

Sprinkler Irrigation System Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By Type (Central Pivot, Lateral Move, Solid Set, Others), By Field Size (Small, Medium, Large), By Mobility (Stationary and Towable), By Spray Pattern (Rotating Head and Perforated Pipe), By Application (Agricultural and Non-Agricultural), By Crop Type (Cereals & Grains, Pulses & Oilseeds, Fruits & Vegetables, Olericulture, Cotton & Others), By Region and Competition

<https://marketpublishers.com/r/S9809B5ADA01EN.html>

Date: February 2024

Pages: 184

Price: US\$ 4,900.00 (Single User License)

ID: S9809B5ADA01EN

Abstracts

Global Sprinkler Irrigation System Market was valued at USD 1.35 Billion in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 4.22% through 2029. Sprinkler Irrigation System, a method akin to natural rainfall, involves the distribution of water through a network of pipes, typically powered by pumping. The water is then propelled into the air by sprinklers, forming tiny droplets that gently descend upon the ground. This versatile system finds application across various crops, including vegetables, field crops, and orchards, among others. What sets it apart is its adaptability, as it can be tailored to meet the unique requirements of each field, ensuring optimal irrigation and crop growth.

Key Market Drivers

Technological Advancements in Sprinkler Irrigation Systems

The global demand for sprinkler irrigation systems is expected to rise significantly due to the advent of technological advancements. Groundbreaking innovations have enabled the development of highly efficient sprinkler systems that can precisely manage water distribution, potentially conserving up to 30% more water compared to traditional methods. Improved sensor technology allows for real-time soil moisture monitoring, facilitating optimal water usage and minimizing wastage. Moreover, the integration of smart technologies like IoT enables remote control and monitoring of the systems, adding convenience and enhancing productivity. Also noteworthy is the use of AI and data analytics to predict weather patterns and soil conditions, further optimizing irrigation schedules and water usage. These advancements not only enhance water conservation but also significantly improve crop yield, making them attractive to farmers striving for sustainable and profitable farming practices. Consequently, the benefits these advanced sprinkler systems offer are driving their demand globally, as farmers and agricultural organizations recognize their potential in addressing the growing needs of food security and water management.

Government Initiatives Promoting Water-Efficient Irrigation Practices

Government initiatives promoting water-efficient irrigation practices are increasingly shaping the global demand for sprinkler irrigation systems. As the world grapples with water scarcity and climate change, governments are proactively encouraging the adoption of efficient irrigation systems to promote sustainable agriculture. These initiatives often include incentive schemes, subsidies, and training programs aimed at supporting farmers to transition from traditional irrigation methods to more efficient systems, such as sprinkler irrigation. The sprinkler irrigation system, known for its efficient water application and conservation, is considered a vital tool for sustainable water management. This system optimizes water use by distributing it evenly across fields, thereby reducing water wastage and improving crop yields. Increasing global awareness about water conservation and the need for efficient use of water resources underpins the projected rise in demand for sprinkler irrigation systems. As more governments around the world enact policies and measures promoting water-efficient irrigation, it is expected that the global market for sprinkler irrigation systems will witness substantial growth.

Expansion of Irrigable Land Areas

The global demand for sprinkler irrigation systems is anticipated to increase significantly with the expansion of irrigable land areas. As the world's population continues to grow, the need for efficient, sustainable agriculture is becoming increasingly paramount.

Implementing sprinkler irrigation systems on a larger scale is a viable solution to meet this escalating food demand. This technology allows for precise water application, ensuring optimal crop growth while conserving water resources. Moreover, it facilitates the irrigation of uneven and vast land areas, which would otherwise be challenging to cultivate. Thus, as more arable lands are being developed for agricultural use, the necessity for these systems is expected to rise. Beyond this, the shift towards modern farming techniques geared towards higher productivity and sustainability will likely further drive the adoption of sprinkler irrigation systems worldwide. Consequently, the current trend of expanding irrigable land areas highlights a promising future for the global sprinkler irrigation system market.

Increase in Commercial Farming & Greenhouses

The escalation in commercial farming and greenhouses around the globe is projected to stimulate the demand for sprinkler irrigation systems. As the world's population continues to grow, it's becoming increasingly essential to maximize agricultural output. Commercial farming and greenhouses serve as effective means to optimize yield, but they require efficient water management to realize their full potential. Sprinkler irrigation systems offer an optimal solution, dispensing water in an efficient, uniform manner that minimizes waste and conserves resources. They offer the ability to precisely control the volume of water delivered to each plant, reducing overwatering and under-watering, and boosting crop health and yield.

Moreover, the rise of greenhouses, which create controlled environments for plant growth, intensifies the need for these systems. Greenhouses rely on precise watering to maintain the specific conditions necessary for optimal plant growth, a task perfectly suited to sprinkler irrigation systems. Furthermore, modern innovations in these systems, such as automated and smart sprinklers, present additional advantages in terms of labor and cost savings, attracting even more interest from commercial farmers and greenhouse cultivators. Consequently, the concurrent increase in commercial farming and greenhouses is anticipated to drive global demand for sprinkler irrigation systems upwards.

Key Market Challenges

High Cost of Installation

High installation costs have been identified as a prominent factor expected to decline the global demand for Sprinkler Irrigation Systems. These complex systems, while

efficient and effective in irrigation, often require considerable investment due to the high costs associated with their installation. Initial outlay can include not just the system itself, but also costs of professional installation, land preparation, and sometimes even topographical surveys. The high monetary commitment upfront may deter potential customers, particularly small-scale farmers and individuals who may not have the extensive capital necessary for such an undertaking. Moreover, in developing regions or areas with limited resources, such investment may simply be unfeasible. Therefore, in a global perspective, the high cost of installation is likely to decrease the demand for Sprinkler Irrigation Systems, potentially inhibiting market growth unless cost-effective alternatives or financial support mechanisms are introduced. One possible alternative solution to address the issue of high installation costs is the exploration of subsidies or grants specifically aimed at supporting the adoption of Sprinkler Irrigation Systems. By providing financial assistance to farmers or individuals in need, the barriers to entry associated with installation expenses could potentially be overcome. This would not only promote the use of Sprinkler Irrigation Systems but also contribute to the overall growth and sustainability of agricultural practices.

Furthermore, technological advancements in the field of irrigation systems could also play a crucial role in mitigating the high costs of installation. Research and development efforts should focus on creating more affordable and user-friendly solutions that maintain the efficiency and effectiveness of Sprinkler Irrigation Systems. By reducing the overall investment required and simplifying the installation process, the accessibility of these systems could be significantly improved. While high installation costs pose a significant challenge to the widespread adoption of Sprinkler Irrigation Systems, exploring alternative financial support mechanisms and investing in technological advancements can help overcome these barriers. By addressing the affordability and ease of installation, the global demand for these systems can be revitalized, fostering sustainable agricultural practices and driving market growth.

High Capital Investment in Advanced Agricultural Equipment

High capital investment in advanced agricultural equipment is anticipated to curtail the global demand for sprinkler irrigation systems. This is due to the advent of innovative technologies that offer more efficient and sustainable alternatives for crop irrigation. High-end devices such as precision agriculture equipment and drip irrigation systems provide targeted water delivery, reducing water wastage and enhancing crop yield significantly. These advantages make them an attractive option for farmers, who are increasingly willing to make higher initial investments for long-term gains. Furthermore, government subsidies and incentives for the adoption of advanced agricultural practices

are encouraging this shift away from traditional irrigation systems. This does not negate the importance of sprinkler systems entirely; they still have a place, particularly in certain geographical and crop-specific contexts. However, the overall trend points towards a decreasing global demand as the agricultural sector moves towards more technologically advanced and sustainable practices.

Key Market Trends

Shift From Traditional Irrigation Methods to Automated Systems

The global shift from traditional irrigation methods to automated systems is projected to significantly increase the demand for sprinkler irrigation systems. This transition is largely driven by the need for more efficient water usage in agriculture, particularly in regions where water resources are scarce. Traditional irrigation techniques such as flood or furrow irrigation often result in water wastage due to over-irrigation and runoff. In contrast, modern sprinkler systems deliver water directly to the root zone of plants, reducing water wastage and increasing the efficiency of water use. Also, these systems are automated, reducing labor costs and increasing the scalability of farming operations. Furthermore, technological advancements in sprinkler systems, such as the incorporation of smart sensors for precise irrigation based on soil moisture levels, are making this method even more appealing. These factors combined are expected to drive a significant upswing in the global adoption of sprinkler irrigation systems, signaling a major shift in agricultural practices.

Growing Investment in Agricultural Infrastructure Development

The global demand for Sprinkler Irrigation Systems is projected to surge significantly, largely fueled by the growing focus on agricultural infrastructure development. Governments and private entities worldwide are investing heavily in the modernization of agricultural practices to optimize yields, improve water efficiency, and address the escalating food demand due to the burgeoning global population. The Sprinkler Irrigation System, being a cornerstone of such modern farming methodologies, is thus poised for exponential demand. This system allows precise control over water application, promoting conservation, reducing wastage, and ensuring optimal water usage. Furthermore, climate change and diminishing water resources increase the need for efficient irrigation systems, placing Sprinkler Irrigation Systems at the forefront of sustainable farming. Enhanced rural infrastructure, accessibility to affordable financing, and supportive government policies are also facilitating the adoption of these systems. Therefore, the combined effect of investment in agricultural infrastructure development

and the inherent benefits of Sprinkler Irrigation Systems will likely stimulate their global demand.

Segmental Insights

Type Insights

Based on the Type, the Central Pivot system has emerged as the leading irrigation method in farming fields. Its dominance can be attributed to its cost-effectiveness and remarkable efficiency in irrigating large areas. By utilizing a rotating pivot point, this system ensures optimal water distribution, minimizing waste and maximizing crop yield. Moreover, its success can be attributed to its ability to adapt to various soil types and topographical conditions, making it a versatile choice for farmers worldwide. However, it is worth noting that the market dynamics in the agricultural sector are subject to change, driven by technological advancements and evolving needs. As new innovations emerge, such as precision agriculture and remote sensing technologies, farmers are increasingly seeking more sustainable and precise irrigation solutions. These advancements offer the potential to further optimize water usage, reduce environmental impact, and enhance overall crop productivity.

In addition, the growing focus on water conservation and resource management is prompting farmers to explore alternative irrigation methods that minimize water consumption and maximize water efficiency. This includes the adoption of smart irrigation systems, which leverage data analytics and real-time monitoring to deliver the right amount of water at the right time and in the right place. Such systems not only enhance water savings but also help to mitigate the risks of overwatering or underwatering, leading to healthier and more resilient crops.

Application Insights

Based on the Application, the global sprinkler irrigation system market is currently dominated by the agricultural sector. The utilization of sprinkler irrigation systems in agriculture has seen a significant increase in recent years. This is primarily attributed to the remarkable efficiency of water usage and the ability to irrigate even the most uneven terrains, thus ensuring a higher yield of crops. These factors have not only contributed to the agricultural sector claiming a larger share of the market but have also propelled its growth ahead of the non-agricultural sector. The adoption of sprinkler irrigation systems has revolutionized the way farmers approach irrigation, leading to improved crop quality, reduced water wastage, and increased overall productivity in the

agricultural industry.

Regional Insights

The North American region currently dominates the Global Sprinkler Irrigation System Market. This can be attributed to several key factors. Firstly, the region has been at the forefront of implementing advanced farming techniques, such as precision farming, which has greatly enhanced efficiency and resulted in higher crop yields. Moreover, North America benefits from the presence of major industry players who have made substantial investments in the development and promotion of sprinkler irrigation systems. This has not only bolstered the region's market share but has also fostered innovation and technological advancements in the field. Furthermore, the proactive approach of North American farmers towards embracing sustainable agricultural practices has further solidified the region's leadership in the adoption and utilization of sprinkler irrigation systems. With its well-established infrastructure, supportive policies, and continuous efforts towards optimizing irrigation methods, North America serves as a benchmark for other regions to follow in their quest for achieving sustainable and efficient agricultural practices.

Key Market Players

Valmont Industries

Lindsay Corporation

Jain Irrigation Systems Ltd.

The Toro Company

Rivulis Irrigation Ltd.

Netafim Limited

Rain Bird Corporation

Reinke Manufacturing Co. Inc.

Nelson Irrigation Corporation

Mahindra EPC Ltd.

Report Scope:

In this report, the Global Sprinkler Irrigation System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Sprinkler Irrigation System Market, By Type:

Central Pivot

Lateral Move

Solid Set

Others

Sprinkler Irrigation System Market, By Field Size:

Small

Medium

Large

Sprinkler Irrigation System Market, By Mobility:

Stationary

Towable

Sprinkler Irrigation System Market, By Spray Pattern:

Rotating Head

Perforated Pipe

Sprinkler Irrigation System Market, By Application:

Agricultural

Non-Agricultural

Sprinkler Irrigation System Market, By Crop Type:

Cereals & Grains

Pulses & Oilseeds

Fruits & Vegetables

Olericulture

Cotton

Others

Sprinkler Irrigation System Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Sprinkler Irrigation System Market.

Available Customizations:

Global Sprinkler Irrigation System market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

- 1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validations
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends
- 3.6. Voice of Customer

4. GLOBAL SPRINKLER IRRIGATION SYSTEM MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Type (Central Pivot, Lateral Move, Solid Set, Others)
 - 4.2.2. By Field Size (Small, Medium, Large)
 - 4.2.3. By Mobility (Stationary and Towable)
 - 4.2.4. By Spray Pattern (Rotating Head and Perforated Pipe)
 - 4.2.5. By Application (Agricultural and Non-Agricultural)
 - 4.2.6. By Crop Type (Cereals & Grains, Pulses & Oilseeds, Fruits & Vegetables,

Olericulture, Cotton & Others)

4.2.7. By Region

4.2.8. By Company (2023)

4.3. Market Map

5. NORTH AMERICA SPRINKLER IRRIGATION SYSTEM MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Type

5.2.2. By Field Size

5.2.3. By Mobility

5.2.4. By Spray Pattern

5.2.5. By Application

5.2.6. By Crop Type

5.2.7. By Country

5.3. North America: Country Analysis

5.3.1. United States Sprinkler Irrigation System Market Outlook

5.3.1.1. Market Size & Forecast

5.3.1.1.1. By Value

5.3.1.2. Market Share & Forecast

5.3.1.2.1. By Type

5.3.1.2.2. By Field Size

5.3.1.2.3. By Mobility

5.3.1.2.4. By Spray Pattern

5.3.1.2.5. By Application

5.3.1.2.6. By Crop Type

5.3.2. Canada Sprinkler Irrigation System Market Outlook

5.3.2.1. Market Size & Forecast

5.3.2.1.1. By Value

5.3.2.2. Market Share & Forecast

5.3.2.2.1. By Type

5.3.2.2.2. By Field Size

5.3.2.2.3. By Mobility

5.3.2.2.4. By Spray Pattern

5.3.2.2.5. By Application

5.3.2.2.6. By Crop Type

5.3.3. Mexico Sprinkler Irrigation System Market Outlook

5.3.3.1. Market Size & Forecast

5.3.3.1.1. By Value

5.3.3.2. Market Share & Forecast

5.3.3.2.1. By Type

5.3.3.2.2. By Field Size

5.3.3.2.3. By Mobility

5.3.3.2.4. By Spray Pattern

5.3.3.2.5. By Application

5.3.3.2.6. By Crop Type

6. EUROPE SPRINKLER IRRIGATION SYSTEM MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Field Size

6.2.3. By Mobility

6.2.4. By Spray Pattern

6.2.5. By Application

6.2.6. By Crop Type

6.2.7. By Country

6.3. Europe: Country Analysis

6.3.1. Germany Sprinkler Irrigation System Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Field Size

6.3.1.2.3. By Mobility

6.3.1.2.4. By Spray Pattern

6.3.1.2.5. By Application

6.3.1.2.6. By Crop Type

6.3.2. United Kingdom Sprinkler Irrigation System Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Field Size

- 6.3.2.2.3. By Mobility
- 6.3.2.2.4. By Spray Pattern
- 6.3.2.2.5. By Application
- 6.3.2.2.6. By Crop Type
- 6.3.3. Italy Sprinkler Irrigation System Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Field Size
 - 6.3.3.2.3. By Mobility
 - 6.3.3.2.4. By Spray Pattern
 - 6.3.3.2.5. By Application
 - 6.3.3.2.6. By Crop Type
- 6.3.4. France Sprinkler Irrigation System Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Type
 - 6.3.4.2.2. By Field Size
 - 6.3.4.2.3. By Mobility
 - 6.3.4.2.4. By Spray Pattern
 - 6.3.4.2.5. By Application
 - 6.3.4.2.6. By Crop Type
- 6.3.5. Spain Sprinkler Irrigation System Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Type
 - 6.3.5.2.2. By Field Size
 - 6.3.5.2.3. By Mobility
 - 6.3.5.2.4. By Spray Pattern
 - 6.3.5.2.5. By Application
 - 6.3.5.2.6. By Crop Type

7. ASIA-PACIFIC SPRINKLER IRRIGATION SYSTEM MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Field Size

7.2.3. By Mobility

7.2.4. By Spray Pattern

7.2.5. By Application

7.2.6. By Crop Type

7.2.7. By Country

7.3. Asia-Pacific: Country Analysis

7.3.1. China Sprinkler Irrigation System Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Field Size

7.3.1.2.3. By Mobility

7.3.1.2.4. By Spray Pattern

7.3.1.2.5. By Application

7.3.1.2.6. By Crop Type

7.3.2. India Sprinkler Irrigation System Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Field Size

7.3.2.2.3. By Mobility

7.3.2.2.4. By Spray Pattern

7.3.2.2.5. By Application

7.3.2.2.6. By Crop Type

7.3.3. Japan Sprinkler Irrigation System Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Field Size

7.3.3.2.3. By Mobility

7.3.3.2.4. By Spray Pattern

7.3.3.2.5. By Application

7.3.3.2.6. By Crop Type

7.3.4. South Korea Sprinkler Irrigation System Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Type

7.3.4.2.2. By Field Size

7.3.4.2.3. By Mobility

7.3.4.2.4. By Spray Pattern

7.3.4.2.5. By Application

7.3.4.2.6. By Crop Type

7.3.5. Australia Sprinkler Irrigation System Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Type

7.3.5.2.2. By Field Size

7.3.5.2.3. By Mobility

7.3.5.2.4. By Spray Pattern

7.3.5.2.5. By Application

7.3.5.2.6. By Crop Type

8. SOUTH AMERICA SPRINKLER IRRIGATION SYSTEM MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type

8.2.2. By Field Size

8.2.3. By Mobility

8.2.4. By Spray Pattern

8.2.5. By Application

8.2.6. By Crop Type

8.2.7. By Country

8.3. South America: Country Analysis

8.3.1. Brazil Sprinkler Irrigation System Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

- 8.3.1.2.2. By Field Size
- 8.3.1.2.3. By Mobility
- 8.3.1.2.4. By Spray Pattern
- 8.3.1.2.5. By Application
- 8.3.1.2.6. By Crop Type
- 8.3.2. Argentina Sprinkler Irrigation System Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Field Size
 - 8.3.2.2.3. By Mobility
 - 8.3.2.2.4. By Spray Pattern
 - 8.3.2.2.5. By Application
 - 8.3.2.2.6. By Crop Type
- 8.3.3. Colombia Sprinkler Irrigation System Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Field Size
 - 8.3.3.2.3. By Mobility
 - 8.3.3.2.4. By Spray Pattern
 - 8.3.3.2.5. By Application
 - 8.3.3.2.6. By Crop Type

9. MIDDLE EAST AND AFRICA SPRINKLER IRRIGATION SYSTEM MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Field Size
 - 9.2.3. By Mobility
 - 9.2.4. By Spray Pattern
 - 9.2.5. By Application
 - 9.2.6. By Crop Type
 - 9.2.7. By Country

9.3. MEA: Country Analysis

9.3.1. South Africa Sprinkler Irrigation System Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Field Size

9.3.1.2.3. By Mobility

9.3.1.2.4. By Spray Pattern

9.3.1.2.5. By Application

9.3.1.2.6. By Crop Type

9.3.2. Saudi Arabia Sprinkler Irrigation System Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Field Size

9.3.2.2.3. By Mobility

9.3.2.2.4. By Spray Pattern

9.3.2.2.5. By Application

9.3.2.2.6. By Crop Type

9.3.3. UAE Sprinkler Irrigation System Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Field Size

9.3.3.2.3. By Mobility

9.3.3.2.4. By Spray Pattern

9.3.3.2.5. By Application

9.3.3.2.6. By Crop Type

10. MARKET DYNAMICS

10.1. Drivers

10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

- 11.1. Recent Development
- 11.2. Mergers & Acquisitions
- 11.3. Product Launches

12. GLOBAL SPRINKLER IRRIGATION SYSTEM MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Products

14. COMPETITIVE LANDSCAPE

- 14.1. Valmont Industries
 - 14.1.1. Business Overview
 - 14.1.2. Product Offerings
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel
 - 14.1.5. SWOT Analysis
- 14.2. Lindsay Corporation
- 14.3. Jain Irrigation Systems Ltd.
- 14.4. The Toro Company
- 14.5. Rivulis Irrigation Ltd.
- 14.6. Netafim Limited
- 14.7. Rain Bird Corporation
- 14.8. Reinke Manufacturing Co. Inc.
- 14.9. Nelson Irrigation Corporation
- 14.10. Mahindra EPC Ltd.

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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