



Global mechanical engineering

# Robust despite headwind

**CETOP Meeting** 

online, March 9th 2023

www.vdma.org



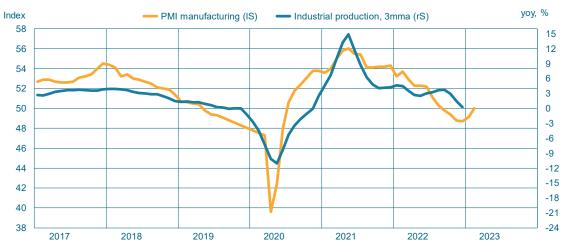


# Part 1 Current business situation

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# World: Industrial production and Purchasing Managers' Index manufacturing (PMI)





Source: cpb, J.P.Morgan, S&P Global, Macrobond, VDMA

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### **PMI Manufacturing**





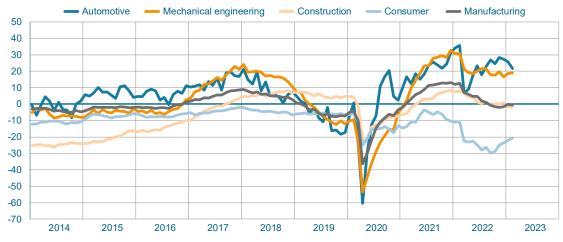
Source: S&P Global, Macrobond, VDMA

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#### **EU-27: Business climate in selected sectors**







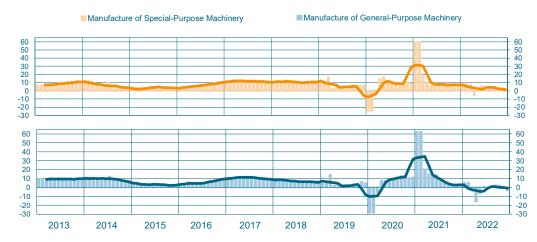
Source: EU Commission, Macrobond, VDMA

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### **China: Industrial production by sectors**



Real, yoy, %



Source: NBS, Macrobond, VDMA

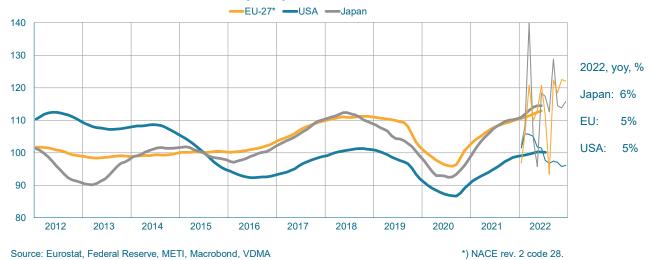
5-month moving average =

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### EU / USA / JP: Machinery production





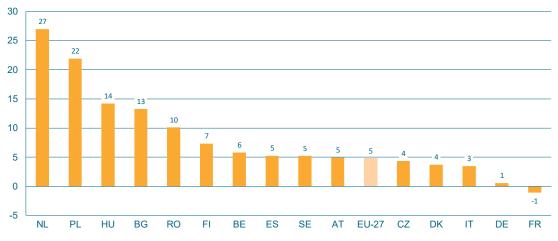


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### **EU-27: Production in Mechanical Engineering\***





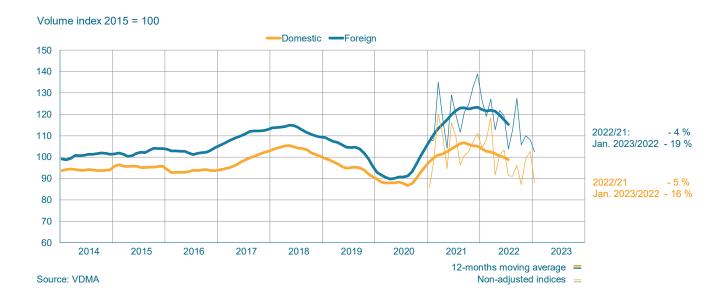


Source: Eurostat, Macrobond, VDMA \*) NACE rev. 2 code 28.

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### Germany: Incoming orders in mechanical engineering



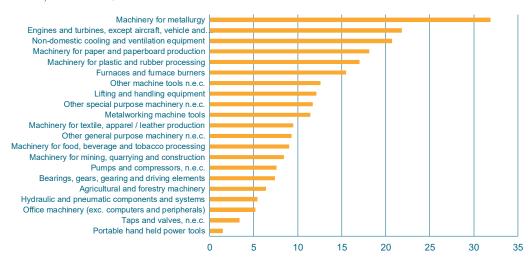


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# Germany: Mechanical engineering sectors (WZ 28) Range of orders on hand



Months, December 2022



Source: Fed. Statistical Office Germany, VDMA

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# **EU-27: Assessment of order book levels in mechanical engineering**





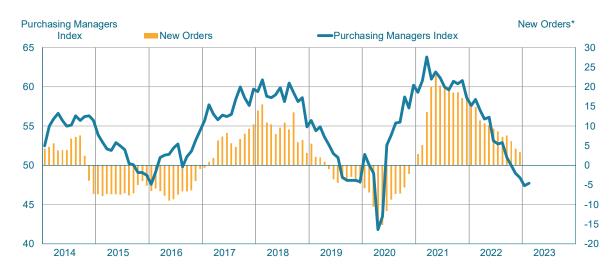


Source: EU Commission, Macrobond, VDMA

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# **USA:** Purchasing Managers Index (Manufacturing) and New Orders of US mechanical engineering





Source: Institute for Supply Management®, Census Bureau, VDMA  $\,$ 

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 $<sup>^{\</sup>ast}$  %-change against previous year of 3-mm average.

#### **USA: Inflation Reduction Act**



- > 369 billion dollars to fight climate change
  - \$270 billion through 27 tax credits -this is an estimate from CBO / JCT
- ➤ Most of the programs take effect on January 1, 2023, and last for 10 years
- No application process
- U.S. taxpayers benefit directly, European machinery manufacturers indirectly
- Domestic Content "Made in USA"
  - Iron and Steel: 100%
  - Investment goods: 40% increasing over the next years
    - (Offshore Wind Park: 20% at the beginning)

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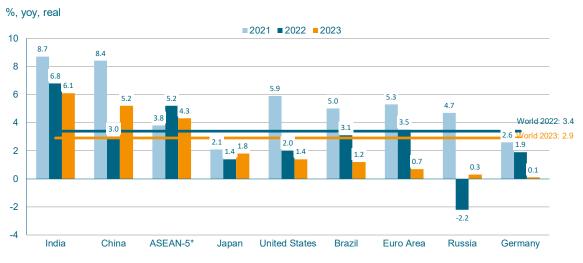
Part 2
Predictions



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#### **GDP**





Source: IMF WEO Update January 2023, Macrobond, VDMA

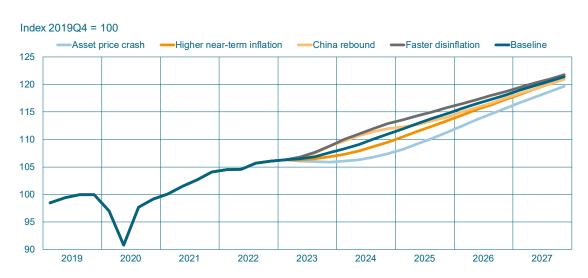
\*Indonesia, Malaysia, Philippines, Thailand and Vietnam.

/DMA LAnto History

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### World: GDP Forecasts by Oxford Economics scenarios





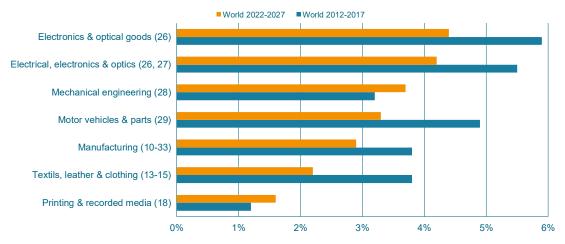
Source: Oxford Economics Ltd.

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#### World: Growth outlook







Source: Oxford Economics Ltd, (December 2022); sectors according to NACE rev.2

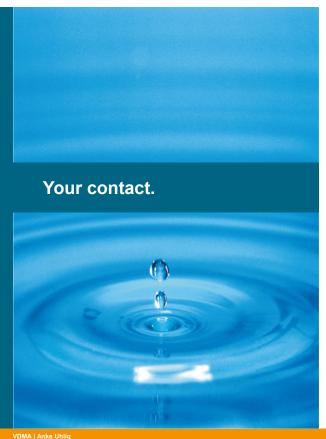
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#### **Risks and Chances**



- Geopolitical tensions are elevated
- Covid-19 still present
- Rising energy prices and high inflation in general
- Supply chain and logistic bottlenecks waning
- High order backlog
- Business cycle programs
- Automation
- Decarbonization
- Digitalization
- Decoupling: from globalization to self-reliance (building resilient supply chains)
- Demography (Shortage of skilled workers, diminishing working capital)

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