

Monthly PMI Bulletin

Global growth accelerates in March, price pressures cool

Monthly summary

Global business activity growth accelerated at the end of the first quarter of 2023, allaying concerns of imminent recession in the global economy. A common thread running through the majority of the national PMI surveys was the extent to which growth was driven by the service sector. By contrast, manufacturing output barely rose for a second month running.

At 53.4, the [J.P.Morgan Global PMI Output Index](#) – produced by S&P Global – rose from 52.1 to signal two months of accelerating economic growth following a six-month contractionary period. The latest reading is broadly indicative of worldwide GDP rising at a quarterly annualized rate of 3.0%.

India reported the fastest expansion, while Spain and Italy also posted above-average growth. Although below-average growth was recorded in Japan, France, Germany and the US, in all cases the rate of expansion accelerated due to reviving service sector activity. Measured overall, services sector growth accelerated globally to the fastest since December 2021.

Manufacturing output, on the other hand, barely rose. And survey evidence points to a rise in production that has been driven by improving supply chains and backlogs of work rather than new factory orders, which continued to fall.

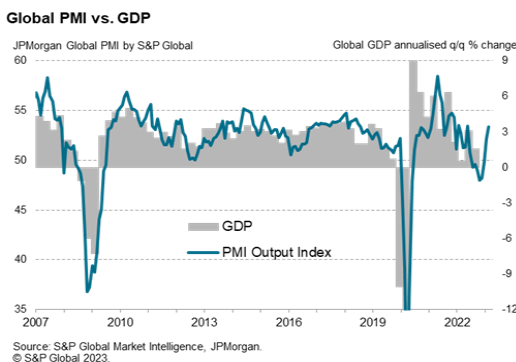
Digging deeper into the services data, growth in March has been in part linked to rising travel and tourism business, as well as reviving financial services activity. This raises questions about the sustainability of these key area of support to global growth, given the further tightening of monetary policy, an ongoing cost of living squeeze and banking sector stress.

Global price pressures meanwhile moderated, as input costs rose at the slowest rate for 28 months. While manufacturing input cost inflation has eased to below the long-run trend, service sector input cost inflation remains far above the long-run average.

March also saw a marked increase in the number of companies reporting that employment is being reduced due to pressure to cut costs. The incidence of cost-cutting fuelled job losses has in fact risen to its highest in two years.

In short, our key takeaways from the March PMI are:

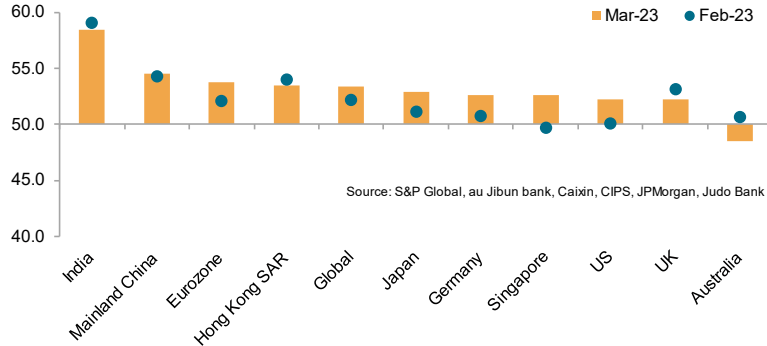
- 1) Global data help to further allay worries of imminent recessions. But the global economic recovery is worryingly dependent on service sector activity.
- 2) Supply chains have improved, meaning inflation pressures have cooled for goods, there remains some concern over elevated inflation in the service sector linked to rising wages.
- 3) Rising cost pressures and economic uncertainty are starting to take toll on hiring.



Regional comparisons

S&P Global Composite PMI regional comparisons

S&P Global PMI (Purchasing Managers' Index) Output Index
Diffusion index (50 = no change on prior month)



Source: S&P Global, au Jibun bank, Caixin, CIPS, JPMorgan, Judo Bank

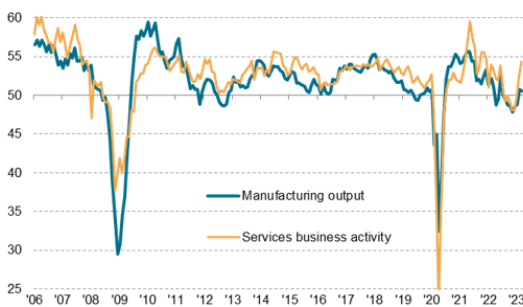
Source: S&P Global PMI surveys, au Jibun Bank, Caixin, CIPS, JPMorgan, Judo Bank
© S&P Global 2023.

The Good, the Bad, and the Ugly | Key PMI developments

The Good: Reduced recession risks

Global PMI output by sector

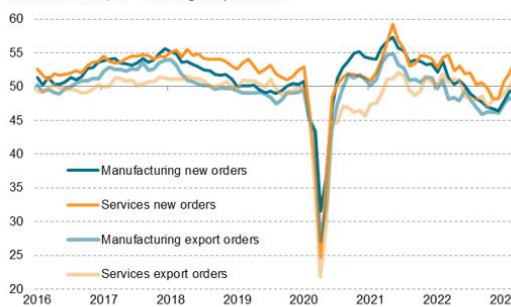
Global PMI Index, 50 = no change on prior month



Source: S&P Global Market Intelligence, JPMorgan.
© S&P Global 2023.

Global PMI new orders by sector

Global PMI Index, 50 = no change on prior month

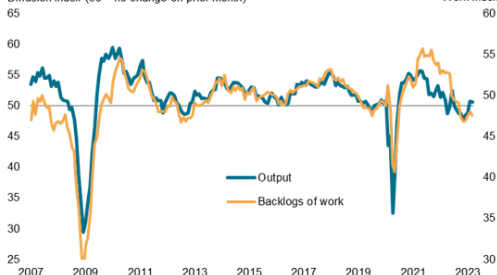


Source: S&P Global Market Intelligence, JPMorgan.
© S&P Global 2023.

- A fourth successive monthly rise in the global PMI's headline output index took the pace of growth to its highest for nine months in March. The latest reading is broadly indicative of worldwide GDP rising at a robust quarterly annualized rate of approximately 3.0%.
- Service sector backlogs rose in March, up for a second month after seven months of decline, growing at the steepest rate since last May. This build-up of uncompleted work suggests that the service sector will continue to expand output in April, providing a key pillar of growth in the month ahead.

Global manufacturing output and backlogs of work

S&P Global PMI Output Index
Diffusion index (50 = no change on prior month)



Source: S&P Global Market Intelligence, JPMorgan.
© S&P Global 2023.

Global goods exports

Global Manufacturing PMI, new export orders



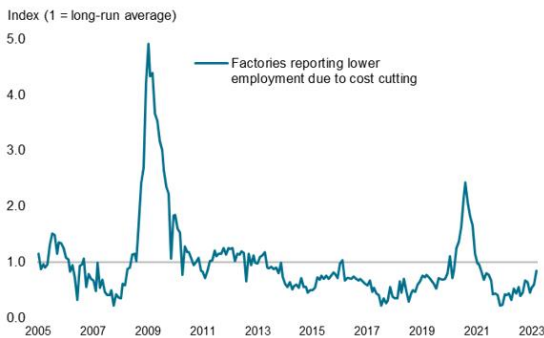
Sources: S&P Global, CPB World Trade Monitor.
© S&P Global 2023.

– **The Bad: Persistent manufacturing weaknesses**

- While manufacturing output was buoyed by improving supply, the lack of demand remained a major concern. Inflows of new orders also fell for a ninth successive month, representing a further deterioration in the demand environment facing factories. Global export orders likewise fell, down for a thirteenth straight month, the rate of decline gathering pace slightly to signal a worsening global trade picture.
- Fewer shortages have facilitated higher production and allowed firms to reduce their backlogs of work, which in many cases had accumulated during the pandemic. Demand, on the other hand, continues to deteriorate and act as a drag on production. The suggestion is, therefore, that unless new order inflows pick up in coming months, the production trend will likely weaken again once existing backlogs of work are depleted.

The Ugly: Labour market caution

Worldwide factory downsizing

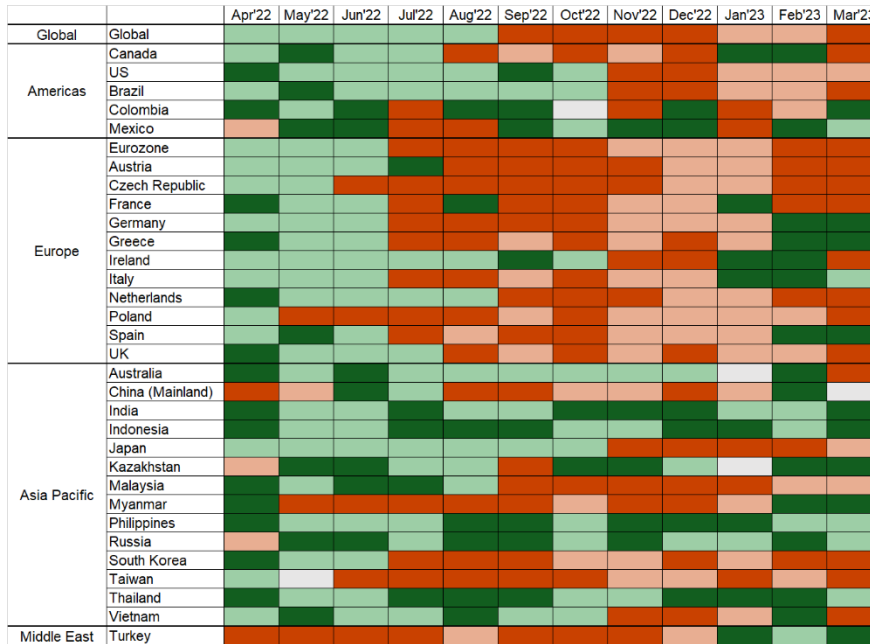


Source: S&P Global Market Intelligence, S&P Global PMI surveys © S&P Global 2023.

- Worldwide factory jobs growth ground almost to a halt in March, with the JPMorgan Global PMI's Employment Index barely above 50 and down from an eight-month high in February. The broadly flat employment picture is commensurate with a similar disappointing production trend in recent months, with both February and March having seen only marginal output gains linked in turn to a further decline in new order inflows.
- It is also evident that recent months have seen a marked increase in the number of companies reporting that employment is being reduced due to pressure to cut costs. The incidence of cost-cutting fuelled job losses has in fact risen close to its long-run average in March, up to its highest in two years.

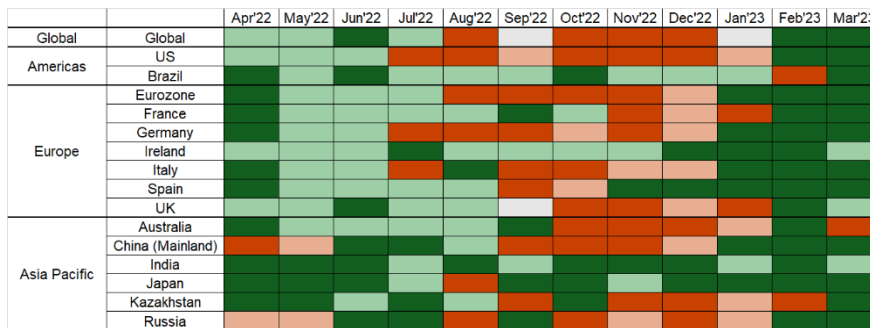
Global PMI heatmap

Manufacturing



Source: S&P Global in association with relevant sponsors.

Services



Source: S&P Global in association with relevant sponsors

Manufacturing indices

- Output*
- New orders*
- New export orders
- Backlogs of work
- Employment*
- Input prices
- Output prices
- Future expectations
- Quantity of purchases
- Suppliers' delivery times*
- Stocks of purchases*
- Stocks of finished goods

*PMI components

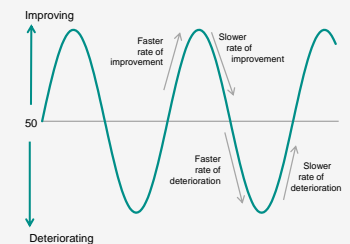
Services indices

- Business activity
- New business
- New export orders
- Outstanding business
- Employment
- Input costs
- Prices charged
- Future expectations

Read more about the headline PMI™ and its subindices [here](#).

Key:

| | |
|--------------------------------|--|
| Improving at a faster rate | |
| Improving at a slower rate | |
| At neutral 50.0 mark | |
| Deteriorating at a slower rate | |
| Deteriorating at a faster rate | |



To receive underlying PMI data, please contact: economics@ihsmarkit.com

Composite / Whole Economy

| | | Mar'22 | Apr'22 | May'22 | Jun'22 | Jul'22 | Aug'22 | Sep'22 | Oct'22 | Nov'22 | Dec'22 | Jan'23 | Feb'23 |
|--------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Global | Global | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| Americas | Brazil | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | US | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| Europe | Eurozone | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | France | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Germany | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Ireland | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Italy | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Spain | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | UK | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| Asia Pacific | Australia | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | China (Mainland) | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Hong Kong SAR | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | India | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Japan | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Khazakstan | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Russia | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Singapore | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| Middle East | Lebanon | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Qatar | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Saudi Arabia | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | UAE | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| Africa | Ghana | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Kenya | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Mozambique | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Nigeria | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | South Africa | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Uganda | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |
| | Zambia | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green | Green |

Source: S&P Global in association with relevant sponsors

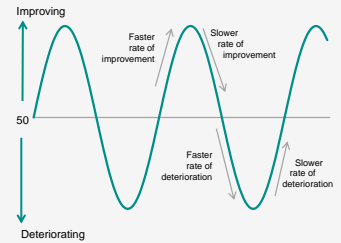
Composite indices comprise:

- Output/business activity
- New business
- New export orders
- Outstanding business
- Employment
- Input costs
- Output prices
- Future expectations

Read more about the headline PMI™ and its subindices [here](#).

Key:

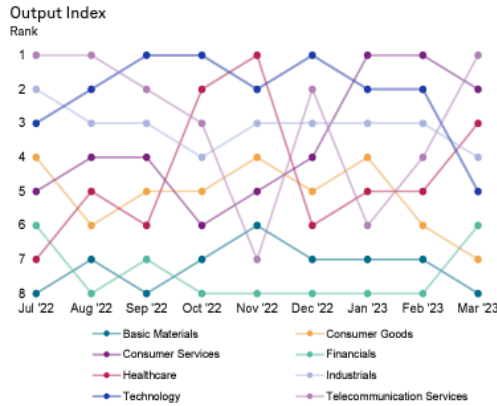
| | |
|--------------------------------|--------------|
| Improving at a faster rate | Dark Green |
| Improving at a slower rate | Light Green |
| At neutral 50.0 mark | White |
| Deteriorating at a slower rate | Light Orange |
| Deteriorating at a faster rate | Dark Orange |



To receive underlying PMI data, please contact: economics@ihsmarkit.com

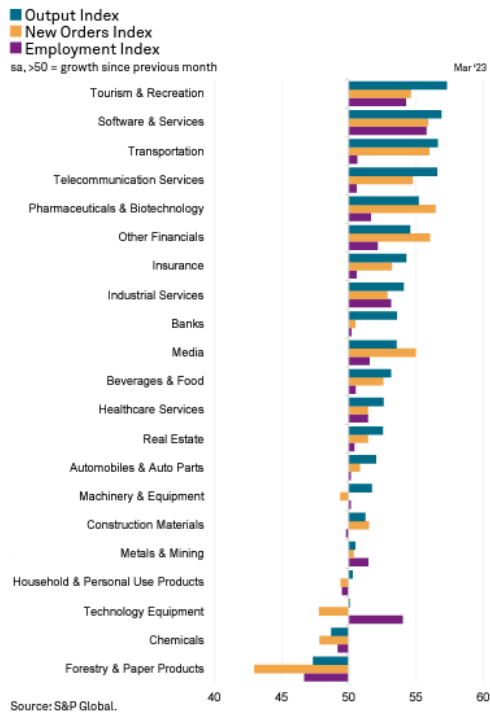
Global Sector PMI

The latest S&P Global Sector PMI™ data signalled that the Tourism & Recreation sector led a pick-up in global business activity at the end of the first quarter of the year. There were some notable signs of recovery in the Financials category, with Real Estate and Banks posting increases in activity for the first time in 12 and nine



months respectively.

At 19, the number of sectors seeing output increase in March was the highest for a year. Following closely behind Tourism & Recreation were Software & Services, Transportation and Telecommunications Services which all posted marked increases in activity. The only exceptions were Forestry & Paper Products and Chemicals as Basic Materials sectors remained under pressure.



For more global sector PMI details, please visit [here](#) or contact economics@ihsmarkit.com to receive underlying PMI data.

Sector data is also available for US, Europe and Asia. Read more about using PMI data in active investment strategies [here](#).

Recent PMI and economic analysis from S&P Global Market Intelligence

| | | | |
|---------------|--|---------|------------------|
| Global | Supply improvement boosts global factory output, but demand continues to fall | 5-April | Chris Williamson |
| | Global manufacturing input cost inflation sinks to 32-month low | 5-April | Chris Williamson |
| | Global manufacturing labour market cools amid shift to cost-cutting | 5-April | Chris Williamson |
| | Flash PMI data signal accelerating developed world economic growth in March | 28-Mar | Chris Williamson |
| EMEA | UK economic resilience in March signalled by flash PMI | 24-Mar | Chris Williamson |
| | UK wage growth cools amid uncertain economic outlook | 17-Mar | Chris Williamson |
| US | US flash PMI signals faster economic growth in March, but also warns of rising price pressures | 28-Mar | Chris Williamson |
| APAC | Singapore manufacturing output weakens in early 2023 | 31-Mar | Rajiv Biswas |
| | APAC region expected to be resilient to global headwinds in 2023 | 17-Mar | Rajiv Biswas |

For PMI use-case illustrations, visit our [use-case library](#).

Release calendar

| UTC | | Local | | Product |
|--------------|--------------|---------|------|----------------------------------|
| 11 Apr 14:00 | 11 Apr 10:00 | UTC-4 | EDT | US Investment Manager Index |
| 20 Apr 23:00 | 21 Apr 10:00 | UTC+11 | AEDT | Flash Australia PMI* |
| 21 Apr 00:30 | 21 Apr 09:30 | UTC+9 | JST | Flash Japan PMI* |
| 21 Apr 07:15 | 21 Apr 08:15 | UTC+1 | CET | Flash France PMI* |
| 21 Apr 07:30 | 21 Apr 08:30 | UTC+1 | CET | Flash Germany PMI* |
| 21 Apr 08:00 | 21 Apr 09:00 | UTC+1 | CET | Flash Eurozone PMI* |
| 21 Apr 08:30 | 21 Apr 08:30 | UTC | GMT | Flash UK PMI* |
| 21 Apr 13:45 | 21 Apr 09:45 | UTC-4 | EDT | Flash US PMI* |
| 26 Apr 08:00 | 26 Apr 10:00 | UTC+2 | CEST | Austria Manufacturing PMI |
| 02 May 00:30 | 02 May 08:30 | UTC+8 | CST | Taiwan Manufacturing PMI |
| 30 Apr 23:00 | 01 May 09:00 | UTC+10 | AEST | Australia Manufacturing PMI |
| 02 May 00:01 | 02 May 01:01 | UTC+1 | IST | Ireland Manufacturing PMI |
| 02 May 00:30 | 02 May 07:00 | UTC+6.5 | MMT | Myanmar Manufacturing PMI |
| 02 May 00:30 | 02 May 07:30 | UTC+7 | WIB | Indonesia Manufacturing PMI |
| 02 May 00:30 | 02 May 08:30 | UTC+8 | PHT | Philippines Manufacturing PMI |
| 02 May 00:30 | 02 May 08:30 | UTC+8 | MYT | Malaysia Manufacturing PMI |
| 04 May 00:30 | 04 May 07:30 | UTC+7 | ICT | Vietnam Manufacturing PMI |
| 01 May 00:30 | 01 May 09:30 | UTC+9 | JST | Japan Manufacturing PMI |
| 02 May 00:30 | 02 May 07:30 | UTC+7 | ICT | Thailand Manufacturing PMI |
| 04 May 00:30 | 04 May 07:30 | UTC+7 | ICT | ASEAN Manufacturing PMI |
| 02 May 00:30 | 02 May 09:30 | UTC+9 | KST | South Korea Manufacturing PMI |
| 30 Apr 01:45 | 30 Apr 09:45 | UTC+8 | CST | China General Manufacturing PMI |
| 01 May 05:00 | 01 May 10:30 | UTC+5.5 | IST | India Manufacturing PMI |
| 01 May 05:00 | 01 May 07:00 | UTC+2 | CEST | Netherlands Manufacturing PMI |
| 02 May 06:00 | 02 May 09:00 | UTC+3 | MSK | Russia Manufacturing PMI |
| 02 May 06:00 | 02 May 12:00 | UTC+6 | ALMT | Kazakhstan Manufacturing PMI |
| 02 May 07:00 | 02 May 10:00 | UTC+3 | TRT | Turkey Manufacturing PMI |
| 02 May 07:00 | 02 May 09:00 | UTC+2 | CEST | Poland Manufacturing PMI |
| 02 May 07:15 | 02 May 09:15 | UTC+2 | CEST | Spain Manufacturing PMI |
| 02 May 07:30 | 02 May 09:30 | UTC+2 | CEST | Czech Republic Manufacturing PMI |
| 02 May 07:45 | 02 May 09:45 | UTC+2 | CEST | Italy Manufacturing PMI |
| 02 May 07:50 | 02 May 09:50 | UTC+2 | CEST | France Manufacturing PMI |
| 02 May 07:55 | 02 May 09:55 | UTC+2 | CEST | Germany Manufacturing PMI |
| 02 May 08:00 | 02 May 11:00 | UTC+3 | EEST | Greece Manufacturing PMI |
| 02 May 08:00 | 02 May 10:00 | UTC+2 | CEST | Eurozone Manufacturing PMI |
| 02 May 08:30 | 02 May 09:30 | UTC+1 | BST | UK Manufacturing PMI |
| 02 May 08:45 | 02 May 09:45 | UTC+1 | WAT | Nigeria PMI |
| 02 May 13:00 | 02 May 10:00 | UTC-3 | BRT | Brazil Manufacturing PMI |
| 01 May 13:30 | 01 May 09:30 | UTC-4 | EDT | Canada Manufacturing PMI |
| 01 May 13:45 | 01 May 09:45 | UTC-4 | EDT | US Manufacturing PMI |
| 02 May 15:00 | 02 May 09:00 | UTC-6 | CST | Mexico Manufacturing PMI |
| 02 May 15:00 | 02 May 10:00 | UTC-5 | COT | Colombia Manufacturing PMI |
| 02 May 15:00 | 02 May 11:00 | UTC-4 | EDT | Global Manufacturing PMI |
| 03 May 04:15 | 03 May 07:15 | UTC+3 | AST | Saudi Arabia PMI |
| 03 May 04:15 | 03 May 06:15 | UTC+2 | EET | Egypt PMI |
| 03 May 09:00 | 03 May 12:00 | UTC+3 | AST | Qatar PMI |
| 02 May 23:00 | 03 May 09:00 | UTC+10 | AEST | Australia Services PMI* |
| 04 May 00:01 | 04 May 01:01 | UTC+1 | IST | Ireland Services PMI* |

| | | | | |
|--------------|--------------|---------|------|-------------------------------------|
| 04 May 00:30 | 04 May 08:30 | UTC+8 | SST | Singapore PMI |
| 08 May 00:30 | 08 May 09:30 | UTC+9 | JST | Japan Services PMI* |
| 03 May 04:15 | 03 May 08:15 | UTC+4 | GST | United Arab Emirates PMI |
| 03 May 05:00 | 03 May 10:30 | UTC+5.5 | IST | India Services PMI* |
| 04 May 06:00 | 04 May 12:00 | UTC+6 | ALMT | Kazakhstan Services PMI* |
| 04 May 06:00 | 04 May 09:00 | UTC+3 | MSK | Russia Services PMI* |
| 04 May 06:00 | 04 May 09:00 | UTC+3 | EAT | Uganda PMI |
| 04 May 06:00 | 04 May 08:00 | UTC+2 | CAT | Mozambique PMI |
| 04 May 07:15 | 04 May 09:15 | UTC+2 | SAST | South Africa PMI |
| 04 May 07:15 | 04 May 09:15 | UTC+2 | CEST | Spain Services PMI* |
| 04 May 07:30 | 04 May 10:30 | UTC+3 | EAT | Kenya PMI |
| 04 May 07:45 | 04 May 09:45 | UTC+2 | CEST | Italy Services PMI* |
| 04 May 07:50 | 04 May 09:50 | UTC+2 | CEST | France Services PMI* |
| 04 May 07:55 | 04 May 09:55 | UTC+2 | CEST | Germany Services PMI* |
| 04 May 08:00 | 04 May 11:00 | UTC+3 | EEST | Lebanon PMI |
| 04 May 08:00 | 04 May 10:00 | UTC+2 | CEST | Eurozone Services PMI* |
| 04 May 08:30 | 04 May 10:30 | UTC+2 | CAT | Zambia PMI |
| 04 May 08:30 | 04 May 09:30 | UTC+1 | BST | UK Services PMI* |
| 04 May 09:00 | 04 May 09:00 | UTC | GMT | Ghana PMI |
| 04 May 13:00 | 04 May 10:00 | UTC-3 | BRT | Brazil Services PMI* |
| 03 May 13:45 | 03 May 09:45 | UTC-4 | EDT | US Services PMI* |
| 03 May 13:45 | 03 May 09:45 | UTC-4 | EDT | US Sector PMI |
| 04 May 00:30 | 04 May 08:30 | UTC+8 | HKT | Hong Kong SAR PMI |
| 05 May 01:45 | 05 May 09:45 | UTC+8 | CST | China General Services PMI* |
| 09 May 06:00 | 09 May 07:00 | UTC+1 | BST | UK House Price Index |
| 05 May 07:30 | 05 May 09:30 | UTC+2 | CEST | Italy Construction PMI |
| 05 May 07:30 | 05 May 09:30 | UTC+2 | CEST | France Construction PMI |
| 05 May 07:30 | 05 May 09:30 | UTC+2 | CEST | Germany Construction PMI |
| 05 May 07:30 | 05 May 09:30 | UTC+2 | CEST | Eurozone Construction PMI |
| 05 May 08:30 | 05 May 09:30 | UTC+1 | BST | Europe Sector PMI |
| 05 May 08:30 | 05 May 09:30 | UTC+1 | BST | UK Construction PMI |
| 05 May 15:00 | 05 May 11:00 | UTC-4 | EDT | Global Services PMI* |
| 08 May 00:30 | 08 May 08:30 | UTC+8 | HKT | Asia Sector PMI |
| 08 May 08:30 | 08 May 09:30 | UTC+1 | BST | Global Sector PMI |
| 09 May 04:15 | 09 May 08:15 | UTC+4 | GST | Dubai PMI |
| 09 May 08:00 | 09 May 09:00 | UTC+1 | BST | Global Aluminium Users PMI |
| 09 May 08:00 | 09 May 09:00 | UTC+1 | BST | Global Copper Users PMI |
| 09 May 08:00 | 09 May 09:00 | UTC+1 | BST | Global Steel Users PMI |
| 09 May 08:30 | 09 May 09:30 | UTC+1 | BST | Global Electronics PMI |
| 09 May 23:01 | 10 May 00:01 | UTC+1 | BST | UK & English Regions Report on Jobs |
| 09 May 23:01 | 10 May 00:01 | UTC+1 | BST | Scotland Report on Jobs |
| 14 May 23:01 | 15 May 00:01 | UTC+1 | BST | UK Regional PMI |
| 15 May 00:01 | 15 May 01:01 | UTC+1 | IST | Ireland Construction PMI |

Notes

Press release of indices produced by S&P Global and relevant sponsors can be found at <https://www.pmi.spglobal.com/Public/Release/PressReleases>.

Dates are provisional and subject to change *includes composite PMI.

Last updated: 12 April 2023.

The intellectual property rights to the data provided herein are owned by or licensed to S&P Global and/or its affiliates. Any unauthorised use, including but not limited to copying, distributing, transmitting or otherwise of any data appearing is not permitted without S&P Global's prior consent. S&P Global shall not have any liability, duty or obligation for or relating to the content or information ("data") contained herein, any errors, inaccuracies, omissions or delays in the data, or for any actions taken in reliance thereon. In no event shall S&P Global be liable for any special, incidental, or consequential damages, arising out of the use of the data.

Purchasing Managers' Index™ and PMI™ are either registered trade marks of Markit Economics Limited or licensed to Markit Economics Limited and/or its affiliates.

Links to more resources

- [Sign up to receive updated commentary in your inbox here.](#)
- [Calendar of upcoming PMI releases](#)
- [Running commentary on the PMI survey findings](#)
- [PMI Frequently Asked Questions](#)
- [Background to the PMIs \(video\)](#)
- [Understanding the headline PMI and its various subindices](#)
- [PMI data use-case illustrations](#), from nowcasting to investment strategy
- [PMI podcasts](#)
- [How to subscribe](#) to PMI data

CONTACT US

Usamah Bhatti

Economist

S&P Global Market Intelligence

T : +44 1344 328 370

usamah.bhatti@spglobal.com

The Americas

+1-877-863-1306

EMEA

+44-20-7176-1234

Asia-Pacific

+852-2533-3565

spglobal.com/marketintelligence/en/mi/products/pmi.html