

Global Turbine Supervisory Instrumentation Systems (TSI) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Turbine Supervisory Instrumentation Systems (TSI) market size is expected to reach \$ 307 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

Turbine Supervisory Instrumentation Systems (TSI) is a comprehensive system designed specifically to monitor and protect the safety of steam turbine operation. The system can timely identify potential faults and abnormal conditions by real-time acquisition and analysis of key operating parameters of the steam turbine, such as temperature, pressure, vibration and speed, thereby effectively preventing equipment damage and accidents. TSI systems usually integrate advanced sensor technology, data acquisition equipment and intelligent analysis algorithms to provide operators with an intuitive monitoring interface and alarm functions for quick response and decision-making. In addition, it not only has the ability to record data and analyze trends, but can also work in conjunction with other equipment and systems to form a more comprehensive safety protection network. With the increasing complexity of the turbine operating environment and the increasing safety requirements, the TSI system plays an increasingly important role in improving equipment reliability, reducing failure rates, and ensuring safe production, becoming an indispensable part of modern turbine systems.

Turbine Supervisory Instrumentation Systems (TSI) are typically included as part of a complete steam turbine assembly. Incremental demand arises from the upgrading and maintenance of existing units. Their price varies depending on brand, functional modules, and configuration complexity, ranging from approximately US\$1,000 to US\$7,000. The industry's gross profit margin is generally around 25% to 35%.

The modern TSI (Transmission Control System) industry is trending towards high

sampling rates, full digital integration, and domestic substitution. In particular, the application of domestically produced chips and real-time operating systems is breaking the long-standing technological monopoly of European and American brands (such as Bentley and Nevada), building a fully independent and controllable ecosystem from underlying sensors to upper-level computer analysis software. The core driver of this industry development stems from the increasing safety requirements of power systems. Frequent peak shaving and load changes cause turbine rotors to routinely experience critical speeds and thermal stress variations. This has greatly stimulated the demand for high-precision monitoring of shaft vibration, shaft displacement, speed, and cylinder expansion, forcing owners to upgrade to more sensitive monitoring systems to prevent major mechanical accidents.

This report studies the global Turbine Supervisory Instrumentation Systems (TSI) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Turbine Supervisory Instrumentation Systems (TSI) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Turbine Supervisory Instrumentation Systems (TSI) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Turbine Supervisory Instrumentation Systems (TSI) total production and demand, 2021-2032, (Units)

Global Turbine Supervisory Instrumentation Systems (TSI) total production value, 2021-2032, (USD Million)

Global Turbine Supervisory Instrumentation Systems (TSI) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Turbine Supervisory Instrumentation Systems (TSI) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Turbine Supervisory Instrumentation Systems (TSI) domestic production, consumption, key domestic manufacturers and share

Global Turbine Supervisory Instrumentation Systems (TSI) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Turbine Supervisory Instrumentation Systems (TSI) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Turbine Supervisory Instrumentation Systems (TSI) production by Application,

production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Turbine Supervisory Instrumentation Systems (TSI) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bently Nevada, SHINKAWA Electric, Emerson, Parker Meggitt, Siemens Energy, Br?el & Kj?r Vibro, SKF, Sensonics, Shanghai Power Equipment Research Institute, Hollysys, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Turbine Supervisory Instrumentation Systems (TSI) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Turbine Supervisory Instrumentation Systems (TSI) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Turbine Supervisory Instrumentation Systems (TSI) Market, Segmentation by Type:

Rack-mounted

Distributed

Global Turbine Supervisory Instrumentation Systems (TSI) Market, Segmentation by Monitoring Objects:

Vibration Monitoring

Displacement and Expansion Monitoring

Speed ??and Phase Monitoring

Mechanical Condition Monitoring

Global Turbine Supervisory Instrumentation Systems (TSI) Market, Segmentation by Functions:

Protective TSI

Monitoring TSI

Global Turbine Supervisory Instrumentation Systems (TSI) Market, Segmentation by Application:

Power Industry

Oil and Gas Industry

Chemical Industry

Other

Companies Profiled:

Bently Nevada

SHINKAWA Electric

Emerson

Parker Meggitt

Siemens Energy

Brüel & Kjær Vibro

SKF

Sensonics

Shanghai Power Equipment Research Institute

Hollysys

Sciyon

Wuxi Houde Automation Instrument

Key Questions Answered:

1. How big is the global Turbine Supervisory Instrumentation Systems (TSI) market?
2. What is the demand of the global Turbine Supervisory Instrumentation Systems (TSI) market?
3. What is the year over year growth of the global Turbine Supervisory Instrumentation Systems (TSI) market?
4. What is the production and production value of the global Turbine Supervisory Instrumentation Systems (TSI) market?

5. Who are the key producers in the global Turbine Supervisory Instrumentation Systems (TSI) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Turbine Supervisory Instrumentation Systems (TSI) Introduction
- 1.2 World Turbine Supervisory Instrumentation Systems (TSI) Supply & Forecast
 - 1.2.1 World Turbine Supervisory Instrumentation Systems (TSI) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032)
 - 1.2.3 World Turbine Supervisory Instrumentation Systems (TSI) Pricing Trends (2021-2032)
- 1.3 World Turbine Supervisory Instrumentation Systems (TSI) Production by Region (Based on Production Site)
 - 1.3.1 World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Region (2021-2032)
 - 1.3.2 World Turbine Supervisory Instrumentation Systems (TSI) Production by Region (2021-2032)
 - 1.3.3 World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Region (2021-2032)
 - 1.3.4 North America Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032)
 - 1.3.5 Europe Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032)
 - 1.3.6 China Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032)
 - 1.3.7 Japan Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Turbine Supervisory Instrumentation Systems (TSI) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Turbine Supervisory Instrumentation Systems (TSI) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Turbine Supervisory Instrumentation Systems (TSI) Demand (2021-2032)
- 2.2 World Turbine Supervisory Instrumentation Systems (TSI) Consumption by Region
 - 2.2.1 World Turbine Supervisory Instrumentation Systems (TSI) Consumption by Region (2021-2026)

- 2.2.2 World Turbine Supervisory Instrumentation Systems (TSI) Consumption Forecast by Region (2027-2032)
- 2.3 United States Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)
- 2.4 China Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)
- 2.5 Europe Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)
- 2.6 Japan Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)
- 2.7 South Korea Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)
- 2.8 ASEAN Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)
- 2.9 India Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Manufacturer (2021-2026)
- 3.2 World Turbine Supervisory Instrumentation Systems (TSI) Production by Manufacturer (2021-2026)
- 3.3 World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Manufacturer (2021-2026)
- 3.4 Turbine Supervisory Instrumentation Systems (TSI) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Turbine Supervisory Instrumentation Systems (TSI) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Turbine Supervisory Instrumentation Systems (TSI) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Turbine Supervisory Instrumentation Systems (TSI) in 2025
- 3.6 Turbine Supervisory Instrumentation Systems (TSI) Market: Overall Company Footprint Analysis
 - 3.6.1 Turbine Supervisory Instrumentation Systems (TSI) Market: Region Footprint
 - 3.6.2 Turbine Supervisory Instrumentation Systems (TSI) Market: Company Product Type Footprint
 - 3.6.3 Turbine Supervisory Instrumentation Systems (TSI) Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Value Comparison

4.1.1 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Comparison

4.2.1 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Consumption Comparison

4.3.1 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2026)

4.5 China Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers and Market Share

4.5.1 China Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value (2021-2026)

4.5.3 China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2026)

4.6 Rest of World Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Turbine Supervisory Instrumentation Systems (TSI) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Rack-mounted

5.2.2 Distributed

5.3 Market Segment by Type

5.3.1 World Turbine Supervisory Instrumentation Systems (TSI) Production by Type (2021-2032)

5.3.2 World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Type (2021-2032)

5.3.3 World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MONITORING OBJECTS

6.1 World Turbine Supervisory Instrumentation Systems (TSI) Market Size Overview by Monitoring Objects: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Monitoring Objects

6.2.1 Vibration Monitoring

6.2.2 Displacement and Expansion Monitoring

6.2.3 Speed ??and Phase Monitoring

6.2.4 Mechanical Condition Monitoring

6.3 Market Segment by Monitoring Objects

6.3.1 World Turbine Supervisory Instrumentation Systems (TSI) Production by

Monitoring Objects (2021-2032)

6.3.2 World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Monitoring Objects (2021-2032)

6.3.3 World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Monitoring Objects (2021-2032)

7 MARKET ANALYSIS BY FUNCTIONS

7.1 World Turbine Supervisory Instrumentation Systems (TSI) Market Size Overview by Functions: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Functions

7.2.1 Protective TSI

7.2.2 Monitoring TSI

7.3 Market Segment by Functions

7.3.1 World Turbine Supervisory Instrumentation Systems (TSI) Production by Functions (2021-2032)

7.3.2 World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Functions (2021-2032)

7.3.3 World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Functions (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Turbine Supervisory Instrumentation Systems (TSI) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Industry

8.2.2 Oil and Gas Industry

8.2.3 Chemical Industry

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Turbine Supervisory Instrumentation Systems (TSI) Production by Application (2021-2032)

8.3.2 World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Application (2021-2032)

8.3.3 World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bently Nevada

9.1.1 Bently Nevada Details

9.1.2 Bently Nevada Major Business

9.1.3 Bently Nevada Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.1.4 Bently Nevada Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bently Nevada Recent Developments/Updates

9.1.6 Bently Nevada Competitive Strengths & Weaknesses

9.2 SHINKAWA Electric

9.2.1 SHINKAWA Electric Details

9.2.2 SHINKAWA Electric Major Business

9.2.3 SHINKAWA Electric Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.2.4 SHINKAWA Electric Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 SHINKAWA Electric Recent Developments/Updates

9.2.6 SHINKAWA Electric Competitive Strengths & Weaknesses

9.3 Emerson

9.3.1 Emerson Details

9.3.2 Emerson Major Business

9.3.3 Emerson Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.3.4 Emerson Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Emerson Recent Developments/Updates

9.3.6 Emerson Competitive Strengths & Weaknesses

9.4 Parker Meggitt

9.4.1 Parker Meggitt Details

9.4.2 Parker Meggitt Major Business

9.4.3 Parker Meggitt Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.4.4 Parker Meggitt Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Parker Meggitt Recent Developments/Updates

9.4.6 Parker Meggitt Competitive Strengths & Weaknesses

9.5 Siemens Energy

9.5.1 Siemens Energy Details

- 9.5.2 Siemens Energy Major Business
- 9.5.3 Siemens Energy Turbine Supervisory Instrumentation Systems (TSI) Product and Services
- 9.5.4 Siemens Energy Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Siemens Energy Recent Developments/Updates
- 9.5.6 Siemens Energy Competitive Strengths & Weaknesses
- 9.6 Br?el & Kj?r Vibro
 - 9.6.1 Br?el & Kj?r Vibro Details
 - 9.6.2 Br?el & Kj?r Vibro Major Business
 - 9.6.3 Br?el & Kj?r Vibro Turbine Supervisory Instrumentation Systems (TSI) Product and Services
 - 9.6.4 Br?el & Kj?r Vibro Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Br?el & Kj?r Vibro Recent Developments/Updates
 - 9.6.6 Br?el & Kj?r Vibro Competitive Strengths & Weaknesses
- 9.7 SKF
 - 9.7.1 SKF Details
 - 9.7.2 SKF Major Business
 - 9.7.3 SKF Turbine Supervisory Instrumentation Systems (TSI) Product and Services
 - 9.7.4 SKF Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 SKF Recent Developments/Updates
 - 9.7.6 SKF Competitive Strengths & Weaknesses
- 9.8 Sensonics
 - 9.8.1 Sensonics Details
 - 9.8.2 Sensonics Major Business
 - 9.8.3 Sensonics Turbine Supervisory Instrumentation Systems (TSI) Product and Services
 - 9.8.4 Sensonics Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Sensonics Recent Developments/Updates
 - 9.8.6 Sensonics Competitive Strengths & Weaknesses
- 9.9 Shanghai Power Equipment Research Institute
 - 9.9.1 Shanghai Power Equipment Research Institute Details
 - 9.9.2 Shanghai Power Equipment Research Institute Major Business
 - 9.9.3 Shanghai Power Equipment Research Institute Turbine Supervisory Instrumentation Systems (TSI) Product and Services
 - 9.9.4 Shanghai Power Equipment Research Institute Turbine Supervisory

Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Shanghai Power Equipment Research Institute Recent Developments/Updates

9.9.6 Shanghai Power Equipment Research Institute Competitive Strengths & Weaknesses

9.10 Hollysys

9.10.1 Hollysys Details

9.10.2 Hollysys Major Business

9.10.3 Hollysys Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.10.4 Hollysys Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Hollysys Recent Developments/Updates

9.10.6 Hollysys Competitive Strengths & Weaknesses

9.11 Sciyon

9.11.1 Sciyon Details

9.11.2 Sciyon Major Business

9.11.3 Sciyon Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.11.4 Sciyon Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Sciyon Recent Developments/Updates

9.11.6 Sciyon Competitive Strengths & Weaknesses

9.12 Wuxi Houde Automation Instrument

9.12.1 Wuxi Houde Automation Instrument Details

9.12.2 Wuxi Houde Automation Instrument Major Business

9.12.3 Wuxi Houde Automation Instrument Turbine Supervisory Instrumentation Systems (TSI) Product and Services

9.12.4 Wuxi Houde Automation Instrument Turbine Supervisory Instrumentation Systems (TSI) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Wuxi Houde Automation Instrument Recent Developments/Updates

9.12.6 Wuxi Houde Automation Instrument Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Turbine Supervisory Instrumentation Systems (TSI) Industry Chain

10.2 Turbine Supervisory Instrumentation Systems (TSI) Upstream Analysis

10.2.1 Turbine Supervisory Instrumentation Systems (TSI) Core Raw Materials

10.2.2 Main Manufacturers of Turbine Supervisory Instrumentation Systems (TSI)

Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Turbine Supervisory Instrumentation Systems (TSI) Production Mode

10.6 Turbine Supervisory Instrumentation Systems (TSI) Procurement Model

10.7 Turbine Supervisory Instrumentation Systems (TSI) Industry Sales Model and Sales Channels

10.7.1 Turbine Supervisory Instrumentation Systems (TSI) Sales Model

10.7.2 Turbine Supervisory Instrumentation Systems (TSI) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Region (2021-2026)

Table 5. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Region (2027-2032)

Table 6. World Turbine Supervisory Instrumentation Systems (TSI) Production by Region (2021-2026) & (Units)

Table 7. World Turbine Supervisory Instrumentation Systems (TSI) Production by Region (2027-2032) & (Units)

Table 8. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Region (2021-2026)

Table 9. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Region (2027-2032)

Table 10. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Turbine Supervisory Instrumentation Systems (TSI) Major Market Trends

Table 13. World Turbine Supervisory Instrumentation Systems (TSI) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Turbine Supervisory Instrumentation Systems (TSI) Consumption by Region (2021-2026) & (Units)

Table 15. World Turbine Supervisory Instrumentation Systems (TSI) Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Turbine Supervisory Instrumentation Systems (TSI) Producers in 2025

Table 18. World Turbine Supervisory Instrumentation Systems (TSI) Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Turbine Supervisory Instrumentation Systems (TSI) Producers in 2025

Table 20. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Turbine Supervisory Instrumentation Systems (TSI) Company Evaluation Quadrant

Table 22. World Turbine Supervisory Instrumentation Systems (TSI) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Turbine Supervisory Instrumentation Systems (TSI) Production Site of Key Manufacturer

Table 24. Turbine Supervisory Instrumentation Systems (TSI) Market: Company Product Type Footprint

Table 25. Turbine Supervisory Instrumentation Systems (TSI) Market: Company Product Application Footprint

Table 26. Turbine Supervisory Instrumentation Systems (TSI) Competitive Factors

Table 27. Turbine Supervisory Instrumentation Systems (TSI) New Entrant and Capacity Expansion Plans

Table 28. Turbine Supervisory Instrumentation Systems (TSI) Mergers & Acquisitions Activity

Table 29. United States VS China Turbine Supervisory Instrumentation Systems (TSI) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Turbine Supervisory Instrumentation Systems (TSI) Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Turbine Supervisory Instrumentation Systems (TSI) Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Market Share (2021-2026)

Table 37. China Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Market Share (2021-2026)

Table 42. Rest of World Based Turbine Supervisory Instrumentation Systems (TSI) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Market Share (2021-2026)

Table 47. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Turbine Supervisory Instrumentation Systems (TSI) Production by Type (2021-2026) & (Units)

Table 49. World Turbine Supervisory Instrumentation Systems (TSI) Production by Type (2027-2032) & (Units)

Table 50. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Monitoring Objects, (USD Million), 2021 & 2025 & 2032

Table 55. World Turbine Supervisory Instrumentation Systems (TSI) Production by Monitoring Objects (2021-2026) & (Units)

Table 56. World Turbine Supervisory Instrumentation Systems (TSI) Production by Monitoring Objects (2027-2032) & (Units)

Table 57. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Monitoring Objects (2021-2026) & (USD Million)

Table 58. World Turbine Supervisory Instrumentation Systems (TSI) Production Value

by Monitoring Objects (2027-2032) & (USD Million)

Table 59. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Monitoring Objects (2021-2026) & (K US\$/Unit)

Table 60. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Monitoring Objects (2027-2032) & (K US\$/Unit)

Table 61. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Functions, (USD Million), 2021 & 2025 & 2032

Table 62. World Turbine Supervisory Instrumentation Systems (TSI) Production by Functions (2021-2026) & (Units)

Table 63. World Turbine Supervisory Instrumentation Systems (TSI) Production by Functions (2027-2032) & (Units)

Table 64. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Functions (2021-2026) & (USD Million)

Table 65. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Functions (2027-2032) & (USD Million)

Table 66. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Functions (2021-2026) & (K US\$/Unit)

Table 67. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Functions (2027-2032) & (K US\$/Unit)

Table 68. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Turbine Supervisory Instrumentation Systems (TSI) Production by Application (2021-2026) & (Units)

Table 70. World Turbine Supervisory Instrumentation Systems (TSI) Production by Application (2027-2032) & (Units)

Table 71. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Bently Nevada Basic Information, Manufacturing Base and Competitors

Table 76. Bently Nevada Major Business

Table 77. Bently Nevada Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 78. Bently Nevada Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 79. Bently Nevada Recent Developments/Updates

Table 80. Bently Nevada Competitive Strengths & Weaknesses

Table 81. SHINKAWA Electric Basic Information, Manufacturing Base and Competitors

Table 82. SHINKAWA Electric Major Business

Table 83. SHINKAWA Electric Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 84. SHINKAWA Electric Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. SHINKAWA Electric Recent Developments/Updates

Table 86. SHINKAWA Electric Competitive Strengths & Weaknesses

Table 87. Emerson Basic Information, Manufacturing Base and Competitors

Table 88. Emerson Major Business

Table 89. Emerson Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 90. Emerson Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Emerson Recent Developments/Updates

Table 92. Emerson Competitive Strengths & Weaknesses

Table 93. Parker Meggitt Basic Information, Manufacturing Base and Competitors

Table 94. Parker Meggitt Major Business

Table 95. Parker Meggitt Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 96. Parker Meggitt Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Parker Meggitt Recent Developments/Updates

Table 98. Parker Meggitt Competitive Strengths & Weaknesses

Table 99. Siemens Energy Basic Information, Manufacturing Base and Competitors

Table 100. Siemens Energy Major Business

Table 101. Siemens Energy Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 102. Siemens Energy Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Siemens Energy Recent Developments/Updates

Table 104. Siemens Energy Competitive Strengths & Weaknesses

Table 105. Br?el & Kj?r Vibro Basic Information, Manufacturing Base and Competitors

Table 106. Br?el & Kj?r Vibro Major Business

Table 107. Br?el & Kj?r Vibro Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 108. Br?el & Kj?r Vibro Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Br?el & Kj?r Vibro Recent Developments/Updates

Table 110. Br?el & Kj?r Vibro Competitive Strengths & Weaknesses

Table 111. SKF Basic Information, Manufacturing Base and Competitors

Table 112. SKF Major Business

Table 113. SKF Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 114. SKF Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. SKF Recent Developments/Updates

Table 116. SKF Competitive Strengths & Weaknesses

Table 117. Sensonics Basic Information, Manufacturing Base and Competitors

Table 118. Sensonics Major Business

Table 119. Sensonics Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 120. Sensonics Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Sensonics Recent Developments/Updates

Table 122. Sensonics Competitive Strengths & Weaknesses

Table 123. Shanghai Power Equipment Research Institute Basic Information, Manufacturing Base and Competitors

Table 124. Shanghai Power Equipment Research Institute Major Business

Table 125. Shanghai Power Equipment Research Institute Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 126. Shanghai Power Equipment Research Institute Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Shanghai Power Equipment Research Institute Recent Developments/Updates

Table 128. Shanghai Power Equipment Research Institute Competitive Strengths & Weaknesses

Table 129. Hollysys Basic Information, Manufacturing Base and Competitors

Table 130. Hollysys Major Business

Table 131. Hollysys Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 132. Hollysys Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Hollysys Recent Developments/Updates

Table 134. Hollysys Competitive Strengths & Weaknesses

Table 135. Sciyon Basic Information, Manufacturing Base and Competitors

Table 136. Sciyon Major Business

Table 137. Sciyon Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 138. Sciyon Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Sciyon Recent Developments/Updates

Table 140. Sciyon Competitive Strengths & Weaknesses

Table 141. Wuxi Houde Automation Instrument Basic Information, Manufacturing Base and Competitors

Table 142. Wuxi Houde Automation Instrument Major Business

Table 143. Wuxi Houde Automation Instrument Turbine Supervisory Instrumentation Systems (TSI) Product and Services

Table 144. Wuxi Houde Automation Instrument Turbine Supervisory Instrumentation Systems (TSI) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Wuxi Houde Automation Instrument Recent Developments/Updates

Table 146. Wuxi Houde Automation Instrument Competitive Strengths & Weaknesses

Table 147. Global Key Players of Turbine Supervisory Instrumentation Systems (TSI) Upstream (Raw Materials)

Table 148. Global Turbine Supervisory Instrumentation Systems (TSI) Typical Customers

Table 149. Turbine Supervisory Instrumentation Systems (TSI) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Turbine Supervisory Instrumentation Systems (TSI) Picture

Figure 2. World Turbine Supervisory Instrumentation Systems (TSI) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Turbine Supervisory Instrumentation Systems (TSI) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032) & (Units)

Figure 5. World Turbine Supervisory Instrumentation Systems (TSI) Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Region (2021-2032)

Figure 7. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Region (2021-2032)

Figure 8. North America Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032) & (Units)

Figure 9. Europe Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032) & (Units)

Figure 10. China Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032) & (Units)

Figure 11. Japan Turbine Supervisory Instrumentation Systems (TSI) Production (2021-2032) & (Units)

Figure 12. Turbine Supervisory Instrumentation Systems (TSI) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)

Figure 15. World Turbine Supervisory Instrumentation Systems (TSI) Consumption Market Share by Region (2021-2032)

Figure 16. United States Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)

Figure 17. China Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)

Figure 18. Europe Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)

Figure 19. Japan Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)

- Figure 20. South Korea Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)
- Figure 21. ASEAN Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)
- Figure 22. India Turbine Supervisory Instrumentation Systems (TSI) Consumption (2021-2032) & (Units)
- Figure 23. Producer Shipments of Turbine Supervisory Instrumentation Systems (TSI) by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Turbine Supervisory Instrumentation Systems (TSI) Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Turbine Supervisory Instrumentation Systems (TSI) Markets in 2025
- Figure 26. United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Turbine Supervisory Instrumentation Systems (TSI) Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Market Share 2025
- Figure 30. China Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Turbine Supervisory Instrumentation Systems (TSI) Production Market Share 2025
- Figure 32. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Type in 2025
- Figure 34. Rack-mounted
- Figure 35. Distributed
- Figure 36. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Type (2021-2032)
- Figure 37. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Type (2021-2032)
- Figure 38. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Type (2021-2032) & (K US\$/Unit)
- Figure 39. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Monitoring Objects, (USD Million), 2021 & 2025 & 2032
- Figure 40. World Turbine Supervisory Instrumentation Systems (TSI) Production Value

Market Share by Monitoring Objects in 2025

Figure 41. Vibration Monitoring

Figure 42. Displacement and Expansion Monitoring

Figure 43. Speed and Phase Monitoring

Figure 44. Mechanical Condition Monitoring

Figure 45. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Monitoring Objects (2021-2032)

Figure 46. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Monitoring Objects (2021-2032)

Figure 47. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Monitoring Objects (2021-2032) & (K US\$/Unit)

Figure 48. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Functions, (USD Million), 2021 & 2025 & 2032

Figure 49. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Functions in 2025

Figure 50. Protective TSI

Figure 51. Monitoring TSI

Figure 52. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Functions (2021-2032)

Figure 53. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Functions (2021-2032)

Figure 54. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Functions (2021-2032) & (K US\$/Unit)

Figure 55. World Turbine Supervisory Instrumentation Systems (TSI) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Application in 2025

Figure 57. Power Industry

Figure 58. Oil and Gas Industry

Figure 59. Chemical Industry

Figure 60. Other

Figure 61. World Turbine Supervisory Instrumentation Systems (TSI) Production Market Share by Application (2021-2032)

Figure 62. World Turbine Supervisory Instrumentation Systems (TSI) Production Value Market Share by Application (2021-2032)

Figure 63. World Turbine Supervisory Instrumentation Systems (TSI) Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 64. Turbine Supervisory Instrumentation Systems (TSI) Industry Chain

Figure 65. Turbine Supervisory Instrumentation Systems (TSI) Procurement Model

Figure 66. Turbine Supervisory Instrumentation Systems (TSI) Sales Model

Figure 67. Turbine Supervisory Instrumentation Systems (TSI) Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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