

Global Hydrometallurgical Processing Units Market Growth 2025-2031

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Abstracts

The global Hydrometallurgical Processing Units market size is predicted to grow from US\$ 1894 million in 2025 to US\$ 2689 million in 2031; it is expected to grow at a CAGR of 6.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Hydrometallurgical Processing Units are integrated industrial systems used to extract and refine metals from ores, concentrates, recycled materials, or industrial residues using aqueous chemistry. These units employ processes such as leaching, solution concentration and purification, and metal recovery through precipitation, solvent extraction, or electro-winning. Typical configurations include reactors, tanks, filtration systems, mixers, heat exchangers, and automation controls. They are critical in processing metals like copper, nickel, cobalt, zinc, rare earths, lithium, and uranium, especially in contexts where pyrometallurgical methods are inefficient or environmentally undesirable. Hydrometallurgical units are widely used in mining, battery recycling, electronic waste recovery, and specialty chemical production.

Hydrometallurgical Processing Units typically operate at leaching temperatures ranging from 25 °C to 250 °C and pressures up to 50 bar, especially in high-pressure autoclave systems for metals like nickel and cobalt. The pH environment is adjusted from strongly acidic (pH 0–2) to mildly alkaline (up to pH 10) depending on the metal and leaching chemistry. Residence times can vary from several minutes to hours, with solid-liquid ratios commonly between 1:4 and 1:10. These units handle flow rates from a few liters per minute (pilot scale) to thousands of cubic meters per day (industrial scale), and

achieve solvent extraction efficiencies of 90–99% and metal recovery rates typically between 85–99%. Filtration and thickening capacities are rated in tons per hour, depending on the equipment type and slurry characteristics.

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

This Insight Report provides a comprehensive analysis of the global Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrometallurgical Processing Units market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrometallurgical Processing Units market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Leaching Units

Solid-Liquid Separation Units

Purification Units

Metal Recovery Units

Auxiliary Units

Segmentation by Application:

Mining Industry

Battery Production

E-waste Recycling

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.

FLSmidth

Metso

Outotec

Bechtel

Sepro Systems

Tenova

Technip Energies

Sandvik

John Deere

Sinosteel Engineering

Zijin Mining Group

China ENFI Engineering

Toyo Engineering

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrometallurgical Processing Units market?

What factors are driving Hydrometallurgical Processing Units market growth, globally and by region?

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

How do Hydrometallurgical Processing Units market opportunities vary by end market size?

How does Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for Hydrometallurgical Processing Units by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for Hydrometallurgical Processing Units by Country/Region, 2020, 2024 & 2031

2.2 Hydrometallurgical Processing Units Segment by Type

- 2.2.1 Leaching Units
- 2.2.2 Solid-Liquid Separation Units
- 2.2.3 Purification Units
- 2.2.4 Metal Recovery Units
- 2.2.5 Auxiliary Units

2.3 Hydrometallurgical Processing Units Sales by Type

- 2.3.1 Global Hydrometallurgical Processing Units Sales Market Share by Type (2020-2025)
- 2.3.2 Global Hydrometallurgical Processing Units Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global Hydrometallurgical Processing Units Sale Price by Type (2020-2025)

2.4 Hydrometallurgical Processing Units Segment by Application

- 2.4.1 Mining Industry
- 2.4.2 Battery Production
- 2.4.3 E-waste Recycling
- 2.4.4 Others

2.5 Hydrometallurgical Processing Units Sales by Application

2.5.1 Global Hydrometallurgical Processing Units Sale Market Share by Application (2020-2025)

2.5.2 Global Hydrometallurgical Processing Units Revenue and Market Share by Application (2020-2025)

2.5.3 Global Hydrometallurgical Processing Units Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Hydrometallurgical Processing Units Breakdown Data by Company

3.1.1 Global Hydrometallurgical Processing Units Annual Sales by Company (2020-2025)

3.1.2 Global Hydrometallurgical Processing Units Sales Market Share by Company (2020-2025)

3.2 Global Hydrometallurgical Processing Units Annual Revenue by Company (2020-2025)

3.2.1 Global Hydrometallurgical Processing Units Revenue by Company (2020-2025)

3.2.2 Global Hydrometallurgical Processing Units Revenue Market Share by Company (2020-2025)

3.3 Global Hydrometallurgical Processing Units Sale Price by Company

3.4 Key Manufacturers Hydrometallurgical Processing Units Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Hydrometallurgical Processing Units Product Location Distribution

3.4.2 Players Hydrometallurgical Processing Units 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 HYDROMETALLURGICAL PROCESSING UNITS BY GEOGRAPHIC REGION

4.1 World Historic Hydrometallurgical Processing Units Market Size by Geographic Region (2020-2025)

4.1.1 Global Hydrometallurgical Processing Units Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Hydrometallurgical Processing Units Annual Revenue by Geographic

Region (2020-2025)

4.2 World Historic Hydrometallurgical Processing Units Market Size by Country/Region (2020-2025)

4.2.1 Global Hydrometallurgical Processing Units Annual Sales by Country/Region (2020-2025)

4.2.2 Global Hydrometallurgical Processing Units Annual Revenue by Country/Region (2020-2025)

4.3 Americas Hydrometallurgical Processing Units Sales Growth

4.4 APAC Hydrometallurgical Processing Units Sales Growth

4.5 Europe Hydrometallurgical Processing Units Sales Growth

4.6 Middle East & Africa Hydrometallurgical Processing Units Sales Growth

5 AMERICAS

5.1 Americas Hydrometallurgical Processing Units Sales by Country

5.1.1 Americas Hydrometallurgical Processing Units Sales by Country (2020-2025)

5.1.2 Americas Hydrometallurgical Processing Units Revenue by Country (2020-2025)

5.2 Americas Hydrometallurgical Processing Units Sales by Type (2020-2025)

5.3 Americas Hydrometallurgical Processing Units Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Hydrometallurgical Processing Units Sales by Region

6.1.1 APAC Hydrometallurgical Processing Units Sales by Region (2020-2025)

6.1.2 APAC Hydrometallurgical Processing Units Revenue by Region (2020-2025)

6.2 APAC Hydrometallurgical Processing Units Sales by Type (2020-2025)

6.3 APAC Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units by Country

7.1.1 Europe Hydrometallurgical Processing Units Sales by Country (2020-2025)

7.1.2 Europe Hydrometallurgical Processing Units Revenue by Country (2020-2025)

7.2 Europe Hydrometallurgical Processing Units Sales by Type (2020-2025)

7.3 Europe Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units by Country

8.1.1 Middle East & Africa Hydrometallurgical Processing Units Sales by Country (2020-2025)

8.1.2 Middle East & Africa Hydrometallurgical Processing Units Revenue by Country (2020-2025)

8.2 Middle East & Africa Hydrometallurgical Processing Units Sales by Type (2020-2025)

8.3 Middle East & Africa Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units
- 10.3 Manufacturing Process Analysis of Hydrometallurgical Processing Units
- 10.4 Industry Chain Structure of Hydrometallurgical Processing Units

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Hydrometallurgical Processing Units Distributors
- 11.3 Hydrometallurgical Processing Units Customer

12 WORLD FORECAST REVIEW FOR HYDROMETALLURGICAL PROCESSING UNITS BY GEOGRAPHIC REGION

- 12.1 Global Hydrometallurgical Processing Units Market Size Forecast by Region
 - 12.1.1 Global Hydrometallurgical Processing Units Forecast by Region (2026-2031)
 - 12.1.2 Global Hydrometallurgical Processing Units 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 Hydrometallurgical Processing Units Forecast by Type (2026-2031)
- 12.7 Global Hydrometallurgical Processing Units Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 FLSmidth
 - 13.1.1 FLSmidth Company Information
 - 13.1.2 FLSmidth Hydrometallurgical Processing Units Product Portfolios and Specifications
 - 13.1.3 FLSmidth Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 FLSmidth Main Business Overview
 - 13.1.5 FLSmidth Latest Developments
- 13.2 Metso
 - 13.2.1 Metso Company Information
 - 13.2.2 Metso Hydrometallurgical Processing Units Product Portfolios and

Specifications

13.2.3 Metso Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Metso Main Business Overview

13.2.5 Metso Latest Developments

13.3 Outotec

13.3.1 Outotec Company Information

13.3.2 Outotec Hydrometallurgical Processing Units Product Portfolios and Specifications

13.3.3 Outotec Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Outotec Main Business Overview

13.3.5 Outotec Latest Developments

13.4 Bechtel

13.4.1 Bechtel Company Information

13.4.2 Bechtel Hydrometallurgical Processing Units Product Portfolios and Specifications

13.4.3 Bechtel Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Bechtel Main Business Overview

13.4.5 Bechtel Latest Developments

13.5 Sepro Systems

13.5.1 Sepro Systems Company Information

13.5.2 Sepro Systems Hydrometallurgical Processing Units Product Portfolios and Specifications

13.5.3 Sepro Systems Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Sepro Systems Main Business Overview

13.5.5 Sepro Systems Latest Developments

13.6 Tenova

13.6.1 Tenova Company Information

13.6.2 Tenova Hydrometallurgical Processing Units Product Portfolios and Specifications

13.6.3 Tenova Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Tenova Main Business Overview

13.6.5 Tenova Latest Developments

13.7 Technip Energies

13.7.1 Technip Energies Company Information

13.7.2 Technip Energies Hydrometallurgical Processing Units Product Portfolios and Specifications

13.7.3 Technip Energies Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Technip Energies Main Business Overview

13.7.5 Technip Energies Latest Developments

13.8 Sandvik

13.8.1 Sandvik Company Information

13.8.2 Sandvik Hydrometallurgical Processing Units Product Portfolios and Specifications

13.8.3 Sandvik Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.8.4 Sandvik Main Business Overview

13.8.5 Sandvik Latest Developments

13.9 John Deere

13.9.1 John Deere Company Information

13.9.2 John Deere Hydrometallurgical Processing Units Product Portfolios and Specifications

13.9.3 John Deere Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 John Deere Main Business Overview

13.9.5 John Deere Latest Developments

13.10 Sinosteel Engineering

13.10.1 Sinosteel Engineering Company Information

13.10.2 Sinosteel Engineering Hydrometallurgical Processing Units Product Portfolios and Specifications

13.10.3 Sinosteel Engineering Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 Sinosteel Engineering Main Business Overview

13.10.5 Sinosteel Engineering Latest Developments

13.11 Zijin Mining Group

13.11.1 Zijin Mining Group Company Information

13.11.2 Zijin Mining Group Hydrometallurgical Processing Units Product Portfolios and Specifications

13.11.3 Zijin Mining Group Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Zijin Mining Group Main Business Overview

13.11.5 Zijin Mining Group Latest Developments

13.12 China ENFI Engineering

13.12.1 China ENFI Engineering Company Information

13.12.2 China ENFI Engineering Hydrometallurgical Processing Units Product Portfolios and Specifications

13.12.3 China ENFI Engineering Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 China ENFI Engineering Main Business Overview

13.12.5 China ENFI Engineering Latest Developments

13.13 Toyo Engineering

13.13.1 Toyo Engineering Company Information

13.13.2 Toyo Engineering Hydrometallurgical Processing Units Product Portfolios and Specifications

13.13.3 Toyo Engineering Hydrometallurgical Processing Units Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Toyo Engineering Main Business Overview

13.13.5 Toyo Engineering Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Hydrometallurgical Processing Units Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Hydrometallurgical Processing Units Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Leaching Units

Table 4. Major Players of Solid-Liquid Separation Units

Table 5. Major Players of Purification Units

Table 6. Major Players of Metal Recovery Units

Table 7. Major Players of Auxiliary Units

Table 8. Global Hydrometallurgical Processing Units Sales by Type (2020-2025) & (K Units)

Table 9. Global Hydrometallurgical Processing Units Sales Market Share by Type (2020-2025)

Table 10. Global Hydrometallurgical Processing Units Revenue by Type (2020-2025) & (\$ million)

Table 11. Global Hydrometallurgical Processing Units Revenue Market Share by Type (2020-2025)

Table 12. Global Hydrometallurgical Processing Units Sale Price by Type (2020-2025) & (US\$/Unit)

Table 13. Global Hydrometallurgical Processing Units Sale by Application (2020-2025) & (K Units)

Table 14. Global Hydrometallurgical Processing Units Sale Market Share by Application (2020-2025)

Table 15. Global Hydrometallurgical Processing Units Revenue by Application (2020-2025) & (\$ million)

Table 16. Global Hydrometallurgical Processing Units Revenue Market Share by Application (2020-2025)

Table 17. Global Hydrometallurgical Processing Units Sale Price by Application (2020-2025) & (US\$/Unit)

Table 18. Global Hydrometallurgical Processing Units Sales by Company (2020-2025) & (K Units)

Table 19. Global Hydrometallurgical Processing Units Sales Market Share by Company (2020-2025)

Table 20. Global Hydrometallurgical Processing Units Revenue by Company (2020-2025) & (\$ millions)

Table 21. Global Hydrometallurgical Processing Units Revenue Market Share by Company (2020-2025)

Table 22. Global Hydrometallurgical Processing Units Sale Price by Company (2020-2025) & (US\$/Unit)

Table 23. Key Manufacturers Hydrometallurgical Processing Units Producing Area Distribution and Sales Area

Table 24. Players Hydrometallurgical Processing Units Products Offered

Table 25. Hydrometallurgical Processing Units Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 26. New Products and Potential Entrants

Table 27. Market M&A Activity & Strategy

Table 28. Global Hydrometallurgical Processing Units Sales by Geographic Region (2020-2025) & (K Units)

Table 29. Global Hydrometallurgical Processing Units Sales Market Share Geographic Region (2020-2025)

Table 30. Global Hydrometallurgical Processing Units Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 31. Global Hydrometallurgical Processing Units Revenue Market Share by Geographic Region (2020-2025)

Table 32. Global Hydrometallurgical Processing Units Sales by Country/Region (2020-2025) & (K Units)

Table 33. Global Hydrometallurgical Processing Units Sales Market Share by Country/Region (2020-2025)

Table 34. Global Hydrometallurgical Processing Units Revenue by Country/Region (2020-2025) & (\$ millions)

Table 35. Global Hydrometallurgical Processing Units Revenue Market Share by Country/Region (2020-2025)

Table 36. Americas Hydrometallurgical Processing Units Sales by Country (2020-2025) & (K Units)

Table 37. Americas Hydrometallurgical Processing Units Sales Market Share by Country (2020-2025)

Table 38. Americas Hydrometallurgical Processing Units Revenue by Country (2020-2025) & (\$ millions)

Table 39. Americas Hydrometallurgical Processing Units Sales by Type (2020-2025) & (K Units)

Table 40. Americas Hydrometallurgical Processing Units Sales by Application (2020-2025) & (K Units)

Table 41. APAC Hydrometallurgical Processing Units Sales by Region (2020-2025) & (K Units)

Table 42. APAC Hydrometallurgical Processing Units Sales Market Share by Region (2020-2025)

Table 43. APAC Hydrometallurgical Processing Units Revenue by Region (2020-2025) & (\$ millions)

Table 44. APAC Hydrometallurgical Processing Units Sales by Type (2020-2025) & (K Units)

Table 45. APAC Hydrometallurgical Processing Units Sales by Application (2020-2025) & (K Units)

Table 46. Europe Hydrometallurgical Processing Units Sales by Country (2020-2025) & (K Units)

Table 47. Europe Hydrometallurgical Processing Units Revenue by Country (2020-2025) & (\$ millions)

Table 48. Europe Hydrometallurgical Processing Units Sales by Type (2020-2025) & (K Units)

Table 49. Europe Hydrometallurgical Processing Units Sales by Application (2020-2025) & (K Units)

Table 50. Middle East & Africa Hydrometallurgical Processing Units Sales by Country (2020-2025) & (K Units)

Table 51. Middle East & Africa Hydrometallurgical Processing Units Revenue Market Share by Country (2020-2025)

Table 52. Middle East & Africa Hydrometallurgical Processing Units Sales by Type (2020-2025) & (K Units)

Table 53. Middle East & Africa Hydrometallurgical Processing Units Sales by Application (2020-2025) & (K Units)

Table 54. Key Market Drivers & Growth Opportunities of Hydrometallurgical Processing Units

Table 55. Key Market Challenges & Risks of Hydrometallurgical Processing Units

Table 56. Key Industry Trends of Hydrometallurgical Processing Units

Table 57. Hydrometallurgical Processing Units Raw Material

Table 58. Key Suppliers of Raw Materials

Table 59. Hydrometallurgical Processing Units Distributors List

Table 60. Hydrometallurgical Processing Units Customer List

Table 61. Global Hydrometallurgical Processing Units Sales Forecast by Region (2026-2031) & (K Units)

Table 62. Global Hydrometallurgical Processing Units Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 63. Americas Hydrometallurgical Processing Units Sales Forecast by Country (2026-2031) & (K Units)

Table 64. Americas Hydrometallurgical Processing Units Annual Revenue Forecast by

Country (2026-2031) & (\$ millions)

Table 65. APAC Hydrometallurgical Processing Units Sales Forecast by Region (2026-2031) & (K Units)

Table 66. APAC Hydrometallurgical Processing Units Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 67. Europe Hydrometallurgical Processing Units Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Europe Hydrometallurgical Processing Units Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Middle East & Africa Hydrometallurgical Processing Units Sales Forecast by Country (2026-2031) & (K Units)

Table 70. Middle East & Africa Hydrometallurgical Processing Units Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 71. Global Hydrometallurgical Processing Units Sales Forecast by Type (2026-2031) & (K Units)

Table 72. Global Hydrometallurgical Processing Units Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 73. Global Hydrometallurgical Processing Units Sales Forecast by Application (2026-2031) & (K Units)

Table 74. Global Hydrometallurgical Processing Units Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 75. FLSmidth Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 76. FLSmidth Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 77. FLSmidth Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 78. FLSmidth Main Business

Table 79. FLSmidth Latest Developments

Table 80. Metso Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 81. Metso Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 82. Metso Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 83. Metso Main Business

Table 84. Metso Latest Developments

Table 85. Outotec Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

- Table 86. Outotec Hydrometallurgical Processing Units Product Portfolios and Specifications
- Table 87. Outotec Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 88. Outotec Main Business
- Table 89. Outotec Latest Developments
- Table 90. Bechtel Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors
- Table 91. Bechtel Hydrometallurgical Processing Units Product Portfolios and Specifications
- Table 92. Bechtel Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 93. Bechtel Main Business
- Table 94. Bechtel Latest Developments
- Table 95. Sepro Systems Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors
- Table 96. Sepro Systems Hydrometallurgical Processing Units Product Portfolios and Specifications
- Table 97. Sepro Systems Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 98. Sepro Systems Main Business
- Table 99. Sepro Systems Latest Developments
- Table 100. Tenova Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors
- Table 101. Tenova Hydrometallurgical Processing Units Product Portfolios and Specifications
- Table 102. Tenova Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 103. Tenova Main Business
- Table 104. Tenova Latest Developments
- Table 105. Technip Energies Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors
- Table 106. Technip Energies Hydrometallurgical Processing Units Product Portfolios and Specifications
- Table 107. Technip Energies Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 108. Technip Energies Main Business
- Table 109. Technip Energies Latest Developments
- Table 110. Sandvik Basic Information, Hydrometallurgical Processing Units

Manufacturing Base, Sales Area and Its Competitors

Table 111. Sandvik Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 112. Sandvik Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 113. Sandvik Main Business

Table 114. Sandvik Latest Developments

Table 115. John Deere Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 116. John Deere Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 117. John Deere Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 118. John Deere Main Business

Table 119. John Deere Latest Developments

Table 120. Sinosteel Engineering Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 121. Sinosteel Engineering Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 122. Sinosteel Engineering Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 123. Sinosteel Engineering Main Business

Table 124. Sinosteel Engineering Latest Developments

Table 125. Zijin Mining Group Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 126. Zijin Mining Group Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 127. Zijin Mining Group Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 128. Zijin Mining Group Main Business

Table 129. Zijin Mining Group Latest Developments

Table 130. China ENFI Engineering Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 131. China ENFI Engineering Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 132. China ENFI Engineering Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 133. China ENFI Engineering Main Business

Table 134. China ENFI Engineering Latest Developments

Table 135. Toyo Engineering Basic Information, Hydrometallurgical Processing Units Manufacturing Base, Sales Area and Its Competitors

Table 136. Toyo Engineering Hydrometallurgical Processing Units Product Portfolios and Specifications

Table 137. Toyo Engineering Hydrometallurgical Processing Units Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 138. Toyo Engineering Main Business

Table 139. Toyo Engineering Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Hydrometallurgical Processing Units
- Figure 2. Hydrometallurgical Processing Units Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Hydrometallurgical Processing Units Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Hydrometallurgical Processing Units Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Hydrometallurgical Processing Units Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Hydrometallurgical Processing Units Sales Market Share by Country/Region (2024)
- Figure 10. Hydrometallurgical Processing Units Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Leaching Units
- Figure 12. Product Picture of Solid-Liquid Separation Units
- Figure 13. Product Picture of Purification Units
- Figure 14. Product Picture of Metal Recovery Units
- Figure 15. Product Picture of Auxiliary Units
- Figure 16. Global Hydrometallurgical Processing Units Sales Market Share by Type in 2025
- Figure 17. Global Hydrometallurgical Processing Units Revenue Market Share by Type (2020-2025)
- Figure 18. Hydrometallurgical Processing Units Consumed in Mining Industry
- Figure 19. Global Hydrometallurgical Processing Units Market: Mining Industry (2020-2025) & (K Units)
- Figure 20. Hydrometallurgical Processing Units Consumed in Battery Production
- Figure 21. Global Hydrometallurgical Processing Units Market: Battery Production (2020-2025) & (K Units)
- Figure 22. Hydrometallurgical Processing Units Consumed in E-waste Recycling
- Figure 23. Global Hydrometallurgical Processing Units Market: E-waste Recycling (2020-2025) & (K Units)
- Figure 24. Hydrometallurgical Processing Units Consumed in Others
- Figure 25. Global Hydrometallurgical Processing Units Market: Others (2020-2025) & (K

Units)

Figure 26. Global Hydrometallurgical Processing Units Sale Market Share by Application (2024)

Figure 27. Global Hydrometallurgical Processing Units Revenue Market Share by Application in 2025

Figure 28. Hydrometallurgical Processing Units Sales by Company in 2025 (K Units)

Figure 29. Global Hydrometallurgical Processing Units Sales Market Share by Company in 2025

Figure 30. Hydrometallurgical Processing Units Revenue by Company in 2025 (\$ millions)

Figure 31. Global Hydrometallurgical Processing Units Revenue Market Share by Company in 2025

Figure 32. Global Hydrometallurgical Processing Units Sales Market Share by Geographic Region (2020-2025)

Figure 33. Global Hydrometallurgical Processing Units Revenue Market Share by Geographic Region in 2025

Figure 34. Americas Hydrometallurgical Processing Units Sales 2020-2025 (K Units)

Figure 35. Americas Hydrometallurgical Processing Units Revenue 2020-2025 (\$ millions)

Figure 36. APAC Hydrometallurgical Processing Units Sales 2020-2025 (K Units)

Figure 37. APAC Hydrometallurgical Processing Units Revenue 2020-2025 (\$ millions)

Figure 38. Europe Hydrometallurgical Processing Units Sales 2020-2025 (K Units)

Figure 39. Europe Hydrometallurgical Processing Units Revenue 2020-2025 (\$ millions)

Figure 40. Middle East & Africa Hydrometallurgical Processing Units Sales 2020-2025 (K Units)

Figure 41. Middle East & Africa Hydrometallurgical Processing Units Revenue 2020-2025 (\$ millions)

Figure 42. Americas Hydrometallurgical Processing Units Sales Market Share by Country in 2025

Figure 43. Americas Hydrometallurgical Processing Units Revenue Market Share by Country (2020-2025)

Figure 44. Americas Hydrometallurgical Processing Units Sales Market Share by Type (2020-2025)

Figure 45. Americas Hydrometallurgical Processing Units Sales Market Share by Application (2020-2025)

Figure 46. United States Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 47. Canada Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 48. Mexico Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 49. Brazil Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 50. APAC Hydrometallurgical Processing Units Sales Market Share by Region in 2025

Figure 51. APAC Hydrometallurgical Processing Units Revenue Market Share by Region (2020-2025)

Figure 52. APAC Hydrometallurgical Processing Units Sales Market Share by Type (2020-2025)

Figure 53. APAC Hydrometallurgical Processing Units Sales Market Share by Application (2020-2025)

Figure 54. China Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 55. Japan Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 56. South Korea Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 57. Southeast Asia Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 58. India Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 59. Australia Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 60. China Taiwan Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 61. Europe Hydrometallurgical Processing Units Sales Market Share by Country in 2025

Figure 62. Europe Hydrometallurgical Processing Units Revenue Market Share by Country (2020-2025)

Figure 63. Europe Hydrometallurgical Processing Units Sales Market Share by Type (2020-2025)

Figure 64. Europe Hydrometallurgical Processing Units Sales Market Share by Application (2020-2025)

Figure 65. Germany Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 66. France Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 67. UK Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$

millions)

Figure 68. Italy Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 70. Middle East & Africa Hydrometallurgical Processing Units Sales Market Share by Country (2020-2025)

Figure 71. Middle East & Africa Hydrometallurgical Processing Units Sales Market Share by Type (2020-2025)

Figure 72. Middle East & Africa Hydrometallurgical Processing Units Sales Market Share by Application (2020-2025)

Figure 73. Egypt Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries Hydrometallurgical Processing Units Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Hydrometallurgical Processing Units in 2025

Figure 79. Manufacturing Process Analysis of Hydrometallurgical Processing Units

Figure 80. Industry Chain Structure of Hydrometallurgical Processing Units

Figure 81. Channels of Distribution

Figure 82. Global Hydrometallurgical Processing Units Sales Market Forecast by Region (2026-2031)

Figure 83. Global Hydrometallurgical Processing Units Revenue Market Share Forecast by Region (2026-2031)

Figure 84. Global Hydrometallurgical Processing Units Sales Market Share Forecast by Type (2026-2031)

Figure 85. Global Hydrometallurgical Processing Units Revenue Market Share Forecast by Type (2026-2031)

Figure 86. Global Hydrometallurgical Processing Units Sales Market Share Forecast by Application (2026-2031)

Figure 87. Global Hydrometallurgical Processing Units Revenue Market Share Forecast by Application (2026-2031)

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