

Cryogenic Pump Market by Type (Positive Displacement Pumps, Kinetic Pumps, and Entrapment Pumps), Application (Nitrogen, Hydrogen, Helium, Argon, and Others), and End-Use Industry (Healthcare Industry, Power Generation Industry, Electricals & Electronics Industry, Metallurgy Industry, and Others) - Global Opportunity Analysis and Industry Forecast, 2017-2023

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Abstracts

Cryogenic pump is a special type of centrifugal pump used in industries to pump low-temperature liquids and coolants. It is made up of special elastomers and is hermetically sealed to withstand low temperatures and avoid heat leakage. These pumps consist of one or more impellers and a diffuser. Velocity inside a cryogenic pump is converted into pressure through diffusion process. The cryogenic pump designing technology has uniquely clubbed technological vacuum considerations and cryogenic aspects. They are used for refrigeration purposes with the help of cryogenic gases such as liquid nitrogen, argon, and others. They provide have safety against power breakdown, as they do not require electric supply with liquid cryogenics. The emergence of cryogenic pumps has reduced carbon emission problems. Moreover, properties such as higher isentropic efficiency, radial force balance, minimal maintenance, reliability, no shaft seal & bearings problems, and high safety levels have made them ideal for industrial use. Increase in demand for medical gases, renewable-based generation of electricity, and rise in investments in infrastructure are the major factors that drive the growth of the cryogenic pump market. Furthermore, rise in use of liquefied natural gases in the power generation sector is expected to boost the market growth. In addition, increase in applications of cryogenic pumps in other sectors, such as electronics and chemicals,

supplements the growth of the market. However, reduction of steel plants negatively affects the growth of this market, as cryogenic pumps are widely used in steel plants for transfer of cryogenic gases for industrial use.

The report segments the cryogenic pump market based on type, gas, end-use industry, and region. Based on type, the market is categorized into positive displacement pumps, kinetic pumps, and entrapment pumps. Depending on cryogenic gas, it is classified into nitrogen, hydrogen, helium, argon, and others.

The end-use industry covered in the study include healthcare, power generation industry, electrical & electronics industry, metallurgy industry, and others. Based on region, it is analyzed across North America, Europe, Asia Pacific, and LAMEA.

Major players operating in this market include the following:

Sumitomo Heavy Industries Ltd.

Flowserve Corporation

Ebara Corporation

Linde Group

Nikkiso Co. Ltd.

Brooks Automation Inc.

PHPK Technologies Inc.

Global Tech India Pvt. Ltd.,

Technex Limited

Fives S.A.

KEY BENEFITS FOR STAKEHOLDERS

This report entails the detailed quantitative analysis of current trends and future estimations from 2017 to 2023, which assist to identify the prevailing market opportunities to capitalize on the global cryogenic pump market.

In-depth coverage of the market including drivers, restraints, and opportunities helps professionals to better understand the market behavior.

Detailed study of the strategies of key leaders, partnerships, and acquisitions in the market is provided.

Porter's Five Forces analysis examines the competitive structure of the market and assists strategists in better decision-making.

Pinpoint analysis of geographical segments helps to identify opportunities for growth within the market.

KEY MARKET SEGMENTS

By Type

Positive Displacement Pumps

Kinetic Pumps

Entrapment Pumps

By Gas

Nitrogen

Hydrogen

Helium

Argon

Others

By End-Use Industry

Healthcare Industry

Power Generation Industry

Electrical & Electronics Industry

Metallurgy Industry

Others

By Region

North America

U.S.

Canada

Mexico

Others

Europe

Germany

UK

Italy

Others

Asia-Pacific

China

India

Japan

Others

LAMEA

South Africa

Brazil

Turkey

Others

KEY PLAYERS

ACD LLC

Austin Cryogenics Company

Helix Technology Corp.

Polycold Systems

Ruhrpumpen Inc.

Sehwa Tech Inc.

SHI Cryogenics Group.

Contents

CHAPTER 1 INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS FOR STAKEHOLDERS
- 1.3. KEY MARKET SEGMENTS
- 1.4. RESEARCH METHODOLOGY
 - 1.4.1. Secondary research
 - 1.4.2. Primary research
 - 1.4.3. Analyst tools and models

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1. MARKET SNAPSHOT
 - 2.1.1. Key findings
- 2.2. CXO PERSPECTIVE

CHAPTER 3 MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
 - 3.2.1. Top investment pockets, by end-use industry
- 3.3. PORTERS FIVE FORCES ANALYSIS
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers
 - 3.3.3. Threat of new entrants
 - 3.3.4. Threat of substitutes
 - 3.3.5. Competitive rivalry
- 3.4. MARKET DYNAMICS
 - 3.4.1. Drivers
 - 3.4.1.1. Increase in gas-based power generation
 - 3.4.1.2. Rise in demand for LNG as a fuel in domestic applications
 - 3.4.2. Restraint
 - 3.4.2.1. Fluctuation in steel production
 - 3.4.3. Opportunity
 - 3.4.3.1. Rise in focus on solar power generation

CHAPTER 4 CRYOGENIC PUMPS MARKET, BY TYPE

Cryogenic Pump Market by Type (Positive Displacement Pumps, Kinetic Pumps, and Entrapment Pumps), Application...

4.1. INTRODUCTION

4.1.1. Market size and forecast

4.2. POSITIVE DISPLACEMENT PUMPS

4.2.1. Key market trends, growth factors, and opportunities

4.2.2. Market size and forecast

4.3. KINETIC PUMPS

4.3.1. Key market trends, growth factors, and opportunities

4.3.2. Market size and forecast

4.4. ENTRAPMENT PUMPS

4.4.1. Key market trends, growth factors, and opportunities

4.4.2. Market size and forecast

CHAPTER 5 CRYOGENIC PUMPS MARKET, BY GAS

5.1. INTRODUCTION

5.1.1. Market size and forecast

5.2. NITROGEN

5.2.1. Key market trends, growth factors, and opportunities

5.2.2. Market size and forecast

5.3. HYDROGEN

5.3.1. Key market trends, growth factors, and opportunities

5.3.2. Market size and forecast

5.4. HELIUM

5.4.1. Key market trends, growth factors, and opportunities

5.4.2. Market size and forecast

5.5. ARGON

5.5.1. Key market trends, growth factors, and opportunities

5.5.2. Market size and forecast

5.6. OTHERS

5.6.1. Key market trends, growth factors, and opportunities

5.6.2. Market size and forecast

CHAPTER 6 CRYOGENIC PUMP MARKET, BY END-USE INDUSTRY

6.1. INTRODUCTION

6.1.1. Market size and forecast

6.2. HEALTHCARE INDUSTRY

6.2.1. Key market trends, growth factors, and opportunities

6.2.2. Market size and forecast

6.3. POWER GENERATION INDUSTRY

6.3.1. Key market trends, growth factors, and opportunities

6.3.2. Market size and forecast

6.4. ELECTRICAL & ELECTRONICS INDUSTRY

6.4.1. Key market trends, growth factors, and opportunities

6.4.2. Market size and forecast

6.5. METALLURGY INDUSTRY

6.5.1. Key market trends, growth factors, and opportunities

6.5.2. Market size and forecast

6.6. OTHERS

6.6.1. Key market trends, growth factors, and opportunities

6.6.2. Market size and forecast

CHAPTER 7 CRYOGENIC PUMPS MARKET, BY GEOGRAPHY

7.1. OVERVIEW

7.1.1. Market size and forecast

7.2. NORTH AMERICA

7.2.1. Key market trends, growth factors, and opportunities

7.2.2. Market size and forecast by type

7.2.3. Market size and forecast, by gas

7.2.4. Market size and forecast, by end-use industry

7.2.5. U.S.

7.2.5.1. Market size and forecast, by type

7.2.5.2. Market size and forecast, by gas

7.2.5.3. Market size and forecast, by end-use industry

7.2.6. Canada

7.2.6.1. Market size and forecast, by type

7.2.6.2. Market size and forecast, by gas

7.2.6.3. Market size and forecast, by end-use industry

7.2.7. Mexico

7.2.7.1. Market size and forecast, by type

7.2.7.2. Market size and forecast, by gas

7.2.7.3. Market size and forecast, by end-use industry

7.3. EUROPE

7.3.1. Key market trends, growth factors, and opportunities

7.3.2. Market size and forecast, by type

7.3.3. Market size and forecast, by gas

7.3.4. Market size and forecast, by end-use industry

7.3.5. UK

7.3.5.1. Market size and forecast, by type

7.3.5.2. Market size and forecast, by gas

7.3.5.3. Market size and forecast, by end-use industry

7.3.6. Germany

7.3.6.1. Market size and forecast, by type

7.3.6.2. Market size and forecast, by gas

7.3.6.3. Market size and forecast, by end-use industry

7.3.7. France

7.3.7.1. Market size and forecast, by type

7.3.7.2. Market size and forecast, by gas

7.3.7.3. Market size and forecast, by end-use industry

7.3.8. Spain

7.3.8.1. Market size and forecast, by type

7.3.8.2. Market size and forecast, by gas

7.3.8.3. Market size and forecast, by end-use industry

7.3.9. Italy

7.3.9.1. Market size and forecast, by type

7.3.9.2. Market size and forecast, by gas

7.3.9.3. Market size and forecast, by end-use industry

7.3.10. Rest of Europe

7.3.10.1. Market size and forecast, by type

7.3.10.2. Market size and forecast, by gas

7.3.10.3. Market size and forecast, by end-use industry

7.4. ASIA-PACIFIC

7.4.1. Key market trends, growth factors, and opportunities

7.4.2. Market size and forecast, by type

7.4.3. Market size and forecast, by gas

7.4.4. Market size and forecast, by end-use industry

7.4.5. China

7.4.5.1. Market size and forecast, by type

7.4.5.2. Market size and forecast, by gas

7.4.5.3. Market size and forecast, by end-use industry

7.4.6. Japan

7.4.6.1. Market size and forecast, by type

7.4.6.2. Market size and forecast, by gas

7.4.6.3. Market size and forecast, by end-use industry

7.4.7. India

- 7.4.7.1. Market size and forecast, by type
- 7.4.7.2. Market size and forecast, by gas
- 7.4.7.3. Market size and forecast, by end-use industry
- 7.4.8. Korea
 - 7.4.8.1. Market size and forecast, by type
 - 7.4.8.2. Market size and forecast, by gas
 - 7.4.8.3. Market size and forecast, by end-use industry
- 7.4.9. Australia
 - 7.4.9.1. Market size and forecast, by type
 - 7.4.9.2. Market size and forecast, by gas
 - 7.4.9.3. Market size and forecast, by end-use industry
- 7.4.10. Rest of Asia-Pacific
 - 7.4.10.1. Market size and forecast, by type
 - 7.4.10.2. Market size and forecast, by gas
 - 7.4.10.3. Market size and forecast, by end-use industry
- 7.5. LAMEA
 - 7.5.1. Key market trends, growth factors, and opportunities
 - 7.5.2. Market size and forecast, by type
 - 7.5.3. Market size and forecast, by gas
 - 7.5.4. Market size and forecast, by end-use industry
 - 7.5.5. Brazil
 - 7.5.5.1. Market size and forecast, by type
 - 7.5.5.2. Market size and forecast, by gas
 - 7.5.5.3. Market size and forecast, by end-use industry
 - 7.5.6. South Africa
 - 7.5.6.1. Market size and forecast, by type
 - 7.5.6.2. Market size and forecast, by gas
 - 7.5.6.3. Market size and forecast, by end-use industry
 - 7.5.7. Saudi Arabia
 - 7.5.7.1. Market size and forecast, by type
 - 7.5.7.2. Market size and forecast, by gas
 - 7.5.7.3. Market size and forecast, by end-use industry
 - 7.5.8. Rest of LAMEA
 - 7.5.8.1. Market size and forecast, by type
 - 7.5.8.2. Market size and forecast, by gas
 - 7.5.8.3. Market size and forecast, by end-use industry

CHAPTER 8 COMPANY PROFILES

8.1. BROOKS AUTOMATION INC. (U.S.), 8.1.1. Company overview

- 8.1.2. Company snapshot
- 8.1.3. Operating business segments
- 8.1.4. Product portfolio
- 8.1.5. Business performance
- 8.1.6. Key strategic moves and developments

8.2. EBARA CORPORATION

- 8.2.1. Company overview
- 8.2.2. Company snapshot
- 8.2.3. Operating business segments
- 8.2.4. Product portfolio
- 8.2.5. Business performance

8.3. FIVES S.A.

- 8.3.1. Company overview
- 8.3.2. Company snapshot
- 8.3.3. Operating business segments
- 8.3.4. Product portfolio
- 8.3.5. Business performance

8.4. FLOWSERVE CORPORATION

- 8.4.1. Company overview
- 8.4.2. Company snapshot
- 8.4.3. Operating business segments
- 8.4.4. Product portfolio
- 8.4.5. Business performance
- 8.4.6. Key strategic moves and developments

8.5. GLOBAL TECH INDIA PVT. LTD.

- 8.5.1. Company overview
- 8.5.2. Company snapshot
- 8.5.3. Product portfolio

8.6. LINDE AKTIENGESELLSCHAFT (CRYOSTAR SAS)

- 8.6.1. Company overview
- 8.6.2. Company snapshot
- 8.6.3. Operating business segments
- 8.6.4. Product portfolio
- 8.6.5. Business performance

8.7. NIKKISO CO. LTD. (CRYOQUIP AUSTRALIA AND NIKKISO CRYO INC.)

- 8.7.1. Company overview
- 8.7.2. Company snapshot
- 8.7.3. Operating business segments

- 8.7.4. Product portfolio
- 8.7.5. Business performance
- 8.7.6. Key strategic moves and developments

8.8. PHPK TECHNOLOGIES INC.

- 8.8.1. Company overview
- 8.8.2. Company snapshot
- 8.8.3. Operating business segments
- 8.8.4. Product portfolio

8.9. SUMITOMO HEAVY INDUSTRIES LTD.

- 8.9.1. Company Overview
- 8.9.2. Operating business segments
- 8.9.3. Product portfolio
- 8.9.4. Business performance
- 8.9.5. Key strategic moves and developments

8.10. TECHNEX LIMITED

- 8.10.1. Company overview
- 8.10.2. Company snapshot
- 8.10.3. Operating business segments
- 8.10.4. Product portfolio

List Of Tables

LIST OF TABLES

TABLE 1. GLOBAL CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 2. POSITIVE DISPLACEMENT CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 3. KINETIC CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 4. ENTRAPMENT CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 5. GLOBAL CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 6. NITROGEN-BASED CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 7. HYDROGEN-BASED CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 8. HELIUM-BASED CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 9. ARGON-BASED CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 10. OTHER GAS-BASED CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 11. GLOBAL CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 12. CRYOGENIC PUMPS MARKET FOR HEALTHCARE INDUSTRY, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 13. CRYOGENIC PUMPS MARKET FOR POWER GENERATION INDUSTRY, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 14. WORLDWIDE SMARTPHONE SALES TO END USERS BY VENDORS IN FIRST QUARTER OF 2017 (THOUSAND UNITS)

TABLE 15. CRYOGENIC PUMPS MARKET FOR ELECTRICALS & ELECTRONICS, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 16. CRYOGENIC PUMPS MARKET FOR METALLURGY INDUSTRY, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 17. CRYOGENIC PUMPS MARKET FOR OTHER INDUSTRIES, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 18. CRYOGENIC PUMPS MARKET, BY GEOGRAPHY, 2015-2023 (\$MILLION)

TABLE 19. NORTH AMERICA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 20. NORTH AMERICA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 21. NORTH AMERICA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 22. NORTH AMERICA CRYOGENIC PUMPS MARKET, BY COUNTRY, 2015-2023 (\$MILLION)

TABLE 23. U.S. CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 24. U.S. CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 25. U.S. CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 26. CANADA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 27. CANADA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 28. CANADA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 29. MEXICO CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 30. MEXICO CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 31. MEXICO CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 32. EUROPE CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 33. EUROPE CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 34. EUROPE CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 35. EUROPE CRYOGENIC PUMPS MARKET, BY COUNTRY, 2015-2023 (\$MILLION)

TABLE 36. UK CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 37. UK CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 38. UK CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 39. GERMANY CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 40. GERMANY CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 41. GERMANY CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 42. FRANCE CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 43. FRANCE CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 44. FRANCE CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 45. SPAIN CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 46. SPAIN CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 47. SPAIN CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 48. ITALY CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 49. ITALY CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 50. ITALY CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 51. REST OF EUROPE CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 52. REST OF EUROPE CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 53. REST OF EUROPE CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 54. ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 55. ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 56. ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 57. ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY COUNTRY, 2015-2023 (\$MILLION)
TABLE 58. CHINA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 59. CHINA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 60. CHINA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 61. JAPAN CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 62. JAPAN CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 63. JAPAN CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)
TABLE 64. INDIA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)
TABLE 65. INDIA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)
TABLE 66. INDIA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY, 2015-2023 (\$MILLION)

TABLE 67. KOREA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 68. KOREA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 69. KOREA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY,
2015-2023 (\$MILLION)

TABLE 70. AUSTRALIA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023
(\$MILLION)

TABLE 71. AUSTRALIA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023
(\$MILLION)

TABLE 72. AUSTRALIA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY,
2015-2023 (\$MILLION)

TABLE 73. REST OF ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY TYPE,
2015-2023 (\$MILLION)

TABLE 74. REST OF ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY GAS,
2015-2023 (\$MILLION)

TABLE 75. REST OF ASIA-PACIFIC CRYOGENIC PUMPS MARKET, BY END-USE
INDUSTRY, 2015-2023 (\$MILLION)

TABLE 76. LAMEA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 77. LAMEA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 78. LAMEA CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY,
2015-2023 (\$MILLION)

TABLE 79. LAMEA CRYOGENIC PUMPS MARKET, BY COUNTRY, 2015-2023
(\$MILLION)

TABLE 80. BRAZIL CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023 (\$MILLION)

TABLE 81. BRAZIL CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023 (\$MILLION)

TABLE 82. BRAZIL CRYOGENIC PUMPS MARKET, BY END-USE INDUSTRY,
2015-2023 (\$MILLION)

TABLE 83. SOUTH AFRICA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023
(\$MILLION)

TABLE 84. SOUTH AFRICA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023
(\$MILLION)

TABLE 85. SOUTH AFRICA CRYOGENIC PUMPS MARKET, BY END-USE
INDUSTRY, 2015-2023 (\$MILLION)

TABLE 86. SAUDI ARABIA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023
(\$MILLION)

TABLE 87. SAUDI ARABIA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023
(\$MILLION)

TABLE 88. SAUDI ARABIA CRYOGENIC PUMPS MARKET, BY END-USE
INDUSTRY, 2015-2023 (\$MILLION)

TABLE 89. REST OF LAMEA CRYOGENIC PUMPS MARKET, BY TYPE, 2015-2023

(\$MILLION)

TABLE 90. REST OF LAMEA CRYOGENIC PUMPS MARKET, BY GAS, 2015-2023

(\$MILLION)

TABLE 91. REST OF LAMEA CRYOGENIC PUMPS MARKET, BY END-USE
INDUSTRY, 2015-2023 (\$MILLION)

TABLE 92. BROOKS AUTOMATION INC.: COMPANY SNAPSHOT

TABLE 93. BROOKS AUTOMATION INC.: OPERATING SEGMENTS

TABLE 94. BROOKS AUTOMATION INC.: PRODUCT PORTFOLIO

TABLE 95. EBARA CORPORATION: COMPANY SNAPSHOT

TABLE 96. EBARA CORPORATION: OPERATING SEGMENTS

TABLE 97. EBARA CORPORATION: OPERATING SEGMENTS

TABLE 98. FIVES S.A.: COMPANY SNAPSHOT

TABLE 99. FIVE S.A.: OPERATING SEGMENTS

TABLE 100. FIVE S.A.: OPERATING SEGMENTS

TABLE 101. FLOWSERVE: COMPANY SNAPSHOT

TABLE 102. FLOWSERVE: OPERATING SEGMENTS

TABLE 103. FLOWSERVE: PRODUCT PORTFOLIO

TABLE 104. GLOBAL-TECH: COMPANY SNAPSHOT

TABLE 105. GLOBAL-TECH: PRODUCT PORTFOLIO

TABLE 106. LINDE: COMPANY SNAPSHOT

TABLE 107. LINDE: OPERATING SEGMENTS

TABLE 108. LINDE: PRODUCT PORTFOLIO

TABLE 109. NIKKISO: COMPANY SNAPSHOT

TABLE 110. NIKKISO: OPERATING SEGMENTS

TABLE 111. NIKKISO: PRODUCT PORTFOLIO

TABLE 112. PHPK TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 113. PHPK TECHNOLOGIES: OPERATING SEGMENTS

TABLE 114. PHPK TECHNOLOGIES: PRODUCT PORTFOLIO

TABLE 115. SUMITOMO HEAVY INDUSTRIES, LTD.: COMPANY SNAPSHOT

TABLE 116. SUMITOMO HEAVY INDUSTRIES, LTD.: OPERATING SEGMENT

TABLE 117. SUMITOMO HEAVY INDUSTRIES, LTD.: PRODUCT PORTFOLIO

TABLE 118. TECHNEX LIMITED: COMPANY SNAPSHOT

TABLE 119. TECHNEX LIMITED: OPERATING SEGMENTS

TABLE 120. TECHNEX LIMITED: PRODUCT PORTFOLIO

List Of Figures

LIST OF FIGURES

- FIGURE 1. GLOBAL CRYOGENIC PUMPS MARKET SEGMENTATION
- FIGURE 2. GLOBAL CRYOGENIC PUMPS MARKET, 2016-2023
- FIGURE 3. GLOBAL CRYOGENIC PUMPS MARKET, 2016-2023
- FIGURE 4. TOP INVESTMENT POCKETS, BY END-USE INDUSTRY
- FIGURE 5. HIGH BARGAINING POWER OF SUPPLIERS
- FIGURE 6. LOW BARGAINING POWER OF BUYERS
- FIGURE 7. MODERATE-TO-HIGH THREAT OF NEW ENTRANTS
- FIGURE 8. LOW THREAT OF SUBSTITUTES
- FIGURE 9. MODERATE COMPETITIVE RIVALRY
- FIGURE 10. CRYOGENIC PUMPS MARKET SHARE, BY TYPE, 2015
- FIGURE 11. GLOBAL CRYOGENIC PUMPS MARKET, BY GAS, 2016 (%)
- FIGURE 12. GLOBAL CRYOGENIC PUMP MARKET, END-USE INDUSTRY, 2016 (%)
- FIGURE 13. CRYOGENIC PUMPS MARKET, BY GEOGRAPHY
- FIGURE 14. U.S. CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 15. CANADA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 16. MEXICO CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 17. UK CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 18. GERMANY CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 19. FRANCE CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 20. SPAIN CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 21. ITALY CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 22. REST OF EUROPE CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 23. CHINA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 24. JAPAN CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 25. INDIA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 26. KOREA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 27. AUSTRALIA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 28. REST OF ASIA-PACIFIC CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 29. BRAZIL CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 30. SOUTH AFRICA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 31. SAUDI ARABIA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)
- FIGURE 32. REST OF LAMEA CRYOGENIC PUMPS MARKET, 2015-2023 (\$MILLION)

FIGURE 33. BROOKS AUTOMATION INC.: NET SALES, 2014-2016 (\$MILLION)

FIGURE 34. BROOKS AUTOMATION INC.: REVENUE SHARE BY SEGMENT, 2016 (%)

FIGURE 35. BROOKS AUTOMATION INC.: REVENUE SHARE BY GEOGRAPHY, 2016 (%)

FIGURE 36. EBARA CORPORATION: NET SALES, 2015-2017 (\$MILLION)

FIGURE 37. EBARA CORPORATION: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 38. EBARA CORPORATION: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

FIGURE 39. FIVE S.A.: NET SALES, 2015-2017 (\$MILLION)

FIGURE 40. FIVE S.A.: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 41. FIVE S.A.: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

FIGURE 42. FLOWSERVE: NET SALES, 2014-2016 (\$MILLION)

FIGURE 43. FLOWSERVE: REVENUE SHARE BY SEGMENT, 2016 (%)

FIGURE 44. FLOWSERVE: REVENUE SHARE BY GEOGRAPHY, 2016 (%)

FIGURE 45. LINDE: NET SALES, 2014-2016 (\$MILLION)

FIGURE 46. LINDE: REVENUE SHARE BY SEGMENT, 2016 (%)

FIGURE 47. LINDE: REVENUE SHARE BY GEOGRAPHY, 2016 (%)

FIGURE 48. NIKKISO: NET SALES, 2014-2016 (\$MILLION)

FIGURE 49. NIKKISO: REVENUE SHARE BY SEGMENT, 2016 (%)

FIGURE 50. SUMITOMO HEAVY INDUSTRIES, LTD.: NET SALES, 2015-2017 (\$MILLION)

FIGURE 51. SUMITOMO HEAVY INDUSTRIES, LTD.: REVENUE SHARE BY SEGMENT, 2017 (%)

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