

# Global Minirhizotron System Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Minirhizotron System market size is predicted to grow from US\$ 58.70 million in 2025 to US\$ 83.21 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

Minirhizotron system is a tool used for in-situ, non-destructive observation of plant fine root dynamics. Their core components include transparent observation tubes buried in the soil, camera equipment with specialized lenses, and analysis software. They solve the problems of traditional root-digging methods, which damage samples and cannot continuously track the growth of the same root system. This allows scientists to monitor the growth, turnover, distribution, and environmental response of fine roots over long periods and quantitatively, greatly improving the accuracy and efficiency of research on underground ecological processes. Upstream industries primarily include the research and development and manufacturing of optical lenses, industrial endoscopes, corrosion-resistant transparent tubes, image sensors, and analysis software. Downstream industries directly serve agricultural research institutions, university ecology laboratories, forestry research stations, and ecological monitoring companies, using them for basic and applied research in crop breeding, forest carbon cycling, and global change ecology. Ultimately, they provide crucial data support for optimizing agricultural management, predicting ecosystem productivity, and developing climate adaptation strategies. In 2025, the average price of a microroot system was approximately US\$15,000 per set, with a gross profit margin of approximately 40%.

United States market for Minirhizotron System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Minirhizotron System is estimated to increase from US\$ million in 2025

to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Minirhizotron System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Minirhizotron System players cover CID Bio-Science Inc. (Unlisted, Washington USA), DeChem-Tech (Unlisted, Hamburg Germany), Vienna Scientific Instruments GmbH (Unlisted, Alland Austria), Videometer (Unlisted, Copenhagen Denmark), RhizoSystems, LLC (Unlisted, Washington USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the “Minirhizotron System Industry Forecast” looks at past sales and reviews total world Minirhizotron System sales in 2025, providing a comprehensive analysis by region and market sector of projected Minirhizotron System sales for 2026 through 2032. With Minirhizotron System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Minirhizotron System industry.

This Insight Report provides a comprehensive analysis of the global Minirhizotron System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Minirhizotron System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Minirhizotron System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Minirhizotron System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Minirhizotron System.

This report presents a comprehensive overview, market shares, and growth opportunities of Minirhizotron System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Portable Manual Minirhizotron System

Stationary Automated Minirhizotron System

Segmentation by Imaging Technology:

Digital Color Minirhizotron System

Multispectral/Hyperspectral Minirhizotron System

Fluorescence Minirhizotron System

Segmentation by Application:

Agriculture

Forestry

Environmental Engineering

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its

market penetration.

CID Bio-Science Inc. (Unlisted, Washington USA)

DeChem-Tech (Unlisted, Hamburg Germany)

Vienna Scientific Instruments GmbH (Unlisted, Alland Austria)

Videometer (Unlisted, Copenhagen Denmark)

RhizoSystems, LLC (Unlisted, Washington USA)

ICT International Pty Ltd (Unlisted, New South Wales Australia)

Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China)

PhenoTrait (Unlisted, Shanghai China)

Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China)

Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China)

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Minirhizotron System Market Size (2021-2032)
  - 2.1.2 Minirhizotron System Market Size CAGR by Region (2021 VS 2025 VS 2032)
  - 2.1.3 World Current & Future Analysis for Minirhizotron System by Country/Region (2021, 2025 & 2032)
- 2.2 Minirhizotron System Segment by Type
  - 2.2.1 Portable Manual Minirhizotron System
  - 2.2.2 Stationary Automated Minirhizotron System
  - 2.2.3 Minirhizotron System Market Size by Type
    - 2.2.3.1 Minirhizotron System Market Size CAGR by Type (2021 VS 2025 VS 2032)
    - 2.2.3.2 Global Minirhizotron System Market Size Market Share by Type (2021-2026)
- 2.3 Minirhizotron System Segment by Imaging Technology
  - 2.3.1 Digital Color Minirhizotron System
  - 2.3.2 Multispectral/Hyperspectral Minirhizotron System
  - 2.3.3 Fluorescence Minirhizotron System
  - 2.3.4 Minirhizotron System Market Size by Imaging Technology
    - 2.3.4.1 Minirhizotron System Market Size CAGR by Imaging Technology (2021 VS 2025 VS 2032)
    - 2.3.4.2 Global Minirhizotron System Market Size Market Share by Imaging Technology (2021-2026)
- 2.4 Minirhizotron System Segment by Application
  - 2.4.1 Agriculture
  - 2.4.2 Forestry
  - 2.4.3 Environmental Engineering

2.4.4 Other

2.4.5 Minirhizotron System Market Size by Application

2.4.5.1 Minirhizotron System Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.4.5.2 Global Minirhizotron System Market Size Market Share by Application (2021-2026)

### **3 MINIRHIZOTRON SYSTEM MARKET SIZE BY PLAYER**

3.1 Minirhizotron System Market Size Market Share by Player

3.1.1 Global Minirhizotron System Revenue by Player (2021-2026)

3.1.2 Global Minirhizotron System Revenue Market Share by Player (2021-2026)

3.2 Global Minirhizotron System Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

### **4 MINIRHIZOTRON SYSTEM BY REGION**

4.1 Minirhizotron System Market Size by Region (2021-2026)

4.2 Global Minirhizotron System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Minirhizotron System Market Size Growth (2021-2026)

4.4 APAC Minirhizotron System Market Size Growth (2021-2026)

4.5 Europe Minirhizotron System Market Size Growth (2021-2026)

4.6 Middle East & Africa Minirhizotron System Market Size Growth (2021-2026)

### **5 AMERICAS**

5.1 Americas Minirhizotron System Market Size by Country (2021-2026)

5.2 Americas Minirhizotron System Market Size by Type (2021-2026)

5.3 Americas Minirhizotron System Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

### **6 APAC**

- 6.1 APAC Minirhizotron System Market Size by Region (2021-2026)
- 6.2 APAC Minirhizotron System Market Size by Type (2021-2026)
- 6.3 APAC Minirhizotron System Market Size by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

## **7 EUROPE**

- 7.1 Europe Minirhizotron System Market Size by Country (2021-2026)
- 7.2 Europe Minirhizotron System Market Size by Type (2021-2026)
- 7.3 Europe Minirhizotron System Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Minirhizotron System by Region (2021-2026)
- 8.2 Middle East & Africa Minirhizotron System Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Minirhizotron System Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 GLOBAL MINIRHIZOTRON SYSTEM MARKET FORECAST**

- 10.1 Global Minirhizotron System Forecast by Region (2027-2032)
  - 10.1.1 Global Minirhizotron System Forecast by Region (2027-2032)
  - 10.1.2 Americas Minirhizotron System Forecast
  - 10.1.3 APAC Minirhizotron System Forecast
  - 10.1.4 Europe Minirhizotron System Forecast
  - 10.1.5 Middle East & Africa Minirhizotron System Forecast
- 10.2 Americas Minirhizotron System Forecast by Country (2027-2032)
  - 10.2.1 United States Market Minirhizotron System Forecast
  - 10.2.2 Canada Market Minirhizotron System Forecast
  - 10.2.3 Mexico Market Minirhizotron System Forecast
  - 10.2.4 Brazil Market Minirhizotron System Forecast
- 10.3 APAC Minirhizotron System Forecast by Region (2027-2032)
  - 10.3.1 China Minirhizotron System Market Forecast
  - 10.3.2 Japan Market Minirhizotron System Forecast
  - 10.3.3 Korea Market Minirhizotron System Forecast
  - 10.3.4 Southeast Asia Market Minirhizotron System Forecast
  - 10.3.5 India Market Minirhizotron System Forecast
  - 10.3.6 Australia Market Minirhizotron System Forecast
- 10.4 Europe Minirhizotron System Forecast by Country (2027-2032)
  - 10.4.1 Germany Market Minirhizotron System Forecast
  - 10.4.2 France Market Minirhizotron System Forecast
  - 10.4.3 UK Market Minirhizotron System Forecast
  - 10.4.4 Italy Market Minirhizotron System Forecast
  - 10.4.5 Russia Market Minirhizotron System Forecast
- 10.5 Middle East & Africa Minirhizotron System Forecast by Region (2027-2032)
  - 10.5.1 Egypt Market Minirhizotron System Forecast
  - 10.5.2 South Africa Market Minirhizotron System Forecast
  - 10.5.3 Israel Market Minirhizotron System Forecast
  - 10.5.4 Turkey Market Minirhizotron System Forecast
- 10.6 Global Minirhizotron System Forecast by Type (2027-2032)
- 10.7 Global Minirhizotron System Forecast by Application (2027-2032)
  - 10.7.1 GCC Countries Market Minirhizotron System Forecast

## **11 KEY PLAYERS ANALYSIS**

- 11.1 CID Bio-Science Inc. (Unlisted, Washington USA)
  - 11.1.1 CID Bio-Science Inc. (Unlisted, Washington USA) Company Information

11.1.2 CID Bio-Science Inc. (Unlisted, Washington USA) Minirhizotron System Product Offered

11.1.3 CID Bio-Science Inc. (Unlisted, Washington USA) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)

11.1.4 CID Bio-Science Inc. (Unlisted, Washington USA) Main Business Overview

11.1.5 CID Bio-Science Inc. (Unlisted, Washington USA) Latest Developments

11.2 DeChem-Tech (Unlisted, Hamburg Germany)

11.2.1 DeChem-Tech (Unlisted, Hamburg Germany) Company Information

11.2.2 DeChem-Tech (Unlisted, Hamburg Germany) Minirhizotron System Product Offered

11.2.3 DeChem-Tech (Unlisted, Hamburg Germany) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)

11.2.4 DeChem-Tech (Unlisted, Hamburg Germany) Main Business Overview

11.2.5 DeChem-Tech (Unlisted, Hamburg Germany) Latest Developments

11.3 Vienna Scientific Instruments GmbH (Unlisted, Alland Austria)

11.3.1 Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Company Information

11.3.2 Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Minirhizotron System Product Offered

11.3.3 Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)

11.3.4 Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Main Business Overview

11.3.5 Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Latest Developments

11.4 Videometer (Unlisted, Copenhagen Denmark)

11.4.1 Videometer (Unlisted, Copenhagen Denmark) Company Information

11.4.2 Videometer (Unlisted, Copenhagen Denmark) Minirhizotron System Product Offered

11.4.3 Videometer (Unlisted, Copenhagen Denmark) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)

11.4.4 Videometer (Unlisted, Copenhagen Denmark) Main Business Overview

11.4.5 Videometer (Unlisted, Copenhagen Denmark) Latest Developments

11.5 RhizoSystems, LLC (Unlisted, Washington USA)

11.5.1 RhizoSystems, LLC (Unlisted, Washington USA) Company Information

11.5.2 RhizoSystems, LLC (Unlisted, Washington USA) Minirhizotron System Product Offered

11.5.3 RhizoSystems, LLC (Unlisted, Washington USA) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)

- 11.5.4 RhizoSystems, LLC (Unlisted, Washington USA) Main Business Overview
- 11.5.5 RhizoSystems, LLC (Unlisted, Washington USA) Latest Developments
- 11.6 ICT International Pty Ltd (Unlisted, New South Wales Australia)
  - 11.6.1 ICT International Pty Ltd (Unlisted, New South Wales Australia) Company Information
  - 11.6.2 ICT International Pty Ltd (Unlisted, New South Wales Australia) Minirhizotron System Product Offered
  - 11.6.3 ICT International Pty Ltd (Unlisted, New South Wales Australia) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)
  - 11.6.4 ICT International Pty Ltd (Unlisted, New South Wales Australia) Main Business Overview
  - 11.6.5 ICT International Pty Ltd (Unlisted, New South Wales Australia) Latest Developments
- 11.7 Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China)
  - 11.7.1 Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Company Information
  - 11.7.2 Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Product Offered
  - 11.7.3 Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)
  - 11.7.4 Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Main Business Overview
  - 11.7.5 Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Latest Developments
- 11.8 PhenoTrait (Unlisted, Shanghai China)
  - 11.8.1 PhenoTrait (Unlisted, Shanghai China) Company Information
  - 11.8.2 PhenoTrait (Unlisted, Shanghai China) Minirhizotron System Product Offered
  - 11.8.3 PhenoTrait (Unlisted, Shanghai China) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)
  - 11.8.4 PhenoTrait (Unlisted, Shanghai China) Main Business Overview
  - 11.8.5 PhenoTrait (Unlisted, Shanghai China) Latest Developments
- 11.9 Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China)
  - 11.9.1 Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Company Information
  - 11.9.2 Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Product Offered
  - 11.9.3 Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)
  - 11.9.4 Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Main

## Business Overview

11.9.5 Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Latest Developments

11.10 Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China)

11.10.1 Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Company Information

11.10.2 Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Product Offered

11.10.3 Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Revenue, Gross Margin and Market Share (2021-2026)

11.10.4 Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Main Business Overview

11.10.5 Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Latest Developments

## **12 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Minirhizotron System Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)
- Table 2. Minirhizotron System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Portable Manual Minirhizotron System
- Table 4. Major Players of Stationary Automated Minirhizotron System
- Table 5. Minirhizotron System Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)
- Table 6. Global Minirhizotron System Market Size by Type (2021-2026) & (\$ millions)
- Table 7. Global Minirhizotron System Market Size Market Share by Type (2021-2026)
- Table 8. Major Players of Digital Color Minirhizotron System
- Table 9. Major Players of Multispectral/Hyperspectral Minirhizotron System
- Table 10. Major Players of Fluorescence Minirhizotron System
- Table 11. Minirhizotron System Market Size CAGR by Imaging Technology (2021 VS 2025 VS 2032) & (\$ millions)
- Table 12. Global Minirhizotron System Market Size by Imaging Technology (2021-2026) & (\$ millions)
- Table 13. Global Minirhizotron System Market Size Market Share by Imaging Technology (2021-2026)
- Table 14. Minirhizotron System Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)
- Table 15. Global Minirhizotron System Market Size by Application (2021-2026) & (\$ millions)
- Table 16. Global Minirhizotron System Market Size Market Share by Application (2021-2026)
- Table 17. Global Minirhizotron System Revenue by Player (2021-2026) & (\$ millions)
- Table 18. Global Minirhizotron System Revenue Market Share by Player (2021-2026)
- Table 19. Minirhizotron System Key Players Head office and Products Offered
- Table 20. Minirhizotron System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 21. New Products and Potential Entrants
- Table 22. Mergers & Acquisitions, Expansion
- Table 23. Global Minirhizotron System Market Size by Region (2021-2026) & (\$ millions)
- Table 24. Global Minirhizotron System Market Size Market Share by Region

(2021-2026)

Table 25. Global Minirhizotron System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 26. Global Minirhizotron System Revenue Market Share by Country/Region (2021-2026)

Table 27. Americas Minirhizotron System Market Size by Country (2021-2026) & (\$ millions)

Table 28. Americas Minirhizotron System Market Size Market Share by Country (2021-2026)

Table 29. Americas Minirhizotron System Market Size by Type (2021-2026) & (\$ millions)

Table 30. Americas Minirhizotron System Market Size Market Share by Type (2021-2026)

Table 31. Americas Minirhizotron System Market Size by Application (2021-2026) & (\$ millions)

Table 32. Americas Minirhizotron System Market Size Market Share by Application (2021-2026)

Table 33. APAC Minirhizotron System Market Size by Region (2021-2026) & (\$ millions)

Table 34. APAC Minirhizotron System Market Size Market Share by Region (2021-2026)

Table 35. APAC Minirhizotron System Market Size by Type (2021-2026) & (\$ millions)

Table 36. APAC Minirhizotron System Market Size by Application (2021-2026) & (\$ millions)

Table 37. Europe Minirhizotron System Market Size by Country (2021-2026) & (\$ millions)

Table 38. Europe Minirhizotron System Market Size Market Share by Country (2021-2026)

Table 39. Europe Minirhizotron System Market Size by Type (2021-2026) & (\$ millions)

Table 40. Europe Minirhizotron System Market Size by Application (2021-2026) & (\$ millions)

Table 41. Middle East & Africa Minirhizotron System Market Size by Region (2021-2026) & (\$ millions)

Table 42. Middle East & Africa Minirhizotron System Market Size by Type (2021-2026) & (\$ millions)

Table 43. Middle East & Africa Minirhizotron System Market Size by Application (2021-2026) & (\$ millions)

Table 44. Key Market Drivers & Growth Opportunities of Minirhizotron System

Table 45. Key Market Challenges & Risks of Minirhizotron System

Table 46. Key Industry Trends of Minirhizotron System

Table 47. Global Minirhizotron System Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 48. Global Minirhizotron System Market Size Market Share Forecast by Region (2027-2032)

Table 49. Global Minirhizotron System Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 50. Global Minirhizotron System Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 51. CID Bio-Science Inc. (Unlisted, Washington USA) Details, Company Type, Minirhizotron System Area Served and Its Competitors

Table 52. CID Bio-Science Inc. (Unlisted, Washington USA) Minirhizotron System Product Offered

Table 53. CID Bio-Science Inc. (Unlisted, Washington USA) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 54. CID Bio-Science Inc. (Unlisted, Washington USA) Main Business

Table 55. CID Bio-Science Inc. (Unlisted, Washington USA) Latest Developments

Table 56. DeChem-Tech (Unlisted, Hamburg Germany) Details, Company Type, Minirhizotron System Area Served and Its Competitors

Table 57. DeChem-Tech (Unlisted, Hamburg Germany) Minirhizotron System Product Offered

Table 58. DeChem-Tech (Unlisted, Hamburg Germany) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 59. DeChem-Tech (Unlisted, Hamburg Germany) Main Business

Table 60. DeChem-Tech (Unlisted, Hamburg Germany) Latest Developments

Table 61. Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Details, Company Type, Minirhizotron System Area Served and Its Competitors

Table 62. Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Minirhizotron System Product Offered

Table 63. Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 64. Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Main Business

Table 65. Vienna Scientific Instruments GmbH (Unlisted, Alland Austria) Latest Developments

Table 66. Videometer (Unlisted, Copenhagen Denmark) Details, Company Type, Minirhizotron System Area Served and Its Competitors

Table 67. Videometer (Unlisted, Copenhagen Denmark) Minirhizotron System Product Offered

Table 68. Videometer (Unlisted, Copenhagen Denmark) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

- Table 69. Videometer (Unlisted, Copenhagen Denmark) Main Business
- Table 70. Videometer (Unlisted, Copenhagen Denmark) Latest Developments
- Table 71. RhizoSystems, LLC (Unlisted, Washington USA) Details, Company Type, Minirhizotron System Area Served and Its Competitors
- Table 72. RhizoSystems, LLC (Unlisted, Washington USA) Minirhizotron System Product Offered
- Table 73. RhizoSystems, LLC (Unlisted, Washington USA) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 74. RhizoSystems, LLC (Unlisted, Washington USA) Main Business
- Table 75. RhizoSystems, LLC (Unlisted, Washington USA) Latest Developments
- Table 76. ICT International Pty Ltd (Unlisted, New South Wales Australia) Details, Company Type, Minirhizotron System Area Served and Its Competitors
- Table 77. ICT International Pty Ltd (Unlisted, New South Wales Australia) Minirhizotron System Product Offered
- Table 78. ICT International Pty Ltd (Unlisted, New South Wales Australia) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 79. ICT International Pty Ltd (Unlisted, New South Wales Australia) Main Business
- Table 80. ICT International Pty Ltd (Unlisted, New South Wales Australia) Latest Developments
- Table 81. Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Details, Company Type, Minirhizotron System Area Served and Its Competitors
- Table 82. Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Product Offered
- Table 83. Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 84. Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Main Business
- Table 85. Beijing Eco-mind Technology Co., Ltd. (Unlisted, Beijing China) Latest Developments
- Table 86. PhenoTrait (Unlisted, Shanghai China) Details, Company Type, Minirhizotron System Area Served and Its Competitors
- Table 87. PhenoTrait (Unlisted, Shanghai China) Minirhizotron System Product Offered
- Table 88. PhenoTrait (Unlisted, Shanghai China) Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 89. PhenoTrait (Unlisted, Shanghai China) Main Business
- Table 90. PhenoTrait (Unlisted, Shanghai China) Latest Developments
- Table 91. Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Details, Company Type, Minirhizotron System Area Served and Its Competitors

Table 92. Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China)  
Minirhizotron System Product Offered

Table 93. Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China)  
Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 94. Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Main  
Business

Table 95. Beijing Aozuo Ecological Instrument Co., Ltd. (Unlisted, Beijing China) Latest  
Developments

Table 96. Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Details,  
Company Type, Minirhizotron System Area Served and Its Competitors

Table 97. Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China)  
Minirhizotron System Product Offered

Table 98. Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China)  
Minirhizotron System Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 99. Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Main  
Business

Table 100. Noah Micro Optics Technology Co., Ltd. (Unlisted, Beijing China) Latest  
Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Minirhizotron System Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Minirhizotron System Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Minirhizotron System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Minirhizotron System Sales Market Share by Country/Region (2025)
- Figure 8. Minirhizotron System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Minirhizotron System Market Size Market Share by Type in 2025
- Figure 10. Global Minirhizotron System Market Size Market Share by Imaging Technology in 2025
- Figure 11. Minirhizotron System in Agriculture
- Figure 12. Global Minirhizotron System Market: Agriculture (2021-2026) & (\$ millions)
- Figure 13. Minirhizotron System in Forestry
- Figure 14. Global Minirhizotron System Market: Forestry (2021-2026) & (\$ millions)
- Figure 15. Minirhizotron System in Environmental Engineering
- Figure 16. Global Minirhizotron System Market: Environmental Engineering (2021-2026) & (\$ millions)
- Figure 17. Minirhizotron System in Other
- Figure 18. Global Minirhizotron System Market: Other (2021-2026) & (\$ millions)
- Figure 19. Global Minirhizotron System Market Size Market Share by Application in 2025
- Figure 20. Global Minirhizotron System Revenue Market Share by Player in 2025
- Figure 21. Global Minirhizotron System Market Size Market Share by Region (2021-2026)
- Figure 22. Americas Minirhizotron System Market Size 2021-2026 (\$ millions)
- Figure 23. APAC Minirhizotron System Market Size 2021-2026 (\$ millions)
- Figure 24. Europe Minirhizotron System Market Size 2021-2026 (\$ millions)
- Figure 25. Middle East & Africa Minirhizotron System Market Size 2021-2026 (\$ millions)
- Figure 26. Americas Minirhizotron System Value Market Share by Country in 2025
- Figure 27. United States Minirhizotron System Market Size Growth 2021-2026 (\$

millions)

Figure 28. Canada Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 29. Mexico Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 30. Brazil Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 31. APAC Minirhizotron System Market Size Market Share by Region in 2025

Figure 32. APAC Minirhizotron System Market Size Market Share by Type (2021-2026)

Figure 33. APAC Minirhizotron System Market Size Market Share by Application (2021-2026)

Figure 34. China Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 35. Japan Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 36. South Korea Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 37. Southeast Asia Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 38. India Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 39. Australia Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 40. Europe Minirhizotron System Market Size Market Share by Country in 2025

Figure 41. Europe Minirhizotron System Market Size Market Share by Type (2021-2026)

Figure 42. Europe Minirhizotron System Market Size Market Share by Application (2021-2026)

Figure 43. Germany Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 44. France Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 45. UK Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 46. Italy Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 47. Russia Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Minirhizotron System Market Size Market Share by Region (2021-2026)

Figure 49. Middle East & Africa Minirhizotron System Market Size Market Share by Type (2021-2026)

Figure 50. Middle East & Africa Minirhizotron System Market Size Market Share by Application (2021-2026)

Figure 51. Egypt Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 52. South Africa Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 53. Israel Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 54. Turkey Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

Figure 55. GCC Countries Minirhizotron System Market Size Growth 2021-2026 (\$ millions)

- Figure 56. Americas Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 57. APAC Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 58. Europe Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 59. Middle East & Africa Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 60. United States Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 61. Canada Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 62. Mexico Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 63. Brazil Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 64. China Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 65. Japan Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 66. Korea Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 67. Southeast Asia Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 68. India Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 69. Australia Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 70. Germany Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 71. France Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 72. UK Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 73. Italy Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 74. Russia Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 75. Egypt Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 76. South Africa Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 77. Israel Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 78. Turkey Minirhizotron System Market Size 2027-2032 (\$ millions)
- Figure 79. Global Minirhizotron System Market Size Market Share Forecast by Type (2027-2032)
- Figure 80. Global Minirhizotron System Market Size Market Share Forecast by Application (2027-2032)
- Figure 81. GCC Countries Minirhizotron System Market Size 2027-2032 (\$ millions)

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