

# **Global Cleanroom Technology Market: Analysis By Product (Consumable & Equipment), By Construction Type (Standard, Hardwall, Softwall & Pass-through Cabinets), By End User (Pharmaceutical Industry, Biotechnology Industry, Medical Device Manufacturers, Hospitals and Others), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2028**

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## **Abstracts**

The global cleanroom technology market was valued at US\$4.78 billion in 2022 and is expected to be worth US\$6.92 billion in 2028. 'ISO 14644-1' defines a clean area as a specified area in which the concentration of airborne particles is regulated and classified, and which has been appropriately designed and is being operated for regulating the introduction, formation, and deposition of particles in the area.

A cleanroom is a controlled environment in which pollutants such as dust, airborne microbes, and aerosol particles are filtered out to provide the cleanest possible environment. The majority of cleanrooms are used to manufacture products such as pharmaceuticals, and medical equipment. Thus, cleanroom technology encompasses all technical and operational measures aimed at reducing the risk of product contamination. Cleanrooms can be filtered by HEPA (High Efficiency Particulate Air) air handling units, and temperature is used in some cleanrooms to reduce microbial growth such as viruses, spores, fungi, and bacteria. With the improvement of individual wealth, consumers start to pay more attention to personal health which leads to increasing demand for pharmaceuticals, hospitals, and medical devices and drives the demand of cleanroom as well. The market is expected to grow at a CAGR of 6.38% over the

projected period of 2023-2028.

#### Market Segmentation Analysis:

**By Product:** The report identifies two segments on the basis of product: Consumable and Equipment. The cleanroom consumable segment dominated the market in 2022. Cleanroom consumables are either reusable or disposable and are frequently used in production capacities in a variety of end-use sectors, including pharmaceutical companies, biotech companies, hospitals, and diagnostic centers. Other key reasons for the segment's growth include bulk purchases by manufacturing companies, high demand for preventing contamination by personnel, convenience, and various alternatives developed by key players.

**By Construction Type:** The report identifies four segments on the basis of construction type: Standard, Hardwall, Softwall & Pass-Through Cabinets. The hardwall cleanroom technology segment is expected to be the fastest growing segment during the forecasted period. Hardwall cleanrooms are permanent structures that are constructed using hard, durable materials such as metal or plastic. These cleanrooms provide a high level of control over the environment and are typically used in applications that require a high degree of cleanliness and control. Hardwall cleanrooms can be designed to meet specific cleanliness levels and can be used for a wide range of applications, including research and development, manufacturing, and testing. Customization is available for hardwall cleanrooms. The cleanroom panels can be installed almost anywhere and are fully customizable to the application and location. The cleanroom components are manufactured offsite (prefabricate) and easily assembled once delivered. These factors are expected to support the segment's growth.

**By End User:** The report identifies five segments on the basis of end user: Pharmaceutical Industry, Biotechnology Industry, Medical Device Manufacturers, Hospitals and Other End Users. Pharmaceutical industry held the highest share in the market in 2022. The increase is due to stringent regulations governing pharmaceutical product approval, which has resulted in an increase in demand for cleanroom technology. Air with low particulate matter is required for pharmaceutical production. The installation of cleanroom technology equipment, such as HVAC, air showers, and air diffusers, ensures the highest product quality with the least amount of waste, maximizes yield, and optimizes the manufacturing process. Because of the aforementioned factors, the use of cleanroom technology in the pharmaceutical industry has increased, indicating a high growth potential.

**By Region:** In the report, the global cleanroom technology market is divided into five regions: North America, Europe, Asia Pacific, Middle East & Africa and Latin America. North America accounted for the maximum share of the global market in 2022. This can be attributed to the region's well-established healthcare infrastructure, the presence of key pharmaceutical and medical device companies in the region, an increase in the burden of noncommunicable diseases, and increased awareness of cosmeceuticals and nutraceuticals. Furthermore, strict regulations governing the approval of healthcare products in this region, such as the US, have increased demand for cleanroom technology.

However, the market in Asia Pacific is expected to grow rapidly over the forecast period. Investment in healthcare development is also increasing in this region. The increase in generic drug production due to branded drug patent expirations, growing geriatric population, and increasing burden of noncommunicable diseases are the major factors driving the growth of the pharmaceutical industry in Asia Pacific, thereby attributing to the growth of the cleanroom technology market.

#### Market Dynamics:

**Growth Drivers:** One of the key drivers of the market's expansion is the growth in biopharmaceuticals industry. The biopharmaceutical sector has been growing rapidly in recent years, and this growth is driving the demand for cleanroom technology. Cleanroom technology is essential in the biopharmaceutical industry to maintain a controlled and contaminated-free environment during the production and development of biopharmaceutical products. In the biopharmaceutical industry, cleanrooms are used to prevent contamination of sensitive biological materials, such as proteins, viruses, and cells, during production and research.

Cleanrooms also help prevent contamination of biopharmaceutical products during the packaging and storage stages. As the biopharmaceutical sector continues to grow, the demand for cleanrooms and cleanroom technology also increases, leading to growth in the cleanroom technology market. Other significant growth factors of the market include increasing prevalence of infectious diseases, increasing demand from hospitals & ambulatory surgery centers, increasing demand for sterile products, stringent regulations in end use industries and advancement in cleanroom technology.

**Challenges:** However, some challenges are impeding the growth of the market such as high costs associated with cleanrooms and need for specialized personnel. One of the major challenges facing the cleanroom technology market is the high cost associated

with the development, design, and maintenance of cleanroom facilities. Cleanroom technology is a complex system that involves several components such as filtration systems, air handling units, laminar flow workstations, gowning systems, and flooring systems. Each of these components is critical to maintaining the controlled environment of a cleanroom and requires specialized materials, equipment, and personnel to be installed, operated, and maintained. This specialization and complexity drive up the cost of cleanroom technology, making it challenging for companies, especially smaller ones, to invest in these systems. The high costs associated with cleanroom technology can limit its adoption, particularly in small-scale operations, and could potentially impede growth in the cleanroom technology market.

**Trends:** The market is projected to grow at a fast pace during the forecast period, due to integration of artificial intelligence in cleanroom technology, advancements in filtration technologies in cleanrooms and customized cleanrooms. Customized cleanrooms are a growing trend in the cleanroom technology market due to the increasing demand for specialized and tailored environments that meet specific needs. The trend towards customization has been driven by advancements in cleanroom design and construction, making it easier and more cost-effective to create cleanrooms that are tailored to meet specific needs. Customized cleanrooms are designed to meet the specific requirements of a particular industry or application, whether it is pharmaceutical, biotech, electronics, or another industry. By customizing cleanrooms, companies can achieve a higher level of control over their production processes and reduce the risk of contamination, leading to improved product quality and reduced costs.

#### Impact Analysis of COVID-19 and Way Forward:

In the initial stages of the pandemic, the spread of the virus led to a slowdown in demand for cleanroom technology as construction and production activities decreased globally. The lockdowns and social distancing measures put in place to control the spread of the virus disrupted the supply chain, leading to delays and disruptions in the delivery of cleanroom products and services.

However, as the pandemic continued, the need for clean and controlled environments for essential and pharmaceutical industries increased during the second half of 2020. The pandemic highlighted the importance of cleanroom technology in preventing the spread of infectious diseases and protecting public health. This increased demand for cleanroom technology has driven growth in the market. The pharmaceutical and biotech industries, in particular, have seen a surge in demand for cleanroom technology as they ramp up production of COVID-19 vaccines and treatments, thus driving the market

upwards in 2020. Moreover, the pandemic has caused a massive demand for personal protective equipment (PPE), including face masks, gloves, gowns, and eye protection. This has had a significant impact on the cleanroom technology market.

The post-COVID environment also appears to be fortunate for the market. The cleanroom technology market is expected to benefit from the trend towards automation and digitalization, as companies look to improve efficiency and reduce costs. Automated systems and digital technologies, such as sensors, control systems, and data analysis software, are becoming increasingly common in cleanrooms, and this trend is expected to continue in the post-COVID era.

#### Competitive Landscape:

Global cleanroom technology market is fragmented in nature, with increasing acquisitions, collaboration, and product launches. Additionally, the companies are also investing in research and development activities to improve the efficiency and effectiveness of their products and services. For instance, Ardmac welcomed Cental to the Ardmac Group in June 2022. Ardmac's ongoing agreement with the US-based Germfree Laboratories to provide prefabricated turnkey modular cleanrooms and biosafety laboratories to the BioPharma and Healthcare sectors throughout Europe would be supported by Cental's manufacturing capability.

The key players in the global cleanroom technology market are:

Azbil Corporation

DuPont de Nemours, Inc.

Exyte Group

Kimberly-Clark Corporation

Taikisha Ltd.

Labconco Corporation

Ardmac Ltd.

Abtech, Inc.

Berkshire Corporation

Clean Rooms International, Inc.

Terra Universal Inc

Clean Air Products Inc.

In recent years, the market has witnessed an increase in the number of new entrants, particularly from Asia-Pacific, which has added to the competitive intensity in the market. As a result, established players are focusing on maintaining their market position through continuous improvement of their products and services and by expanding their geographical reach.?

## Contents

### 1. EXECUTIVE SUMMARY

### 2. INTRODUCTION

#### 2.1 Cleanroom Technology: An Overview

##### 2.1.1 Advantages of Cleanroom Technology

##### 2.1.2 Products Under Cleanroom Technology

#### 2.2 Cleanroom Technology Segmentation: An Overview

##### 2.2.1 Cleanroom Technology Segmentation

##### 2.2.2 Cleanroom Technology Segmentation by End User

### 3. GLOBAL MARKET ANALYSIS

#### 3.1 Global Cleanroom Technology Market: An Analysis

##### 3.1.1 Global Cleanroom Technology Market: An Overview

##### 3.1.2 Global Cleanroom Technology Market by Value

##### 3.1.3 Global Cleanroom Technology Market by Product (Consumable & Equipment)

##### 3.1.4 Global Cleanroom Technology Market by Construction Type (Standard, Hardwall, Softwall & Pass-Through Cabinets)

##### 3.1.5 Global Cleanroom Technology Market by End User (Pharmaceutical Industry, Biotechnology Industry, Medical Device Manufacturers, Hospitals and Others)

##### 3.1.6 Global Cleanroom Technology Market by Region (North America, Europe, Asia Pacific, Middle East & Africa and Latin America)

#### 3.2 Global Cleanroom Technology Market: Product Analysis

##### 3.2.1 Global Cleanroom Technology Market by Product: An Overview

##### 3.2.2 Global Cleanroom Consumable Technology Market by Value

##### 3.2.3 Global Cleanroom Equipment Technology Market by Value

#### 3.3 Global Cleanroom Technology Market: Construction Type Analysis

##### 3.3.1 Global Cleanroom Technology Market by Construction Type: An Overview

##### 3.3.2 Global Standard Cleanroom Technology Market by Value

##### 3.3.3 Global Hardwall Cleanroom Technology Market by Value

##### 3.3.4 Global Softwall Cleanroom Technology Market by Value

##### 3.3.5 Global Pass Through Cabinets Cleanroom Technology Market by Value

#### 3.4 Global Cleanroom Technology Market: End User Analysis

##### 3.4.1 Global Cleanroom Technology Market by End User: An Overview

##### 3.4.2 Global Pharmaceutical Industry Cleanroom Technology Market by Value

##### 3.4.3 Global Biotechnology Industry Cleanroom Technology Market by Value

- 3.4.4 Global Medical Device Manufacturers Cleanroom Technology Market by Value
- 3.4.5 Global Hospitals Cleanroom Technology Market by Value
- 3.4.6 Global Other Cleanroom Technology End Users Market by Value

## **4. REGIONAL MARKET ANALYSIS**

### **4.1 North America Cleanroom Technology Market: An Analysis**

- 4.1.1 North America Cleanroom Technology Market: An Overview
- 4.1.2 North America Cleanroom Technology Market by Value
- 4.1.3 North America Cleanroom Technology Market by Region (The US, Canada & Mexico)
- 4.1.4 The US Cleanroom Technology Market by Value
- 4.1.5 The US Cleanroom Technology Market by Product (Consumable & Equipment)
- 4.1.6 The US Cleanroom Consumable Technology Market by Value
- 4.1.7 The US Cleanroom Equipment Technology Market by Value
- 4.1.8 Canada Cleanroom Technology Market by Value
- 4.1.9 Mexico Cleanroom Technology Market by Value

### **4.2 Europe Cleanroom Technology Market: An Analysis**

- 4.2.1 Europe Cleanroom Technology Market: An Overview
- 4.2.2 Europe Cleanroom Technology Market by Value
- 4.2.3 Europe Cleanroom Technology Market by Region (Germany, France, UK, Italy, Spain and Rest of Europe)
- 4.2.4 Germany Cleanroom Technology Market by Value
- 4.2.5 France Cleanroom Technology Market by Value
- 4.2.6 The UK Cleanroom Technology Market by Value
- 4.2.7 Italy Cleanroom Technology Market by Value
- 4.2.8 Spain Cleanroom Technology Market by Value
- 4.2.9 Rest of Europe Cleanroom Technology Market by Value

### **4.3 Asia Pacific Cleanroom Technology Market: An Analysis**

- 4.3.1 Asia Pacific Cleanroom Technology Market: An Overview
- 4.3.2 Asia Pacific Cleanroom Technology Market by Value
- 4.3.3 Asia Pacific Cleanroom Technology Market by Region (Japan, China, India, Australia, South Korea, and Rest of Asia Pacific)
- 4.3.4 Japan Cleanroom Technology Market by Value
- 4.3.5 China Cleanroom Technology Market by Value
- 4.3.6 India Cleanroom Technology Market by Value
- 4.3.7 Australia Cleanroom Technology Market by Value
- 4.3.8 South Korea Cleanroom Technology Market by Value
- 4.3.9 Rest of Asia Pacific Cleanroom Technology Market by Value

#### 4.4 Middle East & Africa Cleanroom Technology Market: An Analysis

##### 4.4.1 Middle East & Africa Cleanroom Technology Market: An Overview

##### 4.4.2 Middle East & Africa Cleanroom Technology Market by Value

##### 4.4.3 Middle East & Africa Cleanroom Technology Market by Region (Saudi Arabia, UAE, South Africa and Rest of Middle East & Africa)

##### 4.4.4 Saudi Arabia Cleanroom Technology Market by Value

##### 4.4.5 UAE Cleanroom Technology Market by Value

##### 4.4.6 South Africa Cleanroom Technology Market by Value

##### 4.4.7 Rest of Middle East & Africa Cleanroom Technology Market by Value

#### 4.5 Latin America Cleanroom Technology Market: An Analysis

##### 4.5.1 Latin America Cleanroom Technology Market: An Overview

##### 4.5.2 Latin America Cleanroom Technology Market by Value

##### 4.5.3 Latin America Cleanroom Technology Market by Region (Brazil, Argentina and Rest of Latin America)

##### 4.5.4 Brazil Cleanroom Technology Market by Value

##### 4.5.5 Argentina Cleanroom Technology Market by Value

##### 4.5.6 Rest of Latin America Cleanroom Technology Market by Value

## 5. IMPACT OF COVID-19

### 5.1 Impact of COVID-19

#### 5.1.1 Impact of COVID-19 on Cleanroom Technology Market

#### 5.1.2 Increasing Demand for PPE

#### 5.1.3 Post COVID Scenario

## 6. MARKET DYNAMICS

### 6.1 Growth Drivers

#### 6.1.1 Growth in Biopharmaceuticals Industry

#### 6.1.2 Increasing Prevalence of Infectious Diseases

#### 6.1.3 Growing Demand from Hospitals & Ambulatory Surgery Centers

#### 6.1.4 Rising Demand for Sterile Products

#### 6.1.5 Stringent Regulations in End Use Industries

#### 6.1.6 Advancements in Cleanroom Technology

### 6.2 Challenges

#### 6.2.1 High Costs Associated With Cleanrooms

#### 6.2.2 Need for Specialized Personnel

### 6.3 Market Trends

#### 6.3.1 Integration of Artificial Intelligence in Cleanroom Technology

6.3.2 Advancements in Filtration Technologies in Cleanrooms

6.3.3 Customized Cleanrooms

## **7. COMPETITIVE LANDSCAPE**

7.1 Global Cleanroom Technology Market Players: Product Offerings

## **8. COMPANY PROFILES**

8.1 Azbil Corporation

8.1.1 Business Overview

8.1.2 Operating Segments

8.1.3 Business Strategies

8.2 DuPont de Nemours, Inc.

8.2.1 Business Overview

8.2.2 Operating Segments

8.2.3 Business Strategies

8.3 Exyte Group

8.3.1 Business Overview

8.3.2 Operating Segments

8.3.3 Business Strategies

8.4 Kimberly-Clark Corporation

8.4.1 Business Overview

8.4.2 Operating Segments

8.4.3 Business Strategies

8.5 Taikisha Ltd.

8.5.1 Business Overview

8.5.2 Operating Segments

8.5.3 Business Strategies

8.6 Labconco Corporation

8.6.1 Business Overview

8.6.2 Business Strategies

8.7 Ardmac Ltd.

8.7.1 Business Overview

8.7.2 Business Strategies

8.8 Abtech, Inc.

8.8.1 Business Overview

8.9 Berkshire Corporation

8.9.1 Business Overview

8.9.2 Business Strategies

8.10 Clean Rooms International, Inc.

8.10.1 Business Overview

8.11 Terra Universal Inc.

8.11.1 Business Overview

8.12 Clean Air Products Inc.

8.12.1 Business Overview

## List Of Figures

### LIST OF FIGURES

Figure 1: Advantages of Cleanroom Technology

Figure 2: Products Under Cleanroom Technology

Figure 3: Cleanroom Technology Segmentation

Figure 4: Cleanroom Technology Segmentation by End User

Figure 5: Global Cleanroom Technology Market by Value; 2018-2022 (US\$ Billion)

Figure 6: Global Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 7: Global Cleanroom Technology Market by Product; 2022 (Percentage, %)

Figure 8: Global Cleanroom Technology Market by Construction Type; 2022  
(Percentage, %)

Figure 9: Global Cleanroom Technology Market by End User; 2022 (Percentage, %)

Figure 10: Global Cleanroom Technology Market by Region; 2022 (Percentage, %)

Figure 11: Global Cleanroom Consumable Technology Market by Value; 2018-2022  
(US\$ Billion)

Figure 12: Global Cleanroom Consumable Technology Market by Value; 2023-2028  
(US\$ Billion)

Figure 13: Global Cleanroom Equipment Technology Market by Value; 2018-2022 (US\$  
Billion)

Figure 14: Global Cleanroom Equipment Technology Market by Value; 2023-2028 (US\$  
Billion)

Figure 15: Global Standard Cleanroom Technology Market by Value; 2018-2022 (US\$  
Billion)

Figure 16: Global Standard Cleanroom Technology Market by Value; 2023-2028 (US\$  
Billion)

Figure 17: Global Hardwall Cleanroom Technology Market by Value; 2018-2022 (US\$  
Billion)

Figure 18: Global Hardwall Cleanroom Technology Market by Value; 2023-2028 (US\$  
Billion)

Figure 19: Global Softwall Cleanroom Technology Market by Value; 2018-2022 (US\$  
Billion)

Figure 20: Global Softwall Cleanroom Technology Market by Value; 2023-2028 (US\$  
Billion)

Figure 21: Global Pass Through Cabinets Cleanroom Technology Market by Value;  
2018-2022 (US\$ Million)

Figure 22: Global Pass Through Cabinets Cleanroom Technology Market by Value;  
2023-2028 (US\$ Million)

Figure 23: Global Pharmaceutical Industry Cleanroom Technology Market by Value; 2018-2022 (US\$ Billion)

Figure 24: Global Pharmaceutical Industry Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 25: Global Biotechnology Industry Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 26: Global Biotechnology Industry Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 27: Global Medical Device Manufacturers Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 28: Global Medical Device Manufacturers Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 29: Global Hospitals Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 30: Global Hospitals Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 31: Global Other Cleanroom Technology End Users Market by Value; 2018-2022 (US\$ Million)

Figure 32: Global Other Cleanroom Technology End Users Market by Value; 2023-2028 (US\$ Million)

Figure 33: North America Cleanroom Technology Market by Value; 2018-2022 (US\$ Billion)

Figure 34: North America Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 35: North America Cleanroom Technology Market by Region; 2022 (Percentage, %)

Figure 36: The US Cleanroom Technology Market by Value; 2018-2022 (US\$ Billion)

Figure 37: The US Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 38: The US Cleanroom Technology Market by Product; 2022 (Percentage, %)

Figure 39: The US Cleanroom Consumable Technology Market by Value; 2018-2022 (US\$ Million)

Figure 40: The US Cleanroom Consumable Technology Market by Value; 2023-2028 (US\$ Million)

Figure 41: The US Cleanroom Equipment Technology Market by Value; 2018-2022 (US\$ Million)

Figure 42: The US Cleanroom Equipment Technology Market by Value; 2023-2028 (US\$ Million)

Figure 43: Canada Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 44: Canada Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 45: Mexico Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 46: Mexico Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 47: Europe Cleanroom Technology Market by Value; 2018-2022 (US\$ Billion)

Figure 48: Europe Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 49: Europe Cleanroom Technology Market by Region; 2022 (Percentage, %)

Figure 50: Germany Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 51: Germany Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 52: France Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 53: France Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 54: The UK Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 55: The UK Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 56: Italy Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 57: Italy Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 58: Spain Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 59: Spain Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 60: Rest of Europe Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 61: Rest of Europe Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 62: Asia Pacific Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 63: Asia Pacific Cleanroom Technology Market by Value; 2023-2028 (US\$ Billion)

Figure 64: Asia Pacific Cleanroom Technology Market by Region; 2022 (Percentage, %)

Figure 65: Japan Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 66: Japan Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 67: China Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 68: China Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 69: India Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 70: India Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 71: Australia Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 72: Australia Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 73: South Korea Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 74: South Korea Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 75: Rest of Asia Pacific Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 76: Rest of Asia Pacific Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 77: Middle East & Africa Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 78: Middle East & Africa Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 79: Middle East & Africa Cleanroom Technology Market by Region; 2022 (Percentage, %)

Figure 80: Saudi Arabia Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 81: Saudi Arabia Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 82: UAE Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 83: UAE Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 84: South Africa Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 85: South Africa Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 86: Rest of Middle East & Africa Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 87: Rest of Middle East & Africa Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 88: Latin America Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 89: Latin America Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 90: Latin America Cleanroom Technology Market by Region; 2022 (Percentage, %)

Figure 91: Brazil Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 92: Brazil Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 93: Argentina Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 94: Argentina Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 95: Rest of Latin America Cleanroom Technology Market by Value; 2018-2022 (US\$ Million)

Figure 96: Rest of Latin America Cleanroom Technology Market by Value; 2023-2028 (US\$ Million)

Figure 97: Global Biopharmaceuticals Market Size, 2020-2030 (US\$ Billion)

Figure 98: Global HIV Patients by Age Group, 2021 (Million)

Figure 99: Global Artificial intelligence (AI) Software Market Size, 2018-2025 (US\$ Billion)

Figure 100: Azbil Corporation Sales by Segments, 2022 (Percentage, %)

Figure 101: DuPont de Nemours, Inc. Net Sales by Segments, 2021 (Percentage, %)

Figure 102: Exyte Group Sales by Business Segments, 2021 (Percentage, %)

Figure 103: Kimberly-Clark Corporation Net Sales by Business Segments, 2021  
(Percentage, %)

Figure 104: Taikisha Ltd. Sales by Segments, 2021 (Percentage, %)

Table 1: Global Cleanroom Technology Market Players: Product Offerings

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