

Global Shell Core Machines Market Growth 2025-2031

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Abstracts

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The global Shell Core Machines market size is predicted to grow from US\$ 388 million in 2025 to US\$ 546 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

Shell core machine is a kind of professional equipment used in foundry industry, mainly used for manufacturing shell core. Shell core machine generally adopts hot core box method or cold core box method to manufacture shell core. Hot core box method is to fill the sand core mixture mixed with thermosetting resin into the core box heated to a certain temperature. Under the action of heat, the resin is rapidly solidified to form a shell core with a certain strength and shape. Cold core box method is to pass gas curing agent into the core box or use self-hardening resin sand to make the sand core mixture quickly solidify and form at room temperature. The structure usually consists of core box, sand shooting mechanism, heating system (hot core box method), gas supply system (cold core box method), clamping device and control system. The core box is the mold that forms the shape of the shell core. The sand shooting mechanism is responsible for shooting the sand core mixture into the core box at high speed. The heating system is used to heat the core box in the hot core box method. The gas supply system provides the gas required for curing for the cold core box method. The clamping device is used to keep the core box tightly closed during the sand shooting and curing process. The control system accurately controls the entire core making process to ensure the quality and production efficiency of the shell core.

Automobile is one of the largest application areas of shell core machines. The casting of many key parts such as automobile engine cylinder blocks, cylinder heads, transmission housings, etc. requires the use of shell core machines to manufacture sand cores to ensure the accuracy and quality of castings. With the continuous increase in automobile

production, the demand for shell core machines has also continued to grow steadily. Aerospace has extremely high requirements for the quality and precision of castings. Shell core machines play an important role in manufacturing sand cores for complex parts such as aircraft engine blades and casings. With the development of the aerospace industry, the demand for high-end shell core machines is expected to increase further. In the future, shell core machines will have a higher level of intelligence and automation. For example, functions such as automatic loading and unloading, automatic adjustment of process parameters, automatic fault diagnosis and early warning will become more popular, improving production efficiency and product quality stability, and reducing manual intervention. With the increasing demand for large and complex castings in the high-end manufacturing industry, shell core machines will develop in the direction of being able to manufacture larger and higher precision sand cores to meet the needs of large-scale machinery and equipment, wind power equipment and other fields.

The technical research and development and innovation of the shell core machine industry require a large number of high-quality professionals, including professionals in mechanical design, automation control, materials science and other fields. At present, there is a relative shortage of high-end technical talents in the industry, which limits the technological innovation and development speed of enterprises. With the development of the shell core machine market, more and more companies are entering this field, and the market competition is becoming increasingly fierce. Enterprises need to continuously improve product quality, technical level and service capabilities to stand out in the competition.

LP Information, Inc. (LPI) ' newest research report, the "Shell Core Machines Industry Forecast" looks at past sales and reviews total world Shell Core Machines sales in 2024, providing a comprehensive analysis by region and market sector of projected Shell Core Machines sales for 2025 through 2031. With Shell Core Machines sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Shell Core Machines industry.

This Insight Report provides a comprehensive analysis of the global Shell Core Machines landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Shell Core Machines portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Shell Core Machines market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Shell Core Machines and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Shell Core Machines.

This report presents a comprehensive overview, market shares, and growth opportunities of Shell Core Machines market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Dual Station

Singal Station

Segmentation by Application:

Automobile

Aerospace

Mechanical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

EMI(Harrison Equipment)

Sinto America

Ganesh Quality Machines

ATD Engineering & Machine

CFM

Bright Tech

Saathi Foundry Solution

V.P. Foundry Equipment

Kelsons Engineers & Fabricators

Simpson

B&P

DEPENDABLE

FERODYNE

FOUNDRY AUTOMATION

Galaxy Machine

Navdis Engineers

Durga Lakshmi Equipments

Alumco

Melling Engineered Aluminium Castings

Kao Kuen Industrial

MESC

DISA Group

Loramendi

Omega Foundry Machinery

Key Questions Addressed in this Report

What is the 10-year outlook for the global Shell Core Machines market?

What factors are driving Shell Core Machines market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Shell Core Machines market opportunities vary by end market size?

How does Shell Core Machines break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Shell Core Machines Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Shell Core Machines by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Shell Core Machines by Country/Region, 2020, 2024 & 2031
- 2.2 Shell Core Machines Segment by Type
 - 2.2.1 Dual Station
 - 2.2.2 Singal Station
- 2.3 Shell Core Machines Sales by Type
 - 2.3.1 Global Shell Core Machines Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Shell Core Machines Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Shell Core Machines Sale Price by Type (2020-2025)
- 2.4 Shell Core Machines Segment by Application
 - 2.4.1 Automobile
 - 2.4.2 Aerospace
 - 2.4.3 Mechanical
 - 2.4.4 Others
- 2.5 Shell Core Machines Sales by Application
 - 2.5.1 Global Shell Core Machines Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Shell Core Machines Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global Shell Core Machines Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Shell Core Machines Breakdown Data by Company

3.1.1 Global Shell Core Machines Annual Sales by Company (2020-2025)

3.1.2 Global Shell Core Machines Sales Market Share by Company (2020-2025)

3.2 Global Shell Core Machines Annual Revenue by Company (2020-2025)

3.2.1 Global Shell Core Machines Revenue by Company (2020-2025)

3.2.2 Global Shell Core Machines Revenue Market Share by Company (2020-2025)

3.3 Global Shell Core Machines Sale Price by Company

3.4 Key Manufacturers Shell Core Machines Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Shell Core Machines Product Location Distribution

3.4.2 Players Shell Core Machines Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SHELL CORE MACHINES BY GEOGRAPHIC REGION

4.1 World Historic Shell Core Machines Market Size by Geographic Region (2020-2025)

4.1.1 Global Shell Core Machines Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Shell Core Machines Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Shell Core Machines Market Size by Country/Region (2020-2025)

4.2.1 Global Shell Core Machines Annual Sales by Country/Region (2020-2025)

4.2.2 Global Shell Core Machines Annual Revenue by Country/Region (2020-2025)

4.3 Americas Shell Core Machines Sales Growth

4.4 APAC Shell Core Machines Sales Growth

4.5 Europe Shell Core Machines Sales Growth

4.6 Middle East & Africa Shell Core Machines Sales Growth

5 AMERICAS

5.1 Americas Shell Core Machines Sales by Country

5.1.1 Americas Shell Core Machines Sales by Country (2020-2025)

5.1.2 Americas Shell Core Machines Revenue by Country (2020-2025)

- 5.2 Americas Shell Core Machines Sales by Type (2020-2025)
- 5.3 Americas Shell Core Machines Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Shell Core Machines Sales by Region
 - 6.1.1 APAC Shell Core Machines Sales by Region (2020-2025)
 - 6.1.2 APAC Shell Core Machines Revenue by Region (2020-2025)
- 6.2 APAC Shell Core Machines Sales by Type (2020-2025)
- 6.3 APAC Shell Core Machines Sales by Application (2020-2025)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Shell Core Machines by Country
 - 7.1.1 Europe Shell Core Machines Sales by Country (2020-2025)
 - 7.1.2 Europe Shell Core Machines Revenue by Country (2020-2025)
- 7.2 Europe Shell Core Machines Sales by Type (2020-2025)
- 7.3 Europe Shell Core Machines Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Shell Core Machines by Country
 - 8.1.1 Middle East & Africa Shell Core Machines Sales by Country (2020-2025)

- 8.1.2 Middle East & Africa Shell Core Machines Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Shell Core Machines Sales by Type (2020-2025)
- 8.3 Middle East & Africa Shell Core Machines Sales by Application (2020-2025)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Shell Core Machines
- 10.3 Manufacturing Process Analysis of Shell Core Machines
- 10.4 Industry Chain Structure of Shell Core Machines

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Shell Core Machines Distributors
- 11.3 Shell Core Machines Customer

12 WORLD FORECAST REVIEW FOR SHELL CORE MACHINES BY GEOGRAPHIC REGION

- 12.1 Global Shell Core Machines Market Size Forecast by Region
 - 12.1.1 Global Shell Core Machines Forecast by Region (2026-2031)
 - 12.1.2 Global Shell Core Machines Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Shell Core Machines Forecast by Type (2026-2031)

12.7 Global Shell Core Machines Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 EMI(Harrison Equipment)

13.1.1 EMI(Harrison Equipment) Company Information

13.1.2 EMI(Harrison Equipment) Shell Core Machines Product Portfolios and Specifications

13.1.3 EMI(Harrison Equipment) Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 EMI(Harrison Equipment) Main Business Overview

13.1.5 EMI(Harrison Equipment) Latest Developments

13.2 Sinto America

13.2.1 Sinto America Company Information

13.2.2 Sinto America Shell Core Machines Product Portfolios and Specifications

13.2.3 Sinto America Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Sinto America Main Business Overview

13.2.5 Sinto America Latest Developments

13.3 Ganesh Quality Machines

13.3.1 Ganesh Quality Machines Company Information

13.3.2 Ganesh Quality Machines Shell Core Machines Product Portfolios and Specifications

13.3.3 Ganesh Quality Machines Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Ganesh Quality Machines Main Business Overview

13.3.5 Ganesh Quality Machines Latest Developments

13.4 ATD Engineering & Machine

13.4.1 ATD Engineering & Machine Company Information

13.4.2 ATD Engineering & Machine Shell Core Machines Product Portfolios and Specifications

13.4.3 ATD Engineering & Machine Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 ATD Engineering & Machine Main Business Overview

13.4.5 ATD Engineering & Machine Latest Developments

13.5 CFM

13.5.1 CFM Company Information

- 13.5.2 CFM Shell Core Machines Product Portfolios and Specifications
- 13.5.3 CFM Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.5.4 CFM Main Business Overview
- 13.5.5 CFM Latest Developments
- 13.6 Bright Tech
 - 13.6.1 Bright Tech Company Information
 - 13.6.2 Bright Tech Shell Core Machines Product Portfolios and Specifications
 - 13.6.3 Bright Tech Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Bright Tech Main Business Overview
 - 13.6.5 Bright Tech Latest Developments
- 13.7 Saathi Foundry Solution
 - 13.7.1 Saathi Foundry Solution Company Information
 - 13.7.2 Saathi Foundry Solution Shell Core Machines Product Portfolios and Specifications
 - 13.7.3 Saathi Foundry Solution Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Saathi Foundry Solution Main Business Overview
 - 13.7.5 Saathi Foundry Solution Latest Developments
- 13.8 V.P. Foundry Equipment
 - 13.8.1 V.P. Foundry Equipment Company Information
 - 13.8.2 V.P. Foundry Equipment Shell Core Machines Product Portfolios and Specifications
 - 13.8.3 V.P. Foundry Equipment Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 V.P. Foundry Equipment Main Business Overview
 - 13.8.5 V.P. Foundry Equipment Latest Developments
- 13.9 Kelsons Engineers & Fabricators
 - 13.9.1 Kelsons Engineers & Fabricators Company Information
 - 13.9.2 Kelsons Engineers & Fabricators Shell Core Machines Product Portfolios and Specifications
 - 13.9.3 Kelsons Engineers & Fabricators Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Kelsons Engineers & Fabricators Main Business Overview
 - 13.9.5 Kelsons Engineers & Fabricators Latest Developments
- 13.10 Simpson
 - 13.10.1 Simpson Company Information
 - 13.10.2 Simpson Shell Core Machines Product Portfolios and Specifications

13.10.3 Simpson Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)

13.10.4 Simpson Main Business Overview

13.10.5 Simpson Latest Developments

13.11 B&P

13.11.1 B&P Company Information

13.11.2 B&P Shell Core Machines Product Portfolios and Specifications

13.11.3 B&P Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)

13.11.4 B&P Main Business Overview

13.11.5 B&P Latest Developments

13.12 DEPENDABLE

13.12.1 DEPENDABLE Company Information

13.12.2 DEPENDABLE Shell Core Machines Product Portfolios and Specifications

13.12.3 DEPENDABLE Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)

13.12.4 DEPENDABLE Main Business Overview

13.12.5 DEPENDABLE Latest Developments

13.13 FERODYNE

13.13.1 FERODYNE Company Information

13.13.2 FERODYNE Shell Core Machines Product Portfolios and Specifications

13.13.3 FERODYNE Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)

13.13.4 FERODYNE Main Business Overview

13.13.5 FERODYNE Latest Developments

13.14 FOUNDRY AUTOMATION

13.14.1 FOUNDRY AUTOMATION Company Information

13.14.2 FOUNDRY AUTOMATION Shell Core Machines Product Portfolios and
Specifications

13.14.3 FOUNDRY AUTOMATION Shell Core Machines Sales, Revenue, Price and
Gross Margin (2020-2025)

13.14.4 FOUNDRY AUTOMATION Main Business Overview

13.14.5 FOUNDRY AUTOMATION Latest Developments

13.15 Galaxy Machine

13.15.1 Galaxy Machine Company Information

13.15.2 Galaxy Machine Shell Core Machines Product Portfolios and Specifications

13.15.3 Galaxy Machine Shell Core Machines Sales, Revenue, Price and Gross
Margin (2020-2025)

13.15.4 Galaxy Machine Main Business Overview

- 13.15.5 Galaxy Machine Latest Developments
- 13.16 Navdis Engineers
 - 13.16.1 Navdis Engineers Company Information
 - 13.16.2 Navdis Engineers Shell Core Machines Product Portfolios and Specifications
 - 13.16.3 Navdis Engineers Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.16.4 Navdis Engineers Main Business Overview
 - 13.16.5 Navdis Engineers Latest Developments
- 13.17 Durga Lakshmi Equipments
 - 13.17.1 Durga Lakshmi Equipments Company Information
 - 13.17.2 Durga Lakshmi Equipments Shell Core Machines Product Portfolios and Specifications
 - 13.17.3 Durga Lakshmi Equipments Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.17.4 Durga Lakshmi Equipments Main Business Overview
 - 13.17.5 Durga Lakshmi Equipments Latest Developments
- 13.18 Alumco
 - 13.18.1 Alumco Company Information
 - 13.18.2 Alumco Shell Core Machines Product Portfolios and Specifications
 - 13.18.3 Alumco Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.18.4 Alumco Main Business Overview
 - 13.18.5 Alumco Latest Developments
- 13.19 Melling Engineered Aluminium Castings
 - 13.19.1 Melling Engineered Aluminium Castings Company Information
 - 13.19.2 Melling Engineered Aluminium Castings Shell Core Machines Product Portfolios and Specifications
 - 13.19.3 Melling Engineered Aluminium Castings Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.19.4 Melling Engineered Aluminium Castings Main Business Overview
 - 13.19.5 Melling Engineered Aluminium Castings Latest Developments
- 13.20 Kao Kuen Industrial
 - 13.20.1 Kao Kuen Industrial Company Information
 - 13.20.2 Kao Kuen Industrial Shell Core Machines Product Portfolios and Specifications
 - 13.20.3 Kao Kuen Industrial Shell Core Machines Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.20.4 Kao Kuen Industrial Main Business Overview
 - 13.20.5 Kao Kuen Industrial Latest Developments
- 13.21 MESC

- 13.21.1 MESC Company Information
- 13.21.2 MESC Shell Core Machines Product Portfolios and Specifications
- 13.21.3 MESC Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)
- 13.21.4 MESC Main Business Overview
- 13.21.5 MESC Latest Developments
- 13.22 DISA Group
 - 13.22.1 DISA Group Company Information
 - 13.22.2 DISA Group Shell Core Machines Product Portfolios and Specifications
 - 13.22.3 DISA Group Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)
 - 13.22.4 DISA Group Main Business Overview
 - 13.22.5 DISA Group Latest Developments
- 13.23 Loramendi
 - 13.23.1 Loramendi Company Information
 - 13.23.2 Loramendi Shell Core Machines Product Portfolios and Specifications
 - 13.23.3 Loramendi Shell Core Machines Sales, Revenue, Price and Gross Margin
(2020-2025)
 - 13.23.4 Loramendi Main Business Overview
 - 13.23.5 Loramendi Latest Developments
- 13.24 Omega Foundry Machinery
 - 13.24.1 Omega Foundry Machinery Company Information
 - 13.24.2 Omega Foundry Machinery Shell Core Machines Product Portfolios and
Specifications
 - 13.24.3 Omega Foundry Machinery Shell Core Machines Sales, Revenue, Price and
Gross Margin (2020-2025)
 - 13.24.4 Omega Foundry Machinery Main Business Overview
 - 13.24.5 Omega Foundry Machinery Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Shell Core Machines Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Shell Core Machines Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of Dual Station
- Table 4. Major Players of Singal Station
- Table 5. Global Shell Core Machines Sales by Type (2020-2025) & (Units)
- Table 6. Global Shell Core Machines Sales Market Share by Type (2020-2025)
- Table 7. Global Shell Core Machines Revenue by Type (2020-2025) & (\$ million)
- Table 8. Global Shell Core Machines Revenue Market Share by Type (2020-2025)
- Table 9. Global Shell Core Machines Sale Price by Type (2020-2025) & (US\$/Unit)
- Table 10. Global Shell Core Machines Sale by Application (2020-2025) & (Units)
- Table 11. Global Shell Core Machines Sale Market Share by Application (2020-2025)
- Table 12. Global Shell Core Machines Revenue by Application (2020-2025) & (\$ million)
- Table 13. Global Shell Core Machines Revenue Market Share by Application (2020-2025)
- Table 14. Global Shell Core Machines Sale Price by Application (2020-2025) & (US\$/Unit)
- Table 15. Global Shell Core Machines Sales by Company (2020-2025) & (Units)
- Table 16. Global Shell Core Machines Sales Market Share by Company (2020-2025)
- Table 17. Global Shell Core Machines Revenue by Company (2020-2025) & (\$ millions)
- Table 18. Global Shell Core Machines Revenue Market Share by Company (2020-2025)
- Table 19. Global Shell Core Machines Sale Price by Company (2020-2025) & (US\$/Unit)
- Table 20. Key Manufacturers Shell Core Machines Producing Area Distribution and Sales Area
- Table 21. Players Shell Core Machines Products Offered
- Table 22. Shell Core Machines Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- Table 23. New Products and Potential Entrants
- Table 24. Market M&A Activity & Strategy
- Table 25. Global Shell Core Machines Sales by Geographic Region (2020-2025) & (Units)
- Table 26. Global Shell Core Machines Sales Market Share Geographic Region

(2020-2025)

Table 27. Global Shell Core Machines Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Shell Core Machines Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Shell Core Machines Sales by Country/Region (2020-2025) & (Units)

Table 30. Global Shell Core Machines Sales Market Share by Country/Region (2020-2025)

Table 31. Global Shell Core Machines Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Shell Core Machines Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Shell Core Machines Sales by Country (2020-2025) & (Units)

Table 34. Americas Shell Core Machines Sales Market Share by Country (2020-2025)

Table 35. Americas Shell Core Machines Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Shell Core Machines Sales by Type (2020-2025) & (Units)

Table 37. Americas Shell Core Machines Sales by Application (2020-2025) & (Units)

Table 38. APAC Shell Core Machines Sales by Region (2020-2025) & (Units)

Table 39. APAC Shell Core Machines Sales Market Share by Region (2020-2025)

Table 40. APAC Shell Core Machines Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC Shell Core Machines Sales by Type (2020-2025) & (Units)

Table 42. APAC Shell Core Machines Sales by Application (2020-2025) & (Units)

Table 43. Europe Shell Core Machines Sales by Country (2020-2025) & (Units)

Table 44. Europe Shell Core Machines Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Shell Core Machines Sales by Type (2020-2025) & (Units)

Table 46. Europe Shell Core Machines Sales by Application (2020-2025) & (Units)

Table 47. Middle East & Africa Shell Core Machines Sales by Country (2020-2025) & (Units)

Table 48. Middle East & Africa Shell Core Machines Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Shell Core Machines Sales by Type (2020-2025) & (Units)

Table 50. Middle East & Africa Shell Core Machines Sales by Application (2020-2025) & (Units)

Table 51. Key Market Drivers & Growth Opportunities of Shell Core Machines

Table 52. Key Market Challenges & Risks of Shell Core Machines

Table 53. Key Industry Trends of Shell Core Machines

Table 54. Shell Core Machines Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Shell Core Machines Distributors List

Table 57. Shell Core Machines Customer List

Table 58. Global Shell Core Machines Sales Forecast by Region (2026-2031) & (Units)

Table 59. Global Shell Core Machines Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Shell Core Machines Sales Forecast by Country (2026-2031) & (Units)

Table 61. Americas Shell Core Machines Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Shell Core Machines Sales Forecast by Region (2026-2031) & (Units)

Table 63. APAC Shell Core Machines Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Shell Core Machines Sales Forecast by Country (2026-2031) & (Units)

Table 65. Europe Shell Core Machines Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa Shell Core Machines Sales Forecast by Country (2026-2031) & (Units)

Table 67. Middle East & Africa Shell Core Machines Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Shell Core Machines Sales Forecast by Type (2026-2031) & (Units)

Table 69. Global Shell Core Machines Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Shell Core Machines Sales Forecast by Application (2026-2031) & (Units)

Table 71. Global Shell Core Machines Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 72. EMI(Harrison Equipment) Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 73. EMI(Harrison Equipment) Shell Core Machines Product Portfolios and Specifications

Table 74. EMI(Harrison Equipment) Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 75. EMI(Harrison Equipment) Main Business

Table 76. EMI(Harrison Equipment) Latest Developments

Table 77. Sinto America Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 78. Sinto America Shell Core Machines Product Portfolios and Specifications

Table 79. Sinto America Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 80. Sinto America Main Business

Table 81. Sinto America Latest Developments

Table 82. Ganesh Quality Machines Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 83. Ganesh Quality Machines Shell Core Machines Product Portfolios and Specifications

Table 84. Ganesh Quality Machines Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 85. Ganesh Quality Machines Main Business

Table 86. Ganesh Quality Machines Latest Developments

Table 87. ATD Engineering & Machine Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 88. ATD Engineering & Machine Shell Core Machines Product Portfolios and Specifications

Table 89. ATD Engineering & Machine Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 90. ATD Engineering & Machine Main Business

Table 91. ATD Engineering & Machine Latest Developments

Table 92. CFM Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 93. CFM Shell Core Machines Product Portfolios and Specifications

Table 94. CFM Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 95. CFM Main Business

Table 96. CFM Latest Developments

Table 97. Bright Tech Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 98. Bright Tech Shell Core Machines Product Portfolios and Specifications

Table 99. Bright Tech Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 100. Bright Tech Main Business

Table 101. Bright Tech Latest Developments

Table 102. Saathi Foundry Solution Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 103. Saathi Foundry Solution Shell Core Machines Product Portfolios and Specifications

Table 104. Saathi Foundry Solution Shell Core Machines Sales (Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 105. Saathi Foundry Solution Main Business

Table 106. Saathi Foundry Solution Latest Developments

Table 107. V.P. Foundry Equipment Basic Information, Shell Core Machines
Manufacturing Base, Sales Area and Its Competitors

Table 108. V.P. Foundry Equipment Shell Core Machines Product Portfolios and
Specifications

Table 109. V.P. Foundry Equipment Shell Core Machines Sales (Units), Revenue (\$
Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 110. V.P. Foundry Equipment Main Business

Table 111. V.P. Foundry Equipment Latest Developments

Table 112. Kelsons Engineers & Fabricators Basic Information, Shell Core Machines
Manufacturing Base, Sales Area and Its Competitors

Table 113. Kelsons Engineers & Fabricators Shell Core Machines Product Portfolios
and Specifications

Table 114. Kelsons Engineers & Fabricators Shell Core Machines Sales (Units),
Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 115. Kelsons Engineers & Fabricators Main Business

Table 116. Kelsons Engineers & Fabricators Latest Developments

Table 117. Simpson Basic Information, Shell Core Machines Manufacturing Base, Sales
Area and Its Competitors

Table 118. Simpson Shell Core Machines Product Portfolios and Specifications

Table 119. Simpson Shell Core Machines Sales (Units), Revenue (\$ Million), Price
(US\$/Unit) and Gross Margin (2020-2025)

Table 120. Simpson Main Business

Table 121. Simpson Latest Developments

Table 122. B&P Basic Information, Shell Core Machines Manufacturing Base, Sales
Area and Its Competitors

Table 123. B&P Shell Core Machines Product Portfolios and Specifications

Table 124. B&P Shell Core Machines Sales (Units), Revenue (\$ Million), Price
(US\$/Unit) and Gross Margin (2020-2025)

Table 125. B&P Main Business

Table 126. B&P Latest Developments

Table 127. DEPENDABLE Basic Information, Shell Core Machines Manufacturing Base,
Sales Area and Its Competitors

Table 128. DEPENDABLE Shell Core Machines Product Portfolios and Specifications

Table 129. DEPENDABLE Shell Core Machines Sales (Units), Revenue (\$ Million),
Price (US\$/Unit) and Gross Margin (2020-2025)

Table 130. DEPENDABLE Main Business

Table 131. DEPENDABLE Latest Developments

Table 132. FERODYNE Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 133. FERODYNE Shell Core Machines Product Portfolios and Specifications

Table 134. FERODYNE Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 135. FERODYNE Main Business

Table 136. FERODYNE Latest Developments

Table 137. FOUNDRY AUTOMATION Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 138. FOUNDRY AUTOMATION Shell Core Machines Product Portfolios and Specifications

Table 139. FOUNDRY AUTOMATION Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 140. FOUNDRY AUTOMATION Main Business

Table 141. FOUNDRY AUTOMATION Latest Developments

Table 142. Galaxy Machine Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 143. Galaxy Machine Shell Core Machines Product Portfolios and Specifications

Table 144. Galaxy Machine Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 145. Galaxy Machine Main Business

Table 146. Galaxy Machine Latest Developments

Table 147. Navdis Engineers Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 148. Navdis Engineers Shell Core Machines Product Portfolios and Specifications

Table 149. Navdis Engineers Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 150. Navdis Engineers Main Business

Table 151. Navdis Engineers Latest Developments

Table 152. Durga Lakshmi Equipments Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 153. Durga Lakshmi Equipments Shell Core Machines Product Portfolios and Specifications

Table 154. Durga Lakshmi Equipments Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 155. Durga Lakshmi Equipments Main Business

Table 156. Durga Lakshmi Equipments Latest Developments

Table 157. Alumco Basic Information, Shell Core Machines Manufacturing Base, Sales

Area and Its Competitors

Table 158. Alumco Shell Core Machines Product Portfolios and Specifications

Table 159. Alumco Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 160. Alumco Main Business

Table 161. Alumco Latest Developments

Table 162. Melling Engineered Aluminium Castings Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 163. Melling Engineered Aluminium Castings Shell Core Machines Product Portfolios and Specifications

Table 164. Melling Engineered Aluminium Castings Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 165. Melling Engineered Aluminium Castings Main Business

Table 166. Melling Engineered Aluminium Castings Latest Developments

Table 167. Kao Kuen Industrial Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 168. Kao Kuen Industrial Shell Core Machines Product Portfolios and Specifications

Table 169. Kao Kuen Industrial Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 170. Kao Kuen Industrial Main Business

Table 171. Kao Kuen Industrial Latest Developments

Table 172. MESC Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 173. MESC Shell Core Machines Product Portfolios and Specifications

Table 174. MESC Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 175. MESC Main Business

Table 176. MESC Latest Developments

Table 177. DISA Group Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 178. DISA Group Shell Core Machines Product Portfolios and Specifications

Table 179. DISA Group Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 180. DISA Group Main Business

Table 181. DISA Group Latest Developments

Table 182. Loramendi Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 183. Loramendi Shell Core Machines Product Portfolios and Specifications

Table 184. Loramendi Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 185. Loramendi Main Business

Table 186. Loramendi Latest Developments

Table 187. Omega Foundry Machinery Basic Information, Shell Core Machines Manufacturing Base, Sales Area and Its Competitors

Table 188. Omega Foundry Machinery Shell Core Machines Product Portfolios and Specifications

Table 189. Omega Foundry Machinery Shell Core Machines Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 190. Omega Foundry Machinery Main Business

Table 191. Omega Foundry Machinery Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Shell Core Machines
- Figure 2. Shell Core Machines Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Shell Core Machines Sales Growth Rate 2020-2031 (Units)
- Figure 7. Global Shell Core Machines Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Shell Core Machines Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Shell Core Machines Sales Market Share by Country/Region (2024)
- Figure 10. Shell Core Machines Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Dual Station
- Figure 12. Product Picture of Singal Station
- Figure 13. Global Shell Core Machines Sales Market Share by Type in 2025
- Figure 14. Global Shell Core Machines Revenue Market Share by Type (2020-2025)
- Figure 15. Shell Core Machines Consumed in Automobile
- Figure 16. Global Shell Core Machines Market: Automobile (2020-2025) & (Units)
- Figure 17. Shell Core Machines Consumed in Aerospace
- Figure 18. Global Shell Core Machines Market: Aerospace (2020-2025) & (Units)
- Figure 19. Shell Core Machines Consumed in Mechanical
- Figure 20. Global Shell Core Machines Market: Mechanical (2020-2025) & (Units)
- Figure 21. Shell Core Machines Consumed in Others
- Figure 22. Global Shell Core Machines Market: Others (2020-2025) & (Units)
- Figure 23. Global Shell Core Machines Sale Market Share by Application (2024)
- Figure 24. Global Shell Core Machines Revenue Market Share by Application in 2025
- Figure 25. Shell Core Machines Sales by Company in 2025 (Units)
- Figure 26. Global Shell Core Machines Sales Market Share by Company in 2025
- Figure 27. Shell Core Machines Revenue by Company in 2025 (\$ millions)
- Figure 28. Global Shell Core Machines Revenue Market Share by Company in 2025
- Figure 29. Global Shell Core Machines Sales Market Share by Geographic Region (2020-2025)
- Figure 30. Global Shell Core Machines Revenue Market Share by Geographic Region in 2025
- Figure 31. Americas Shell Core Machines Sales 2020-2025 (Units)

- Figure 32. Americas Shell Core Machines Revenue 2020-2025 (\$ millions)
- Figure 33. APAC Shell Core Machines Sales 2020-2025 (Units)
- Figure 34. APAC Shell Core Machines Revenue 2020-2025 (\$ millions)
- Figure 35. Europe Shell Core Machines Sales 2020-2025 (Units)
- Figure 36. Europe Shell Core Machines Revenue 2020-2025 (\$ millions)
- Figure 37. Middle East & Africa Shell Core Machines Sales 2020-2025 (Units)
- Figure 38. Middle East & Africa Shell Core Machines Revenue 2020-2025 (\$ millions)
- Figure 39. Americas Shell Core Machines Sales Market Share by Country in 2025
- Figure 40. Americas Shell Core Machines Revenue Market Share by Country (2020-2025)
- Figure 41. Americas Shell Core Machines Sales Market Share by Type (2020-2025)
- Figure 42. Americas Shell Core Machines Sales Market Share by Application (2020-2025)
- Figure 43. United States Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 44. Canada Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 45. Mexico Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 46. Brazil Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 47. APAC Shell Core Machines Sales Market Share by Region in 2025
- Figure 48. APAC Shell Core Machines Revenue Market Share by Region (2020-2025)
- Figure 49. APAC Shell Core Machines Sales Market Share by Type (2020-2025)
- Figure 50. APAC Shell Core Machines Sales Market Share by Application (2020-2025)
- Figure 51. China Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 52. Japan Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 53. South Korea Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 54. Southeast Asia Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 55. India Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 56. Australia Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 57. China Taiwan Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 58. Europe Shell Core Machines Sales Market Share by Country in 2025
- Figure 59. Europe Shell Core Machines Revenue Market Share by Country (2020-2025)
- Figure 60. Europe Shell Core Machines Sales Market Share by Type (2020-2025)
- Figure 61. Europe Shell Core Machines Sales Market Share by Application (2020-2025)
- Figure 62. Germany Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 63. France Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 64. UK Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 65. Italy Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 66. Russia Shell Core Machines Revenue Growth 2020-2025 (\$ millions)
- Figure 67. Middle East & Africa Shell Core Machines Sales Market Share by Country (2020-2025)

Figure 68. Middle East & Africa Shell Core Machines Sales Market Share by Type (2020-2025)

Figure 69. Middle East & Africa Shell Core Machines Sales Market Share by Application (2020-2025)

Figure 70. Egypt Shell Core Machines Revenue Growth 2020-2025 (\$ millions)

Figure 71. South Africa Shell Core Machines Revenue Growth 2020-2025 (\$ millions)

Figure 72. Israel Shell Core Machines Revenue Growth 2020-2025 (\$ millions)

Figure 73. Turkey Shell Core Machines Revenue Growth 2020-2025 (\$ millions)

Figure 74. GCC Countries Shell Core Machines Revenue Growth 2020-2025 (\$ millions)

Figure 75. Manufacturing Cost Structure Analysis of Shell Core Machines in 2025

Figure 76. Manufacturing Process Analysis of Shell Core Machines

Figure 77. Industry Chain Structure of Shell Core Machines

Figure 78. Channels of Distribution

Figure 79. Global Shell Core Machines Sales Market Forecast by Region (2026-2031)

Figure 80. Global Shell Core Machines Revenue Market Share Forecast by Region (2026-2031)

Figure 81. Global Shell Core Machines Sales Market Share Forecast by Type (2026-2031)

Figure 82. Global Shell Core Machines Revenue Market Share Forecast by Type (2026-2031)

Figure 83. Global Shell Core Machines Sales Market Share Forecast by Application (2026-2031)

Figure 84. Global Shell Core Machines Revenue Market Share Forecast by Application (2026-2031)

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