

Global Ultra-High Speed Electric Spindle Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ultra-High Speed Electric Spindle market size was valued at US\$ 3498 million in 2025 and is forecast to a readjusted size of US\$ 5858 million by 2032 with a CAGR of 7.6% during review period.

In 2025, global Ultra-High Speed Electric Spindle production reached approximately 369,565 units, with an average global market price of around US\$9,200 per unit.

The gross profit margin of major companies in the industry is between 25%-40%.

In 2025, the global production capacity of ultra-high speed electric spindles was approximately 492,753 units.

Ultra-High Speed Electric Spindles are precision machining components designed to operate at extremely high rotational speeds, often exceeding 30,000 RPM. These spindles integrate high-performance motors, precision bearings, cooling systems, and electronic control modules to support advanced manufacturing processes. They are widely used in CNC machining centers, high-speed milling machines, grinding equipment, and semiconductor processing machinery. Ultra-high speed spindles enable high-precision machining, improved surface finishing, and increased production efficiency in industries such as aerospace, automotive manufacturing, and electronics production.

The industrial chain includes upstream precision bearings, motor components, spindle shafts, cooling modules, sensors, and control electronics. Midstream manufacturing involves precision machining, motor integration, dynamic balancing, and performance

testing. Downstream users include machine tool manufacturers, semiconductor equipment suppliers, aerospace component producers, automotive parts manufacturers, and precision mold processing companies. Supporting services include spindle repair, refurbishment, and technical maintenance.

The ultra-high speed electric spindle market is expanding as advanced manufacturing industries demand higher precision and faster machining capabilities. Industries such as aerospace, semiconductor manufacturing, and automotive production require high-speed machining solutions to improve productivity and product quality. Technological advancements in bearing materials, cooling systems, and motor control technologies are enabling higher rotational speeds and improved reliability. Manufacturers are also integrating smart monitoring systems to track spindle performance and reduce downtime. However, high manufacturing costs and complex engineering requirements may limit adoption in smaller machining facilities. Overall, continued growth in high-end manufacturing is expected to drive sustained demand for ultra-high speed electric spindles.

This report is a detailed and comprehensive analysis for global Ultra-High Speed Electric Spindle market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Ultra-High Speed Electric Spindle market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-High Speed Electric Spindle market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-High Speed Electric Spindle market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-High Speed Electric Spindle market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Ultra-High Speed Electric Spindle

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ultra-High Speed Electric Spindle market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Guangzhou Haozhi Industrial, Celera Motion, Fischer Precise, Posa-spindle, Nakanishi, Jiangsu Xingchen Group, Parfaite Tool, IBAG Group, Siemens, GMN, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Ultra-High Speed Electric Spindle market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Air-cooled Electric Spindle

Water-cooled Electric Spindle

Oil-cooled Electric Spindle

Market segment by Bearing Type

Ball Bearing Spindle

Ceramic Bearing Spindle

Magnetic Bearing Spindle

Market segment by Speed Range

60,000 rpm Electric Spindle

100,000 rpm Electric Spindle

150,000 rpm Electric Spindle

Market segment by Application

Printed Circuit Board

Consumer Electronics

Machinery Manufacturing

Automotive and Aerospace

Others

Major players covered

Guangzhou Haozhi Industrial

Celera Motion

Fischer Precise

Posa-spindle

Nakanishi

Jiangsu Xingchen Group

Parfaite Tool

IBAG Group

Siemens

GMN

Wuxi Bohua Electromechanical

Kessler

Shenzhen Sufeng Science And Technology

Royal-spindles

ZYS International

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Ultra-High Speed Electric Spindle product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultra-High Speed Electric Spindle, with price, sales quantity, revenue, and global market share of Ultra-High Speed Electric Spindle from 2021 to 2026.

Chapter 3, the Ultra-High Speed Electric Spindle competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultra-High Speed Electric Spindle breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Ultra-High Speed Electric Spindle market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Ultra-High Speed Electric Spindle.

Chapter 14 and 15, to describe Ultra-High Speed Electric Spindle sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Ultra-High Speed Electric Spindle Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Air-cooled Electric Spindle

1.3.3 Water-cooled Electric Spindle

1.3.4 Oil-cooled Electric Spindle

1.4 Market Analysis by Bearing Type

1.4.1 Overview: Global Ultra-High Speed Electric Spindle Consumption Value by Bearing Type: 2021 Versus 2025 Versus 2032

1.4.2 Ball Bearing Spindle

1.4.3 Ceramic Bearing Spindle

1.4.4 Magnetic Bearing Spindle

1.5 Market Analysis by Speed Range

1.5.1 Overview: Global Ultra-High Speed Electric Spindle Consumption Value by Speed Range: 2021 Versus 2025 Versus 2032

1.5.2 60,000 rpm Electric Spindle

1.5.3 100,000 rpm Electric Spindle

1.5.4 150,000 rpm Electric Spindle

1.6 Market Analysis by Application

1.6.1 Overview: Global Ultra-High Speed Electric Spindle Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Printed Circuit Board

1.6.3 Consumer Electronics

1.6.4 Machinery Manufacturing

1.6.5 Automotive and Aerospace

1.6.6 Others

1.7 Global Ultra-High Speed Electric Spindle Market Size & Forecast

1.7.1 Global Ultra-High Speed Electric Spindle Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Ultra-High Speed Electric Spindle Sales Quantity (2021-2032)

1.7.3 Global Ultra-High Speed Electric Spindle Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Guangzhou Haozhi Industrial

2.1.1 Guangzhou Haozhi Industrial Details

2.1.2 Guangzhou Haozhi Industrial Major Business

2.1.3 Guangzhou Haozhi Industrial Ultra-High Speed Electric Spindle Product and Services

2.1.4 Guangzhou Haozhi Industrial Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Guangzhou Haozhi Industrial Recent Developments/Updates

2.2 Celera Motion

2.2.1 Celera Motion Details

2.2.2 Celera Motion Major Business

2.2.3 Celera Motion Ultra-High Speed Electric Spindle Product and Services

2.2.4 Celera Motion Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Celera Motion Recent Developments/Updates

2.3 Fischer Precise

2.3.1 Fischer Precise Details

2.3.2 Fischer Precise Major Business

2.3.3 Fischer Precise Ultra-High Speed Electric Spindle Product and Services

2.3.4 Fischer Precise Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Fischer Precise Recent Developments/Updates

2.4 Posa-spindle

2.4.1 Posa-spindle Details

2.4.2 Posa-spindle Major Business

2.4.3 Posa-spindle Ultra-High Speed Electric Spindle Product and Services

2.4.4 Posa-spindle Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Posa-spindle Recent Developments/Updates

2.5 Nakanishi

2.5.1 Nakanishi Details

2.5.2 Nakanishi Major Business

2.5.3 Nakanishi Ultra-High Speed Electric Spindle Product and Services

2.5.4 Nakanishi Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Nakanishi Recent Developments/Updates

2.6 Jiangsu Xingchen Group

2.6.1 Jiangsu Xingchen Group Details

- 2.6.2 Jiangsu Xingchen Group Major Business
- 2.6.3 Jiangsu Xingchen Group Ultra-High Speed Electric Spindle Product and Services
- 2.6.4 Jiangsu Xingchen Group Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Jiangsu Xingchen Group Recent Developments/Updates
- 2.7 Parfaite Tool
 - 2.7.1 Parfaite Tool Details
 - 2.7.2 Parfaite Tool Major Business
 - 2.7.3 Parfaite Tool Ultra-High Speed Electric Spindle Product and Services
 - 2.7.4 Parfaite Tool Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Parfaite Tool Recent Developments/Updates
- 2.8 IBAG Group
 - 2.8.1 IBAG Group Details
 - 2.8.2 IBAG Group Major Business
 - 2.8.3 IBAG Group Ultra-High Speed Electric Spindle Product and Services
 - 2.8.4 IBAG Group Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 IBAG Group Recent Developments/Updates
- 2.9 Siemens
 - 2.9.1 Siemens Details
 - 2.9.2 Siemens Major Business
 - 2.9.3 Siemens Ultra-High Speed Electric Spindle Product and Services
 - 2.9.4 Siemens Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Siemens Recent Developments/Updates
- 2.10 GMN
 - 2.10.1 GMN Details
 - 2.10.2 GMN Major Business
 - 2.10.3 GMN Ultra-High Speed Electric Spindle Product and Services
 - 2.10.4 GMN Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 GMN Recent Developments/Updates
- 2.11 Wuxi Bohua Electromechanical
 - 2.11.1 Wuxi Bohua Electromechanical Details
 - 2.11.2 Wuxi Bohua Electromechanical Major Business
 - 2.11.3 Wuxi Bohua Electromechanical Ultra-High Speed Electric Spindle Product and Services
 - 2.11.4 Wuxi Bohua Electromechanical Ultra-High Speed Electric Spindle Sales

Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Wuxi Bohua Electromechanical Recent Developments/Updates

2.12 Kessler

2.12.1 Kessler Details

2.12.2 Kessler Major Business

2.12.3 Kessler Ultra-High Speed Electric Spindle Product and Services

2.12.4 Kessler Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Kessler Recent Developments/Updates

2.13 Shenzhen Sufeng Science And Technology

2.13.1 Shenzhen Sufeng Science And Technology Details

2.13.2 Shenzhen Sufeng Science And Technology Major Business

2.13.3 Shenzhen Sufeng Science And Technology Ultra-High Speed Electric Spindle Product and Services

2.13.4 Shenzhen Sufeng Science And Technology Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Shenzhen Sufeng Science And Technology Recent Developments/Updates

2.14 Royal-spindles

2.14.1 Royal-spindles Details

2.14.2 Royal-spindles Major Business

2.14.3 Royal-spindles Ultra-High Speed Electric Spindle Product and Services

2.14.4 Royal-spindles Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Royal-spindles Recent Developments/Updates

2.15 ZYS International

2.15.1 ZYS International Details

2.15.2 ZYS International Major Business

2.15.3 ZYS International Ultra-High Speed Electric Spindle Product and Services

2.15.4 ZYS International Ultra-High Speed Electric Spindle Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 ZYS International Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ULTRA-HIGH SPEED ELECTRIC SPINDLE BY MANUFACTURER

3.1 Global Ultra-High Speed Electric Spindle Sales Quantity by Manufacturer (2021-2026)

3.2 Global Ultra-High Speed Electric Spindle Revenue by Manufacturer (2021-2026)

3.3 Global Ultra-High Speed Electric Spindle Average Price by Manufacturer

(2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Ultra-High Speed Electric Spindle by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Ultra-High Speed Electric Spindle Manufacturer Market Share in 2025

3.4.3 Top 6 Ultra-High Speed Electric Spindle Manufacturer Market Share in 2025

3.5 Ultra-High Speed Electric Spindle Market: Overall Company Footprint Analysis

3.5.1 Ultra-High Speed Electric Spindle Market: Region Footprint

3.5.2 Ultra-High Speed Electric Spindle Market: Company Product Type Footprint

3.5.3 Ultra-High Speed Electric Spindle Market: Company Product Application

Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Ultra-High Speed Electric Spindle Market Size by Region

4.1.1 Global Ultra-High Speed Electric Spindle Sales Quantity by Region (2021-2032)

4.1.2 Global Ultra-High Speed Electric Spindle Consumption Value by Region (2021-2032)

4.1.3 Global Ultra-High Speed Electric Spindle Average Price by Region (2021-2032)

4.2 North America Ultra-High Speed Electric Spindle Consumption Value (2021-2032)

4.3 Europe Ultra-High Speed Electric Spindle Consumption Value (2021-2032)

4.4 Asia-Pacific Ultra-High Speed Electric Spindle Consumption Value (2021-2032)

4.5 South America Ultra-High Speed Electric Spindle Consumption Value (2021-2032)

4.6 Middle East & Africa Ultra-High Speed Electric Spindle Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2032)

5.2 Global Ultra-High Speed Electric Spindle Consumption Value by Type (2021-2032)

5.3 Global Ultra-High Speed Electric Spindle Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2032)

6.2 Global Ultra-High Speed Electric Spindle Consumption Value by Application (2021-2032)

6.3 Global Ultra-High Speed Electric Spindle Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2032)

7.2 North America Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2032)

7.3 North America Ultra-High Speed Electric Spindle Market Size by Country

7.3.1 North America Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2032)

7.3.2 North America Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2032)

8.2 Europe Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2032)

8.3 Europe Ultra-High Speed Electric Spindle Market Size by Country

8.3.1 Europe Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2032)

8.3.2 Europe Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Ultra-High Speed Electric Spindle Market Size by Region

9.3.1 Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Ultra-High Speed Electric Spindle Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2032)

10.2 South America Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2032)

10.3 South America Ultra-High Speed Electric Spindle Market Size by Country

10.3.1 South America Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2032)

10.3.2 South America Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Ultra-High Speed Electric Spindle Market Size by Country

11.3.1 Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Ultra-High Speed Electric Spindle Market Drivers
- 12.2 Ultra-High Speed Electric Spindle Market Restraints
- 12.3 Ultra-High Speed Electric Spindle Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Ultra-High Speed Electric Spindle and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Ultra-High Speed Electric Spindle
- 13.3 Ultra-High Speed Electric Spindle Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Ultra-High Speed Electric Spindle Typical Distributors
- 14.3 Ultra-High Speed Electric Spindle Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Ultra-High Speed Electric Spindle Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Ultra-High Speed Electric Spindle Consumption Value by Bearing Type, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Ultra-High Speed Electric Spindle Consumption Value by Speed Range, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Ultra-High Speed Electric Spindle Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Guangzhou Haozhi Industrial Basic Information, Manufacturing Base and Competitors
- Table 6. Guangzhou Haozhi Industrial Major Business
- Table 7. Guangzhou Haozhi Industrial Ultra-High Speed Electric Spindle Product and Services
- Table 8. Guangzhou Haozhi Industrial Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Guangzhou Haozhi Industrial Recent Developments/Updates
- Table 10. Celera Motion Basic Information, Manufacturing Base and Competitors
- Table 11. Celera Motion Major Business
- Table 12. Celera Motion Ultra-High Speed Electric Spindle Product and Services
- Table 13. Celera Motion Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Celera Motion Recent Developments/Updates
- Table 15. Fischer Precise Basic Information, Manufacturing Base and Competitors
- Table 16. Fischer Precise Major Business
- Table 17. Fischer Precise Ultra-High Speed Electric Spindle Product and Services
- Table 18. Fischer Precise Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Fischer Precise Recent Developments/Updates
- Table 20. Posa-spindle Basic Information, Manufacturing Base and Competitors
- Table 21. Posa-spindle Major Business
- Table 22. Posa-spindle Ultra-High Speed Electric Spindle Product and Services
- Table 23. Posa-spindle Ultra-High Speed Electric Spindle Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Posa-spindle Recent Developments/Updates

Table 25. Nakanishi Basic Information, Manufacturing Base and Competitors

Table 26. Nakanishi Major Business

Table 27. Nakanishi Ultra-High Speed Electric Spindle Product and Services

Table 28. Nakanishi Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Nakanishi Recent Developments/Updates

Table 30. Jiangsu Xingchen Group Basic Information, Manufacturing Base and Competitors

Table 31. Jiangsu Xingchen Group Major Business

Table 32. Jiangsu Xingchen Group Ultra-High Speed Electric Spindle Product and Services

Table 33. Jiangsu Xingchen Group Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Jiangsu Xingchen Group Recent Developments/Updates

Table 35. Parfaite Tool Basic Information, Manufacturing Base and Competitors

Table 36. Parfaite Tool Major Business

Table 37. Parfaite Tool Ultra-High Speed Electric Spindle Product and Services

Table 38. Parfaite Tool Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Parfaite Tool Recent Developments/Updates

Table 40. IBAG Group Basic Information, Manufacturing Base and Competitors

Table 41. IBAG Group Major Business

Table 42. IBAG Group Ultra-High Speed Electric Spindle Product and Services

Table 43. IBAG Group Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. IBAG Group Recent Developments/Updates

Table 45. Siemens Basic Information, Manufacturing Base and Competitors

Table 46. Siemens Major Business

Table 47. Siemens Ultra-High Speed Electric Spindle Product and Services

Table 48. Siemens Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Siemens Recent Developments/Updates

Table 50. GMN Basic Information, Manufacturing Base and Competitors

Table 51. GMN Major Business

Table 52. GMN Ultra-High Speed Electric Spindle Product and Services

Table 53. GMN Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. GMN Recent Developments/Updates

Table 55. Wuxi Bohua Electromechanical Basic Information, Manufacturing Base and Competitors

Table 56. Wuxi Bohua Electromechanical Major Business

Table 57. Wuxi Bohua Electromechanical Ultra-High Speed Electric Spindle Product and Services

Table 58. Wuxi Bohua Electromechanical Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Wuxi Bohua Electromechanical Recent Developments/Updates

Table 60. Kessler Basic Information, Manufacturing Base and Competitors

Table 61. Kessler Major Business

Table 62. Kessler Ultra-High Speed Electric Spindle Product and Services

Table 63. Kessler Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Kessler Recent Developments/Updates

Table 65. Shenzhen Sufeng Science And Technology Basic Information, Manufacturing Base and Competitors

Table 66. Shenzhen Sufeng Science And Technology Major Business

Table 67. Shenzhen Sufeng Science And Technology Ultra-High Speed Electric Spindle Product and Services

Table 68. Shenzhen Sufeng Science And Technology Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Shenzhen Sufeng Science And Technology Recent Developments/Updates

Table 70. Royal-spindles Basic Information, Manufacturing Base and Competitors

Table 71. Royal-spindles Major Business

Table 72. Royal-spindles Ultra-High Speed Electric Spindle Product and Services

Table 73. Royal-spindles Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Royal-spindles Recent Developments/Updates

Table 75. ZYS International Basic Information, Manufacturing Base and Competitors

Table 76. ZYS International Major Business

Table 77. ZYS International Ultra-High Speed Electric Spindle Product and Services

Table 78. ZYS International Ultra-High Speed Electric Spindle Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ZYS International Recent Developments/Updates

Table 80. Global Ultra-High Speed Electric Spindle Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 81. Global Ultra-High Speed Electric Spindle Revenue by Manufacturer (2021-2026) & (USD Million)

Table 82. Global Ultra-High Speed Electric Spindle Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 83. Market Position of Manufacturers in Ultra-High Speed Electric Spindle, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 84. Head Office and Ultra-High Speed Electric Spindle Production Site of Key Manufacturer

Table 85. Ultra-High Speed Electric Spindle Market: Company Product Type Footprint

Table 86. Ultra-High Speed Electric Spindle Market: Company Product Application Footprint

Table 87. Ultra-High Speed Electric Spindle New Market Entrants and Barriers to Market Entry

Table 88. Ultra-High Speed Electric Spindle Mergers, Acquisition, Agreements, and Collaborations

Table 89. Global Ultra-High Speed Electric Spindle Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 90. Global Ultra-High Speed Electric Spindle Sales Quantity by Region (2021-2026) & (K Units)

Table 91. Global Ultra-High Speed Electric Spindle Sales Quantity by Region (2027-2032) & (K Units)

Table 92. Global Ultra-High Speed Electric Spindle Consumption Value by Region (2021-2026) & (USD Million)

Table 93. Global Ultra-High Speed Electric Spindle Consumption Value by Region (2027-2032) & (USD Million)

Table 94. Global Ultra-High Speed Electric Spindle Average Price by Region (2021-2026) & (US\$/Unit)

Table 95. Global Ultra-High Speed Electric Spindle Average Price by Region (2027-2032) & (US\$/Unit)

Table 96. Global Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2026) & (K Units)

Table 97. Global Ultra-High Speed Electric Spindle Sales Quantity by Type (2027-2032)

& (K Units)

Table 98. Global Ultra-High Speed Electric Spindle Consumption Value by Type (2021-2026) & (USD Million)

Table 99. Global Ultra-High Speed Electric Spindle Consumption Value by Type (2027-2032) & (USD Million)

Table 100. Global Ultra-High Speed Electric Spindle Average Price by Type (2021-2026) & (US\$/Unit)

Table 101. Global Ultra-High Speed Electric Spindle Average Price by Type (2027-2032) & (US\$/Unit)

Table 102. Global Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2026) & (K Units)

Table 103. Global Ultra-High Speed Electric Spindle Sales Quantity by Application (2027-2032) & (K Units)

Table 104. Global Ultra-High Speed Electric Spindle Consumption Value by Application (2021-2026) & (USD Million)

Table 105. Global Ultra-High Speed Electric Spindle Consumption Value by Application (2027-2032) & (USD Million)

Table 106. Global Ultra-High Speed Electric Spindle Average Price by Application (2021-2026) & (US\$/Unit)

Table 107. Global Ultra-High Speed Electric Spindle Average Price by Application (2027-2032) & (US\$/Unit)

Table 108. North America Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2026) & (K Units)

Table 109. North America Ultra-High Speed Electric Spindle Sales Quantity by Type (2027-2032) & (K Units)

Table 110. North America Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2026) & (K Units)

Table 111. North America Ultra-High Speed Electric Spindle Sales Quantity by Application (2027-2032) & (K Units)

Table 112. North America Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2026) & (K Units)

Table 113. North America Ultra-High Speed Electric Spindle Sales Quantity by Country (2027-2032) & (K Units)

Table 114. North America Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2026) & (USD Million)

Table 115. North America Ultra-High Speed Electric Spindle Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Europe Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2026) & (K Units)

Table 117. Europe Ultra-High Speed Electric Spindle Sales Quantity by Type (2027-2032) & (K Units)

Table 118. Europe Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2026) & (K Units)

Table 119. Europe Ultra-High Speed Electric Spindle Sales Quantity by Application (2027-2032) & (K Units)

Table 120. Europe Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2026) & (K Units)

Table 121. Europe Ultra-High Speed Electric Spindle Sales Quantity by Country (2027-2032) & (K Units)

Table 122. Europe Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2026) & (USD Million)

Table 123. Europe Ultra-High Speed Electric Spindle Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2026) & (K Units)

Table 125. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Type (2027-2032) & (K Units)

Table 126. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2026) & (K Units)

Table 127. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Application (2027-2032) & (K Units)

Table 128. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Region (2021-2026) & (K Units)

Table 129. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity by Region (2027-2032) & (K Units)

Table 130. Asia-Pacific Ultra-High Speed Electric Spindle Consumption Value by Region (2021-2026) & (USD Million)

Table 131. Asia-Pacific Ultra-High Speed Electric Spindle Consumption Value by Region (2027-2032) & (USD Million)

Table 132. South America Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2026) & (K Units)

Table 133. South America Ultra-High Speed Electric Spindle Sales Quantity by Type (2027-2032) & (K Units)

Table 134. South America Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2026) & (K Units)

Table 135. South America Ultra-High Speed Electric Spindle Sales Quantity by Application (2027-2032) & (K Units)

Table 136. South America Ultra-High Speed Electric Spindle Sales Quantity by Country

(2021-2026) & (K Units)

Table 137. South America Ultra-High Speed Electric Spindle Sales Quantity by Country (2027-2032) & (K Units)

Table 138. South America Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2026) & (USD Million)

Table 139. South America Ultra-High Speed Electric Spindle Consumption Value by Country (2027-2032) & (USD Million)

Table 140. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Type (2021-2026) & (K Units)

Table 141. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Type (2027-2032) & (K Units)

Table 142. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Application (2021-2026) & (K Units)

Table 143. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Application (2027-2032) & (K Units)

Table 144. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Country (2021-2026) & (K Units)

Table 145. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity by Country (2027-2032) & (K Units)

Table 146. Middle East & Africa Ultra-High Speed Electric Spindle Consumption Value by Country (2021-2026) & (USD Million)

Table 147. Middle East & Africa Ultra-High Speed Electric Spindle Consumption Value by Country (2027-2032) & (USD Million)

Table 148. Ultra-High Speed Electric Spindle Raw Material

Table 149. Key Manufacturers of Ultra-High Speed Electric Spindle Raw Materials

Table 150. Ultra-High Speed Electric Spindle Typical Distributors

Table 151. Ultra-High Speed Electric Spindle Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Ultra-High Speed Electric Spindle Picture
- Figure 2. Global Ultra-High Speed Electric Spindle Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Ultra-High Speed Electric Spindle Revenue Market Share by Type in 2025
- Figure 4. Air-cooled Electric Spindle Examples
- Figure 5. Water-cooled Electric Spindle Examples
- Figure 6. Oil-cooled Electric Spindle Examples
- Figure 7. Global Ultra-High Speed Electric Spindle Revenue by Bearing Type, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Ultra-High Speed Electric Spindle Revenue Market Share by Bearing Type in 2025
- Figure 9. Ball Bearing Spindle Examples
- Figure 10. Ceramic Bearing Spindle Examples
- Figure 11. Magnetic Bearing Spindle Examples
- Figure 12. Global Ultra-High Speed Electric Spindle Revenue by Speed Range, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Ultra-High Speed Electric Spindle Revenue Market Share by Speed Range in 2025
- Figure 14. 60,000 rpm Electric Spindle Examples
- Figure 15. 100,000 rpm Electric Spindle Examples
- Figure 16. 150,000 rpm Electric Spindle Examples
- Figure 17. Global Ultra-High Speed Electric Spindle Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Ultra-High Speed Electric Spindle Revenue Market Share by Application in 2025
- Figure 19. Printed Circuit Board Examples
- Figure 20. Consumer Electronics Examples
- Figure 21. Machinery Manufacturing Examples
- Figure 22. Automotive and Aerospace Examples
- Figure 23. Others Examples
- Figure 24. Global Ultra-High Speed Electric Spindle Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Ultra-High Speed Electric Spindle Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Ultra-High Speed Electric Spindle Sales Quantity (2021-2032) & (K Units)

Figure 27. Global Ultra-High Speed Electric Spindle Price (2021-2032) & (US\$/Unit)

Figure 28. Global Ultra-High Speed Electric Spindle Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Ultra-High Speed Electric Spindle Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Ultra-High Speed Electric Spindle by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Ultra-High Speed Electric Spindle Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Ultra-High Speed Electric Spindle Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Ultra-High Speed Electric Spindle Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Ultra-High Speed Electric Spindle Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Ultra-High Speed Electric Spindle Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Ultra-High Speed Electric Spindle Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Ultra-High Speed Electric Spindle Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global Ultra-High Speed Electric Spindle Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Ultra-High Speed Electric Spindle Revenue Market Share by Application (2021-2032)

Figure 45. Global Ultra-High Speed Electric Spindle Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America Ultra-High Speed Electric Spindle Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Ultra-High Speed Electric Spindle Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Ultra-High Speed Electric Spindle Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Ultra-High Speed Electric Spindle Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Ultra-High Speed Electric Spindle Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Ultra-High Speed Electric Spindle Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Ultra-High Speed Electric Spindle Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Ultra-High Speed Electric Spindle Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 58. France Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Ultra-High Speed Electric Spindle Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Ultra-High Speed Electric Spindle Consumption Value Market

Share by Region (2021-2032)

Figure 66. China Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 69. India Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Ultra-High Speed Electric Spindle Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Ultra-High Speed Electric Spindle Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Ultra-High Speed Electric Spindle Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Ultra-High Speed Electric Spindle Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Ultra-High Speed Electric Spindle Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Ultra-High Speed Electric Spindle Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Ultra-High Speed Electric Spindle Consumption Value (2021-2032) & (USD Million)

Figure 86. Ultra-High Speed Electric Spindle Market Drivers

Figure 87. Ultra-High Speed Electric Spindle Market Restraints

Figure 88. Ultra-High Speed Electric Spindle Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Ultra-High Speed Electric Spindle in 2025

Figure 91. Manufacturing Process Analysis of Ultra-High Speed Electric Spindle

Figure 92. Ultra-High Speed Electric Spindle Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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