**Table of Contents**

1. **Highlights** 3

2. **Global Overview & Forecasts** 5
   - COVID-19 Impact on the Construction Machinery Industry 5
   - Demand by Product 7
     - Excavators 8
     - Loaders 9
     - Cranes & Draglines 10
     - Dozers & Off-Highway Trucks 11
     - Mixing & Paving Equipment 11
     - Grading & Compaction 12
     - Parts & Attachments 13

3. **Regional Segmentation & Forecasts** 15
   - Regional Production Overview 15
   - Regional Demand Overview 17
     - North America 19
     - Western Europe 21
     - Asia/Pacific 23
     - Other Regions 25
       - Central & South America 26
       - Eastern Europe 26
       - Africa/Mideast 27

4. **Industry Structure** 29
   - Industry Characteristics 29
   - Market Share 30
     - Caterpillar 31
     - Komatsu 32
     - Xuzhou Construction Machinery 33

5. **About This Report** 34
   - Scope 34
   - Sources 35
   - Industry Codes 35
   - Freedonia Methodology 36
   - Resources 38
List of Tables & Figures

Figure 1 | Global Construction Machinery Market Outlook, 2020 – 2025 4
Figure 2 | Global Construction Machinery Demand by Product, 2010 – 2025 (US$ bil) 7
Table 1 | Global Construction Machinery Demand by Product, 2010 – 2025 (US$ mil) 7
Figure 3 | Global Construction Machinery Demand by Product, 2010 – 2025 (%) 14
Figure 4 | Global Construction Machinery Production by Region, 2010 – 2025 (US$ bil) 15
Table 2 | Global Construction Machinery Production by Region, 2010 – 2025 (US$ mil) 15
Figure 5 | Global Construction Machinery Production by Region, 2010 – 2025 (%) 16
Figure 6 | Global Construction Machinery Demand by Region, 2010 – 2025 (US$ bil) 17
Table 3 | Global Construction Machinery Demand by Region, 2010 – 2025 (US$ mil) 17
Figure 7 | Global Construction Machinery Demand by Region, 2010 – 2025 (%) 18
Figure 8 | North America: Construction Machinery Demand by Product, 2010 – 2025 (US$ bil) 19
Table 4 | North America: Construction Machinery Demand by Product, 2010 – 2025 (US$ mil) 20
Figure 9 | Western Europe: Construction Machinery Demand by Product, 2010 – 2025 (US$ bil) 21
Table 5 | Western Europe: Construction Machinery Demand by Product, 2010 – 2025 (US$ mil) 22
Figure 10 | Asia/Pacific: Construction Machinery Demand by Product, 2010 – 2025 (US$ bil) 23
Table 6 | Asia/Pacific: Construction Machinery Demand by Product, 2010 – 2025 (US$ mil) 24
Figure 11 | Other Regions: Construction Machinery Demand by Product, 2010 – 2025 (US$ bil) 25
Figure 12 | Other Regions: Construction Machinery Demand by Product, 2010 – 2025 (US$ bil) 25
Table 7 | Other Regions: Construction Machinery Demand by Region & Product, 2010 – 2025 (US$ mil) 28
Figure 13 | Global Construction Machinery Market Share by Company, 2020 (%) 30
Table 8 | Leading Suppliers to the Global Construction Machinery Market 31
Table 9 | NAICS & SIC Codes Related to Construction Machinery 35
Table 10 | NACE Codes Related to Construction Machinery 35
Table 11 | HS Codes Related to Construction Machinery 36
About This Report

Scope

This report forecasts to 2025 global demand for construction machinery by product and major world region in nominal US dollars at the manufacturer level. Product segments include:

- excavators
- loaders
- cranes and draglines
- dozers and off-highway trucks
- mixing and paving equipment
- grading and compaction equipment
- parts and attachments

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, product, and regional demand (including product segments) are provided for 2010, 2015, and 2020. Finally, global production is segmented by major world region and provided for 2010, 2015, 2020, and 2025.

Construction machinery used in mining, energy, forestry, and other non-construction applications (e.g., agriculture) is included in this report. This report covers both self-powered and non-self-powered machinery.

Excluded from the scope of this report are:

- handheld equipment, such as jackhammers
- certain products sometimes considered to be construction equipment, including aerial work platforms, dredging machinery, forklifts and telehandlers, industrial cranes, log splitters, pile driving equipment, and tunneling machinery
- cranes used in seaports (specifically those for maritime applications) and in other industrial settings, such as gantry or overhead cranes
- used construction equipment
- leased and rental equipment
- remanufactured equipment
- sales of parts and attachments to new machinery OEMs
For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2020.

Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

*Global Construction Machinery* (FW75027) is based on a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

<table>
<thead>
<tr>
<th>Table 9</th>
<th>NAICS &amp; SIC Codes Related to Construction Machinery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NAICS/SCIAN 2017</strong></td>
<td><strong>SIC</strong></td>
</tr>
<tr>
<td>North American Industry Classification System</td>
<td>Standard Industrial Classification</td>
</tr>
<tr>
<td>333120</td>
<td>Construction Machinery Manufacturing</td>
</tr>
</tbody>
</table>

Source: US Census Bureau

<table>
<thead>
<tr>
<th>Table 10</th>
<th>NACE Codes Related to Construction Machinery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NACE Code</strong></td>
<td><strong>Definition</strong></td>
</tr>
<tr>
<td>28.92</td>
<td>Manufacture of machinery for mining, quarrying, and construction</td>
</tr>
</tbody>
</table>

Source: European Commission
### Table 11 | HS Codes Related to Construction Machinery

<table>
<thead>
<tr>
<th>HS Code</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>8413.40</td>
<td>Pumps for liquids: concrete pumps</td>
</tr>
<tr>
<td>8425.31</td>
<td>Winches; capstans: powered by an electric motor</td>
</tr>
<tr>
<td>8425.39</td>
<td>Winches; capstans: not powered by an electric motor</td>
</tr>
<tr>
<td>8426.20</td>
<td>Cranes: tower cranes</td>
</tr>
<tr>
<td>8426.30</td>
<td>Cranes: portal or pedestal jib cranes</td>
</tr>
<tr>
<td>8426.41</td>
<td>Cranes: self-propelled derricks and cranes on tires</td>
</tr>
<tr>
<td>8426.49</td>
<td>Cranes: self-propelled derricks and cranes not on tires</td>
</tr>
<tr>
<td>8426.99</td>
<td>Cranes and derricks other than for mounting on road vehicles</td>
</tr>
<tr>
<td>8429.11</td>
<td>Bulldozers and angledozers: self-propelled, track laying</td>
</tr>
<tr>
<td>8429.19</td>
<td>Bulldozers and angledozers: self-propelled, other than track laying</td>
</tr>
<tr>
<td>8429.20</td>
<td>Graders and levelers: self-propelled</td>
</tr>
<tr>
<td>8429.30</td>
<td>Scrapers: self-propelled</td>
</tr>
<tr>
<td>8429.40</td>
<td>Tamping machines and road rollers: self-propelled</td>
</tr>
<tr>
<td>8429.51</td>
<td>Front-end shovel loaders: self-propelled</td>
</tr>
<tr>
<td>8429.52</td>
<td>Mechanical shovels, self-propelled excavators and shovel loaders, with a 360 degree revolving superstructure</td>
</tr>
<tr>
<td>8429.59</td>
<td>Mechanical shovels, self-propelled excavators and shovel loaders, without a 360 degree revolving superstructure</td>
</tr>
<tr>
<td>8430.61</td>
<td>Machinery: for tamping or compacting, not self-propelled</td>
</tr>
<tr>
<td>8431.41</td>
<td>Machinery parts: buckets, shovels, grabs and grips</td>
</tr>
<tr>
<td>8431.42</td>
<td>Machinery parts: bulldozer or angledozer blades</td>
</tr>
<tr>
<td>8431.49</td>
<td>Machinery: other parts of machines handling earth, minerals or ores</td>
</tr>
<tr>
<td>8474.31</td>
<td>Machines: concrete or mortar mixers</td>
</tr>
<tr>
<td>8474.32</td>
<td>Machines: for mixing mineral substances with bitumen</td>
</tr>
<tr>
<td>8479.10</td>
<td>Machinery and mechanical appliances: for public works, building or the like</td>
</tr>
<tr>
<td>8704.10</td>
<td>Motor vehicles: dumpers, designed for off-highway use, for transport of goods</td>
</tr>
<tr>
<td>8705.10</td>
<td>Special purpose motor vehicles: mobile cranes</td>
</tr>
<tr>
<td>8705.40</td>
<td>Special purpose motor vehicles: concrete mixers</td>
</tr>
</tbody>
</table>

Source: United Nations Statistics Division

**Freedonia Methodology**

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market’s current position as well as its future outlook: When published data are available,
we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or $r^2$. The most stable data series relative to the trend carries an $r^2$ value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

Global Construction Machinery

Freedonia Industry Studies

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Global Geosynthetics
Global Housing
Global Material Handling Equipment
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Global Off-Road Equipment Technology 2021
Global Power Tools
Gutters & Downspouts
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Prefabricated Housing
Roofing
Siding

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Construction: United States
Housing: United States
Mining & Quarrying: United States

Freedonia Custom Research

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Construction Today
Diesel Progress
Equipment World
For Construction Pros
Global Construction Review
International Construction
International Rental News
OEM Off-Highway
Trenchless Technology

Agencies & Associations
China Construction Machinery Association (CCMA)
Committee for European Construction Equipment
Eurostat
German Engineering Federation (Verband Deutscher Maschinen- und Anlagenbau – VDMA)
Japan Construction Equipment Manufacturers Association (CEMA)
Korean Statistical Information Service (KOSIS)
Korea Construction Equipment Manufacturers Association (KOCEMA)
Ministry of Economy, Trade and Industry (Japan)
Statistisches Bundesamt (Germany)
United States Department of Commerce
United States International Trade Administration