

MANUFACTURING OUTLOOK & METAL FORMING TRENDS

for 2021



Although it's impossible to predict precisely what 2021 has in store for American manufacturers, *it's safe to bet it's going to be one heck of a ride.*

Exit
2021



51%

of American manufacturing CFOs project an **increase in customer demand** in the next 6 months.¹

63%

of manufacturing executives have a **"somewhat" or "very positive" outlook on business.**²

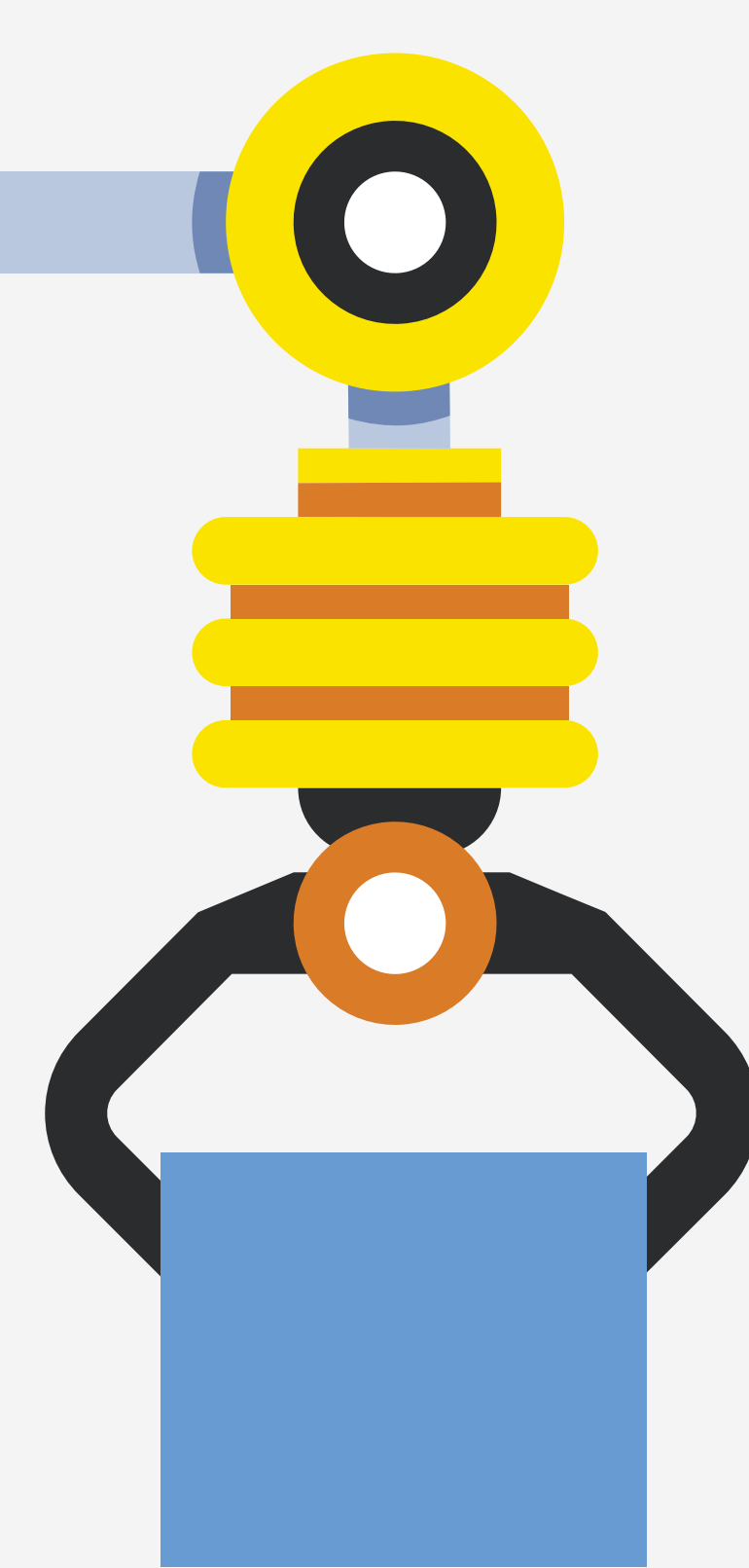


Global manufacturing value-added output will rebound in 2021 with a

6%

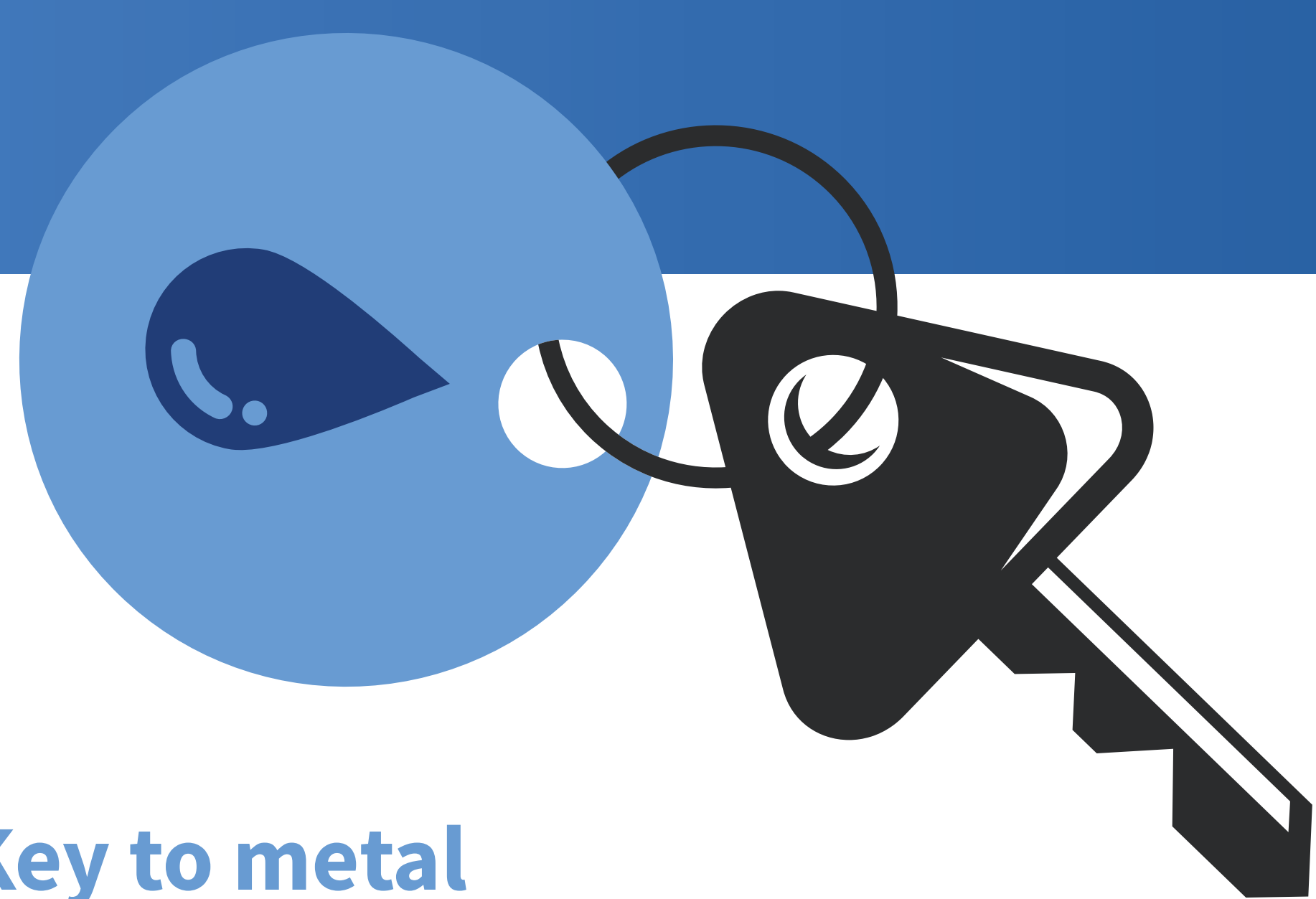
value-add

in manufacturing output compared to 2019.³



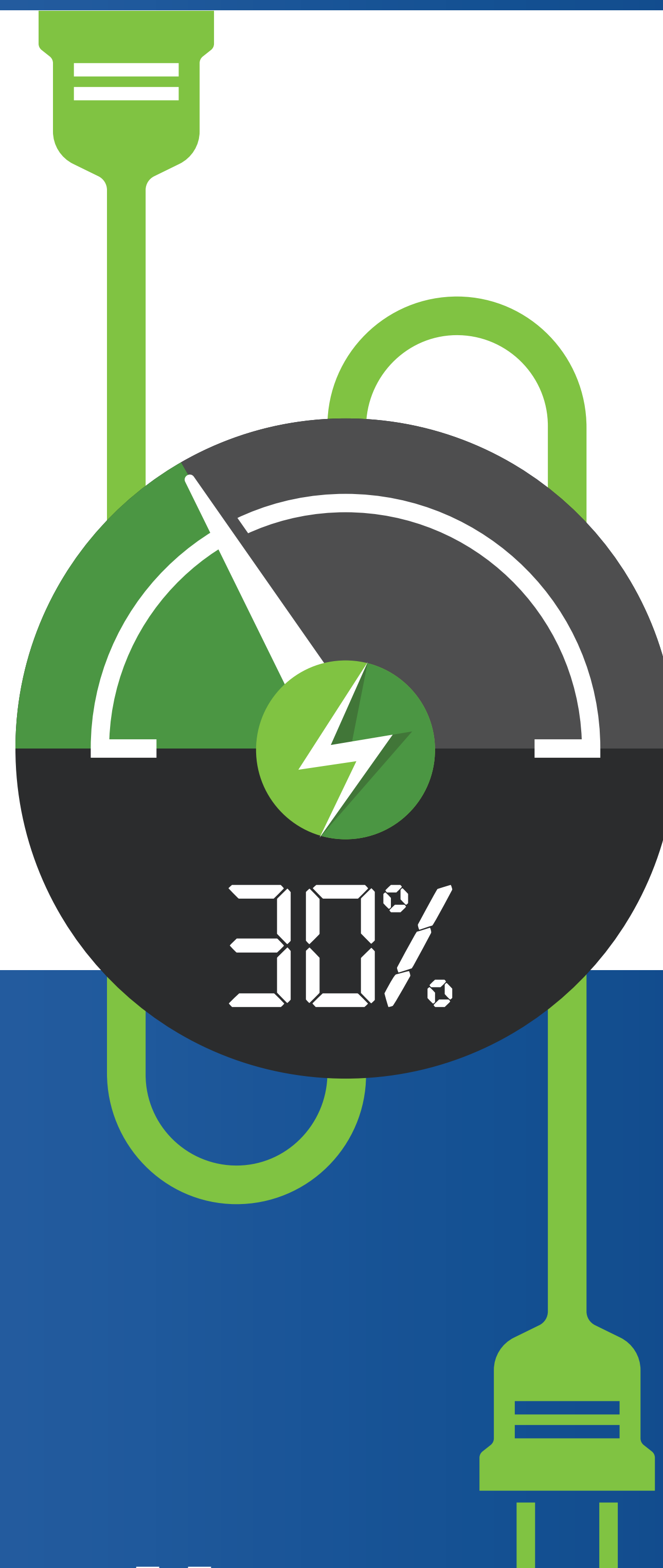
The metal forming market is projected to grow with a **CAGR of 2.59%** over the forecast period of 2020-2027.⁴

Key manufacturing sectors including the **aerospace** and **automotive** industries, are predicted to start recovering in the second half of 2021.⁵



Key to metal forming growth:

The demand for lightweight materials, the rise in sales of hybrid and electrical vehicles, and the growing recognition of hydroforming techniques will extend opportunities for the metal forming market.⁴



By 2025, EVs and HEVs will account for an estimated 30% of **all vehicle sales.**⁶



“

“By the second or third quarter, we’ll likely be seeing GDP increases in the 3% to 4% range.”⁷

CHRIS KUEHL

Economic analyst for the Fabricators & Manufacturers Association Intl. (FMA)

#1

SUPPLY CHAIN STABILITY

is most critical factor to the recovery of the manufacturing industry.¹

TOP 5 QUALITY ADVANTAGES OF FLUIDFORMING

- 1 Six Sigma quality, accuracy, & repeatability.
- 2 Eliminates bladder friction & tool marks.
- 3 Accommodates the formation of complex shapes.
- 4 Minimizes springback & material thinning.
- 5 Increases dimensional stability.

TOP 5 COST-SAVING BENEFITS OF FLUIDFORMING

- 1 Uses a single die from prototyping through production.
- 2 Reduces secondary operations & post-production fixturing.
- 3 Eliminates bladders & the risk of bladder ruptures.
- 4 Minimal material waste.
- 5 Shortens product development & accelerates time-to-market.



ffamericas.com • 800-497-3545

1. https://www.bdo.com/BDO/media/CFO-Outlook-Survey/IND_2021-Manufacturing-CFO-Outlook-Survey_WEB.pdf
2. <https://www2.deloitte.com/us/en/pages/energy-and-resources/articles/manufacturing-industry-outlook.html>
3. <https://www.bakermckenzie.com/-/media/files/insight/publications/2020/04/covid19-global-economy.pdf?la=en>
4. <https://www.databridgemarketresearch.com/reports/global-metal-forming-market>
5. <https://www.bakermckenzie.com/-/media/files/insight/publications/2020/04/covid19-global-economy.pdf?la=en>
6. <https://www.jpmorgan.com/insights/research/electric-vehicles>
7. <https://www.thefabricator.com/thefabricator/article/shopmanagement/2021-metal-fabrication-forecast-the-road-to-recovery-continues>