

Global Plant Phenotyping Instrument Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Plant Phenotyping Instrument competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A plant phenotyping instrument is an instrument used to efficiently and accurately obtain the external morphological characteristics (such as plant height, leaf area, crown width, color, etc.) and growth status of plants. It often combines imaging technology (such as RGB, infrared, lidar or multispectral) with artificial intelligence algorithms. It is widely used in plant breeding, agricultural research and crop growth monitoring, helping researchers evaluate the relationship between plant traits and the environment or genes. Sales volume in 2024 is expected to be 280,000 units, with an average price of US\$558 per unit. Annual production capacity is expected to be 50,000 units, with a gross profit margin of 38%.

The global Plant Phenotyping Instrument market size was estimated at USD 156.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Plant Phenotyping Instrument market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Plant Phenotyping Instrument market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Plant Phenotyping Instrument market.

Global Plant Phenotyping Instrument Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Micromeritics Instrument Corporation

Quantachrome Instruments

Porous Materials Inc.

Beckman Coulter

Anton Paar

Horiba Scientific

Microtrac

Eltra

Surface Measurement Systems

Hidden Analytical

Zhejiang Top Cloud-Agri Technology Co., Ltd.

Market Segmentation (by Type)

2D Imaging System

3D Imaging System

Market Segmentation (by Application)

Agricultural Science

Plant Physiology Research

Horticulture & Crop Breeding

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Plant Phenotyping Instrument Market

Overview of the regional outlook of the Plant Phenotyping Instrument Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Plant Phenotyping Instrument Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Plant Phenotyping Instrument, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail,

including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Plant Phenotyping Instrument

1.2 Key Market Segments

1.2.1 Plant Phenotyping Instrument Segment by Type

1.2.2 Plant Phenotyping Instrument Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 PLANT PHENOTYPING INSTRUMENT MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Plant Phenotyping Instrument Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Plant Phenotyping Instrument Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 PLANT PHENOTYPING INSTRUMENT MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Plant Phenotyping Instrument Product Life Cycle

3.3 Global Plant Phenotyping Instrument Sales by Manufacturers (2020-2025)

3.4 Global Plant Phenotyping Instrument Revenue Market Share by Manufacturers (2020-2025)

3.5 Plant Phenotyping Instrument Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Plant Phenotyping Instrument Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Plant Phenotyping Instrument Market Competitive Situation and Trends

3.8.1 Plant Phenotyping Instrument Market Concentration Rate

3.8.2 Global 5 and 10 Largest Plant Phenotyping Instrument Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 PLANT PHENOTYPING INSTRUMENT INDUSTRY CHAIN ANALYSIS

4.1 Plant Phenotyping Instrument Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PLANT PHENOTYPING INSTRUMENT MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Plant Phenotyping Instrument Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Plant Phenotyping Instrument Market

5.7 ESG Ratings of Leading Companies

6 PLANT PHENOTYPING INSTRUMENT MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Plant Phenotyping Instrument Sales Market Share by Type (2020-2025)

6.3 Global Plant Phenotyping Instrument Market Size by Type (2020-2025)

6.4 Global Plant Phenotyping Instrument Price by Type (2020-2025)

7 PLANT PHENOTYPING INSTRUMENT MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Plant Phenotyping Instrument Market Sales by Application (2020-2025)
- 7.3 Global Plant Phenotyping Instrument Market Size (M USD) by Application (2020-2025)
- 7.4 Global Plant Phenotyping Instrument Sales Growth Rate by Application (2020-2025)

8 PLANT PHENOTYPING INSTRUMENT MARKET SALES BY REGION

- 8.1 Global Plant Phenotyping Instrument Sales by Region
 - 8.1.1 Global Plant Phenotyping Instrument Sales by Region
 - 8.1.2 Global Plant Phenotyping Instrument Sales Market Share by Region
- 8.2 Global Plant Phenotyping Instrument Market Size by Region
 - 8.2.1 Global Plant Phenotyping Instrument Market Size by Region
 - 8.2.2 Global Plant Phenotyping Instrument Market Size by Region
- 8.3 North America
 - 8.3.1 North America Plant Phenotyping Instrument Sales by Country
 - 8.3.2 North America Plant Phenotyping Instrument Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Plant Phenotyping Instrument Sales by Country
 - 8.4.2 Europe Plant Phenotyping Instrument Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Plant Phenotyping Instrument Sales by Region
 - 8.5.2 Asia Pacific Plant Phenotyping Instrument Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Plant Phenotyping Instrument Sales by Country

8.6.2 South America Plant Phenotyping Instrument Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Plant Phenotyping Instrument Sales by Region

8.7.2 Middle East and Africa Plant Phenotyping Instrument Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 PLANT PHENOTYPING INSTRUMENT MARKET PRODUCTION BY REGION

9.1 Global Production of Plant Phenotyping Instrument by Region(2020-2025)

9.2 Global Plant Phenotyping Instrument Revenue Market Share by Region (2020-2025)

9.3 Global Plant Phenotyping Instrument Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Plant Phenotyping Instrument Production

9.4.1 North America Plant Phenotyping Instrument Production Growth Rate (2020-2025)

9.4.2 North America Plant Phenotyping Instrument Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Plant Phenotyping Instrument Production

9.5.1 Europe Plant Phenotyping Instrument Production Growth Rate (2020-2025)

9.5.2 Europe Plant Phenotyping Instrument Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Plant Phenotyping Instrument Production (2020-2025)

9.6.1 Japan Plant Phenotyping Instrument Production Growth Rate (2020-2025)

9.6.2 Japan Plant Phenotyping Instrument Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Plant Phenotyping Instrument Production (2020-2025)

9.7.1 China Plant Phenotyping Instrument Production Growth Rate (2020-2025)

9.7.2 China Plant Phenotyping Instrument Production, Revenue, Price and Gross

Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Micromeritics Instrument Corporation

10.1.1 Micromeritics Instrument Corporation Basic Information

10.1.2 Micromeritics Instrument Corporation Plant Phenotyping Instrument Product Overview

10.1.3 Micromeritics Instrument Corporation Plant Phenotyping Instrument Product Market Performance

10.1.4 Micromeritics Instrument Corporation Business Overview

10.1.5 Micromeritics Instrument Corporation SWOT Analysis

10.1.6 Micromeritics Instrument Corporation Recent Developments

10.2 Quantachrome Instruments

10.2.1 Quantachrome Instruments Basic Information

10.2.2 Quantachrome Instruments Plant Phenotyping Instrument Product Overview

10.2.3 Quantachrome Instruments Plant Phenotyping Instrument Product Market Performance

10.2.4 Quantachrome Instruments Business Overview

10.2.5 Quantachrome Instruments SWOT Analysis

10.2.6 Quantachrome Instruments Recent Developments

10.3 Porous Materials Inc.

10.3.1 Porous Materials Inc. Basic Information

10.3.2 Porous Materials Inc. Plant Phenotyping Instrument Product Overview

10.3.3 Porous Materials Inc. Plant Phenotyping Instrument Product Market Performance

10.3.4 Porous Materials Inc. Business Overview

10.3.5 Porous Materials Inc. SWOT Analysis

10.3.6 Porous Materials Inc. Recent Developments

10.4 Beckman Coulter

10.4.1 Beckman Coulter Basic Information

10.4.2 Beckman Coulter Plant Phenotyping Instrument Product Overview

10.4.3 Beckman Coulter Plant Phenotyping Instrument Product Market Performance

10.4.4 Beckman Coulter Business Overview

10.4.5 Beckman Coulter Recent Developments

10.5 Anton Paar

10.5.1 Anton Paar Basic Information

10.5.2 Anton Paar Plant Phenotyping Instrument Product Overview

10.5.3 Anton Paar Plant Phenotyping Instrument Product Market Performance

- 10.5.4 Anton Paar Business Overview
- 10.5.5 Anton Paar Recent Developments
- 10.6 Horiba Scientific
 - 10.6.1 Horiba Scientific Basic Information
 - 10.6.2 Horiba Scientific Plant Phenotyping Instrument Product Overview
 - 10.6.3 Horiba Scientific Plant Phenotyping Instrument Product Market Performance
 - 10.6.4 Horiba Scientific Business Overview
 - 10.6.5 Horiba Scientific Recent Developments
- 10.7 Microtrac
 - 10.7.1 Microtrac Basic Information
 - 10.7.2 Microtrac Plant Phenotyping Instrument Product Overview
 - 10.7.3 Microtrac Plant Phenotyping Instrument Product Market Performance
 - 10.7.4 Microtrac Business Overview
 - 10.7.5 Microtrac Recent Developments
- 10.8 Eltra
 - 10.8.1 Eltra Basic Information
 - 10.8.2 Eltra Plant Phenotyping Instrument Product Overview
 - 10.8.3 Eltra Plant Phenotyping Instrument Product Market Performance
 - 10.8.4 Eltra Business Overview
 - 10.8.5 Eltra Recent Developments
- 10.9 Surface Measurement Systems
 - 10.9.1 Surface Measurement Systems Basic Information
 - 10.9.2 Surface Measurement Systems Plant Phenotyping Instrument Product Overview
 - 10.9.3 Surface Measurement Systems Plant Phenotyping Instrument Product Market Performance
 - 10.9.4 Surface Measurement Systems Business Overview
 - 10.9.5 Surface Measurement Systems Recent Developments
- 10.10 Hiden Analytical
 - 10.10.1 Hiden Analytical Basic Information
 - 10.10.2 Hiden Analytical Plant Phenotyping Instrument Product Overview
 - 10.10.3 Hiden Analytical Plant Phenotyping Instrument Product Market Performance
 - 10.10.4 Hiden Analytical Business Overview
 - 10.10.5 Hiden Analytical Recent Developments
- 10.11 Zhejiang Top Cloud-Agri Technology Co., Ltd.
 - 10.11.1 Zhejiang Top Cloud-Agri Technology Co., Ltd. Basic Information
 - 10.11.2 Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Phenotyping Instrument Product Overview
 - 10.11.3 Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Phenotyping Instrument

Product Market Performance

10.11.4 Zhejiang Top Cloud-Agri Technology Co., Ltd. Business Overview

10.11.5 Zhejiang Top Cloud-Agri Technology Co., Ltd. Recent Developments

11 PLANT PHENOTYPING INSTRUMENT MARKET FORECAST BY REGION

11.1 Global Plant Phenotyping Instrument Market Size Forecast

11.2 Global Plant Phenotyping Instrument Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Plant Phenotyping Instrument Market Size Forecast by Country

11.2.3 Asia Pacific Plant Phenotyping Instrument Market Size Forecast by Region

11.2.4 South America Plant Phenotyping Instrument Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Plant Phenotyping Instrument by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Plant Phenotyping Instrument Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Plant Phenotyping Instrument by Type (2026-2035)

12.1.2 Global Plant Phenotyping Instrument Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Plant Phenotyping Instrument by Type (2026-2035)

12.2 Global Plant Phenotyping Instrument Market Forecast by Application (2026-2035)

12.2.1 Global Plant Phenotyping Instrument Sales (K Units) Forecast by Application

12.2.2 Global Plant Phenotyping Instrument Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Plant Phenotyping Instrument Market Size by Type (M USD)

Table 4. Global Plant Phenotyping Instrument Market Size by Application

Table 5. Plant Phenotyping Instrument Market Size Comparison by Region (M USD)

Table 6. Global Plant Phenotyping Instrument Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Plant Phenotyping Instrument Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Plant Phenotyping Instrument Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Plant Phenotyping Instrument Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Plant Phenotyping Instrument as of 2025)

Table 11. Global Market Plant Phenotyping Instrument Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Plant Phenotyping Instrument Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Plant Phenotyping Instrument Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Plant Phenotyping Instrument Sales by Type (K Units)

Table 27. Global Plant Phenotyping Instrument Market Size by Type (M USD)

Table 28. Global Plant Phenotyping Instrument Sales (K Units) by Type (2020-2025)

Table 29. Global Plant Phenotyping Instrument Sales Market Share by Type (2020-2025)

Table 30. Global Plant Phenotyping Instrument Market Size (M USD) by Type (2020-2025)

Table 31. Global Plant Phenotyping Instrument Market Share by Type (2020-2025)

Table 32. Global Plant Phenotyping Instrument Price (USD/Unit) by Type (2020-2025)

Table 33. Global Plant Phenotyping Instrument Sales (K Units) by Application

Table 34. Global Plant Phenotyping Instrument Market Size by Application

Table 35. Global Plant Phenotyping Instrument Sales by Application (2020-2025) & (K Units)

Table 36. Global Plant Phenotyping Instrument Sales Market Share by Application (2020-2025)

Table 37. Global Plant Phenotyping Instrument Market Size by Application (2020-2025) & (M USD)

Table 38. Global Plant Phenotyping Instrument Market Share by Application (2020-2025)

Table 39. Global Plant Phenotyping Instrument Sales Growth Rate by Application (2020-2025)

Table 40. Global Plant Phenotyping Instrument Sales by Region (2020-2025) & (K Units)

Table 41. Global Plant Phenotyping Instrument Sales Market Share by Region (2020-2025)

Table 42. Global Plant Phenotyping Instrument Market Size by Region (2020-2025) & (M USD)

Table 43. Global Plant Phenotyping Instrument Market Size by Region (2020-2025)

Table 44. North America Plant Phenotyping Instrument Sales by Country (2020-2025) & (K Units)

Table 45. North America Plant Phenotyping Instrument Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Plant Phenotyping Instrument Sales by Country (2020-2025) & (K Units)

Table 47. Europe Plant Phenotyping Instrument Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Plant Phenotyping Instrument Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Plant Phenotyping Instrument Market Size by Region (2020-2025) & (M USD)

Table 50. South America Plant Phenotyping Instrument Sales by Country (2020-2025) &

(K Units)

Table 51. South America Plant Phenotyping Instrument Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Plant Phenotyping Instrument Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Plant Phenotyping Instrument Market Size by Region (2020-2025) & (M USD)

Table 54. Global Plant Phenotyping Instrument Production (K Units) by Region(2020-2025)

Table 55. Global Plant Phenotyping Instrument Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Plant Phenotyping Instrument Revenue Market Share by Region (2020-2025)

Table 57. Global Plant Phenotyping Instrument Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Plant Phenotyping Instrument Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Plant Phenotyping Instrument Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Plant Phenotyping Instrument Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Plant Phenotyping Instrument Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Micromeritics Instrument Corporation Basic Information

Table 63. Micromeritics Instrument Corporation Plant Phenotyping Instrument Product Overview

Table 64. Micromeritics Instrument Corporation Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Micromeritics Instrument Corporation Business Overview

Table 66. Micromeritics Instrument Corporation SWOT Analysis

Table 67. Micromeritics Instrument Corporation Recent Developments

Table 68. Quantachrome Instruments Basic Information

Table 69. Quantachrome Instruments Plant Phenotyping Instrument Product Overview

Table 70. Quantachrome Instruments Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Quantachrome Instruments Business Overview

Table 72. Quantachrome Instruments SWOT Analysis

Table 73. Quantachrome Instruments Recent Developments

Table 74. Porous Materials Inc. Basic Information

- Table 75. Porous Materials Inc. Plant Phenotyping Instrument Product Overview
- Table 76. Porous Materials Inc. Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Porous Materials Inc. Business Overview
- Table 78. Porous Materials Inc. SWOT Analysis
- Table 79. Porous Materials Inc. Recent Developments
- Table 80. Beckman Coulter Basic Information
- Table 81. Beckman Coulter Plant Phenotyping Instrument Product Overview
- Table 82. Beckman Coulter Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Beckman Coulter Business Overview
- Table 84. Beckman Coulter Recent Developments
- Table 85. Anton Paar Basic Information
- Table 86. Anton Paar Plant Phenotyping Instrument Product Overview
- Table 87. Anton Paar Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Anton Paar Business Overview
- Table 89. Anton Paar Recent Developments
- Table 90. Horiba Scientific Basic Information
- Table 91. Horiba Scientific Plant Phenotyping Instrument Product Overview
- Table 92. Horiba Scientific Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Horiba Scientific Business Overview
- Table 94. Horiba Scientific Recent Developments
- Table 95. Microtrac Basic Information
- Table 96. Microtrac Plant Phenotyping Instrument Product Overview
- Table 97. Microtrac Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Microtrac Business Overview
- Table 99. Microtrac Recent Developments
- Table 100. Eltra Basic Information
- Table 101. Eltra Plant Phenotyping Instrument Product Overview
- Table 102. Eltra Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Eltra Business Overview
- Table 104. Eltra Recent Developments
- Table 105. Surface Measurement Systems Basic Information
- Table 106. Surface Measurement Systems Plant Phenotyping Instrument Product Overview

Table 107. Surface Measurement Systems Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Surface Measurement Systems Business Overview

Table 109. Surface Measurement Systems Recent Developments

Table 110. Hiden Analytical Basic Information

Table 111. Hiden Analytical Plant Phenotyping Instrument Product Overview

Table 112. Hiden Analytical Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Hiden Analytical Business Overview

Table 114. Hiden Analytical Recent Developments

Table 115. Zhejiang Top Cloud-Agri Technology Co., Ltd. Basic Information

Table 116. Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Phenotyping Instrument Product Overview

Table 117. Zhejiang Top Cloud-Agri Technology Co., Ltd. Plant Phenotyping Instrument Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Zhejiang Top Cloud-Agri Technology Co., Ltd. Business Overview

Table 119. Zhejiang Top Cloud-Agri Technology Co., Ltd. Recent Developments

Table 120. Global Plant Phenotyping Instrument Sales Forecast by Region (2026-2035) & (K Units)

Table 121. Global Plant Phenotyping Instrument Market Size Forecast by Region (2026-2035) & (M USD)

Table 122. North America Plant Phenotyping Instrument Sales Forecast by Country (2026-2035) & (K Units)

Table 123. North America Plant Phenotyping Instrument Market Size Forecast by Country (2026-2035) & (M USD)

Table 124. Europe Plant Phenotyping Instrument Sales Forecast by Country (2026-2035) & (K Units)

Table 125. Europe Plant Phenotyping Instrument Market Size Forecast by Country (2026-2035) & (M USD)

Table 126. Asia Pacific Plant Phenotyping Instrument Sales Forecast by Region (2026-2035) & (K Units)

Table 127. Asia Pacific Plant Phenotyping Instrument Market Size Forecast by Region (2026-2035) & (M USD)

Table 128. South America Plant Phenotyping Instrument Sales Forecast by Country (2026-2035) & (K Units)

Table 129. South America Plant Phenotyping Instrument Market Size Forecast by Country (2026-2035) & (M USD)

Table 130. Middle East and Africa Plant Phenotyping Instrument Sales Forecast by Country (2026-2035) & (Units)

Table 131. Middle East and Africa Plant Phenotyping Instrument Market Size Forecast by Country (2026-2035) & (M USD)

Table 132. Global Plant Phenotyping Instrument Sales Forecast by Type (2026-2035) & (K Units)

Table 133. Global Plant Phenotyping Instrument Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global Plant Phenotyping Instrument Price Forecast by Type (2026-2035) & (USD/Unit)

Table 135. Global Plant Phenotyping Instrument Sales (K Units) Forecast by Application (2026-2035)

Table 136. Global Plant Phenotyping Instrument Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Plant Phenotyping Instrument
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Plant Phenotyping Instrument Market Size (M USD), 2025-2035
- Figure 5. Global Plant Phenotyping Instrument Market Size (M USD) (2020-2035)
- Figure 6. Global Plant Phenotyping Instrument Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Plant Phenotyping Instrument Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Plant Phenotyping Instrument Product Life Cycle
- Figure 13. Plant Phenotyping Instrument Sales Share by Manufacturers in 2025
- Figure 14. Global Plant Phenotyping Instrument Revenue Share by Manufacturers in 2025
- Figure 15. Plant Phenotyping Instrument Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Plant Phenotyping Instrument Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Plant Phenotyping Instrument Revenue in 2025
- Figure 18. Industry Chain Map of Plant Phenotyping Instrument
- Figure 19. Global Plant Phenotyping Instrument Market PEST Analysis
- Figure 20. Global Plant Phenotyping Instrument Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Plant Phenotyping Instrument Market Share by Type
- Figure 27. Sales Market Share of Plant Phenotyping Instrument by Type (2020-2025)
- Figure 28. Sales Market Share of Plant Phenotyping Instrument by Type in 2025
- Figure 29. Market Share of Plant Phenotyping Instrument by Type (2020-2025)
- Figure 30. Market Share of Plant Phenotyping Instrument by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Plant Phenotyping Instrument Market Share by Application
- Figure 33. Global Plant Phenotyping Instrument Sales Market Share by Application (2020-2025)
- Figure 34. Global Plant Phenotyping Instrument Sales Market Share by Application in 2025
- Figure 35. Global Plant Phenotyping Instrument Market Share by Application (2020-2025)
- Figure 36. Global Plant Phenotyping Instrument Market Share by Application in 2025
- Figure 37. Global Plant Phenotyping Instrument Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Plant Phenotyping Instrument Sales Market Share by Region (2020-2025)
- Figure 39. Global Plant Phenotyping Instrument Market Size by Region (2020-2025)
- Figure 40. North America Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Plant Phenotyping Instrument Sales Market Share by Country in 2024
- Figure 43. North America Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Plant Phenotyping Instrument Market Size by Country in 2024
- Figure 45. U.S. Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Plant Phenotyping Instrument Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Plant Phenotyping Instrument Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Plant Phenotyping Instrument Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Plant Phenotyping Instrument Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Plant Phenotyping Instrument Sales Market Share by Country in 2024
- Figure 53. Europe Plant Phenotyping Instrument Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 54. Europe Plant Phenotyping Instrument Market Size by Country in 2024

Figure 55. Germany Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Plant Phenotyping Instrument Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Plant Phenotyping Instrument Sales Market Share by Region in 2024

Figure 67. Asia Pacific Plant Phenotyping Instrument Market Size by Region in 2024

Figure 68. China Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K

Units)

Figure 75. India Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Plant Phenotyping Instrument Sales and Growth Rate (K Units)

Figure 79. South America Plant Phenotyping Instrument Sales Market Share by Country in 2024

Figure 80. South America Plant Phenotyping Instrument Market Size and Growth Rate (M USD)

Figure 81. South America Plant Phenotyping Instrument Market Size by Country in 2024

Figure 82. Brazil Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Plant Phenotyping Instrument Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Plant Phenotyping Instrument Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Plant Phenotyping Instrument Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Plant Phenotyping Instrument Market Size by Region in 2024

Figure 92. Saudi Arabia Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K

Units)

Figure 95. UAE Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Plant Phenotyping Instrument Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Plant Phenotyping Instrument Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Plant Phenotyping Instrument Production Market Share by Region (2020-2025)

Figure 103. North America Plant Phenotyping Instrument Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Plant Phenotyping Instrument Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Plant Phenotyping Instrument Production (K Units) Growth Rate (2020-2025)

Figure 106. China Plant Phenotyping Instrument Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Plant Phenotyping Instrument Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Plant Phenotyping Instrument Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Plant Phenotyping Instrument Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Plant Phenotyping Instrument Market Share Forecast by Type (2026-2035)

Figure 111. Global Plant Phenotyping Instrument Sales Forecast by Application (2026-2035)

Figure 112. Global Plant Phenotyping Instrument Market Share Forecast by Application (2026-2035)

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