

## **Market evolution: Moulds for metals and plastics (CN 8480) — 2015–2025**

### **Introduction**

Moulds and moulding boxes (heading 8480) are a capital-good category that reflects the health of manufacturing industries from automotive to glass-making. Over the decade 2015–2025, EU trade in these products has undergone a profound transformation: the bloc has moved from a comfortable surplus to a significant deficit, import sources have become highly concentrated, and a series of price shocks have rewritten several bilateral relationships. This report describes and interprets these dynamics using the full set of trade indicators.

### **1. From surplus to deficit: the EU's growing import dependency**

#### **The EU sells less tonnage but at higher unit prices, while imports surge in both volume and value**

Total extra-EU exports of CN 8480 grew moderately in value, from €2.08 billion in 2015 to €2.21 billion in 2025 (+6.4 %), while the exported quantity fell by almost a fifth (–19.4 %). Imports, on the other hand, jumped from €1.75 billion to €2.56 billion (+46.0 %) and import tonnage increased even faster (+47.5 %). The gap between export and import unit values widened sharply: the average export price rose from €22 805/t to €30 111/t (+32.0 %), whereas the import unit price barely moved, moving from €18 935/t to €18 738/t (–1.0 %).

[Trade overview dashboard](#)

#### **A yawning price gap opens up between EU exports and imports**

In 2015 the value of one tonne of exported moulds was only 20 % higher than a tonne of imports; by 2025 it was 61 % higher. This divergence suggests that EU exporters are specialising in high-value, often complex injection and compression moulds for plastics and metals, while the bloc increasingly sources simpler, volume-driven products from lower-cost suppliers abroad. The product-segment breakdown confirms that injection/compression moulds for rubber or plastics (848071) dominate both flows, but the EU's export unit price for this segment climbed from €41 284/t to €49 264/t, far above the stable import

price of around €22 600-24 000/t.

Product segment comparison

The trade balance flips, exposing net reliance on foreign moulds

The EU’s trade surplus of €323 million in 2015 turned into a deficit of –€349 million in 2025, a swing of over €670 million. The balance worsened in every year from 2019 onward, reaching its lowest point in 2025. This shift is structural: even with premium-priced exports, the sheer volume of imports (now 1.86 times the exported weight) overwhelms the higher unit export revenue.

Trade overview dashboard

| Indicator               | 2015 value | 2025 value | Change   |
|-------------------------|------------|------------|----------|
| Exports (value, €m)     | 2 076.8    | 2 209.7    | +6.4 %   |
| Imports (value, €m)     | 1 753.3    | 2 559.3    | +46.0 %  |
| Trade balance (€m)      | +323.4     | –349.3     | –208.0 % |
| Exports (kg, t)         | 91 066     | 73 388     | –19.4 %  |
| Imports (kg, t)         | 92 594     | 136 576    | +47.5 %  |
| Export unit price (€/t) | 22 805     | 30 111     | +32.0 %  |
| Import unit price (€/t) | 18 935     | 18 738     | –1.0 %   |

2. China becomes the indispensable supplier while export markets realign

China’s share of EU imports rises to over 60 %, dramatically increasing supplier concentration

Imports from China nearly doubled, growing from €835 million to €1 588 million (+90.1 %). China’s weight in extra-EU imports rose from 47.6 % in 2015 to 62.0 % in 2025. This single supplier now accounts for almost two-thirds of all external mould purchases, pushing the import-side Herfindahl–Hirschman Index (HHI) from 2 673 to 4 063 (+52 %). Meanwhile, other Asian sources show diverse trends: South Korea’s shipments fell by 19.1 % (from €191 million to €154 million), India’s tripled but remains modest, and Turkey’s rose by 41 %.

Top import partners | Concentration indicators

## **Traditional European export partners lose ground, while the US and Morocco surge**

EU export markets experienced a dramatic realignment. Shipments to Russia collapsed from €163 million in 2015 to €26 million in 2024 (and effectively zero in 2025), a drop of 84 %, following sanctions and trade restrictions. In contrast, exports to the United States rose by 58 % (€341 million → €539 million), cementing it as the top destination. A remarkable new outlet is Morocco, where exports jumped 349 %, from €17 million to €78 million, likely linked to automotive investment. The United Kingdom recovered to €200 million after a post-Brexit dip, while Switzerland remained a stable high-value market.

Top export partners

## **Germany remains the bloc's export engine, but Italy and France lose momentum**

On the export side, intra-EU reporters show a mixed picture. Germany increased its extra-EU mould exports by 18 % to €773 million, consolidating its position as the leading exporter (20.8 % of all EU exports of this product). Italy, the second exporter, saw a decline of 11.4 % to €363 million, and France dropped 11.6 % to €137 million. Among the more specialised economies, Portugal's exports held steady around €125 million, while Luxembourg and Spain posted moderate gains. The export HHI among reporting member states rose from 772 to 1 016 (+31.6 %), indicating a slight move towards concentration away from the once-dominant trio of Germany-Italy-France.

Top reporters

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## **3. Price shocks and heightened volatility disrupt trading relationships**

### **A series of price shocks hit key trade flows – from Korean imports to Russian and Brazilian exports**

The algorithm identified several statistically significant price shocks. On the import side, South Korea experienced a price drop of –11.5 % in 2019-2020 (abnormality score 89.5), while volumes subsequently collapsed, suggesting a sudden supply adjustment. On the export side, EU moulds shipped to Brazil saw a massive unit-price spike of +129.7 % in 2023, accompanied by a halving of volumes, pointing to a shift towards very high-end products or very small batches. Exports to Switzerland recorded a price jump of +28.5 % in 2023, and prices remained elevated thereafter. China's EU-bound exports did not register a price shock, but EU exports to China saw a price surge of +47.1 % in 2022, again with a

sharp volume contraction. The most disruptive event was the virtual disappearance of exports to Russia after 2022, where both volume and price volatility were extreme.

#### Price shock events

| Shock event          | Flow    | Period    | Price shift | Volume change context                |
|----------------------|---------|-----------|-------------|--------------------------------------|
| Korea (import)       | Imports | 2019-2020 | –11.5 %     | Volume down 33 % in subsequent years |
| Brazil (export)      | Exports | 2023      | +129.7 %    | Volume fell to ~1 300 t              |
| Switzerland (export) | Exports | 2023      | +28.5 %     | Volume slightly lower                |
| China (export)       | Exports | 2022      | +47.1 %     | Volume more than halved              |
| Russia (export)      | Exports | 2023      | +56.3 %     | Volume collapsed to near zero        |
| Serbia (export)      | Exports | 2020      | +39.5 %     | Volume recovered later               |

## High volatility characterises several smaller but strategic supply sources

Beyond the headline shocks, the coefficient of variation (CV) for import quantities reveals strong volatility for several non-Chinese partners. The United Kingdom (CV=0.45), India (0.40), Japan (0.42), Taiwan (0.46), and Hong Kong (0.42) exhibit highly erratic import flows, reflecting their niche or intermediary roles. On the export side, Morocco (CV=0.31), Brazil (0.37), Saudi Arabia (0.37), and China (0.34) display above-average volatility, often linked to project-based demand or geopolitical shifts. In contrast, the largest flows – imports from China (CV=0.19) and Switzerland (0.07), and exports to the United States (0.14) and Switzerland (0.08) – remain relatively stable in volume terms, providing a predictable backbone for the EU's trade.

#### Volatility dashboard

## The EU's high-value export segments prove resilient, but their stability is tested

The product-level data confirm that the EU's comparative advantage lies in higher-value categories. Injection/compression moulds for rubber or plastics (848071) represent about 65 % of export value, and their unit price reached €49 264/t in 2025, compared to only €22 628/t for the same products imported. Moulds for glass (848050) and moulds for metal/metal carbides (848041) also command handsome export prices, while the EU imports large quantities of cheaper moulds for mineral materials (848060) at around €5 656/t. Despite the overall deficit, these high-end segments have kept export revenue growing, even as volumes contracted in the post-pandemic period. However, the widening price gap and the concentration of import supply in China create a dual dependency: the EU competes at the top but remains reliant on a single supplier for the bulk of its mould imports.

#### Product segment breakdown

## Conclusion

Between 2015 and 2025, EU trade in moulds (CN 8480) transitioned from a €323 million surplus to a €349 million deficit, driven by an enormous increase in imports from China, which now supplies 62 % of the bloc's external mould needs. EU exporters have successfully moved up the value ladder, obtaining 32 % higher unit prices and expanding sales to the US and Morocco while coping with the collapse of the Russian market. However, the resulting trade structure is highly asymmetric: imports are stable in price but highly concentrated, while exports are high-value but exposed to volatile, project-driven demand and occasional price shocks. The data underscore the strategic importance of moulds for EU manufacturing and the challenges of balancing competitiveness with supply-chain resilience.

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If you need advice on European trade policy, or representation for your interests in Brussels, feel free to contact me at [support@tradedashboard.eu](mailto:support@tradedashboard.eu). You can find my CV at [this address](#).