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*Global Construction Machinery*

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About This Report

Scope

This report forecasts to 2023 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
- graders, rollers, and related equipment
- mixers, pavers, and related 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 2008, 2013, and 2018. Finally, global production is segmented by major world region and provided for 2008, 2013, 2018, and 2023.

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)
- used construction 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 2018.

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 *Global Construction Machinery*, 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 and nongovernmental 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 9 | NAICS & SIC Codes Related to Construction Machinery

<table>
<thead>
<tr>
<th>NAICS/SCIAN 2017</th>
<th>SIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>333120</td>
<td>Construction Machinery Manufacturing</td>
</tr>
</tbody>
</table>

Source: US Census Bureau

#### Table 10 | 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: dumper, 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
About This Report

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

Construction Chemicals in the US
Global Agricultural Equipment
Global Bearings
Global Construction Aggregates
Global Diesel Engines
Global Forestry Equipment
Global Mining Equipment
Global Off-Road Equipment Technology 2019
Global Power Tools
Global Tires

Freedonia Focus Reports

Construction Aggregates: United States
Construction Machinery: United States
Construction: United States
Commercial Building Construction: United States
World Construction Aggregates

Freedonia Custom Research

Trade Publications

Construction Equipment
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 Anglenbau – VDMA)
About This Report

Japan Construction Equipment Manufacturers Association (CEMA)
Korea Construction Equipment Manufacturers Association (KOCEMA)
Korean Statistical Information Service (KOSIS)
Ministry of Economy, Trade and Industry (Japan)
Statistiches Bundesamt (Germany)
US Department of Commerce
US International Trade Administration