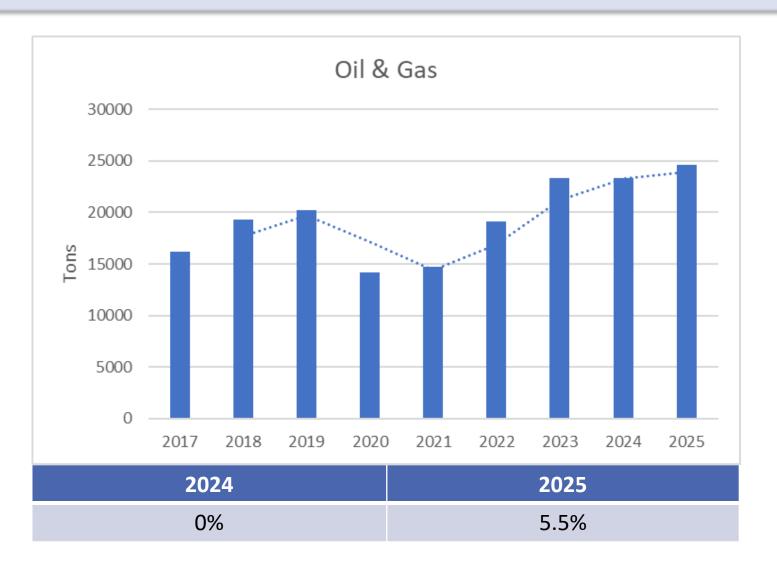


% change from prior year

Pumps and Valves	2022	2023	2024	2025
Manufacturers (sales)	10.5%	6.6%	6.2%	7.1%
SFSA Forecast (tonnage)	13%	8%	-2%	3%



Oil Field Forecast





- Investments in equipment
- Current wells more productive
- Optimism with new administration
- ITR O&G Production '24: 2.8%, '25: 2.2%



% change from prior year

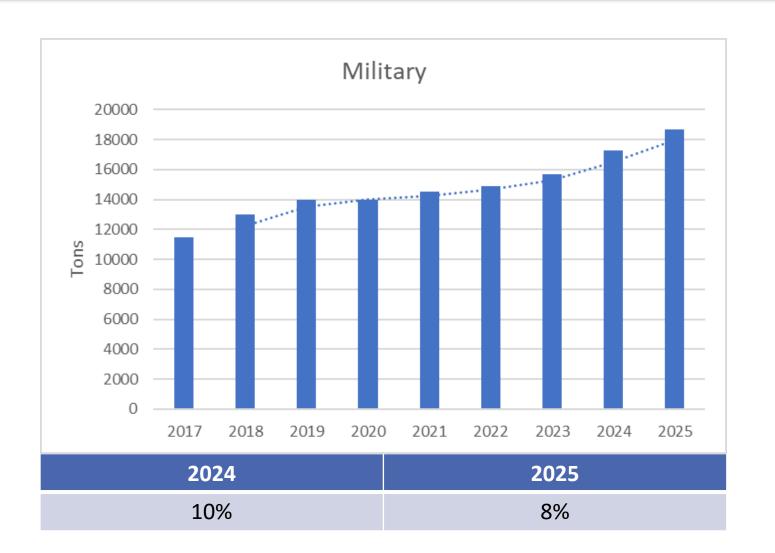
Oil Field	2022	2023	2024	2025
Manufacturers (sales)	25.2%	13%	7.6%	3.7%
SFSA Forecast (tonnage)	30%	22%	0%	5.5%



Military Forecast







- ITR US Defense Capital Goods New Orders – '24: 2.7%, '25: -1.9%
- Mild decline in new orders for 2025

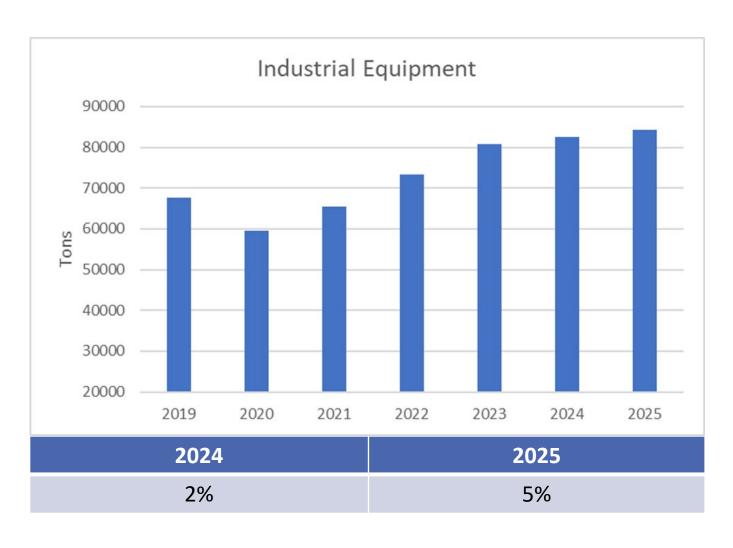


% change from prior year

Military	2022	2023	2024	2025
Ground Systems (sales)	4.1%	8.7%	11.5%	5.7%
Naval Systems (sales)	7.3%	7.1%	4.8%	3.8%
SFSA Forecast (tonnage)	3%	5%	10%	8%



Industrial Equipment Forecast



Industrial equipment parts - pulp & paper, food, shotblast - plates, wheels, sprockets, flanges

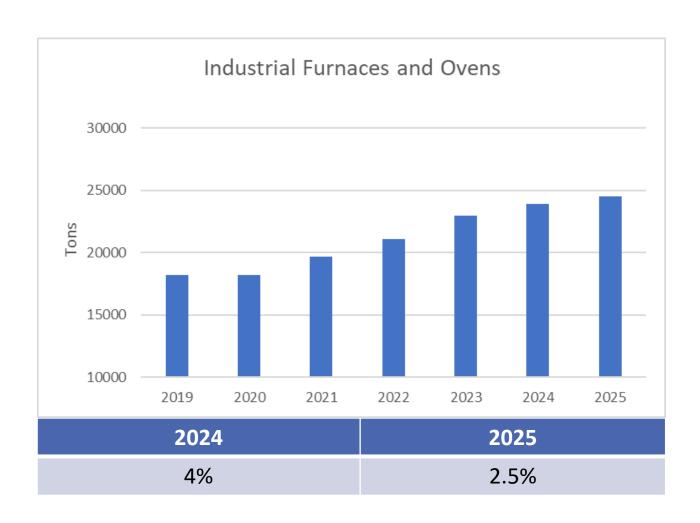
ITR Forecast – US Machinery New Orders

'24: 3.3%'25: 4.2%

- Interest rates
- Slowing economy



A Industrial Furnace and Oven Mfg. Forecast

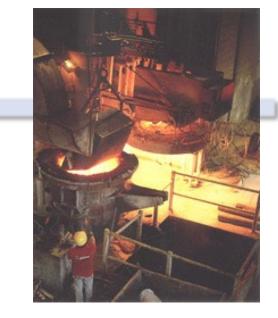


Industrial Process Ovens, Induction Heating, and Kilns - furnace, heat treat, steel mill components - rollers, links, baskets

- Customer forecast
- Market conditions



Other Markets Forecast





Markets included:

- Tooling
- Agriculture
- Cement
- Engine/Turbine
- Municipal
- Power Generation