

# (COVID-19 Version) Global Vertical Multistage Centrifugal Pump Market Status (2015-2019) and Forecast (2020-2025) by Region, Product Type & End-Use

https://marketpublishers.com/r/CBCD0FDCD335EN.html

Date: September 2020 Pages: 110 Price: US\$ 3,000.00 (Single User License) ID: CBCD0FDCD335EN

# **Abstracts**

#### SUMMARY

Vertical centrifugal pumps are also referred to as cantilever pumps. They utilize a unique shaft and bearing support configuration that allows the volute to hang in the pump while the bearings are outside the pump. This style of pump uses no stuffing box to seal the shaft but instead utilizes a 'throttle bushing'. A common application for this style of pump is in a parts washer. A centrifugal pump containing two or more impellers is called a multistage centrifugal pump. The impellers may be mounted on the same shaft or on different shafts.

The report forecast global Vertical Multistage Centrifugal Pump market to grow to reach xxx Million USD in 2019 with a CAGR of xx% during the period 2020-2025 due to coronavirus situation.

The report offers detailed coverage of Vertical Multistage Centrifugal Pump industry and main market trends with impact of coronavirus. The market research includes historical and forecast market data, demand, application details, price trends, and company shares of the leading Vertical Multistage Centrifugal Pump by geography. The report splits the market size, by volume and value, on the basis of application type and geography.

First, this report covers the present status and the future prospects of the global Vertical Multistage Centrifugal Pump market for 2015-2024.



And in this report, we analyze global market from 5 geographies: Asia-Pacific[China, Southeast Asia, India, Japan, Korea, Western Asia], Europe[Germany, UK, France, Italy, Russia, Spain, Netherlands, Turkey, Switzerland], North America[United States, Canada, Mexico], Middle East & Africa[GCC, North Africa, South Africa], South America[Brazil, Argentina, Columbia, Chile, Peru].

At the same time, we classify Vertical Multistage Centrifugal Pump according to the type, application by geography. More importantly, the report includes major countries market based on the type and application.

Finally, the report provides detailed profile and data information analysis of leading Vertical Multistage Centrifugal Pump company.

Key Content of Chapters as follows (Including and can be customized) :

Part 1: Market Overview, Development, and Segment by Type, Application & Region Part 2: Company information, Sales, Cost, Margin etc. Part 3: Global Market by company, Type, Application & Geography Part 4: Asia-Pacific Market by Type, Application & Geography Part 5: Europe Market by Type, Application & Geography Part 6: North America Market by Type, Application & Geography Part 7: South America Market by Type, Application & Geography Part 8: Middle East & Africa Market by Type, Application & Geography Part 9: Market Features Part 10: Investment Opportunity Part 11: Conclusion



Market Segment as follows:

By Region

Asia-Pacific[China, Southeast Asia, India, Japan, Korea, Western Asia]

Europe[Germany, UK, France, Italy, Russia, Spain, Netherlands, Turkey, Switzerland]

North America[United States, Canada, Mexico]

Middle East & Africa[GCC, North Africa, South Africa]

South America[Brazil, Argentina, Columbia, Chile, Peru]

#### Key Companies

Grundfos

Ebara

KSB

WILO

Xylem

CNP

Pentair

Dab pumps

Shanghai Kaiquan Pump

#### EAST Pump

#### **ESPA**



Leo

Shakti

Baiyun

U-FLO

Shimge

#### Market by Type

Cast iron & Stainless Pump

Stainless Pump

Others

#### Market by Application

Municipal Water Supply

Irrigation

**General Industrial Services** 

Water Treatment

Others



# Contents

#### PART 1 MARKET OVERVIEW

- 1.1 Market Definition
- 1.2 Market Development
- 1.2.1 Current Situation
- 1.2.2 Aspects of COVID-19 Impact
- 1.3 Ву Туре

Table Type of Vertical Multistage Centrifugal Pump

Figure Global Vertical Multistage Centrifugal Pump Market Share by Type in 2019

1.4 By Application

Table Application of Vertical Multistage Centrifugal Pump

Figure Global Vertical Multistage Centrifugal Pump Market Share by Application in 2019 1.5 By Region

Figure Global Vertical Multistage Centrifugal Pump Market Share by Region in 2019 Figure Asia Vertical Multistage Centrifugal Pump Market Share by Region in 2019

### **PART 2 KEY COMPANIES**

- 2.1 Grundfos
- 2.1.1 Company Profile
- Table Grundfos Overview List
- 2.1.2 Products & Services Overview
- 2.1.3 Sales Data List

Table Vertical Multistage Centrifugal Pump Business Operation of Grundfos (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

- 2.2 Ebara
- 2.3 KSB
- 2.4 WILO
- 2.5 Xylem
- 2.6 CNP
- 2.7 Pentair
- 2.8 Dab pumps
- 2.9 Shanghai Kaiquan Pump
- 2.10 EAST Pump
- 2.11 ESPA
- 2.12 Leo
- 2.13 Shakti

(COVID-19 Version) Global Vertical Multistage Centrifugal Pump Market Status (2015-2019) and Forecast (2020-20...



2.14 Baiyun 2.15 U-FLO 2.16 Shimge

#### PART 3 GLOBAL MARKET STATUS AND FUTURE FORECAST

3.1 Global Market by Region

Table Global Vertical Multistage Centrifugal Pump Market by Region, 2015-2019 (Million USD)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Region in 2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Region, 2015-2019 (Volume)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Region in 2019 (Volume)

Table Price List by Region, 2015-2019

3.2 Global Market by Company

Table Global Vertical Multistage Centrifugal Pump Market by Company, 2015-2019 (Million USD)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Company in 2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Company, 2015-2019 (Volume)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Company in 2019 (Volume)

Table Price List by Company, 2015-2019

3.3 Global Market by Type

Table Global Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume) Figure Global Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Table Price List by Type, 2015-2019

3.4 Global Market by Application

Table Global Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Application in 2019



(Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Figure Global Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Table Price List by Application, 2015-2019

3.5 Global Market by Forecast

Figure Global Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Global Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

# PART 4 ASIA-PACIFIC MARKET STATUS AND FUTURE FORECAST

4.1 Asia-Pacific Market by Type

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Table Price List by Type, 2015-2019

4.2 Asia-Pacific Market by Application

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Million USD)

Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Volume)

Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Table Price List by Application, 2015-2019

4.3 Asia-Pacific Market by Geography

4.3.1 China Market Status and Future Forecast

Figure China Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure China Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019



(Volume)

Figure China Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure China Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

4.3.2 Southeast Asia Market Status and Future Forecast

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

4.3.3 India Market Status and Future Forecast

Figure India Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure India Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure India Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure India Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) 4.3.4 Japan Market Status and Future Forecast

Figure Japan Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Japan Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Japan Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Japan Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

4.3.5 Korea Market Status and Future Forecast

Figure Korea Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Korea Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Korea Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Korea Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025



(Volume)
4.3.6 Oceania Market Status and Future Forecast
Figure Oceania Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019
(Million USD)
Figure Oceania Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019
(Volume)
Figure Oceania Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Million USD)
Figure Oceania Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Million USD)
Figure Oceania Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Volume)
4.4 Asia-Pacific Market by Forecast
Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Million USD)
Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Million USD)

### PART 5 EUROPE MARKET STATUS AND FUTURE FORECAST

5.1 Europe Market by Type

Table Europe Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Table Europe Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Table Price List by Type, 2015-2019

5.2 Europe Market by Application

Table Europe Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Table Europe Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Table Price List by Application, 2015-2019

5.3 Europe Market by Geography



5.3.1 Germany Market Status and Future Forecast

Figure Germany Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Germany Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Germany Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Germany Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

5.3.2 UK Market Status and Future Forecast

Figure UK Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure UK Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure UK Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure UK Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) 5.3.3 France Market Status and Future Forecast

Figure France Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure France Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure France Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure France Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

5.3.4 Italy Market Status and Future Forecast

Figure Italy Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Italy Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Italy Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Italy Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) 5.3.5 Russia Market Status and Future Forecast

Figure Russia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Russia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)



Figure Russia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Russia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

5.3.6 Spain Market Status and Future Forecast

Figure Spain Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Spain Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Spain Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Spain Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

5.3.6 Netherlands Market Status and Future Forecast

Figure Netherlands Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

5.3.7 Turkey Market Status and Future Forecast

Figure Turkey Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Turkey Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Turkey Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Turkey Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

5.3.6 Switzerland Market Status and Future Forecast

Figure Switzerland Vertical Multistage Centrifugal Pump Market Market Status,

2015-2019 (Million USD)

Figure Switzerland Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Switzerland Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Switzerland Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025



(Volume)
5.4 Europe Market by Forecast
Figure Europe Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Million USD)
Figure Europe Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025
(Volume)

### PART 6 NORTH AMERICA MARKET STATUS AND FUTURE FORECAST

6.1 North America Market by Type

Table North America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Table North America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Table Price List by Type, 2015-2019

6.2 North America Market by Application

Table North America Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Million USD)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Table North America Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Volume)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Table Price List by Application, 2015-2019

6.3 North America Market by Geography

6.3.1 United States Market Status and Future Forecast

Figure United States Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure United States Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure United States Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure United States Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)



6.3.2 Canada Market Status and Future Forecast

Figure Canada Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Canada Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Canada Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Canada Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

6.3.3 Mexico Market Status and Future Forecast

Figure Mexico Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Mexico Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Mexico Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Mexico Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

6.4 North America Market by Forecast

Figure North America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure North America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

### PART 7 SOUTH AMERICA MARKET STATUS AND FUTURE FORECAST

7.1 South America Market by Type

Table South America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Table South America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Table Price List by Type, 2015-2019

7.2 South America Market by Application

Table South America Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)



Figure South America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Table South America Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Table Price List by Application, 2015-2019

7.3 South America Market by Geography

7.3.1 Brazil Market Status and Future Forecast

Figure Brazil Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Brazil Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Brazil Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Brazil Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

7.3.2 Argentina Market Status and Future Forecast

Figure Argentina Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Argentina Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Argentina Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Argentina Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

7.3.3 Columbia Market Status and Future Forecast

Figure Columbia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Columbia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Columbia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Columbia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

7.3.4 Chile Market Status and Future Forecast

Figure Chile Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Chile Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019



(Volume)

Figure Chile Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Chile Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

7.3.5 Peru Market Status and Future Forecast

Figure Peru Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Peru Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Peru Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Peru Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) 7.4 South America Market by Forecast

Figure South America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure South America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

# PART 8 MIDDLE EAST & AFRICA MARKET STATUS AND FUTURE FORECAST

8.1 Middle East & Africa Market by Type

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Table Price List by Type, 2015-2019

8.2 Middle East & Africa Market by Application

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by



Application in 2019 (Volume)

Table Price List by Application, 2015-2019

8.3 Middle East & Africa Market by Geography

8.3.1 GCC Market Status and Future Forecast

Figure GCC Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure GCC Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure GCC Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure GCC Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) 8.3.2 North Africa Market Status and Future Forecast

Figure North Africa Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure North Africa Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure North Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure North Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

8.3.3 South Africa Market Status and Future Forecast

Figure South Africa Vertical Multistage Centrifugal Pump Market Market Status,

2015-2019 (Million USD)

Figure South Africa Vertical Multistage Centrifugal Pump Market Market Status,

2015-2019 (Volume)

Figure South Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure South Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

8.4 Middle East & Africa Market by Forecast

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

# PART 9 MARKET FEATURES

9.1 Product Features

9.2 Price Features



9.3 Channel Features

9.4 Purchasing Features

### PART 10 INVESTMENT OPPORTUNITY

- 10.1 Regional Investment Opportunity
- 10.2 Industry Investment Opportunity
- PART 11 Coronavirus Impact
- 11.1 Impact on Industry Upstream
- 11.2 Impact on Industry Downstream
- 11.3 Impact on Industry Channels
- 11.4 Impact on Industry Competition
- 11.5 Impact on Industry Obtain Employment

### PART 12 CONCLUSION



Table Type of Vertical Multistage Centrifugal Pump

# **List Of Tables**

#### LIST OF TABLES

Table Application of Vertical Multistage Centrifugal Pump Table Grundfos Overview List Table Vertical Multistage Centrifugal Pump Business Operation of Grundfos (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table Machinery & Equipment Business Operation of Ebara (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table Business Operation of KSB (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table Volume Business Operation of WILO (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table xxx Business Operation of Xylem (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table xx% Business Operation of CNP (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 16 Business Operation of Pentair (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 3 Business Operation of Dab pumps (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 0 Business Operation of Shanghai Kaiguan Pump (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 5 Business Operation of EAST Pump (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 2080 Business Operation of ESPA (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 2500 Business Operation of Leo (Sales Revenue, Cost, Gross Margin) Table 3250 Business Operation of Shakti (Sales Revenue, Sales Volume, Price, Cost, Gross Margin) Table 96 Business Operation of Baiyun (Sales Revenue, Cost, Gross Margin) Table Business Operation of U-FLO (Sales Revenue, Cost, Gross Margin) Table Vertical centrifugal pumps are also referred to as cantilever pumps. They utilize a unique shaft and bearing support configuration that allows the volute to hang in the pump while the bearings are outside the pump. This style of pump uses no stuffing box to seal the shaft but instead utilizes a "throttle bushing". A common application for this style of pump is in a parts washer. A centrifugal pump containing two or more impellers is called a multistage centrifugal pump. The impellers may be mounted on the same



shaft or on different shafts. Business Operation of Shimge (Sales Revenue, Cost, Gross Margin)

Table Global Vertical Multistage Centrifugal Pump Market by Region, 2015-2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Region, 2015-2019 (Volume)

Table Price List by Region, 2015-2019

Table Global Vertical Multistage Centrifugal Pump Market by Company, 2015-2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Company, 2015-2019 (Volume)

Table Price List by Company, 2015-2019

Table Global Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume) Table Price List by Type, 2015-2019

Table Global Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Table Global Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Table Price List by Application, 2015-2019

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Table Price List by Type, 2015-2019

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Million USD)

Table Asia-Pacific Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Volume)

Table Price List by Application, 2015-2019

Table Europe Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Table Europe Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Table Price List by Type, 2015-2019

Table Europe Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Table Europe Vertical Multistage Centrifugal Pump Market by Application, 2015-2019



(Volume)

 Table Price List by Application, 2015-2019

Table North America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Table North America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Table Price List by Type, 2015-2019

Table North America Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Table North America Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Table Price List by Application, 2015-2019

Table South America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Table South America Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Volume)

Table Price List by Type, 2015-2019

Table South America Vertical Multistage Centrifugal Pump Market by Application,

2015-2019 (Million USD)

Table South America Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Table Price List by Application, 2015-2019

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Type, 2015-2019 (Million USD)

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Type,

2015-2019 (Volume)

Table Price List by Type, 2015-2019

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Million USD)

Table Middle East & Africa Vertical Multistage Centrifugal Pump Market by Application, 2015-2019 (Volume)

Table Price List by Application, 2015-2019



# **List Of Figures**

#### LIST OF FIGURES

Figure Global Vertical Multistage Centrifugal Pump Market Share by Type in 2019 Figure Global Vertical Multistage Centrifugal Pump Market Share by Application in 2019 Figure Global Vertical Multistage Centrifugal Pump Market Share by Region in 2019 Figure Asia Vertical Multistage Centrifugal Pump Market Share by Region in 2019 Figure Global Vertical Multistage Centrifugal Pump Market Share by Region in 2019 (Million USD) Figure Global Vertical Multistage Centrifugal Pump Market Share by Region in 2019 (Volume) Figure Global Vertical Multistage Centrifugal Pump Market Share by Company in 2019 (Million USD) Figure Global Vertical Multistage Centrifugal Pump Market Share by Company in 2019 (Volume) Figure Global Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD) Figure Global Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume) Figure Global Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD) Figure Global Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume) Figure Global Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD) Figure Global Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD) Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume) Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD) Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume) Figure China Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD) Figure China Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)



Figure China Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure China Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Southeast Asia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure India Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure India Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure India Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure India Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) Figure Japan Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Japan Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Japan Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Japan Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Korea Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Korea Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Korea Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Korea Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Oceania Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Oceania Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)



Figure Oceania Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Oceania Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Asia-Pacific Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Figure Europe Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Figure Germany Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Germany Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Germany Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Germany Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure UK Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure UK Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure UK Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure UK Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) Figure France Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure France Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure France Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure France Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)



Figure Italy Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Italy Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Italy Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Italy Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) Figure Russia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Russia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Russia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Russia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Spain Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Spain Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Spain Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Spain Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Market Status,

2015-2019 (Volume)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Netherlands Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Turkey Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Turkey Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Turkey Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Turkey Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)



Figure Switzerland Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Switzerland Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Switzerland Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Switzerland Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Europe Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Europe Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Figure North America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Figure United States Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure United States Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure United States Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure United States Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Canada Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Canada Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Canada Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Canada Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Mexico Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Mexico Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019



(Volume)

Figure Mexico Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Mexico Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure North America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure North America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Figure South America Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Figure Brazil Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Brazil Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Brazil Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Brazil Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Argentina Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Argentina Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Argentina Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Argentina Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Columbia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Columbia Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Columbia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)



Figure Columbia Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Chile Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Chile Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Chile Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Chile Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Peru Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure Peru Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure Peru Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Peru Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) Figure South America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure South America Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Million USD)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Type in 2019 (Volume)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Million USD)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Share by Application in 2019 (Volume)

Figure GCC Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure GCC Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure GCC Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure GCC Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume) Figure North Africa Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure North Africa Vertical Multistage Centrifugal Pump Market Market Status,



2015-2019 (Volume)

Figure North Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure North Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure South Africa Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Million USD)

Figure South Africa Vertical Multistage Centrifugal Pump Market Market Status, 2015-2019 (Volume)

Figure South Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure South Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Million USD)

Figure Middle East & Africa Vertical Multistage Centrifugal Pump Market Forecast, 2020-2025 (Volume)



#### I would like to order

Product name: (COVID-19 Version) Global Vertical Multistage Centrifugal Pump Market Status (2015-2019) and Forecast (2020-2025) by Region, Product Type & End-Use Product link: https://marketpublishers.com/r/CBCD0FDCD335EN.html Price: US\$ 3,000.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: info@marketpublishers.com

### Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/CBCD0FDCD335EN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

\*\*All fields are required

Custumer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



(COVID-19 Version) Global Vertical Multistage Centrifugal Pump Market Status (2015-2019) and Forecast (2020-20...