

Economic activity in the manufacturing sector contracted in December for the 10th consecutive month, following a two-month expansion preceded by 26 straight months of contraction, say the nation's supply executives in the latest ISM® Manufacturing PMI® Report.

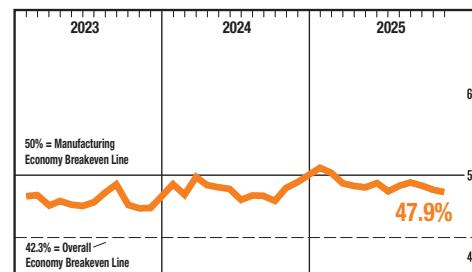
The Manufacturing PMI® registered 47.9 percent. The New Orders Index contracted for a fourth straight month in December following one month of growth; the figure of 47.7 percent is 0.3 percentage point higher than the 47.4 percent recorded in November. The December reading of the Production Index (51 percent) is 0.4 percentage point lower than November's figure of 51.4 percent. The Prices Index remained in expansion (or 'increasing' territory), registering 58.5 percent, the same as November's reading. The Backlog of Orders Index registered 45.8 percent, up 1.8 percentage points compared to the 44 percent recorded in November. The Employment Index registered 44.9 percent, up 0.9 percentage point from November's figure of 44 percent. The Supplier Deliveries Index indicated slower delivery performance after one month in "faster" territory. The reading of 50.8 percent is up 1.5 percentage points from the 49.3 percent recorded in November. The Inventories Index registered 45.2 percent, down 3.7 percentage points compared to November's reading of 48.9 percent.

The two manufacturing industries reporting growth in December are: Electrical Equipment, Appliances & Components; and Computer & Electronic Products. **ISM**

**#Miscellaneous Manufacturing** (products such as medical equipment and supplies, jewelry, sporting goods, toys and office supplies).

# MANUFACTURING PMI® at 47.9%

The U.S. manufacturing sector contracted in December for the 10th consecutive month after two months of expansion preceded by 26 months of contraction. The Manufacturing PMI® registered 47.9 percent in December, a 0.3-percentage point decrease compared to the 48.2 percent recorded in November. Of the five subindexes that directly factor into the Manufacturing PMI®, two (Production and Supplier Deliveries) are in expansion territory, one more than in November.



## Manufacturing at a Glance

INDEX	Dec Index	Nov Index	% Point Change	Direction	Rate of Change	Trend* (months)
Manufacturing PMI®	47.9	48.2	-0.3	Contracting	Faster	10
New Orders	47.7	47.4	+0.3	Contracting	Slower	4
Production	51.0	51.4	-0.4	Growing	Slower	2
Employment	44.9	44.0	+0.9	Contracting	Slower	11
Supplier Deliveries	50.8	49.3	+1.5	Slowing	From Faster	1
Inventories	45.2	48.9	-3.7	Contracting	Faster	8
Customers' Inventories	43.3	44.7	-1.4	Too Low	Faster	15
Prices	58.5	58.5	0.0	Increasing	Same	15
Backlog of Orders	45.8	44.0	+1.8	Contracting	Slower	39
New Export Orders	46.8	46.2	+0.6	Contracting	Slower	10
Imports	44.6	48.9	-4.3	Contracting	Faster	9
<b>Overall Economy</b>				<b>Growing</b>	<b>Slower</b>	<b>68</b>
<b>Manufacturing Sector</b>				<b>Contracting</b>	<b>Faster</b>	<b>10</b>

\*Number of months moving in current direction. ISM® Manufacturing PMI® Report data has been seasonally adjusted for the New Orders, Production, Employment and Inventories indexes.

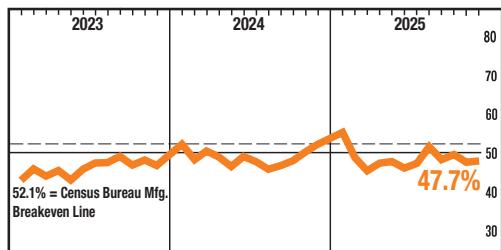


## Commodities Reported

**Commodities Up in Price:** Aluminum (25); Brass; Copper (6); Copper Based Products; Critical Minerals (2); Electrical Components (2); Memory; Metals; Natural Gas (2); Steel (2); Steel — Stainless; and Steel Products.

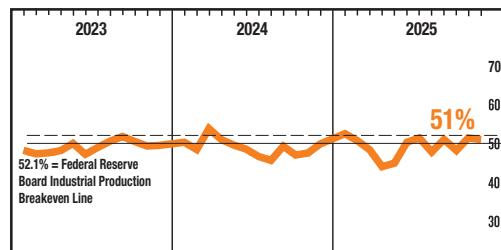
**Commodities Down in Price:** Cocoa Products; Fuel; Gasoline (2); Oil; and Polypropylene Resin (4).

**Commodities in Short Supply:** Electrical Components (6); Electronic Components (10); Labor (4); and Rare Earth Components (2).



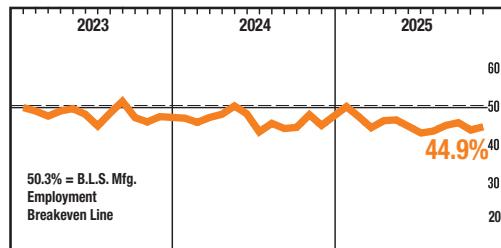
### New Orders

ISM's New Orders Index registered 47.7 percent. The two manufacturing industries that reported growth in new orders in December are: Computer & Electronic Products; and Electrical Equipment, Appliances & Components.



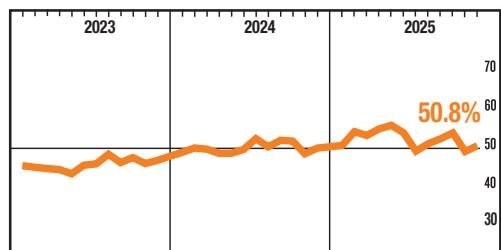
### Production

The Production Index registered 51 percent. The four industries reporting growth in production during the month of December are: Plastics & Rubber Products; Computer & Electronic Products; Electrical Equipment, Appliances & Components; and Transportation Equipment.



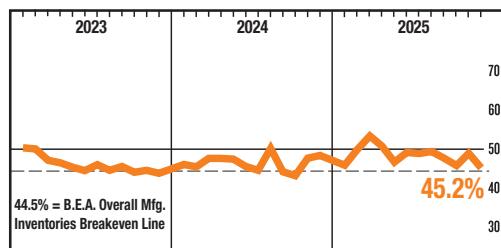
### Employment

ISM's Employment Index registered 44.9 percent. Of the 18 manufacturing industries, the three reporting employment growth in December are: Miscellaneous Manufacturing<sup>#</sup>; Transportation Equipment; and Machinery.



### Supplier Deliveries

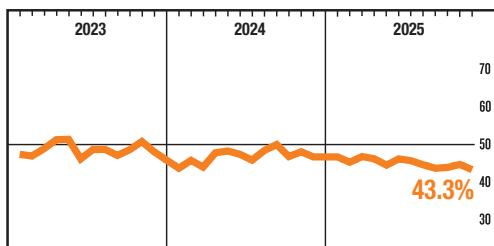
The Supplier Deliveries Index registered 50.8 percent. The eight manufacturing industries reporting slower supplier deliveries in December, in order, are: Textile Mills; Nonmetallic Mineral Products; Fabricated Metal Products; Primary Metals; Electrical Equipment, Appliances & Components; Computer & Electronic Products; Machinery; and Food, Beverage & Tobacco Products.



### Inventories

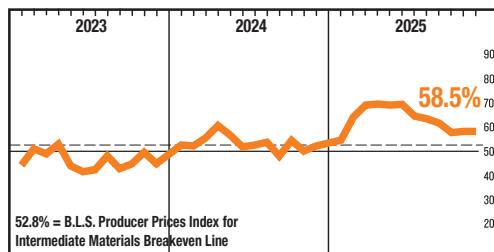
The Inventories Index registered 45.2 percent in December. Of 18 manufacturing industries, the two reporting higher inventories in December are: Nonmetallic Mineral Products; and Electrical Equipment, Appliances & Components.

<sup>#</sup>Miscellaneous Manufacturing (products such as medical equipment and supplies, jewelry, sporting goods, toys and office supplies).



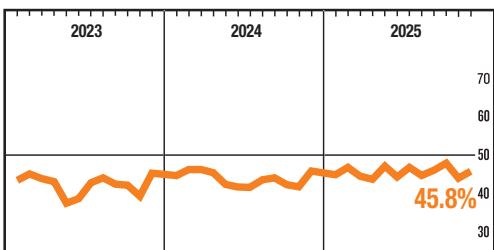
### Customers' Inventories

ISM's Customers' Inventories Index remained in "too low" territory in December, with a reading of 43.3 percent. No industries reported customers' inventories as too high in December. The 11 industries reporting customers' inventories as too low in December, in order, are: Wood Products; Plastics & Rubber Products; Paper Products; Fabricated Metal Products; Nonmetallic Mineral Products; Primary Metals; Chemical Products; Computer & Electronic Products; Food, Beverage & Tobacco Products; Transportation Equipment; and Electrical Equipment, Appliances & Components.



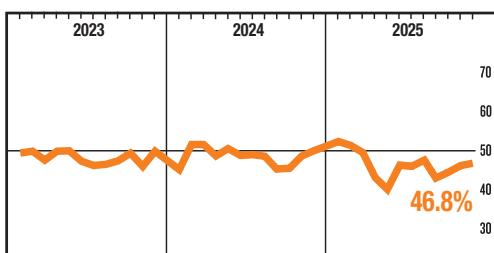
### Prices

The ISM Prices Index registered 58.5 percent. In December, the 11 industries that reported paying increased prices for raw materials, in order, are: Fabricated Metal Products; Electrical Equipment, Appliances & Components; Furniture & Related Products; Machinery; Primary Metals; Transportation Equipment; Miscellaneous Manufacturing‡; Wood Products; Nonmetallic Mineral Products; Computer & Electronic Products; and Food, Beverage & Tobacco Products.



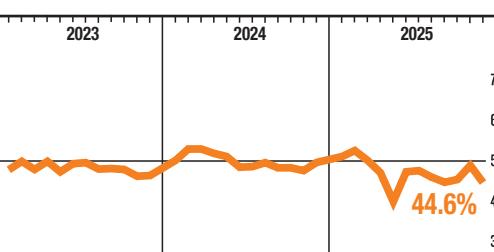
### Backlog of Orders

ISM's Backlog of Orders Index registered 45.8 percent. The only industry reporting higher backlogs of orders is Computer & Electronic Products. The 11 industries reporting lower backlogs in December — in the following order — are: Plastics & Rubber Products; Primary Metals; Textile Mills; Wood Products; Machinery; Paper Products; Transportation Equipment; Miscellaneous Manufacturing‡; Fabricated Metal Products; Chemical Products; and Electrical Equipment, Appliances & Components.



### New Export Orders

ISM's New Export Orders Index registered 46.8 percent. Of the 18 manufacturing industries, the five that reported growth in new export orders in December are: Wood Products; Primary Metals; Plastics & Rubber Products; Electrical Equipment, Appliances & Components; and Computer & Electronic Products.



### Imports

ISM's Imports Index registered 44.6 percent. Only one industry, Electrical Equipment, Appliances & Components, reported higher imports in December.

## About This Report

**DO NOT CONFUSE THIS NATIONAL REPORT** with the various regional purchasing reports released across the country. The national report's information reflects the entire U.S., while the regional reports contain primarily regional data from their local vicinities. Also, the information in the regional reports is not used in calculating the results of the national report.

The data presented herein is obtained from a survey of manufacturing and services supply executives based on information they have collected within their respective organizations. ISM® makes no representation, other than that stated within this release, regarding the individual company data collection procedures. The data should be compared to all other economic data sources when used in decision-making.

## Data and Method of Presentation

The **ISM® Manufacturing PMI® Report** is based on data compiled from purchasing and supply executives nationwide. The composition of the Manufacturing Business Survey Panel is stratified according to the North American Industry Classification System (NAICS) and each of the following NAICS-based industries' contribution to gross domestic product (GDP): Food, Beverage & Tobacco Products; Textile Mills; Apparel, Leather & Allied Products; Wood Products; Paper Products; Printing & Related Support Activities; Petroleum & Coal Products; Chemical Products; Plastics & Rubber Products; Nonmetallic Mineral Products; Primary Metals; Fabricated Metal Products; Machinery; Computer & Electronic Products; Electrical Equipment, Appliances & Components; Transportation Equipment; Furniture & Related Products; and Miscellaneous Manufacturing (products such as medical equipment and supplies, jewelry, sporting goods, toys and office supplies). The data are weighted based on each industry's contribution to GDP. According to U.S. Bureau of Economic Analysis (BEA) estimates (the average of the fourth quarter 2023 GDP estimate and the GDP estimates for first, second, and third quarter 2024, as released on December 19, 2024), the six largest manufacturing industries are: Chemical Products; Transportation Equipment; Computer & Electronic Products; Food, Beverage & Tobacco Products; Machinery; and Petroleum & Coal Products.

The **ISM® Services PMI® Report** (formerly the Non-Manufacturing ISM® Report On Business®) is based on data compiled from purchasing and supply executives nationwide. Membership of the Services Business Survey Panel (formerly Non-Manufacturing Business Survey Panel) is diversified by North American Industry Classification System (NAICS), based on each industry's contribution to gross domestic product (GDP). The Services Business Survey Panel responses are divided into the following NAICS code categories: Agriculture, Forestry, Fishing & Hunting; Mining; Utilities; Construction; Wholesale Trade; Retail Trade; Transportation & Warehousing; Information; Finance & Insurance; Real Estate, Rental & Leasing; Professional, Scientific & Technical Services; Management of Companies & Support Services; Educational Services; Health Care & Social Assistance; Arts, Entertainment & Recreation; Accommodation & Food Services; Public Administration; and Other Services (services such as Equipment & Machinery Repairing; Promoting or Administering Religious Activities; Grantmaking; Advocacy; and Providing Dry-Cleaning & Laundry Services, Personal Care Services, Death Care Services, Pet Care Services, Photofinishing Services, Temporary Parking Services, and Dating Services). The data are weighted based on each industry's contribution to GDP. According to U.S. Bureau of Economic Analysis (BEA) estimates (the average of the fourth quarter 2023 GDP estimate and the GDP estimates for first, second, and third quarter 2024, as released on December 19, 2024), the six largest services sectors are: Real Estate, Rental & Leasing; Public Administration; Professional, Scientific, & Technical Services; Health Care & Social Assistance; Information; and Finance & Insurance.

Survey responses reflect the change, if any, in the current month compared to the previous month. Responses are raw data and are never changed. The diffusion index includes the percent of positive responses plus one-half of those responding the same (considered positive).

The resulting single index number for those meeting the criteria for seasonal adjustments (for Manufacturing: New Orders, Production, Employment, and Inventories) (for Services: Business Activity, New Orders, Employment and Prices) is then seasonally adjusted to allow for the effects of repetitive intra-year variations resulting primarily from normal differences in weather conditions, various institutional arrangements, and differences attributable to non-moveable holidays. The remaining indexes have not indicated significant seasonality. All seasonal adjustment factors are subject annually to relatively minor changes when conditions warrant them.

The Manufacturing PMI® is a composite index based on the diffusion indexes of five of the indexes with equal weights: New Orders (seasonally adjusted), Production (seasonally adjusted), Employment (seasonally adjusted), Supplier Deliveries, and Inventories (seasonally adjusted). The Services PMI® is a composite index based on the diffusion indexes for four of the indicators with equal weights: Business Activity (seasonally adjusted), New Orders (seasonally adjusted), Employment (seasonally adjusted) and Supplier Deliveries.

Diffusion indexes have the properties of leading indicators and are convenient summary measures showing the prevailing direction of change and the scope of change.

A Manufacturing PMI® reading above 50 percent indicates that the manufacturing economy is generally expanding; below 50 percent indicates that it is generally declining. A Manufacturing PMI® above 42.3 percent, over a period of time, indicates that the overall economy, or gross

domestic product (GDP), is generally expanding; below 42.3 percent, it is generally declining. The distance from 50 percent or 42.3 percent is indicative of the extent of the expansion or decline. A Services PMI® reading above 50 percent indicates that the services economy is generally expanding; below 50 percent indicates that it is generally declining. A Services PMI® above 48.6 percent, over time, indicates that the overall economy, or gross domestic product (GDP), is generally expanding; below 48.6 percent, it is generally declining. The distance from 50 percent or 48.6 percent is indicative of the strength of the expansion or decline. With some of the indicators within the ISM® Manufacturing PMI® Report, ISM® has indicated the departure point between expansion and decline of comparable government series, as determined by regression analysis.

The ISM® PMI® Report surveys are sent out to Manufacturing and Services Business Survey Panel respondents the first part of each month. Respondents are asked to report on information for the current month for U.S. operations only. ISM® receives survey responses throughout most of any given month, with the majority of respondents generally waiting until late in the month to submit responses to give the most accurate picture of current business activity.

The industries reporting growth, as indicated in the monthly reports, are listed in the order of most growth to least growth. For the industries reporting contraction or decreases, those are listed in the order of the highest level of contraction/decrease to the least level of contraction/decrease.

## ISM PMI® Content

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Institute for Supply Management® (ISM®) is the first and leading not-for-profit professional supply management organization worldwide. Its community of more than 50,000 in more than 100 countries around the world manage about US\$1 trillion in corporate and government supply chain procurement annually. Founded in 1915 by practitioners, ISM is committed to advancing the strategy and practice of integrated, end-to-end supply chain management through leading edge data-driven resources, community, and education to empower individuals, create organizational value and to drive competitive advantage. ISM's vision is to foster a prosperous, sustainable world. ISM empowers and leads the profession through the ISM® PMI® Reports (formerly *Report On Business®*), its highly-regarded certification and training programs, corporate services, events and assessments. The ISM® PMI® Reports – Manufacturing and Services – are two of the most reliable economic indicators available, providing guidance to supply management professionals, economists, analysts, and government and business leaders. For more information, please visit: [www.ismworld.org](http://www.ismworld.org).