

# High-speed Separator (HSS) Market by Type (Centrifugal separators, Filter centrifuges), Application, capacity( Small Capacity separators, Medium capacity separators, Large capacity separators) and Region - Global Forecast to 2028

<https://marketpublishers.com/r/HC2E7B4A4468EN.html>

Date: June 2023

Pages: 238

Price: US\$ 4,950.00 (Single User License)

ID: HC2E7B4A4468EN

## Abstracts

The high-speed separator market is 1.1 billion for the year 2023 and is projected to reach USD 1.5 billion in 2028 at a CAGR of 5.3% during the forecast period. The increasing use of high-speed separator in different industries drives the market. In the oil and gas industry, HSS are crucial for efficient separation of impurities from extracted hydrocarbons. During the extraction process, hydrocarbons often contain impurities such as sand, solids, water, and other contaminants. HSS are utilized to remove these impurities, ensuring the production of clean and marketable oil and gas. Additionally, in Enhanced Oil Recovery (EOR) techniques, where fluids are injected into reservoirs to maximize oil recovery, HSS play a vital role in separating impurities brought back by the injected fluids, ensuring the efficiency of the EOR process.

HSS are also employed in the pharmaceutical and biotechnology industries for various applications. In pharmaceutical manufacturing, HSS are utilized for separation and purification processes. They are used to remove impurities, particulates, and contaminants from liquids, ensuring the production of high-quality pharmaceutical products. HSS are also valuable in biotechnology processes such as cell culture and fermentation, where they aid in the separation of cells, cell debris, and other components from the desired product.

“Centrifugal separators is expected to be the fastest growing type for high-speed separator in the market during the forecast period, in terms of value.”

Centrifugal separators are highly sought after in various industries due to their exceptional capabilities in efficient separation, versatility, scalability, continuous operation, compact design, low maintenance, high separation efficiency, automation potential, energy efficiency, and wide range of applications.

These separators excel at effectively separating solid particles from liquids or gases by utilizing centrifugal force. With high rotational speeds, they generate strong centrifugal forces, enabling efficient removal of solid contaminants or impurities from the desired liquid or gas stream. Their versatility allows them to handle diverse applications, including liquid-liquid separation, liquid-solid separation, and gas-solid separation, making them suitable for industries such as oil and gas, chemical processing, pharmaceuticals, food and beverage, and wastewater treatment. Centrifugal separators are scalable, available in various sizes and configurations to meet specific industry needs. They can be seamlessly integrated into existing production lines or systems due to their compact design, which is particularly beneficial in installations with limited space. With low maintenance requirements, these separators offer cost-effective and reliable long-term operation. They achieve high separation efficiency, effectively removing fine particles or droplets, improving product quality, and reducing downstream processing requirements.

Automation integration enables precise control of the separation process, enhancing operational efficiency, accuracy, and consistency. Moreover, centrifugal separators are designed to be energy-efficient, contributing to overall cost savings in industrial processes. Their wide range of applications encompasses oil and gas refining, chemical production, pharmaceutical manufacturing, water treatment, food and beverage processing, mining, and more. Centrifugal separators are essential tools that provide effective separation solutions, elevating product quality and process efficiency across industries.

“Based on region, Asia Pacific was the largest market for high-speed separator in 2023, in terms of value.”

High-speed separators are in high demand in the Asia Pacific region due to several factors. The region's rapid industrialization, growing population, and increasing urbanization drive the need for efficient separation technologies. Industries in sectors such as oil and gas, chemicals, food and beverage, pharmaceuticals, and wastewater treatment rely on high-speed separators to meet the demands of the expanding market.

Efficiency and productivity improvements are a focus in the region, leading to the

adoption of high-speed separators that offer enhanced separation efficiency and throughput. Stricter environmental regulations necessitate the use of high-speed separators for wastewater treatment, air pollution control, and waste management. Technological advancements in the region and the emphasis on product quality and safety contribute to the demand for high-speed separators. The Asia Pacific region's economic growth and investment attract the establishment and expansion of industries, further driving the need for high-speed separators.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

By Company Type: Tier 1 - 45%, Tier 2 - 30%, and Tier 3 - 25%

By Designation: C-Level - 20%, Director Level - 15%, and Others - 65%

By Region: Asia Pacific - 30%, Europe - 30%, North America - 20%, Middle East & Africa-15%, and South America-5%

The key players in this market are GEA Group Aktiengesellschaft (Germany), Flottweg SE (Germany), Alfa Laval (Sweden), SPX Flow (US), IHI Rotating Machinery Engineering Co. Ltd. (Japan), tetra Pak (Sweden), Mitsubishi Kakoki Kaisha (Japan), TOMOE Engineering Co. Ltd. (Japan), Pieralisi Maip SP (Italy), Trucent (US).

## Research Coverage

This report segments the market for high-speed separator market on the basis of type, application, capacity and region. It provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the high-speed separator market.

## Key benefits of buying this report

This research report is focused on various levels of analysis of key drivers (increasing industrialization and manufacturing activities, focus on mining & mineral sector, environmental regulation and sustainability initiatives, technological advancement) ,

industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the high-speed separator market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of Key drivers (increasing industrialization and manufacturing activities, focus on mining & mineral sector, environmental regulation and sustainability initiatives, technological advancement), restraints (high maintenance coupled with high energy consumption, regulatory compliances), opportunities (Renewable energy industry to create new revenue pockets for the HSS market) and challenges (Intense competition and cost pressure, impact of recession on the end use industries employing HSS).

**Market Penetration:** Comprehensive information on high-speed separator market offered by top players in the global high-speed separator market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product launches in the high-speed separator market.

**Market Development:** Comprehensive information about lucrative emerging markets — the report analyzes the markets for the high-speed separator market across regions.

**Market Diversification:** Exhaustive information about new products, untapped regions, and recent developments in the global high-speed separator market.

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the high-speed separator market.

## Contents

### 1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS & EXCLUSIONS

1.4 STUDY SCOPE

FIGURE 1 HIGH-SPEED SEPARATOR MARKET SEGMENTATION

1.4.1 REGIONS COVERED

1.4.2 YEARS CONSIDERED

1.5 CURRENCY CONSIDERED

1.6 STUDY LIMITATIONS

1.7 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 HIGH-SPEED SEPARATOR MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews – Top high-speed separator manufacturers

2.1.2.2 Breakdown of primary interviews

2.1.2.3 Key industry insights

2.2 BASE NUMBER CALCULATION

2.2.1 APPROACH 1: SUPPLY-SIDE ANALYSIS

2.2.2 APPROACH 2: DEMAND-SIDE APPROACH

2.3 FORECAST NUMBER CALCULATION

2.3.1 SUPPLY SIDE

2.3.2 DEMAND SIDE

2.4 MARKET SIZE ESTIMATION

2.4.1 BOTTOM-UP APPROACH

2.4.2 TOP-DOWN APPROACH

2.5 DATA TRIANGULATION

FIGURE 3 HIGH-SPEED SEPARATOR MARKET: DATA TRIANGULATION

2.6 ASSUMPTIONS

### 3 EXECUTIVE SUMMARY

FIGURE 4 OIL & GAS APPLICATION SEGMENT TO BE LARGEST SEGMENT OF MARKET FROM 2023 TO 2028

FIGURE 5 CENTRIFUGAL SEPARATORS TYPE SEGMENT TO DOMINATE HIGH-SPEED SEPARATOR MARKET FROM 2023 TO 2028

FIGURE 6 EXTRA-LARGE-CAPACITY SEPARATORS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

FIGURE 7 ASIA PACIFIC ESTIMATED TO DOMINATE HIGH-SPEED SEPARATOR MARKET IN 2023

## **4 PREMIUM INSIGHTS**

4.1 SIGNIFICANT OPPORTUNITIES FOR PLAYERS IN HIGH-SPEED SEPARATOR MARKET

FIGURE 8 INCREASED DEMAND FROM VARIOUS APPLICATIONS TO DRIVE MARKET

4.2 HIGH-SPEED SEPARATOR MARKET, BY APPLICATION

FIGURE 9 OIL & GAS TO BE FASTEST-GROWING APPLICATION SEGMENT DURING FORECAST PERIOD

4.3 HIGH-SPEED SEPARATOR MARKET, BY REGION

FIGURE 10 ASIA PACIFIC ACCOUNTED FOR LARGEST SHARE OF HIGH-SPEED SEPARATOR MARKET IN 2023

4.4 HIGH-SPEED SEPARATOR MARKET, BY TYPE

FIGURE 11 CENTRIFUGAL SEPARATORS TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

4.5 HIGH-SPEED SEPARATOR MARKET, BY CAPACITY

FIGURE 12 SMALL-CAPACITY SEPARATORS TO BE FASTEST-GROWING CAPACITY SEGMENT DURING FORECAST PERIOD

## **5 MARKET OVERVIEW**

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 13 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES: HIGH-SPEED SEPARATOR MARKET

5.2.1 DRIVERS

5.2.1.1 Rise in industrialization and manufacturing activities in various countries

5.2.1.2 Increased utilization in mining & mineral sector

5.2.1.3 Stringent environmental regulations and sustainability initiatives

5.2.1.4 Technological advancements in high-speed separator technologies

## 5.2.2 RESTRAINTS

5.2.2.1 High energy consumption and significant maintenance requirements

5.2.2.2 Need to comply with stringent health and safety regulations

## 5.2.3 OPPORTUNITIES

5.2.3.1 Rise in demand from renewable energy sector

## 5.2.4 CHALLENGES

5.2.4.1 Intense competition and cost pressures

5.2.4.2 Impact of recession on end-use industries

# 6 INDUSTRY TRENDS

## 6.1 INTRODUCTION

## 6.2 SUPPLY CHAIN ANALYSIS

### FIGURE 14 HIGH-SPEED SEPARATOR MARKET: SUPPLY CHAIN ANALYSIS

6.2.1 RAW MATERIAL PROCUREMENT

6.2.2 HIGH-SPEED SEPARATORS MANUFACTURING

6.2.3 PACKAGING AND DISTRIBUTION

6.2.4 INSTALLATION & APPLICATION IN END-USE INDUSTRIES

## 6.3 PORTER'S FIVE FORCES ANALYSIS

### TABLE 1 PORTER'S FIVE FORCES IMPACT ON MARKET

### FIGURE 15 PORTER'S FIVE FORCES ANALYSIS: HIGH-SPEED SEPARATOR MARKET

6.3.1 THREAT OF NEW ENTRANTS

6.3.2 THREAT OF SUBSTITUTES

6.3.3 BARGAINING POWER OF SUPPLIERS

6.3.4 BARGAINING POWER OF BUYERS

6.3.5 INTENSITY OF COMPETITIVE RIVALRY

## 6.4 ECOSYSTEM MAPPING

### TABLE 2 HIGH-SPEED SEPARATOR MARKET: ECOSYSTEM

## 6.5 REGULATORY LANDSCAPE

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

#### TABLE 3 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### TABLE 4 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### TABLE 5 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### TABLE 6 MIDDLE EAST AND AFRICA: LIST OF REGULATORY BODIES,

GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 SOUTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6.6 PATENT ANALYSIS

6.6.1 INTRODUCTION

6.6.2 METHODOLOGY

6.6.3 DOCUMENT TYPE

TABLE 8 GRANTED PATENTS ACCOUNTED FOR 37.7% OF TOTAL COUNT IN LAST 10 YEARS

6.6.3.1 Publication trends over last ten years

FIGURE 16 NUMBER OF PATENTS GRANTED YEARLY IN LAST 10 YEARS

6.6.4 INSIGHTS

6.6.5 LEGAL STATUS OF PATENTS

6.6.6 JURISDICTION ANALYSIS

FIGURE 17 REGIONAL ANALYSIS OF PATENT GRANTED IN MARKET, 2023

6.6.7 TOP COMPANIES/APPLICANTS

FIGURE 18 TOP TEN COMPANIES WITH HIGHEST NUMBER OF PATENTS IN LAST TEN YEARS

TABLE 9 LIST OF MAJOR PATENTS IN HIGH-SPEED SEPARATORS MARKET

6.6.8 LIST OF MAJOR PATENTS

TABLE 10 MAJOR PATENTS FOR HIGH-SPEED SEPARATORS

6.7 TECHNOLOGY ANALYSIS

TABLE 11 HIGH-SPEED SEPARATORS: FEATURES AND THEIR TECHNICAL ADVANTAGE

6.8 KEY CONFERENCES & EVENTS IN 2023–2024

TABLE 12 HIGH-SPEED SEPARATOR MARKET: DETAILED LIST OF CONFERENCES AND EVENTS

6.9 KEY FACTORS AFFECTING BUYING DECISIONS

6.9.1 PRODUCT QUALITY

6.9.2 SERVICE ANALYSIS

FIGURE 19 SUPPLIER SELECTION CRITERION

6.10 TRADE ANALYSIS

6.10.1 IMPORT SCENARIO

TABLE 13 IMPORT OF HIGH-SPEED SEPARATORS, BY COUNTRY, 2020–2022 (USD MILLION).

6.10.2 EXPORT SCENARIO

TABLE 14 EXPORT OF HIGH-SPEED SEPARATORS, BY COUNTRY, 2020–2022 (USD MILLION)

6.11 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS



### 6.11.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR HIGH-SPEED SEPARATOR MANUFACTURERS

FIGURE 20 REVENUE SHIFT IN HIGH-SPEED SEPARATOR MARKET

### 6.12 MACROECONOMIC INDICATORS

6.12.1 GDP TRENDS AND FORECASTS OF MAJOR ECONOMIES

## **7 HIGH-SPEED SEPARATOR MARKET, BY APPLICATION**

### 7.1 INTRODUCTION

FIGURE 21 OIL & GAS APPLICATION SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

TABLE 16 HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION).

TABLE 17 HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

### 7.2 OIL & GAS

7.2.1 SIGNIFICANCE IN PURIFICATION AND SEPARATION OF CRUDE OIL TO DRIVE SEGMENT

### 7.3 CHEMICALS & PETROCHEMICALS

7.3.1 EXTENSIVE USE IN SEPARATION AND PURIFICATION OF CHEMICAL COMPOUNDS TO PROPEL SEGMENT

### 7.4 FOOD & BEVERAGES

7.4.1 USE IN CLARIFICATION OF BEVERAGES TO BOOST SEGMENT

### 7.5 WASTEWATER TREATMENT

7.5.1 REDUCED ENVIRONMENTAL IMPACT THROUGH CLEAN WATER RELEASE AFTER TREATMENT TO DRIVE SEGMENT

### 7.6 PHARMACEUTICALS & BIOTECHNOLOGY

7.6.1 INCREASED DEMAND FOR PRODUCTION OF HIGH-QUALITY PHARMACEUTICALS TO PROPEL SEGMENT

### 7.7 MINING & MINERALS

7.7.1 EFFECTIVE SEPARATION OF MAGNETIC MINERALS AND FROTH CONCENTRATES TO PROPEL SEGMENT

### 7.8 PULP & PAPER

7.8.1 ADOPTION IN SEPARATION AND PURIFICATION OF PULP SUSPENSIONS TO BOOST SEGMENT

### 7.9 OTHERS

#### 7.9.1 BIOFUEL & BIOGAS

##### 7.9.1.1 Paints & coatings

7.9.1.1.1 Use in removal of impurities to maintain consistency and quality of paints

to drive segment

7.9.1.2 Cosmetics & personal care

7.9.1.2.1 Enhancement in quality and purity of products to boost segment

7.9.1.3 Automotive

7.9.1.3.1 Extensive utilization in purification of automotive liquids to propel segment

## **8 HIGH-SPEED SEPARATOR MARKET, BY CAPACITY**

### 8.1 INTRODUCTION

FIGURE 22 EXTRA-LARGE-CAPACITY SEPARATORS TO LEAD MARKET DURING FORECAST PERIOD

TABLE 18 HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 19 HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

### 8.2 SMALL-CAPACITY SEPARATORS

8.2.1 ABILITY TO DELIVER PRECISION AND EFFICIENCY IN SMALL VOLUMES OF MIXTURE TO DRIVE SEGMENT

### 8.3 MEDIUM-CAPACITY SEPARATORS

8.3.1 USE IN CONTINUOUS AND SEMI-CONTINUOUS SEPARATION PROCESSES TO DRIVE SEGMENT

### 8.4 LARGE-CAPACITY SEPARATORS

8.4.1 HIGH THROUGHPUT IN LARGE VOLUMES OF MIXTURES IN CONTINUOUS PRODUCTION LINES TO PROPEL SEGMENT

### 8.5 EXTRA-LARGE-CAPACITY SEPARATORS

8.5.1 INCREASED DEMAND IN LARGE-SCALE INDUSTRIAL PROCESSES TO OPTIMIZE PRODUCTION EFFICIENCY TO DRIVE SEGMENT

## **9 HIGH-SPEED SEPARATOR MARKET, BY TYPE**

### 9.1 INTRODUCTION

FIGURE 23 CENTRIFUGAL SEPARATORS TO LEAD MARKET DURING FORECAST PERIOD

TABLE 20 HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 21 HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 9.2 CENTRIFUGAL SEPARATORS

9.2.1 DISK STACK CENTRIFUGES

- 9.2.1.1 Optimized separation efficiency and compact size to drive segment
- 9.2.2 DECANter CENTRIFUGES
  - 9.2.2.1 Efficient and uninterrupted processing to propel segment
- 9.2.3 TUBULAR CENTRIFUGES
  - 9.2.3.1 Ease of operation and relatively low power consumption to boost segment
- 9.2.4 NOZZLE CENTRIFUGES
  - 9.2.4.1 Flexibility in handling different volumes and types of liquid to propel segment
- 9.3 FILTER CENTRIFUGES
  - 9.3.1 INVERTING FILTER CENTRIFUGES
    - 9.3.1.1 Increased efficiency in separation of fine particles in suspension to boost segment
  - 9.3.2 PEELER CENTRIFUGES
    - 9.3.2.1 Implementation of peeling mechanism in removing solid impurities from filter medium to drive segment
- 9.4 OTHERS
  - 9.4.1 THREE-PHASE SEPARATORS
  - 9.4.2 VIBRATORY SEPARATORS
    - 9.4.2.1 Vibrating screen centrifuges
    - 9.4.2.2 Vibratory bowl centrifuges
    - 9.4.2.3 Horizontal vibrating centrifuges
  - 9.4.3 BASKET CENTRIFUGES

## **10 HIGH-SPEED SEPARATOR MARKET, BY REGION**

### 10.1 INTRODUCTION

FIGURE 24 ASIA PACIFIC TO LEAD MARKET DURING FORECAST PERIOD

TABLE 22 HIGH-SPEED SEPARATOR MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 23 HIGH-SPEED SEPARATOR MARKET, BY REGION, 2023–2028 (USD MILLION)

### 10.2 ASIA PACIFIC

FIGURE 25 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET SNAPSHOT

#### 10.2.1 ASIA PACIFIC: RECESSION IMPACT

TABLE 24 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 25 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 26 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 27 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 28 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 29 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 30 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 31 ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

#### 10.2.2 CHINA

10.2.2.1 Growth in manufacturing and pharmaceutical sectors to propel market

TABLE 32 CHINA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 33 CHINA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 34 CHINA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 35 CHINA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.2.3 JAPAN

10.2.3.1 Significant demand from electronics industry to boost market

TABLE 36 JAPAN: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 37 JAPAN: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 38 JAPAN: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 39 JAPAN: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.2.4 INDIA

10.2.4.1 Increased focus on renewable energy industry to propel market

TABLE 40 INDIA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 41 INDIA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 42 INDIA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 43 INDIA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

MILLION)

#### 10.2.5 SOUTH KOREA

10.2.5.1 Thriving petrochemicals and electronics industries to drive market

TABLE 44 SOUTH KOREA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 45 SOUTH KOREA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 46 SOUTH KOREA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 47 SOUTH KOREA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.2.6 REST OF ASIA PACIFIC

TABLE 48 REST OF ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 49 REST OF ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 50 REST OF ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 51 REST OF ASIA PACIFIC: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.3 EUROPE

FIGURE 26 EUROPE: HIGH-SPEED SEPARATOR MARKET SNAPSHOT

##### 10.3.1 EUROPE: RECESSION IMPACT

TABLE 52 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 53 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 54 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 55 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 56 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 57 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 58 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 59 EUROPE: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

### 10.3.2 GERMANY

10.3.2.1 Focus on transitioning to low-carbon economy to drive market

TABLE 60 GERMANY: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 61 GERMANY: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 62 GERMANY: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 63 GERMANY: HIGH-SPEED SEPARATORS MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 10.3.3 FRANCE

10.3.3.1 Environmental sustainability and waste management initiatives to propel market

TABLE 64 FRANCE: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 65 FRANCE: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 66 FRANCE: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 67 FRANCE: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 10.3.4 ITALY

10.3.4.1 Well-developed downstream sectors to boost market

TABLE 68 ITALY: HIGH-SPEED SEPARATORS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 69 ITALY: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 70 ITALY: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 71 ITALY: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 10.3.5 UK

10.3.5.1 Growth in food & beverages industry and government initiatives for sustainability to drive market

TABLE 72 UK: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 73 UK: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 74 UK: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD

MILLION)

TABLE 75 UK: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.3.6 SPAIN

10.3.6.1 Well-established automotive and food & beverages industries to boost market

TABLE 76 SPAIN: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 77 SPAIN: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 78 SPAIN: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 79 SPAIN: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.3.7 REST OF EUROPE

TABLE 80 REST OF EUROPE: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 81 REST OF EUROPE: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 82 REST OF EUROPE: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 83 REST OF EUROPE: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.4 NORTH AMERICA

FIGURE 27 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET SNAPSHOT

##### 10.4.1 NORTH AMERICA: RECESSION IMPACT

TABLE 84 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 85 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 86 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 87 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 88 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 89 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 90 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY,

2019–2022 (USD MILLION)

TABLE 91 NORTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

#### 10.4.2 US

10.4.2.1 Growth in healthcare sector to boost market

TABLE 92 US: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 93 US: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 94 US: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 95 US: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.4.3 CANADA

10.4.3.1 Government initiatives for sustainable agricultural and infrastructural development to drive market

TABLE 96 CANADA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 97 CANADA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 98 CANADA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 99 CANADA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.4.4 MEXICO

10.4.4.1 Growing automotive industry to propel market

TABLE 100 MEXICO: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 101 MEXICO: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 102 MEXICO: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 103 MEXICO: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 10.5 SOUTH AMERICA

#### 10.5.1 SOUTH AMERICA: RECESSION IMPACT

TABLE 104 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 105 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY,



2023–2028 (USD MILLION)

TABLE 106 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 107 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 108 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 109 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 110 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 111 SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

#### 10.5.2 BRAZIL

10.5.2.1 Well-established mining industry to fuel demand

TABLE 112 BRAZIL: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 113 BRAZIL: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 114 BRAZIL: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 115 BRAZIL: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.5.3 ARGENTINA

10.5.3.1 Extensive use in growing energy and biotechnology industries to propel market

TABLE 116 ARGENTINA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 117 ARGENTINA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 118 ARGENTINA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 119 ARGENTINA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 10.5.4 REST OF SOUTH AMERICA

TABLE 120 REST OF SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 121 REST OF SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 122 REST OF SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 123 REST OF SOUTH AMERICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

## 10.6 MIDDLE EAST & AFRICA

### 10.6.1 MIDDLE EAST & AFRICA: RECESSION IMPACT

TABLE 124 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 125 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 126 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 127 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 128 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 129 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 130 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2019–2022 (USD MILLION)

TABLE 131 MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY CAPACITY, 2023–2028 (USD MILLION)

### 10.6.2 SAUDI ARABIA

#### 10.6.2.1 Well-established oil & gas sector to drive market

TABLE 132 SAUDI ARABIA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 133 SAUDI ARABIA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 134 SAUDI ARABIA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 135 SAUDI ARABIA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 10.6.3 SOUTH AFRICA

#### 10.6.3.1 Significant demand from mining and manufacturing sectors to drive market

TABLE 136 SOUTH AFRICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 137 SOUTH AFRICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 138 SOUTH AFRICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE,

2019–2022 (USD MILLION)

TABLE 139 SOUTH AFRICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

10.6.4 REST OF MIDDLE EAST & AFRICA

TABLE 140 REST OF MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 141 REST OF MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 142 REST OF MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 143 REST OF MIDDLE EAST & AFRICA: HIGH-SPEED SEPARATOR MARKET, BY TYPE, 2023–2028 (USD MILLION)

## **11 COMPETITIVE LANDSCAPE**

11.1 INTRODUCTION

11.2 STRATEGIES ADOPTED BY KEY PLAYERS

11.2.1 OVERVIEW OF STRATEGIES ADOPTED BY KEY HIGH-SPEED SEPARATOR MANUFACTURERS

11.3 MARKET SHARE ANALYSIS

11.3.1 RANKING OF KEY MARKET PLAYERS, 2022

FIGURE 28 RANKING OF TOP FIVE PLAYERS IN HIGH-SPEED SEPARATOR MARKET, 2022

11.3.2 MARKET SHARE OF KEY PLAYERS

TABLE 144 HIGH-SPEED SEPARATORS: DEGREE OF COMPETITION

FIGURE 29 HIGH-SPEED SEPARATOR MARKET: SHARE OF KEY PLAYERS

11.3.2.1 GEA Group Aktiengesellschaft

11.3.2.2 Flottweg SE

11.3.2.3 Alfa Laval

11.3.2.4 SPX Flow

11.3.2.5 IHI Rotating Machinery Engineering Co., Ltd.

11.4 COMPANY FOOTPRINT ANALYSIS

TABLE 145 COMPANY FOOTPRINT: APPLICATION

TABLE 146 COMPANY FOOTPRINT: TYPE

TABLE 147 COMPANY FOOTPRINT: CAPACITY

TABLE 148 COMPANY FOOTPRINT: REGION

11.5 COMPANY EVALUATION QUADRANT

11.5.1 STARS

11.5.2 EMERGING LEADERS

### 11.5.3 PERVASIVE PLAYERS

### 11.5.4 PARTICIPANTS

FIGURE 30 HIGH-SPEED SEPARATOR MARKET (GLOBAL): COMPETITIVE EVALUATION QUADRANT, 2022

### 11.6 COMPETITIVE BENCHMARKING

TABLE 149 HIGH-SPEED SEPARATOR MARKET: DETAILED LIST OF KEY START-UPS/SMES

11.7 HIGH-SPEED SEPARATOR MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

TABLE 150 START-UPS/SMES FOOTPRINT: APPLICATION

TABLE 151 HIGH-SPEED SEPARATOR MARKET: SME PLAYERS TYPE FOOTPRINT

TABLE 152 HIGH-SPEED SEPARATOR MARKET: SME PLAYERS CAPACITY FOOTPRINT

TABLE 153 HIGH-SPEED SEPARATOR MARKET: SME PLAYERS REGION FOOTPRINT

### 11.8 START-UP/SME EVALUATION QUADRANT

#### 11.8.1 RESPONSIVE COMPANIES

#### 11.8.2 STARTING BLOCKS

#### 11.8.3 PROGRESSIVE COMPANIES

#### 11.8.4 DYNAMIC COMPANIES

FIGURE 31 HIGH-SPEED SEPARATOR MARKET: START-UPS/SMES EVALUATION QUADRANT

### 11.9 COMPETITIVE SITUATIONS AND TRENDS

#### 11.9.1 NEW PRODUCT LAUNCHES

TABLE 154 HIGH-SPEED SEPARATOR MARKET: NEW PRODUCT LAUNCHES (2021–2023)

#### 11.9.2 DEALS

TABLE 155 HIGH-SPEED SEPARATOR MARKET: DEALS (2019–2023)

#### 11.9.3 OTHER DEVELOPMENTS

TABLE 156 HIGH-SPEED SEPARATOR MARKET: OTHER DEVELOPMENTS (2018–2023)

## 12 COMPANY PROFILES

### 12.1 KEY PLAYERS

(Business overview, Products/Services/Solutions offered, Recent Developments, MNM view)\*

#### 12.1.1 GEA GROUP AKTIENGESELLSCHAFT

TABLE 157 GEA GROUP AKTIENGESELLSCHAFT: COMPANY OVERVIEW

FIGURE 32 GEA GROUP AKTIENGESELLSCHAFT: COMPANY SNAPSHOT

TABLE 158 GEA GROUP AKTIENGESELLSCHAFT:

PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 159 GEA GROUP AKTIENGESELLSCHAFT: PRODUCT LAUNCHES

TABLE 160 GEA GROUP AKTIENGESELLSCHAFT: DEALS

TABLE 161 GEA GROUP AKTIENGESELLSCHAFT: OTHERS

#### 12.1.2 FLOTTWEG SE

TABLE 162 FLOTTWEG SE: COMPANY OVERVIEW

TABLE 163 FLOTTWEG SE: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 164 FLOTTWEG SE: PRODUCT LAUNCHES

TABLE 165 FLOTTWEG SE: DEALS

TABLE 166 FLOTTWEG SE: OTHERS

#### 12.1.3 ALFA LAVAL

TABLE 167 ALFA LAVAL: COMPANY OVERVIEW

FIGURE 33 ALFA LAVAL: COMPANY SNAPSHOT

TABLE 168 ALFA LAVAL: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 169 ALFA LAVAL: PRODUCT LAUNCHES

TABLE 170 ALFA LAVAL: DEALS

TABLE 171 ALFA LAVAL: OTHERS

#### 12.1.4 SPX FLOW

TABLE 172 SPX FLOW: COMPANY OVERVIEW

TABLE 173 SPX FLOW: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 174 SPX FLOW: PRODUCT LAUNCHES

TABLE 175 SPX FLOW: DEALS

#### 12.1.5 IHI ROTATING MACHINERY ENGINEERING CO., LTD.

TABLE 176 IHI ROTATING MACHINERY ENGINEERING CO., LTD.: COMPANY OVERVIEW

FIGURE 34 IHI ROTATING MACHINERY ENGINEERING CO., LTD.: COMPANY SNAPSHOT

TABLE 177 IHI ROTATING MACHINERY ENGINEERING CO., LTD.: PRODUCTS/SERVICES/ SOLUTIONS OFFERED

#### 12.1.6 TETRA PAK

TABLE 178 TETRA PAK: COMPANY OVERVIEW

FIGURE 35 TETRA PAK: COMPANY SNAPSHOT

TABLE 179 TETRA PAK: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 180 TETRA PAK: OTHERS

#### 12.1.7 MITSUBISHI KAKOKI KAISHA LTD.

TABLE 181 MITSUBISHI KAKOKI KAISHA LTD.: COMPANY OVERVIEW

FIGURE 36 MITSUBISHI KAKOKI KAISHA LTD.: COMPANY SNAPSHOT

TABLE 182 MITSUBISHI KAKOKI KAISHA LTD.:

PRODUCTS/SERVICES/SOLUTIONS OFFERED

12.1.8 TOMOE ENGINEERING CO., LTD.

TABLE 183 TOMOE ENGINEERING CO., LTD.: COMPANY OVERVIEW

FIGURE 37 TOMOE ENGINEERING CO., LTD.: COMPANY SNAPSHOT

TABLE 184 TOMOE ENGINEERING CO., LTD.: PRODUCTS/SERVICES/SOLUTIONS OFFERED

12.1.9 PIERALISI MAIP SP

TABLE 185 PIERALISI MAIP SP: COMPANY OVERVIEW

TABLE 186 PIERALISI MAIP SP: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 187 PIERALISI MAIP SP: DEALS

12.1.10 TRUCENT

TABLE 188 TRUCENT: COMPANY OVERVIEW

TABLE 189 TRUCENT: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 190 TRUCENT: DEALS

TABLE 191 TRUCENT: OTHERS

\*Details on Business overview, Products/Services/Solutions offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

12.2 OTHER PLAYERS

12.2.1 POLAT MAKINA A.S.

TABLE 192 POLAT MAKINA A.S.: COMPANY OVERVIEW

12.2.2 FRAUTECH SEPARATORS SRL

TABLE 193 FRAUTECH SEPARATORS SRL: COMPANY OVERVIEW

12.2.3 ZK SEPARATION

TABLE 194 ZK SEPARATION: COMPANY OVERVIEW

12.2.4 HUADING SEPARATOR

TABLE 195 HUADING SEPARATOR: COMPANY OVERVIEW

12.2.5 ROUSSELET ROBATEL

TABLE 196 ROUSSELET ROBATEL: COMPANY OVERVIEW

12.2.6 HAUS CENTRIFUGE TECHNOLOGIES

TABLE 197 HAUS CENTRIFUGE TECHNOLOGIES: COMPANY OVERVIEW

12.2.7 US CENTRIFUGE SYSTEMS

TABLE 198 US CENTRIFUGE SYSTEMS: COMPANY OVERVIEW

12.2.8 G-TECH

TABLE 199 G-TECH: COMPANY OVERVIEW

12.2.9 MKR METZGER GMBH

TABLE 200 MKR METZGER GMBH: COMPANY OVERVIEW

12.2.10 REDA SPA

TABLE 201 REDA SPA: COMPANY OVERVIEW

12.2.11 HEINKEL PROCESS TECHNOLOGY GMBH

TABLE 202 HEINKEL PROCESS TECHNOLOGY GMBH: COMPANY OVERVIEW

12.2.12 SERVIZI INDUSTRIALI SRL

TABLE 203 SERVIZI INDUSTRIALI SRL: COMPANY OVERVIEW

12.2.13 FERRUM LTD

TABLE 204 FERRUM LTD: COMPANY OVERVIEW

12.2.14 ANDRITZ

TABLE 205 ANDRITZ: COMPANY OVERVIEW

12.2.15 CHINA GOOD QUALITY SEPARATOR CENTRIFUGE SUPPLIER

TABLE 206 CHINA GOOD QUALITY SEPARATOR CENTRIFUGE SUPPLIER:  
COMPANY OVERVIEW

## **13 APPENDIX**

13.1 INSIGHTS OF INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

13.4 CUSTOMIZATION OPTIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

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