

Global Cyclic Direct Simple Shear Testing System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cyclic Direct Simple Shear Testing System market size is expected to reach \$ 12.14 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Cyclic Direct Simple Shear Testing Systems are advanced geotechnical laboratory systems designed to subject laterally confined soil specimens to controlled cyclic horizontal shear loading while independently controlling vertical stress, vertical displacement, or specimen height. The systems are used to characterize cyclic shear strength, liquefaction resistance, modulus, damping, accumulated strain, and soil response under earthquake, wave, wind, and other repeated loading conditions. Unidirectional cyclic DSS, confined-pressure DSS, and multidirectional or bidirectional cyclic DSS systems are included. Static direct shear machines, static-only DSS systems, ring shear apparatus, cyclic triaxial systems, and standalone sensors are excluded. The upstream industry includes precision electromechanical or servo actuators, load cells, LVDTs, displacement sensors, bearings, high-stiffness structural frames, specimen rings, membranes, pressure and volume controllers, control electronics, data-acquisition hardware, computers, and precision mechanical components. Midstream manufacturers integrate loading frames, vertical and horizontal actuation, feedback control, specimen confinement, dynamic control algorithms, data acquisition, test software, calibration, installation, and technical support. Downstream customers include universities, geotechnical research institutes, commercial soil-testing laboratories, offshore engineering companies, mining and tailings laboratories, earthquake engineering laboratories, infrastructure consultants, and government research organizations.

The Cyclic Direct Simple Shear Testing System market is a small, high-value research

instrumentation segment rather than a conventional volume laboratory-equipment market. Offshore wind foundation engineering, seismic liquefaction assessment, tailings safety, and increasingly complex infrastructure projects support demand for higher-frequency, higher-precision, confined and multidirectional systems. The principal competitive factors are actuator control quality, frame stiffness, active-height control accuracy, low-backlash cyclic loading, sensor resolution, software flexibility and reproducibility of long-duration cyclic tests. Chinese suppliers are becoming credible in standard single-direction systems and are lowering the entry price for university laboratories, but premium imported systems retain advantages in high-frequency control, multidirectional coupling and long-term research references. Long equipment life, the small number of laboratories requiring advanced cyclic testing, and the ability of one system to support many research projects constrain unit growth. As a result, value growth should increasingly come from multidirectional loading, pressure confinement, automation and higher system specifications rather than rapid expansion in annual unit shipments. In 2025, global Cyclic Direct Simple Shear Testing System production was approximately 71 systems, with an estimated global average selling price of approximately US\$110,000 per system. Estimated gross profit margins for major suppliers ranged from 35% to 52%. Global effective annual production capacity was approximately 95 systems.

Report Scope

This report studies the global Cyclic Direct Simple Shear Testing System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cyclic Direct Simple Shear Testing System 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 Cyclic Direct Simple Shear Testing System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cyclic Direct Simple Shear Testing System total production and demand, 2021-2032, (Units)

Global Cyclic Direct Simple Shear Testing System total production value, 2021-2032, (USD Million)

Global Cyclic Direct Simple Shear Testing System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Cyclic Direct Simple Shear Testing System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Cyclic Direct Simple Shear Testing System domestic production, consumption, key domestic manufacturers and share

Global Cyclic Direct Simple Shear Testing System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Cyclic Direct Simple Shear Testing System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cyclic Direct Simple Shear Testing System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cyclic Direct Simple Shear Testing System 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 GDS Instruments, VJ Tech Limited, APS Antriebs-, Prüf- und Steuertechnik GmbH, GEOMATION GmbH, Research and Production Enterprise "GEOTEK" LLC, Geocomp Corporation, GCTS Testing Systems, LLC, TESCO CO., LTD., MARUTANISHIKO, LTD., MARUI & Co., Ltd., 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 Cyclic Direct Simple Shear Testing System 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 Cyclic Direct Simple Shear Testing System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Cyclic Direct Simple Shear Testing System Market, Segmentation by Type:

Single-Axis Cyclic Direct Simple Shear Testing System

Multi-Axis Cyclic Direct Simple Shear Testing System

Global Cyclic Direct Simple Shear Testing System Market, Segmentation by Horizontal Circulation Control Capability:

Load-Control-Only Cyclic Direct Simple Shear Testing System

Displacement-Control-Only Cyclic Direct Simple Shear Testing System

Load-and-Displacement Dual-Control Cyclic Direct Simple Shear Testing System

Global Cyclic Direct Simple Shear Testing System Market, Segmentation by Maximum Cyclic Loading Frequency:

Up to 0.5 Hz Maximum Cyclic Loading Frequency

Above 0.5 Hz to 1 Hz Maximum Cyclic Loading Frequency

Above 1 Hz to 5 Hz Maximum Cyclic Loading Frequency

Above 5 Hz Maximum Cyclic Loading Frequency

Global Cyclic Direct Simple Shear Testing System Market, Segmentation by Application:

Earthquake-Induced Cyclic Loading Testing

Wave-Induced Cyclic Loading Testing

Wind-Induced Cyclic Loading Testing

Traffic-Induced Cyclic Loading Testing

Companies Profiled:

GDS Instruments

VJ Tech Limited

APS Antriebs-, Prüf- und Steuertechnik GmbH

GEOMATION GmbH

Research and Production Enterprise "GEOTEK" LLC

Geocomp Corporation

GCTS Testing Systems, LLC

TESCO CO., LTD.

MARUTANISHIKO, LTD.

MARUI & Co., Ltd.

Suzhou Toptest Instrument Co., Ltd.

Hunan Yaxing Testing Technology Co., Ltd.

Key Questions Answered

1. How big is the global Cyclic Direct Simple Shear Testing System market?
2. What is the demand of the global Cyclic Direct Simple Shear Testing System market?
3. What is the year over year growth of the global Cyclic Direct Simple Shear Testing System market?
4. What is the total value of the global Cyclic Direct Simple Shear Testing System market?
5. Who are the Major Players in the global Cyclic Direct Simple Shear Testing System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Cyclic Direct Simple Shear Testing System Demand (2021-2032)
- 2.2 World Cyclic Direct Simple Shear Testing System Consumption by Region
 - 2.2.1 World Cyclic Direct Simple Shear Testing System Consumption by Region (2021-2026)
 - 2.2.2 World Cyclic Direct Simple Shear Testing System Consumption Forecast by Region (2027-2032)
- 2.3 United States Cyclic Direct Simple Shear Testing System Consumption (2021-2032)
- 2.4 China Cyclic Direct Simple Shear Testing System Consumption (2021-2032)
- 2.5 Europe Cyclic Direct Simple Shear Testing System Consumption (2021-2032)

- 2.6 Japan Cyclic Direct Simple Shear Testing System Consumption (2021-2032)
- 2.7 South Korea Cyclic Direct Simple Shear Testing System Consumption (2021-2032)
- 2.8 ASEAN Cyclic Direct Simple Shear Testing System Consumption (2021-2032)
- 2.9 India Cyclic Direct Simple Shear Testing System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Cyclic Direct Simple Shear Testing System Production Value by Manufacturer (2021-2026)
- 3.2 World Cyclic Direct Simple Shear Testing System Production by Manufacturer (2021-2026)
- 3.3 World Cyclic Direct Simple Shear Testing System Average Price by Manufacturer (2021-2026)
- 3.4 Cyclic Direct Simple Shear Testing System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Cyclic Direct Simple Shear Testing System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Cyclic Direct Simple Shear Testing System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Cyclic Direct Simple Shear Testing System in 2025
- 3.6 Cyclic Direct Simple Shear Testing System Market: Overall Company Footprint Analysis
 - 3.6.1 Cyclic Direct Simple Shear Testing System Market: Region Footprint
 - 3.6.2 Cyclic Direct Simple Shear Testing System Market: Company Product Type Footprint
 - 3.6.3 Cyclic Direct Simple Shear Testing System 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: Cyclic Direct Simple Shear Testing System Production Value Comparison

4.1.1 United States VS China: Cyclic Direct Simple Shear Testing System Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Cyclic Direct Simple Shear Testing System Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Cyclic Direct Simple Shear Testing System Production Comparison

4.2.1 United States VS China: Cyclic Direct Simple Shear Testing System Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Cyclic Direct Simple Shear Testing System Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Cyclic Direct Simple Shear Testing System Consumption Comparison

4.3.1 United States VS China: Cyclic Direct Simple Shear Testing System Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Cyclic Direct Simple Shear Testing System Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Cyclic Direct Simple Shear Testing System Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Cyclic Direct Simple Shear Testing System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production (2021-2026)

4.5 China Based Cyclic Direct Simple Shear Testing System Manufacturers and Market Share

4.5.1 China Based Cyclic Direct Simple Shear Testing System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value (2021-2026)

4.5.3 China Based Manufacturers Cyclic Direct Simple Shear Testing System Production (2021-2026)

4.6 Rest of World Based Cyclic Direct Simple Shear Testing System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Cyclic Direct Simple Shear Testing System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Cyclic Direct Simple Shear Testing System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Axis Cyclic Direct Simple Shear Testing System

5.2.2 Multi-Axis Cyclic Direct Simple Shear Testing System

5.3 Market Segment by Type

5.3.1 World Cyclic Direct Simple Shear Testing System Production by Type (2021-2032)

5.3.2 World Cyclic Direct Simple Shear Testing System Production Value by Type (2021-2032)

5.3.3 World Cyclic Direct Simple Shear Testing System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY HORIZONTAL CIRCULATION CONTROL CAPABILITY

6.1 World Cyclic Direct Simple Shear Testing System Market Size Overview by Horizontal Circulation Control Capability: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Horizontal Circulation Control Capability

6.2.1 Load-Control-Only Cyclic Direct Simple Shear Testing System

6.2.2 Displacement-Control-Only Cyclic Direct Simple Shear Testing System

6.2.3 Load-and-Displacement Dual-Control Cyclic Direct Simple Shear Testing System

6.3 Market Segment by Horizontal Circulation Control Capability

6.3.1 World Cyclic Direct Simple Shear Testing System Production by Horizontal Circulation Control Capability (2021-2032)

6.3.2 World Cyclic Direct Simple Shear Testing System Production Value by Horizontal Circulation Control Capability (2021-2032)

6.3.3 World Cyclic Direct Simple Shear Testing System Average Price by Horizontal Circulation Control Capability (2021-2032)

7 MARKET ANALYSIS BY MAXIMUM CYCLIC LOADING FREQUENCY

7.1 World Cyclic Direct Simple Shear Testing System Market Size Overview by Maximum Cyclic Loading Frequency: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Maximum Cyclic Loading Frequency

7.2.1 Up to 0.5 Hz Maximum Cyclic Loading Frequency

- 7.2.2 Above 0.5 Hz to 1 Hz Maximum Cyclic Loading Frequency
- 7.2.3 Above 1 Hz to 5 Hz Maximum Cyclic Loading Frequency
- 7.2.4 Above 5 Hz Maximum Cyclic Loading Frequency
- 7.3 Market Segment by Maximum Cyclic Loading Frequency
 - 7.3.1 World Cyclic Direct Simple Shear Testing System Production by Maximum Cyclic Loading Frequency (2021-2032)
 - 7.3.2 World Cyclic Direct Simple Shear Testing System Production Value by Maximum Cyclic Loading Frequency (2021-2032)
 - 7.3.3 World Cyclic Direct Simple Shear Testing System Average Price by Maximum Cyclic Loading Frequency (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Cyclic Direct Simple Shear Testing System Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Earthquake-Induced Cyclic Loading Testing
 - 8.2.2 Wave-Induced Cyclic Loading Testing
 - 8.2.3 Wind-Induced Cyclic Loading Testing
 - 8.2.4 Traffic-Induced Cyclic Loading Testing
- 8.3 Market Segment by Application
 - 8.3.1 World Cyclic Direct Simple Shear Testing System Production by Application (2021-2032)
 - 8.3.2 World Cyclic Direct Simple Shear Testing System Production Value by Application (2021-2032)
 - 8.3.3 World Cyclic Direct Simple Shear Testing System Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 GDS Instruments
 - 9.1.1 GDS Instruments Details
 - 9.1.2 GDS Instruments Major Business
 - 9.1.3 GDS Instruments Cyclic Direct Simple Shear Testing System Product and Services
 - 9.1.4 GDS Instruments Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 GDS Instruments Recent Developments/Updates
 - 9.1.6 GDS Instruments Competitive Strengths & Weaknesses

9.2 VJ Tech Limited

9.2.1 VJ Tech Limited Details

9.2.2 VJ Tech Limited Major Business

9.2.3 VJ Tech Limited Cyclic Direct Simple Shear Testing System Product and Services

9.2.4 VJ Tech Limited Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 VJ Tech Limited Recent Developments/Updates

9.2.6 VJ Tech Limited Competitive Strengths & Weaknesses

9.3 APS Antriebs-, Prüf- und Steuertechnik GmbH

9.3.1 APS Antriebs-, Prüf- und Steuertechnik GmbH Details

9.3.2 APS Antriebs-, Prüf- und Steuertechnik GmbH Major Business

9.3.3 APS Antriebs-, Prüf- und Steuertechnik GmbH Cyclic Direct Simple Shear Testing System Product and Services

9.3.4 APS Antriebs-, Prüf- und Steuertechnik GmbH Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 APS Antriebs-, Prüf- und Steuertechnik GmbH Recent Developments/Updates

9.3.6 APS Antriebs-, Prüf- und Steuertechnik GmbH Competitive Strengths & Weaknesses

9.4 GEOMATION GmbH

9.4.1 GEOMATION GmbH Details

9.4.2 GEOMATION GmbH Major Business

9.4.3 GEOMATION GmbH Cyclic Direct Simple Shear Testing System Product and Services

9.4.4 GEOMATION GmbH Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 GEOMATION GmbH Recent Developments/Updates

9.4.6 GEOMATION GmbH Competitive Strengths & Weaknesses

9.5 Research and Production Enterprise "GEOTEK" LLC

9.5.1 Research and Production Enterprise "GEOTEK" LLC Details

9.5.2 Research and Production Enterprise "GEOTEK" LLC Major Business

9.5.3 Research and Production Enterprise "GEOTEK" LLC Cyclic Direct Simple Shear Testing System Product and Services

9.5.4 Research and Production Enterprise "GEOTEK" LLC Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Research and Production Enterprise "GEOTEK" LLC Recent Developments/Updates

9.5.6 Research and Production Enterprise "GEOTEK" LLC Competitive Strengths & Weaknesses

9.6 Geocomp Corporation

9.6.1 Geocomp Corporation Details

9.6.2 Geocomp Corporation Major Business

9.6.3 Geocomp Corporation Cyclic Direct Simple Shear Testing System Product and Services

9.6.4 Geocomp Corporation Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Geocomp Corporation Recent Developments/Updates

9.6.6 Geocomp Corporation Competitive Strengths & Weaknesses

9.7 GCTS Testing Systems, LLC

9.7.1 GCTS Testing Systems, LLC Details

9.7.2 GCTS Testing Systems, LLC Major Business

9.7.3 GCTS Testing Systems, LLC Cyclic Direct Simple Shear Testing System Product and Services

9.7.4 GCTS Testing Systems, LLC Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 GCTS Testing Systems, LLC Recent Developments/Updates

9.7.6 GCTS Testing Systems, LLC Competitive Strengths & Weaknesses

9.8 TESCO CO., LTD.

9.8.1 TESCO CO., LTD. Details

9.8.2 TESCO CO., LTD. Major Business

9.8.3 TESCO CO., LTD. Cyclic Direct Simple Shear Testing System Product and Services

9.8.4 TESCO CO., LTD. Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 TESCO CO., LTD. Recent Developments/Updates

9.8.6 TESCO CO., LTD. Competitive Strengths & Weaknesses

9.9 MARUTANISHIKO, LTD.

9.9.1 MARUTANISHIKO, LTD. Details

9.9.2 MARUTANISHIKO, LTD. Major Business

9.9.3 MARUTANISHIKO, LTD. Cyclic Direct Simple Shear Testing System Product and Services

9.9.4 MARUTANISHIKO, LTD. Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 MARUTANISHIKO, LTD. Recent Developments/Updates

9.9.6 MARUTANISHIKO, LTD. Competitive Strengths & Weaknesses

9.10 MARUI & Co., Ltd.

9.10.1 MARUI & Co., Ltd. Details

9.10.2 MARUI & Co., Ltd. Major Business

9.10.3 MARUI & Co., Ltd. Cyclic Direct Simple Shear Testing System Product and Services

9.10.4 MARUI & Co., Ltd. Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 MARUI & Co., Ltd. Recent Developments/Updates

9.10.6 MARUI & Co., Ltd. Competitive Strengths & Weaknesses

9.11 Suzhou Toptest Instrument Co., Ltd.

9.11.1 Suzhou Toptest Instrument Co., Ltd. Details

9.11.2 Suzhou Toptest Instrument Co., Ltd. Major Business

9.11.3 Suzhou Toptest Instrument Co., Ltd. Cyclic Direct Simple Shear Testing System Product and Services

9.11.4 Suzhou Toptest Instrument Co., Ltd. Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Suzhou Toptest Instrument Co., Ltd. Recent Developments/Updates

9.11.6 Suzhou Toptest Instrument Co., Ltd. Competitive Strengths & Weaknesses

9.12 Hunan Yaxing Testing Technology Co., Ltd.

9.12.1 Hunan Yaxing Testing Technology Co., Ltd. Details

9.12.2 Hunan Yaxing Testing Technology Co., Ltd. Major Business

9.12.3 Hunan Yaxing Testing Technology Co., Ltd. Cyclic Direct Simple Shear Testing System Product and Services

9.12.4 Hunan Yaxing Testing Technology Co., Ltd. Cyclic Direct Simple Shear Testing System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Hunan Yaxing Testing Technology Co., Ltd. Recent Developments/Updates

9.12.6 Hunan Yaxing Testing Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Cyclic Direct Simple Shear Testing System Industry Chain

10.2 Cyclic Direct Simple Shear Testing System Upstream Analysis

10.2.1 Cyclic Direct Simple Shear Testing System Core Raw Materials

10.2.2 Main Manufacturers of Cyclic Direct Simple Shear Testing System Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Cyclic Direct Simple Shear Testing System Production Mode

10.6 Cyclic Direct Simple Shear Testing System Procurement Model

10.7 Cyclic Direct Simple Shear Testing System Industry Sales Model and Sales Channels

- 10.7.1 Cyclic Direct Simple Shear Testing System Sales Model
- 10.7.2 Cyclic Direct Simple Shear Testing System 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 Cyclic Direct Simple Shear Testing System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Cyclic Direct Simple Shear Testing System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Cyclic Direct Simple Shear Testing System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Region (2021-2026)

Table 5. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Region (2027-2032)

Table 6. World Cyclic Direct Simple Shear Testing System Production by Region (2021-2026) & (Units)

Table 7. World Cyclic Direct Simple Shear Testing System Production by Region (2027-2032) & (Units)

Table 8. World Cyclic Direct Simple Shear Testing System Production Market Share by Region (2021-2026)

Table 9. World Cyclic Direct Simple Shear Testing System Production Market Share by Region (2027-2032)

Table 10. World Cyclic Direct Simple Shear Testing System Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Cyclic Direct Simple Shear Testing System Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Cyclic Direct Simple Shear Testing System Major Market Trends

Table 13. World Cyclic Direct Simple Shear Testing System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Cyclic Direct Simple Shear Testing System Consumption by Region (2021-2026) & (Units)

Table 15. World Cyclic Direct Simple Shear Testing System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Cyclic Direct Simple Shear Testing System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Cyclic Direct Simple Shear Testing System Producers in 2025

Table 18. World Cyclic Direct Simple Shear Testing System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Cyclic Direct Simple Shear Testing System Producers in 2025

Table 20. World Cyclic Direct Simple Shear Testing System Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Cyclic Direct Simple Shear Testing System Company Evaluation Quadrant

Table 22. World Cyclic Direct Simple Shear Testing System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Cyclic Direct Simple Shear Testing System Production Site of Key Manufacturer

Table 24. Cyclic Direct Simple Shear Testing System Market: Company Product Type Footprint

Table 25. Cyclic Direct Simple Shear Testing System Market: Company Product Application Footprint

Table 26. Cyclic Direct Simple Shear Testing System Competitive Factors

Table 27. Cyclic Direct Simple Shear Testing System New Entrant and Capacity Expansion Plans

Table 28. Cyclic Direct Simple Shear Testing System Mergers & Acquisitions Activity

Table 29. United States VS China Cyclic Direct Simple Shear Testing System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Cyclic Direct Simple Shear Testing System Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Cyclic Direct Simple Shear Testing System Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Cyclic Direct Simple Shear Testing System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production Market Share (2021-2026)

Table 37. China Based Cyclic Direct Simple Shear Testing System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Cyclic Direct Simple Shear Testing System

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Cyclic Direct Simple Shear Testing System Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Cyclic Direct Simple Shear Testing System Production Market Share (2021-2026)

Table 42. Rest of World Based Cyclic Direct Simple Shear Testing System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System Production Market Share (2021-2026)

Table 47. World Cyclic Direct Simple Shear Testing System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Cyclic Direct Simple Shear Testing System Production by Type (2021-2026) & (Units)

Table 49. World Cyclic Direct Simple Shear Testing System Production by Type (2027-2032) & (Units)

Table 50. World Cyclic Direct Simple Shear Testing System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Cyclic Direct Simple Shear Testing System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Cyclic Direct Simple Shear Testing System Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Cyclic Direct Simple Shear Testing System Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Cyclic Direct Simple Shear Testing System Production Value by Horizontal Circulation Control Capability, (USD Million), 2021 & 2025 & 2032

Table 55. World Cyclic Direct Simple Shear Testing System Production by Horizontal Circulation Control Capability (2021-2026) & (Units)

Table 56. World Cyclic Direct Simple Shear Testing System Production by Horizontal Circulation Control Capability (2027-2032) & (Units)

Table 57. World Cyclic Direct Simple Shear Testing System Production Value by Horizontal Circulation Control Capability (2021-2026) & (USD Million)

Table 58. World Cyclic Direct Simple Shear Testing System Production Value by Horizontal Circulation Control Capability (2027-2032) & (USD Million)

Table 59. World Cyclic Direct Simple Shear Testing System Average Price by Horizontal Circulation Control Capability (2021-2026) & (K US\$/Unit)
Table 60. World Cyclic Direct Simple Shear Testing System Average Price by Horizontal Circulation Control Capability (2027-2032) & (K US\$/Unit)
Table 61. World Cyclic Direct Simple Shear Testing System Production Value by Maximum Cyclic Loading Frequency, (USD Million), 2021 & 2025 & 2032
Table 62. World Cyclic Direct Simple Shear Testing System Production by Maximum Cyclic Loading Frequency (2021-2026) & (Units)
Table 63. World Cyclic Direct Simple Shear Testing System Production by Maximum Cyclic Loading Frequency (2027-2032) & (Units)
Table 64. World Cyclic Direct Simple Shear Testing System Production Value by Maximum Cyclic Loading Frequency (2021-2026) & (USD Million)
Table 65. World Cyclic Direct Simple Shear Testing System Production Value by Maximum Cyclic Loading Frequency (2027-2032) & (USD Million)
Table 66. World Cyclic Direct Simple Shear Testing System Average Price by Maximum Cyclic Loading Frequency (2021-2026) & (K US\$/Unit)
Table 67. World Cyclic Direct Simple Shear Testing System Average Price by Maximum Cyclic Loading Frequency (2027-2032) & (K US\$/Unit)
Table 68. World Cyclic Direct Simple Shear Testing System Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Cyclic Direct Simple Shear Testing System Production by Application (2021-2026) & (Units)
Table 70. World Cyclic Direct Simple Shear Testing System Production by Application (2027-2032) & (Units)
Table 71. World Cyclic Direct Simple Shear Testing System Production Value by Application (2021-2026) & (USD Million)
Table 72. World Cyclic Direct Simple Shear Testing System Production Value by Application (2027-2032) & (USD Million)
Table 73. World Cyclic Direct Simple Shear Testing System Average Price by Application (2021-2026) & (K US\$/Unit)
Table 74. World Cyclic Direct Simple Shear Testing System Average Price by Application (2027-2032) & (K US\$/Unit)
Table 75. GDS Instruments Basic Information, Manufacturing Base and Competitors
Table 76. GDS Instruments Major Business
Table 77. GDS Instruments Cyclic Direct Simple Shear Testing System Product and Services
Table 78. GDS Instruments Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. GDS Instruments Recent Developments/Updates

Table 80. GDS Instruments Competitive Strengths & Weaknesses

Table 81. VJ Tech Limited Basic Information, Manufacturing Base and Competitors

Table 82. VJ Tech Limited Major Business

Table 83. VJ Tech Limited Cyclic Direct Simple Shear Testing System Product and Services

Table 84. VJ Tech Limited Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. VJ Tech Limited Recent Developments/Updates

Table 86. VJ Tech Limited Competitive Strengths & Weaknesses

Table 87. APS Antriebs-, Prüf- und Steuertechnik GmbH Basic Information, Manufacturing Base and Competitors

Table 88. APS Antriebs-, Prüf- und Steuertechnik GmbH Major Business

Table 89. APS Antriebs-, Prüf- und Steuertechnik GmbH Cyclic Direct Simple Shear Testing System Product and Services

Table 90. APS Antriebs-, Prüf- und Steuertechnik GmbH Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. APS Antriebs-, Prüf- und Steuertechnik GmbH Recent Developments/Updates

Table 92. APS Antriebs-, Prüf- und Steuertechnik GmbH Competitive Strengths & Weaknesses

Table 93. GEOMATION GmbH Basic Information, Manufacturing Base and Competitors

Table 94. GEOMATION GmbH Major Business

Table 95. GEOMATION GmbH Cyclic Direct Simple Shear Testing System Product and Services

Table 96. GEOMATION GmbH Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. GEOMATION GmbH Recent Developments/Updates

Table 98. GEOMATION GmbH Competitive Strengths & Weaknesses

Table 99. Research and Production Enterprise "GEOTEK" LLC Basic Information, Manufacturing Base and Competitors

Table 100. Research and Production Enterprise "GEOTEK" LLC Major Business

Table 101. Research and Production Enterprise "GEOTEK" LLC Cyclic Direct Simple Shear Testing System Product and Services

Table 102. Research and Production Enterprise "GEOTEK" LLC Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD

Million), Gross Margin and Market Share (2021-2026)

Table 103. Research and Production Enterprise "GEOTEK" LLC Recent Developments/Updates

Table 104. Research and Production Enterprise "GEOTEK" LLC Competitive Strengths & Weaknesses

Table 105. Geocomp Corporation Basic Information, Manufacturing Base and Competitors

Table 106. Geocomp Corporation Major Business

Table 107. Geocomp Corporation Cyclic Direct Simple Shear Testing System Product and Services

Table 108. Geocomp Corporation Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Geocomp Corporation Recent Developments/Updates

Table 110. Geocomp Corporation Competitive Strengths & Weaknesses

Table 111. GCTS Testing Systems, LLC Basic Information, Manufacturing Base and Competitors

Table 112. GCTS Testing Systems, LLC Major Business

Table 113. GCTS Testing Systems, LLC Cyclic Direct Simple Shear Testing System Product and Services

Table 114. GCTS Testing Systems, LLC Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. GCTS Testing Systems, LLC Recent Developments/Updates

Table 116. GCTS Testing Systems, LLC Competitive Strengths & Weaknesses

Table 117. TESCO CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 118. TESCO CO., LTD. Major Business

Table 119. TESCO CO., LTD. Cyclic Direct Simple Shear Testing System Product and Services

Table 120. TESCO CO., LTD. Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. TESCO CO., LTD. Recent Developments/Updates

Table 122. TESCO CO., LTD. Competitive Strengths & Weaknesses

Table 123. MARUTANISHIKO, LTD. Basic Information, Manufacturing Base and Competitors

Table 124. MARUTANISHIKO, LTD. Major Business

Table 125. MARUTANISHIKO, LTD. Cyclic Direct Simple Shear Testing System Product and Services

Table 126. MARUTANISHIKO, LTD. Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. MARUTANISHIKO, LTD. Recent Developments/Updates

Table 128. MARUTANISHIKO, LTD. Competitive Strengths & Weaknesses

Table 129. MARUI & Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. MARUI & Co., Ltd. Major Business

Table 131. MARUI & Co., Ltd. Cyclic Direct Simple Shear Testing System Product and Services

Table 132. MARUI & Co., Ltd. Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. MARUI & Co., Ltd. Recent Developments/Updates

Table 134. MARUI & Co., Ltd. Competitive Strengths & Weaknesses

Table 135. Suzhou Toptest Instrument Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Suzhou Toptest Instrument Co., Ltd. Major Business

Table 137. Suzhou Toptest Instrument Co., Ltd. Cyclic Direct Simple Shear Testing System Product and Services

Table 138. Suzhou Toptest Instrument Co., Ltd. Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Suzhou Toptest Instrument Co., Ltd. Recent Developments/Updates

Table 140. Suzhou Toptest Instrument Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Hunan Yaxing Testing Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Hunan Yaxing Testing Technology Co., Ltd. Major Business

Table 143. Hunan Yaxing Testing Technology Co., Ltd. Cyclic Direct Simple Shear Testing System Product and Services

Table 144. Hunan Yaxing Testing Technology Co., Ltd. Cyclic Direct Simple Shear Testing System Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Hunan Yaxing Testing Technology Co., Ltd. Recent Developments/Updates

Table 146. Hunan Yaxing Testing Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Global Key Players of Cyclic Direct Simple Shear Testing System Upstream (Raw Materials)

Table 148. Global Cyclic Direct Simple Shear Testing System Typical Customers

Table 149. Cyclic Direct Simple Shear Testing System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Cyclic Direct Simple Shear Testing System Picture

Figure 2. World Cyclic Direct Simple Shear Testing System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Cyclic Direct Simple Shear Testing System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Cyclic Direct Simple Shear Testing System Production (2021-2032) & (Units)

Figure 5. World Cyclic Direct Simple Shear Testing System Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Region (2021-2032)

Figure 7. World Cyclic Direct Simple Shear Testing System Production Market Share by Region (2021-2032)

Figure 8. North America Cyclic Direct Simple Shear Testing System Production (2021-2032) & (Units)

Figure 9. Europe Cyclic Direct Simple Shear Testing System Production (2021-2032) & (Units)

Figure 10. China Cyclic Direct Simple Shear Testing System Production (2021-2032) & (Units)

Figure 11. Japan Cyclic Direct Simple Shear Testing System Production (2021-2032) & (Units)

Figure 12. Cyclic Direct Simple Shear Testing System Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 15. World Cyclic Direct Simple Shear Testing System Consumption Market Share by Region (2021-2032)

Figure 16. United States Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 17. China Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 18. Europe Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 19. Japan Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 20. South Korea Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 21. ASEAN Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 22. India Cyclic Direct Simple Shear Testing System Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Cyclic Direct Simple Shear Testing System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Cyclic Direct Simple Shear Testing System Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Cyclic Direct Simple Shear Testing System Markets in 2025

Figure 26. United States VS China: Cyclic Direct Simple Shear Testing System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Cyclic Direct Simple Shear Testing System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Cyclic Direct Simple Shear Testing System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Cyclic Direct Simple Shear Testing System Production Market Share 2025

Figure 30. China Based Manufacturers Cyclic Direct Simple Shear Testing System Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Cyclic Direct Simple Shear Testing System Production Market Share 2025

Figure 32. World Cyclic Direct Simple Shear Testing System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Type in 2025

Figure 34. Single-Axis Cyclic Direct Simple Shear Testing System

Figure 35. Multi-Axis Cyclic Direct Simple Shear Testing System

Figure 36. World Cyclic Direct Simple Shear Testing System Production Market Share by Type (2021-2032)

Figure 37. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Type (2021-2032)

Figure 38. World Cyclic Direct Simple Shear Testing System Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World Cyclic Direct Simple Shear Testing System Production Value by Horizontal Circulation Control Capability, (USD Million), 2021 & 2025 & 2032

Figure 40. World Cyclic Direct Simple Shear Testing System Production Value Market

Share by Horizontal Circulation Control Capability in 2025

Figure 41. Load-Control-Only Cyclic Direct Simple Shear Testing System

Figure 42. Displacement-Control-Only Cyclic Direct Simple Shear Testing System

Figure 43. Load-and-Displacement Dual-Control Cyclic Direct Simple Shear Testing System

Figure 44. World Cyclic Direct Simple Shear Testing System Production Market Share by Horizontal Circulation Control Capability (2021-2032)

Figure 45. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Horizontal Circulation Control Capability (2021-2032)

Figure 46. World Cyclic Direct Simple Shear Testing System Average Price by Horizontal Circulation Control Capability (2021-2032) & (K US\$/Unit)

Figure 47. World Cyclic Direct Simple Shear Testing System Production Value by Maximum Cyclic Loading Frequency, (USD Million), 2021 & 2025 & 2032

Figure 48. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Maximum Cyclic Loading Frequency in 2025

Figure 49. Up to 0.5 Hz Maximum Cyclic Loading Frequency

Figure 50. Above 0.5 Hz to 1 Hz Maximum Cyclic Loading Frequency

Figure 51. Above 1 Hz to 5 Hz Maximum Cyclic Loading Frequency

Figure 52. Above 5 Hz Maximum Cyclic Loading Frequency

Figure 53. World Cyclic Direct Simple Shear Testing System Production Market Share by Maximum Cyclic Loading Frequency (2021-2032)

Figure 54. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Maximum Cyclic Loading Frequency (2021-2032)

Figure 55. World Cyclic Direct Simple Shear Testing System Average Price by Maximum Cyclic Loading Frequency (2021-2032) & (K US\$/Unit)

Figure 56. World Cyclic Direct Simple Shear Testing System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Application in 2025

Figure 58. Earthquake-Induced Cyclic Loading Testing

Figure 59. Wave-Induced Cyclic Loading Testing

Figure 60. Wind-Induced Cyclic Loading Testing

Figure 61. Traffic-Induced Cyclic Loading Testing

Figure 62. World Cyclic Direct Simple Shear Testing System Production Market Share by Application (2021-2032)

Figure 63. World Cyclic Direct Simple Shear Testing System Production Value Market Share by Application (2021-2032)

Figure 64. World Cyclic Direct Simple Shear Testing System Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 65. Cyclic Direct Simple Shear Testing System Industry Chain

Figure 66. Cyclic Direct Simple Shear Testing System Procurement Model

Figure 67. Cyclic Direct Simple Shear Testing System Sales Model

Figure 68. Cyclic Direct Simple Shear Testing System Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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