

# **Heavy Construction Equipment Market by Machinery Type (Earthmoving equipment, Material Handling Equipment, Heavy Construction Vehicles), Propulsion Type (Diesel, CNG/LNG/RNG, Electric), Engine Capacity, End-Use Industry, & Region - Global Forecast to 2030**

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## **Abstracts**

The heavy construction equipment market is estimated at USD 224.49 Billion in 2025 and is projected to reach USD 286.51 Billion by 2030, at a CAGR of 5.0% from 2025 to 2030. One of the key factors anticipated to propel the growth of the heavy construction equipment market is the rising demand for such equipment in the mining and construction sectors.

“increasing investments in construction and infrastructure sectors to drive the heavy construction equipment market.”

The growing investments in construction activities are driving up demand for heavy construction equipment. Beijing, China, for example, is making 6.8 trillion yuan (about \$1 trillion USD) in government cash available for building projects. Canal, dam, and reservoir building was expected to cost about 800 billion yuan (USD 115.96 million) in 2022. Additionally, the majority of China's infrastructure investment is allocated to local governments, who most frequently choose to spend on urban infrastructure development, which includes parks, gas and water pipe networks, and urban highways. Additionally, by 2035, China intends to construct 70,000 kilometers of high-speed rail.

The European Union declared in June 2022 that it will invest over USD 5.4 billion in the construction of transportation infrastructure. About 135 infrastructure projects have been

chosen by the EU to receive development funding. The National Infrastructure Pipeline is expected to receive about USD 645.7 billion and 700 projects, according to the UK Construction Leadership Council. The demand for construction equipment is anticipated to be driven during the forecast period by such planned investments and expanding construction activity for infrastructure development.

“Stringent government regulations to restrain for heavy construction equipment market.”

Government laws particular to a certain region are one of the biggest challenges heavy construction equipment manufacturers confront. A corporation must go through a drawn-out and difficult procedure of getting a permit after completing several necessary checks before beginning significant construction.

For instance, appropriate baseline data is gathered to accurately represent the environmental status of the area because the construction industry employs more diesel engines than any other business in order to comply with EU emissions rules. Wetlands, soil, vegetation, animals, surface and groundwater hydrology, climatology, and cultural and historical resources are all the subjects of surveys. Following preparation and submission to the regulatory body, the permit undergoes technical and completeness evaluations..

Companies are required to adhere to the following Acts/Regulations to perform heavy construction activities:

National Environmental Policy Act (1970)

Federal Land Policy and Management Act (1976)

Clean Air Act (1963)

Federal Water Pollution Control Act (1972)

Toxic Substance Control Act (1976)

Such lengthy, time-consuming, and often varying regulations act as a restraint to the heavy construction equipment market.

“Digitization of services to provide an opportunity for the heavy construction equipment market.”

The construction equipment business has a plethora of opportunities to adopt new construction methods, cutting-edge technologies, and digitization. It is possible to employ and deploy new technologies on construction sites around the world, including telematics, smart applications, connected tools and equipment, and autonomous heavy machinery.

Manufacturers of construction equipment use data to reduce hazards, boost productivity, enhance job site safety, and make smarter decisions. In order to monitor the health of construction equipment, predictive analytics solutions are developed using artificial intelligence (AI) and machine learning systems. Hitachi Construction Machinery Co., Ltd. introduced the ConSite Mine, a machine analytics solution that uses the Internet of Things to remotely monitor mining equipment around-the-clock, to the world market in January 2022.

“Development of alternative solutions to be a major challenge for heavy construction equipment market.”

The two most basic components of electric heavy construction equipment are the battery and the motor. The battery stores and provides the energy, while the motor generates the force. One of the difficulties faced by producers of heavy construction equipment is managing the motor's speed and torque under a variety of load and speed settings. A battery's capacity must be maximized in order to make the most efficient use of its limited amount of stored energy. Increasing the battery's size would help it hold more power, but it also makes the heavy construction equipment heavier and more expensive.

Since batteries in electric-powered heavy-duty construction equipment require a long time to recharge, battery charging is one of the main problems. This delays the return on investment and lengthens downtime. In addition, battery thermal management systems have to deal with aging, climate, corrosion, leakage, and clogging. To address this issue, producers of heavy construction equipment and technological specialists are creating sophisticated battery thermal management systems.

“Asia Pacific to be the dominating region in heavy construction equipment market in terms of both value”

Asia Pacific led the heavy construction equipment market, in terms of value, in 2024 and is projected to register a CAGR of 5.2% between 2025 and 2030. The region's growing mining and infrastructure projects, particularly in China and India, are responsible for this high market penetration. These nations' governments are encouraging infrastructure development in an effort to boost their economies and draw in fresh foreign investment. The governments of these two nations are aggressively searching for suitable lithium mines both inside and outside the nation for battery manufacture in response to the growing demand for raw materials worldwide and to protect their energy interests. These will encourage the region to use heavy construction equipment more frequently.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 60%, Tier 2- 20%, and Tier 3- 20%

By Designation- C Level- 33%, Director Level- 33%, and Managers- 34%

By Region- North America- 20%, Europe- 25%, Asia Pacific- 25%, Middle East & Africa- 15%, and Latin America- 15%

The report provides a comprehensive analysis of company profiles:

Prominent companies Caterpillar (US), Liebherr AG (Germany), Terex Corporation (US), Volvo Group (Sweden), Komatsu (Japan), Hitachi Construction Machinery Co., Ltd. (Japan), SANY Heavy Industry Co., Ltd. (China), HD Hyundai (South Korea), XCMG Group (China), CNH Industrial N.V. (UK), and J C Bamford Excavators Ltd (UK), among others.

## Research Coverage

This report covers the global heavy construction equipment market and forecasts the market size until 2030. It includes the following market segmentation – By Machinery Type (Earthmoving equipment, Material Handling Equipment, Heavy Construction Vehicles, Others), By Propulsion Type (Diesel, CNG/LNG/RNG, Electric), By Engine Capacity (10 L), by Power Output (400 HP), By application (Material Handling, Transportation, Excavation & Demolition, Heavy Lifting, Tunneling, Recycling & Waste Management), By End-Use Industry (Mining, Infrastructure, Building & Construction,

Forestry & Agriculture, Others), and Region (North America, Europe, Asia Pacific, Middle East & Africa, South America). The scope of the report includes detailed information about the major factors influencing the growth of the hydrogen tanks market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. Product launches, mergers and acquisitions, and recent developments in the hydrogen tanks market are all covered. This report includes a competitive analysis of upcoming startups in the hydrogen tanks market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall hydrogen tanks market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing investments in construction and infrastructure sector, Rapid urbanization and population growth, Technological advancements and upgradation, government investments and supportive policies for sustainable solutions), restraints (Substantial capital investment, socio-economic effects of heavy construction activities), opportunities (Demand for autonomous heavy construction equipment, Electrification and Digitization of equipment, renting or leasing of equipment), and challenges (Development of alternative optimized solutions, lack of skilled labor force and maintenance and repair related issues) influencing the growth of the hydrogen tanks market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the heavy construction equipment market.

Market Development: Comprehensive information about lucrative markets – the report analyses the hydrogen tanks market across varied regions.

**Market Diversification:** Exhaustive information about services, untapped geographies, recent developments, and investments in the hydrogen tanks market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and service offerings of leading players like Caterpillar (US), Liebherr AG (Germany), Terex Corporation (US), Volvo Group (Sweden), Komatsu (Japan), Hitachi Construction Machinery Co., Ltd. (Japan), SANY Heavy Industry Co., Ltd. (China), HD Hyundai (South Korea), XCMG Group (China), CNH Industrial N.V. (UK), and J C Bamford Excavators Ltd (UK), among others in the heavy construction equipment market.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED AND REGIONAL SCOPE
  - 1.3.2 INCLUSIONS AND EXCLUSIONS
  - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 Key data from secondary sources
    - 2.1.1.2 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
    - 2.1.2.2 Key primary participants
    - 2.1.2.3 Breakdown of primary interviews
    - 2.1.2.4 Key industry insights
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
  - 2.2.2 TOP-DOWN APPROACH
- 2.3 BASE NUMBER CALCULATION
  - 2.3.1 APPROACH 1: SUPPLY-SIDE ANALYSIS
  - 2.3.2 APPROACH 2: DEMAND-SIDE ANALYSIS
- 2.4 GROWTH FORECAST
  - 2.4.1 SUPPLY SIDE
  - 2.4.2 DEMAND SIDE
- 2.5 DATA TRIANGULATION
- 2.6 FACTOR ANALYSIS
- 2.7 RESEARCH ASSUMPTIONS
- 2.8 RESEARCH LIMITATIONS AND RISK ASSESSMENT



### **3 EXECUTIVE SUMMARY**

### **4 PREMIUM INSIGHTS**

#### **4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN HEAVY CONSTRUCTION EQUIPMENT MARKET**

#### **4.2 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY MACHINERY TYPE**

#### **4.3 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION**

#### **4.4 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE**

#### **4.5 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT**

#### **4.6 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY ENGINE CAPACITY**

#### **4.7 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY**

#### **4.8 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY KEY COUNTRY**

### **5 MARKET OVERVIEW**

#### **5.1 INTRODUCTION**

#### **5.2 MARKET DYNAMICS**

##### **5.2.1 DRIVERS**

5.2.1.1 Increasing investments and developments in construction and infrastructure sectors

5.2.1.2 Rapid urbanization and population growth

5.2.1.3 Technological advancements and upgradation of equipment

5.2.1.4 Government investments and supportive policies for sustainable solutions

##### **5.2.2 RESTRAINTS**

5.2.2.1 Substantial capital investment

5.2.2.2 Socio-economic effects of heavy construction activities

##### **5.2.3 OPPORTUNITIES**

5.2.3.1 Demand for autonomous heavy construction equipment

5.2.3.2 Electrification and digitization of equipment

5.2.3.3 Renting or leasing equipment

##### **5.2.4 CHALLENGES**

5.2.4.1 Development of alternative optimized solutions

5.2.4.2 Lack of skilled labor force and maintenance and repair-related issues

#### **5.3 PORTER'S FIVE FORCES ANALYSIS**

##### **5.3.1 THREAT OF NEW ENTRANTS**

##### **5.3.2 THREAT OF SUBSTITUTES**

##### **5.3.3 BARGAINING POWER OF SUPPLIERS**



- 5.3.4 BARGAINING POWER OF BUYERS
- 5.3.5 INTENSITY OF COMPETITIVE RIVALRY
- 5.4 KEY STAKEHOLDERS AND BUYING CRITERIA
  - 5.4.1 KEY STAKEHOLDERS IN BUYING PROCESS
  - 5.4.2 BUYING CRITERIA
- 5.5 MACROECONOMICS OUTLOOK
  - 5.5.1 INTRODUCTION
  - 5.5.2 GDP TRENDS AND FORECAST
  - 5.5.3 TRENDS IN GLOBAL BUILDING & CONSTRUCTION INDUSTRY
  - 5.5.4 TRENDS IN GLOBAL INFRASTRUCTURE INDUSTRY
  - 5.5.5 TRENDS IN GLOBAL MINING INDUSTRY
- 5.6 SUPPLY CHAIN ANALYSIS
  - 5.6.1 RAW MATERIAL/COMPONENT ANALYSIS
  - 5.6.2 FINAL PRODUCT ANALYSIS
- 5.7 VALUE CHAIN ANALYSIS
- 5.8 ECOSYSTEM ANALYSIS
- 5.9 PRICING ANALYSIS
  - 5.9.1 AVERAGE SELLING PRICE TREND OF END-USE INDUSTRIES, BY KEY PLAYERS, 2024
  - 5.9.2 AVERAGE SELLING PRICE TREND, BY MACHINERY TYPE, 2022–2025
  - 5.9.3 AVERAGE SELLING PRICE TREND, BY APPLICATION, 2022–2025
  - 5.9.4 AVERAGE SELLING PRICE TREND, BY REGION, 2022–2025
- 5.10 TRADE ANALYSIS
  - 5.10.1 IMPORT SCENARIO (HS CODE 843149)
  - 5.10.2 EXPORT SCENARIO (HS CODE 843149)
- 5.11 TECHNOLOGY ANALYSIS
  - 5.11.1 KEY TECHNOLOGIES
    - 5.11.1.1 Autonomous heavy construction equipment
  - 5.11.2 COMPLEMENTARY TECHNOLOGIES
    - 5.11.2.1 Connected technologies
    - 5.11.2.2 Grade control system
- 5.12 IMPACT OF AI/GEN AI ON HEAVY CONSTRUCTION EQUIPMENT MARKET
  - 5.12.1 TOP USE CASES AND MARKET POTENTIAL
  - 5.12.2 BEST PRACTICES IN HEAVY CONSTRUCTION EQUIPMENT MARKET
  - 5.12.3 CASE STUDIES OF AI IMPLEMENTATION IN HEAVY CONSTRUCTION EQUIPMENT MARKET
  - 5.12.4 INTERCONNECTED ADJACENT ECOSYSTEM AND IMPACT ON MARKET PLAYERS
  - 5.12.5 CLIENTS' READINESS TO ADOPT GENERATIVE AI IN HEAVY

## CONSTRUCTION EQUIPMENT MARKET

### 5.13 PATENT ANALYSIS

#### 5.13.1 INTRODUCTION

#### 5.13.2 METHODOLOGY

#### 5.13.3 DOCUMENT TYPE

#### 5.13.4 INSIGHTS

#### 5.13.5 LEGAL STATUS OF PATENTS

#### 5.13.6 JURISDICTION ANALYSIS

#### 5.13.7 TOP APPLICANTS

#### 5.13.8 LIST OF PATENTS BY VOLVO GROUP

#### 5.13.9 LIST OF PATENTS BY DOOSAN INFRACORE CO., LTD.

#### 5.13.10 LIST OF PATENTS BY KOREA IND TECH INST.

### 5.14 REGULATORY LANDSCAPE

#### 5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

### 5.15 KEY CONFERENCES AND EVENTS, 2024–2025

### 5.16 CASE STUDY ANALYSIS

#### 5.16.1 TELENOR CONNEXION AB DEVELOPED EFFICIENT TELEMATIC SYSTEM FOR OPERATION IN REMOTE LOCATIONS

#### 5.16.2 VOLVO GROUP AND DAIMLER TRUCK PARTNERED TO CREATE HEAVY-DUTY COMMERCIAL VEHICLES

#### 5.16.3 KOMATSU LAUNCHED ELECTRIC MINI EXCAVATOR IN JAPANESE MARKET

### 5.17 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

### 5.18 INVESTMENT AND FUNDING SCENARIO

## 6 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT

### 6.1 INTRODUCTION

### 6.2 \$\$\$100 HP

#### 6.2.1 ROAD MAINTENANCE AND REPAIR PROJECTS TO DRIVE SEGMENT GROWTH

### 6.3 101–200 HP

#### 6.3.1 LOW MAINTENANCE COST TO DRIVE MARKET

### 6.4 201–400 HP

#### 6.4.1 INCREASING COMMERCIAL CONSTRUCTION PROJECTS TO DRIVE MARKET

### 6.5 \$\$\$\$400 HP

#### 6.5.1 NEW HEALTHCARE PROJECTS AND UPGRADING EXISTING FACILITIES TO

## DRIVE DEMAND

### **7 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE**

#### 7.1 INTRODUCTION

#### 7.2 DIESEL

7.2.1 INCREASED CONSTRUCTION AND MINING ACTIVITIES TO PROPEL GROWTH

#### 7.3 CNG/LNG/RNG

7.3.1 DEMAND FOR ALTERNATIVE FUEL TO DRIVE MARKET

#### 7.4 ELECTRIC

7.4.1 GROWING ELECTRIFICATION AND DIGITIZATION OF EQUIPMENT TO DRIVE MARKET

### **8 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY ENGINE CAPACITY**

#### 8.1 INTRODUCTION

#### 8.2 \$\$\$\$5 L

8.2.1 DEMAND FOR COMPACT CONSTRUCTION EQUIPMENT TO DRIVE GROWTH

#### 8.3 5–10 L

8.3.1 WIDE APPLICATION IN GROUND-LEVEL CONSTRUCTION TO BOOST DEMAND

#### 8.4 \$\$\$\$10 L

8.4.1 WIDE PREFERENCE IN LARGE INFRASTRUCTURE PROJECTS TO DRIVE MARKET

### **9 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION**

#### 9.1 INTRODUCTION

#### 9.2 MATERIAL HANDLING

9.2.1 EXTENSIVE USE IN END-USE INDUSTRIES TO DRIVE MARKET

#### 9.3 TRANSPORTATION

9.3.1 RISING USE OF HAULERS IN BUILDING MATERIALS TO DRIVE MARKET

#### 9.4 EXCAVATION & DEMOLITION

9.4.1 INCREASING DEMAND FOR LOW-FUEL CONSUMPTION EXCAVATORS TO DRIVE MARKET

#### 9.5 HEAVY LIFTING

9.5.1 GROWING DEMAND FOR CRANES AND TELESCOPIC HANDLERS TO

## DRIVE MARKET

### 9.6 TUNNELING

9.6.1 INVESTMENTS IN IMPROVING ROAD AND RAIL CONNECTIVITY TO DRIVE SEGMENT

### 9.7 RECYCLING & WASTE MANAGEMENT

9.7.1 STRINGENT GOVERNMENT REGULATIONS TO DRIVE MARKET

## **10 HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY**

### 10.1 INTRODUCTION

#### 10.2 MINING

10.2.1 INCREASING DEMAND FOR MINERALS AND RARE EARTH METALS TO DRIVE MARKET

#### 10.3 INFRASTRUCTURE

10.3.1 RISE IN GOVERNMENT-FUNDED INFRASTRUCTURE PROJECTS TO DRIVE MARKET

#### 10.4 BUILDING & CONSTRUCTION

10.4.1 COMMERCIAL DEVELOPMENTS IN EMERGING ECONOMIES TO DRIVE MARKET

#### 10.5 FORESTRY & AGRICULTURE

10.5.1 HIGH DEMAND FOR DOZERS TO DRIVE MARKET

#### 10.6 OTHER END-USE INDUSTRIES

## **11 HEAVY CONSTRUCTION MARKET, BY REGION**

### 11.1 INTRODUCTION

#### 11.2 ASIA PACIFIC

11.2.1 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY MACHINERY TYPE

11.2.2 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE

11.2.3 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY ENGINE CAPACITY

11.2.4 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT

11.2.5 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION

11.2.6 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY

## 11.2.7 ASIA PACIFIC: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY COUNTRY

### 11.2.7.1 China

11.2.7.1.1 Huge government investments in mining sector to drive market

### 11.2.7.2 India

11.2.7.2.1 Immense opportunities for infrastructural development to drive market

### 11.2.7.3 Japan

11.2.7.3.1 Increasing government support for construction sector to drive market

### 11.2.7.4 Australia

11.2.7.4.1 Booming mining activities to drive market

### 11.2.7.5 Rest of Asia Pacific

## 11.3 EUROPE

### 11.3.1 EUROPE: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY MACHINERY TYPE

### 11.3.2 EUROPE: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE

### 11.3.3 EUROPE: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT

### 11.3.4 EUROPE: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION

### 11.3.5 EUROPE: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY

### 11.3.6 EUROPE: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY COUNTRY

#### 11.3.6.1 Germany

11.3.6.1.1 Increase in demand for compact construction equipment to drive market

#### 11.3.6.2 France

11.3.6.2.1 Rapid development of metropolitan areas to drive market

#### 11.3.6.3 UK

11.3.6.3.1 Surge in residential construction projects to drive market

#### 11.3.6.4 Russia

11.3.6.4.1 Increasing demand for material handling equipment to drive market

#### 11.3.6.5 Rest of Europe

## 11.4 NORTH AMERICA

### 11.4.1 NORTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY MACHINERY TYPE

### 11.4.2 NORTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE

### 11.4.3 NORTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT

#### 11.4.4 NORTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION

#### 11.4.5 NORTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY

#### 11.4.6 NORTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY COUNTRY

##### 11.4.6.1 US

11.4.6.1.1 Expansion of commercial construction sector to drive market

##### 11.4.6.2 Canada

11.4.6.2.1 Upcoming mining and infrastructural projects to drive growth

##### 11.4.6.3 Mexico

11.4.6.3.1 Rising investments in construction and infrastructure sectors to drive growth

#### 11.5 MIDDLE EAST & AFRICA

#### 11.5.1 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY MACHINERY TYPE

#### 11.5.2 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE

#### 11.5.3 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT

#### 11.5.4 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY ENGINE CAPACITY

#### 11.5.5 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION

#### 11.5.6 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY

#### 11.5.7 MIDDLE EAST & AFRICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY COUNTRY

##### 11.5.7.1 GCC Countries

##### 11.5.7.1.1 Qatar

11.5.7.1.1.1 Development and maintenance of commercial events and infrastructure projects to drive demand

##### 11.5.7.1.2 Saudi Arabia

11.5.7.1.2.1 Vision 2030 and Infrastructure development projects to drive market

##### 11.5.7.1.3 UAE

11.5.7.1.3.1 Investments in tourism-related projects to boost demand

##### 11.5.7.1.4 Rest of GCC Countries

- 11.5.7.1.4.1 Rising investments in infrastructure sector to drive market
- 11.5.7.2 South Africa
  - 11.5.7.2.1 Increase in non-residential commercial infrastructure to boost demand
- 11.5.7.3 Rest of Middle East & Africa
- 11.6 SOUTH AMERICA
  - 11.6.1 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY MACHINERY TYPE
  - 11.6.2 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY PROPULSION TYPE
  - 11.6.3 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY ENGINE CAPACITY TYPE
  - 11.6.4 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY POWER OUTPUT TYPE
  - 11.6.5 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY APPLICATION TYPE
  - 11.6.6 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY END-USE INDUSTRY
  - 11.6.7 SOUTH AMERICA: HEAVY CONSTRUCTION EQUIPMENT MARKET, BY COUNTRY
    - 11.6.7.1 Brazil
      - 11.6.7.1.1 Increased hotel construction projects to drive market
    - 11.6.7.2 Argentina
      - 11.6.7.2.1 Growth of infrastructure projects to drive market
    - 11.6.7.3 Chile
      - 11.6.7.3.1 Surge in rail infrastructure development activities to drive market
    - 11.6.7.4 Peru
      - 11.6.7.4.1 Surge in mining activities to drive market
    - 11.6.7.5 Rest of South America

## **12 COMPETITIVE LANDSCAPE**

- 12.1 OVERVIEW
- 12.2 KEY PLAYER STRATEGIES/RIGHT TO WIN
- 12.3 REVENUE ANALYSIS, 2019–2023
- 12.4 MARKET SHARE ANALYSIS, 2023
- 12.5 BRAND/PRODUCT COMPARISON
  - 12.5.1 EXCAVATORS (CATERPILLAR)
  - 12.5.2 EXCAVATORS (KOMATSU)



12.5.3 EXCAVATORS (XCMG GROUP)

12.5.4 EXCAVATORS (VOLVO GROUP)

12.6 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

12.6.1 STARS

12.6.2 EMERGING LEADERS

12.6.3 PERVASIVE PLAYERS

12.6.4 PARTICIPANTS

12.6.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

12.6.5.1 Company footprint

12.6.5.2 Region footprint

12.6.5.3 Machinery type footprint

12.6.5.4 Application footprint

12.6.5.5 Propulsion type footprint

12.6.5.6 Power output footprint

12.6.5.7 Engine capacity footprint

12.6.5.8 End-use industry footprint

12.7 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023

12.7.1 PROGRESSIVE COMPANIES

12.7.2 RESPONSIVE COMPANIES

12.7.3 DYNAMIC COMPANIES

12.7.4 STARTING BLOCKS

12.7.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023

12.7.5.1 Detailed list of key startups/SMEs

12.7.5.2 Competitive benchmarking of key startups/SMEs

12.8 COMPANY VALUATION AND FINANCIAL METRICS

12.9 COMPETITIVE SCENARIO

12.9.1 PRODUCT LAUNCHES

12.9.2 DEALS

## **13 COMPANY PROFILES**

13.1 KEY PLAYERS

13.1.1 CATERPILLAR

13.1.1.1 Business overview

13.1.1.2 Products offered

13.1.1.3 Recent developments

13.1.1.3.1 Deals

13.1.1.3.2 Product launches

13.1.1.4 MnM view

- 13.1.1.4.1 Key strengths
- 13.1.1.4.2 Strategic choices
- 13.1.1.4.3 Weaknesses and competitive threats

#### 13.1.2 VOLVO GROUP

- 13.1.2.1 Business overview
- 13.1.2.2 Products offered
- 13.1.2.3 Recent developments
  - 13.1.2.3.1 Deals
  - 13.1.2.3.2 Product launches
  - 13.1.2.3.3 Expansions
- 13.1.2.4 MnM view
  - 13.1.2.4.1 Key strengths
  - 13.1.2.4.2 Strategic choices
  - 13.1.2.4.3 Weaknesses and competitive threats

#### 13.1.3 KOMATSU

- 13.1.3.1 Business overview
- 13.1.3.2 Products offered
- 13.1.3.3 Recent developments
  - 13.1.3.3.1 Product launches
  - 13.1.3.3.2 Deals
  - 13.1.3.3.3 Expansions
- 13.1.3.4 MnM view
  - 13.1.3.4.1 Key strengths
  - 13.1.3.4.2 Strategic choices
  - 13.1.3.4.3 Weaknesses and competitive threats

#### 13.1.4 HITACHI CONSTRUCTION MACHINERY CO., LTD.

- 13.1.4.1 Business overview
- 13.1.4.2 Products offered
- 13.1.4.3 Recent developments
  - 13.1.4.3.1 Product launches
  - 13.1.4.3.2 Deals
  - 13.1.4.3.3 Expansions
- 13.1.4.4 MnM view
  - 13.1.4.4.1 Key strengths
  - 13.1.4.4.2 Strategic choices
  - 13.1.4.4.3 Weaknesses and competitive threats

#### 13.1.5 TEREX CORPORATION

- 13.1.5.1 Business overview
- 13.1.5.2 Products offered

- 13.1.5.3 Recent developments
  - 13.1.5.3.1 Product launches
  - 13.1.5.3.2 Deals
- 13.1.5.4 MnM view
  - 13.1.5.4.1 Key strengths
  - 13.1.5.4.2 Strategic choices
  - 13.1.5.4.3 Weaknesses and competitive threats
- 13.1.6 LIEBHERR AG
  - 13.1.6.1 Business overview
  - 13.1.6.2 Products offered
  - 13.1.6.3 Recent developments
    - 13.1.6.3.1 Product launches
    - 13.1.6.3.2 Deals
    - 13.1.6.3.3 Expansions
  - 13.1.6.4 MnM view
    - 13.1.6.4.1 Key strengths
    - 13.1.6.4.2 Strategic choices
    - 13.1.6.4.3 Weaknesses and competitive threats
- 13.1.7 SANY GROUP
  - 13.1.7.1 Business overview
  - 13.1.7.2 Products offered
  - 13.1.7.3 Recent developments
    - 13.1.7.3.1 Product launches
    - 13.1.7.3.2 Deals
  - 13.1.7.4 MnM view
    - 13.1.7.4.1 Key strengths
    - 13.1.7.4.2 Strategic choices
    - 13.1.7.4.3 Weaknesses and competitive threats
- 13.1.8 HD HYUNDAI
  - 13.1.8.1 Business overview
  - 13.1.8.2 Products offered
  - 13.1.8.3 Recent developments
    - 13.1.8.3.1 Product launches
    - 13.1.8.3.2 Deals
    - 13.1.8.3.3 Expansions
  - 13.1.8.4 MnM view
    - 13.1.8.4.1 Key strengths
    - 13.1.8.4.2 Strategic choices
    - 13.1.8.4.3 Weaknesses and competitive threats

### 13.1.9 XCMG GROUP

#### 13.1.9.1 Business overview

#### 13.1.9.2 Products offered

#### 13.1.9.3 Recent developments

##### 13.1.9.3.1 Product launches

##### 13.1.9.3.2 Deals

##### 13.1.9.3.3 Expansions

#### 13.1.9.4 MnM view

##### 13.1.9.4.1 Key strengths

##### 13.1.9.4.2 Strategic choices

##### 13.1.9.4.3 Weaknesses and competitive threats

### 13.1.10 CNH INDUSTRIAL N.V.

#### 13.1.10.1 Business overview

#### 13.1.10.2 Products offered

#### 13.1.10.3 Recent developments

##### 13.1.10.3.1 Product launches

##### 13.1.10.3.2 Deals

##### 13.1.10.3.3 Expansions

#### 13.1.10.4 MnM view

##### 13.1.10.4.1 Key strengths

##### 13.1.10.4.2 Strategic choices

##### 13.1.10.4.3 Weaknesses and competitive threats

### 13.1.11 WACKER NEUSON SE

#### 13.1.11.1 Business overview

#### 13.1.11.2 Products offered

#### 13.1.11.3 MnM view

##### 13.1.11.3.1 Key strengths

##### 13.1.11.3.2 Strategic choices

##### 13.1.11.3.3 Weaknesses and competitive threats

### 13.1.12 SUMITOMO HEAVY INDUSTRIES, LTD.

#### 13.1.12.1 Business overview

#### 13.1.12.2 Products offered

#### 13.1.12.3 MnM view

##### 13.1.12.3.1 Key strengths

##### 13.1.12.3.2 Strategic choices

##### 13.1.12.3.3 Weaknesses and competitive threats

### 13.2 OTHER PLAYERS

#### 13.2.1 JC BAMFORD EXCAVATORS LTD.

#### 13.2.2 MANITOU GROUP

13.2.3 ESCORTS KUBOTA LIMITED

13.2.4 DEERE AND COMPANY

13.2.5 ZOOMLION HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.

13.2.6 KOBELCO CONSTRUCTION MACHINERY CO., LTD.

13.2.7 HIAB

13.2.8 HIDROMEK

13.2.9 DOOSAN BOBCAT

13.2.10 MAHINDRA CONSTRUCTION EQUIPMENT

## **14 APPENDIX**

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

14.3 CUSTOMIZATION OPTIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

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