

Manufacturing in Australia

Performance benchmark report 2024

Ai Group Research & Economics April 2024

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Manufacturing in Australia

Key industry trends

- Manufacturing performance has strongly rebounded during and following the pandemic – with material increases in value-add, employment, exports, financial performance and capex.
- Australian manufacturing is **consolidating into more competitive subindustries**. Food & beverages and metals production have grown, while petrochemicals, machinery and other manufacturing have declined.
- Manufacturing has **faced tough cost pressures** during the recent period of inflation but has also enjoyed buoyant sales price growth. Manufacturer margins have improved since the pandemic.
- Labour supply is the most acute pressure on Australian manufacturing today. Job vacancies are at record rates, job turnover is growing, and wages growth is at a 16-year high.
- Manufacturing has been very successful in **reducing its gender pay gap**, which has fallen from 16.8% to 11.2% in a decade. However, workforce gender composition is proving slow to change.

Key industry numbers for 2023

In 2023, Australian manufacturing saw a:

2.8% Real output growth

-1.5%

Employment growth

2.8% Gross operating profits growth



Industrial performance indicators



Manufacturing value-add: Strong growth in output post-pandemic

- The manufacturing industry contributed \$30.8 billion of value-add to the Australian economy in 2023.
- Manufacturing has recovered strongly in the years since the pandemic.
- The industry posted a 2.8% real growth rate in 2023, and output is currently higher than at any point in the last decade.
- Post-pandemic growth has been supported by strong national economic growth, as well as supply chain disruptions that have increased demand for locally manufactured goods.
- However, the manufacturing share of GDP has continued to decline from 6.8% to 5.0% over the last decade.

Australian manufacturing value-added

Manufacturing output recovers post-pandemic but falls as share of GDP





Source: ABS Australian National Accounts, Ai Group Research & Economics

Value-add by sub-industry: Consolidation into value-adding of primary products

- The composition of Australian manufacturing has shifted over the last decade toward the value-adding of primary products.
- In real terms, over the last decade petrochemicals output has declined 13%, machinery & equipment 5%, and other manufacturing 8%.
- However, this has been compensated by significant growth in the manufacture of food products and metal products.
- This shift towards food and metals reflects a consolidation towards subindustries in which Australia has comparative advantage to value-add to primary products.

Manufacturing value-add by subindustry

Shifting from petrochemicals and machinery to foods and metals

Source: ABS Australian National Accounts • Ai Group Research & Economics

Manufacturing prices: Very high input price inflation, mostly passed through

- During the recent period of inflation, Australian manufacturing prices have risen rapidly.
- Since 2020, manufacturing input prices have risen by 22.7%, and output prices by 24.1%.
- Increases in manufacturing prices have far outpaced other producer prices, which only grew by 13.8% since 2020.
- After two years of extraordinary growth, manufacturing input prices began to decline in 2023 as global supply chain pressures eased.
- Output prices have kept pace and during 2023 outgrew – input prices. Manufacturers have in aggregate been able to pass price rises through.

Select Australian industrial price indicators

Trade in manufactures: Significant growth during and after pandemic

- Australia's trade in manufactured goods both imports and exports – grew significantly during and after the pandemic.
- Supply-side constraints for industrial goods during the pandemic drove both imports and exports of manufactures higher.
- The value of manufactured imports rose ~60% between 2020 and 2022. Manufacturing exports roughly doubled, the fastest growth on record.
- This closed Australia's trade deficit in manufactures, which returned to balance in mid-2022.
- In 2023, however, while manufactured imports remained high exports fell by around a fifth. This saw the Australia's manufacturing trade deficit reopen.

Australian trade in manufactured goods

Trade deficit narrowed post pandemic, but exports have fallen in 2023

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Source: ABS International Trade in Goods

Financial performance: Manufacturer margins strongly improve post-pandemic

- Manufacturing margins have been improving over the last decade in Australia.
- Margins declined significantly in the five years following the GFC, associated with the exit of the auto industry.
- They recovered from 2015 to return to near the all-industry level, reflecting the consolidation into more competitive manufacturing subindustries.
- Since the pandemic manufacturing margins have grown strongly (from ~9% to ~11%), and exceed the all-industry rate for the first time since 2007
- Supply chain disruptions and shortages have supported recent margin improvement for manufacturers

Manufacturing margins in Australia

Strong margin recovery since the pandemic, exceeds all-industry again

Source: ABS Business Indicators, Ai Group Research & Economics "Operating margin" is estimated as operating profit before tax as share of sales income.

Capital expenditure (Capex): Strong capex growth, outperforms all-industry

- The Australian manufacturing sector undertook \$3,382 million of capex in 2022-23
- Manufacturing capex has grown rapidly since the start of the pandemic.
- Capex levels in 2023 were 30% higher than in 2018-19.
- Manufacturing has outperformed the national average, with all industries (ex-mining) capex growth of 4% during the same period.
- High manufacturing capex reflects new investment driven by strong Australian industrial growth, alongside opportunities created by supply chain disruptions.

Capital expenditure in Australian manufacturing

Manufacturing outperforms all-industry capex since pandemic

Source: ABS Private New Capital Expenditure and Expected Expenditure, Australia, Table 5, Ai Group Research & Ecor

State manufacturing performance: A shift from traditional to emerging states

- Australian manufacturing has shifted away from traditional towards emerging states
- Over the last two decades, real manufacturing value-add has grown in QLD (16%) and WA (60%).
- This trend reflects growing demand in these states' industrial ecosystems, driven by the resource sector and population growth.
- However, manufacturing value-add has declined in NSW and VIC by ~15%, and in SA by ~40%.
- SA's manufacturing decline coincided with the exit of the auto industry following the GFC.

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Source: ABS State Accounts, Ai Group Research & Economics

Employment and workforce indicators

Manufacturing jobs: Post-COVID growth partially recovers a post-GFC decline

- There were 904,00 manufacturing jobs in Australia in the December quarter of 2023.
- There has been a 5% increase in manufacturing jobs since the pandemic, reflecting recent growth in the industry.
- However, post-pandemic growth only partially recovers a 15% decline in jobs which occurred in the years following the GFC.
- The manufacturing share of total Australian jobs declined from around 10% two decades ago to 6% by 2018.
- The share of Australian jobs in manufacturing has been broadly stable at 6% since then.

Australian manufacturing employment

Post-COVID employment boost partially reverses post-GFC decline

Source: ABS Labour Accounts, Table 1 & 4, Ai Group Research & Economics

Employment by subindustry: Consolidation into the core sub-industries

- The manufacturing industry employed 910,600 people in February 2024, approximately the same level as a decade ago.
- However, the Australian manufacturing workforce has consolidated into core subindustries.
- The workforce in the food, metals and machinery manufacturing subindustries is around 10-15% higher than a decade earlier.
- But the smaller branches of manufacturing including TCFs, wood and timber products, and other consumer durables – have recorded a workforce decline of around 20%.
- This workforce consolidation reflects the broader Australian trend towards growth in higher value-add manufacturing subsectors.

Manufacturing employment by subindustry

Workforce consolidates into core manufacturing subindustries

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Source: ABS LFS Detailed (Table 6) • Ai Group Research & Economics

Job vacancies: Vacancies are easing, but remain double their long-run rates

- There were 23,400 job vacancies in Australian manufacturing in the December quarter of 2023.
- The tight labour market following the pandemic saw job vacancies in manufacturing dramatically increase.
- Vacancies peaked in the March quarter of 2022, and during 2023 have declined somewhat.
- The manufacturing vacancy rate currently sits at 2.4%. This is slightly lower than the national (2.7%) vacancy rate.
- However, manufacturing vacancies remain wellelevated over their long-run rate of 1.0-1.5%.
- 23.4% of manufacturing businesses reported active job vacancies in December 2023.

Australian manufacturing job vacancies

Despite easing in 2023 vacancies remain at double normal levels

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Source: ABS Labour Account, Table 4

Manufacturing wages: High growth similar to other industries

- Manufacturing wages increased at an annual rate of 4.2% in the December quarter of 2023.
- This is the fastest rate of growth for wages since 2007.
- Australian wages growth has increased dramatically in the tight post-pandemic labour market.
- Manufacturing wages are growing at a similar rate to those in all private sector industries, reflecting the economy-wide nature of current wage rises.

Job turnover: Increased post-pandemic but manufacturing lower than its peers

- 8.0% of the manufacturing workforce changed their jobs in the year to February 2023.
- This is down from 9.0% a year earlier, but above the long-run manufacturing turnover rate of ~7.5%.
- Job turnover has increased in Australia in the tight post-pandemic labour market.
- Manufacturing job turnover is lower than for all industries (9.5%) as well as peer industries such as construction (10.5%) and transport (10.2%)
- Lower job turnover enables manufacturers to retain business-specific skills, and reflects the closer nature of employment relationships within the industry.

Job turnover rates in select industries

Lower manufacturing job turnover than peer industrials

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Source: ABS Job Mobility • Ai Group Research & Economics

Gender composition of workforce: Limited change over the last decade

- The gender composition of the Australian manufacturing workforce has shifted slightly in the last decade.
- In the 10 years to November 2023, the female share of the manufacturing workforce rose from 26.4% to 28.9%.
- Full-time male employment remains the industry norm, accounting for 63.7% of the current workforce.
- The female workforce has a greater share of part-time employment, with one-in-three females working part-time.
- Limited change in gender patterns reflects a mix of structural and cultural factors affecting manufacturing employment.

Gender composition of manufacturing workforce

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ABS LFS Detailed (Table 6), Ai Group Research & Economics

Gender pay gap: Strong improvement in manufacturing over last decade

- The gender pay gap the difference between male and female earnings has greatly improved in the manufacturing sector.
- In the decade to 2023, the manufacturing gender pay gap has fallen from 16.8% to 11.2%.
- Manufacturing has outperformed other industries in closing the gender pay gap.
- It has moved from being around the national average ten years ago to 1.8 points below today.
- Manufacturing now has a much lower gender pay gap than other traditionally maledominated industrial sectors, such as mining and construction.

Gender pay gap in manufacturing and related industries Manufacturing gender pay gap falls from 16.8% to 11.3% in a decade

Source: ABS Average Weekly Earnings • Ai Group Research & Economics Measures the gender pay gap in terms of average weekly ordinary full-time earnings

Key manufacturing data

Key manufacturing statistics

Total Manufacturing	2023
GDP	\$30,781 million (5.0% of total)
Number of employees	933,500 (6.9% of total)
Number of employing businesses	49,058 (4.1% of total)
Export earnings	\$10,497 million (23.7% of total)
Manufacturing profits	\$11,531 million (8.2% of total*)
Manufacturing revenue	\$7,633 million (17.8% of total*)
Manufacturing wages bill	\$15,686 million (8.7% of total*)
Manufacturing investment	\$3,914 million (8.6% of total)
BERD (2021-22)	\$5,203 million (27.1% of total)

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ABS, National Accounts, June 2023, JSA Labour Market Insights, ABS Business indicators, June 2023 • ABS Australian Industry, Research and Experimental Development, Businesses, 2021-22, ABS Private New Capital Expenditure and Expected Expenditure, Jun 2023, ABS International Trade in Goods and Services, Sep 2023 Manufacturing employment data, Feb 2024

Employment ('000)	Share (%)
933.50	100.00
245.40	26.30
77.60	8.30
122.30	13.10
148.30	15.90
90.20	9.70
170.00	18.20
78.40	8.40
1.40	0.10
	Employment ('000) 933.50 245.40 77.60 122.30 148.30 90.20 170.00 170.00 178.40 1.40

Source: ABS, Labour Force Detailed Quarterly, Feb 2024

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