

North America Hydraulic Submersible Pumps Market By Type (Electric Submersible Pumps, Engine Driven Submersible Pumps, Solar Powered Submersible Pumps), By Application (Construction, Mining, Wastewater Management, Agriculture), By End-User (Residential, Commercial, Industrial), By Country, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

Market Overview

The North America Hydraulic Submersible Pumps Market was valued at USD 2.12 billion in 2024 and is projected to reach USD 3.21 billion by 2030, growing at a CAGR of 7.16% during the forecast period. This market encompasses the development and application of hydraulic-powered submersible pumps, widely used in sectors such as construction, mining, oil & gas, municipal utilities, and emergency flood control. These pumps, unlike electric variants, are powered by hydraulic power packs, making them ideal for hazardous, submerged, or remote locations. Their ability to efficiently handle high-viscosity fluids, slurries, and solids enhances their suitability for tough environments. Increasing instances of flooding and extreme weather events have spurred demand from emergency response agencies, while large-scale construction and energy projects in regions like Texas and Alberta are further driving growth. Additionally, advancements in hydraulic system design, lightweight materials, and remote monitoring technologies are making these pumps more versatile and cost-effective. As infrastructure investments and climate adaptation efforts expand, demand for durable and flexible fluid management solutions continues to rise across North America.

Key Market Drivers

Expanding Infrastructure Development and Urban Construction Demands

The rapid pace of infrastructure development across North America is significantly increasing the demand for hydraulic submersible pumps, particularly for dewatering in construction environments. Civil engineering projects such as tunnels, highways, and subways often require reliable fluid handling in excavated, waterlogged areas. Hydraulic submersible pumps are preferred over electric pumps in such settings due to their ability to operate effectively in debris-heavy, submerged conditions. Urban centers like Houston, Toronto, and Los Angeles are undergoing continuous expansion, making high-capacity, durable dewatering systems crucial for project timelines and regulatory compliance. Modular, portable hydraulic pumps enhance operational flexibility and reduce delays, supporting efficient groundwater and stormwater removal. These systems have become essential components on modern construction sites, further propelled by government infrastructure bills and housing programs in the U.S. and Canada. In 2024 alone, over 610 million square feet of new construction was initiated, with over 35% utilizing hydraulic submersible pumps for site water management.

Key Market Challenges

High Operating Costs and Maintenance Complexities

A major constraint in the adoption of hydraulic submersible pumps is the high cost associated with their operation and upkeep. These systems require hydraulic power packs, hoses, and controllers, adding to upfront capital investment. Compared to electric alternatives, hydraulic pumps are mechanically more complex and exposed to higher wear, especially in abrasive or corrosive environments. Maintenance demands are also higher due to the need for specialized parts and trained technicians. Issues such as seal wear, hose damage, and pressure inconsistencies are common, particularly in rugged or emergency deployments. Limited service availability in remote regions further exacerbates downtime. Smaller municipalities and construction contractors often face budget constraints, deterring them from adopting or maintaining these systems. The specialized nature of hydraulic maintenance adds to operational challenges, making these pumps less viable for permanent or large-scale use without sufficient technical and financial resources.

Key Market Trends

Increased Deployment in Emergency Flood Response and Disaster Relief

A significant trend in the North American hydraulic submersible pumps market is their growing utilization in emergency flood and disaster response scenarios. With climate change driving more frequent and severe weather events, public agencies and contractors are increasingly relying on hydraulic pumps for high-volume dewatering in emergencies. These pumps excel in off-grid and contaminated conditions, delivering fast and efficient floodwater removal. Their mobility, durability, and independence from electrical grids make them ideal for rapid deployment. Government investment in disaster preparedness has driven procurement of high-capacity, mobile pump units. Additionally, product innovations focused on rapid assembly, fuel efficiency, and long-run performance are gaining traction. As municipalities expand emergency toolkits to address climate-related risks, hydraulic submersible pumps are becoming vital assets for ensuring infrastructure resilience and public safety during environmental emergencies.

Key Market Players

Xylem Inc.

Grindex AB

Atlas Copco AB

Sulzer Ltd.

Weir Group PLC

Tsurumi Manufacturing Co., Ltd.

Thompson Pump & Manufacturing Co., Inc.

Gorman-Rupp Company

Report Scope:

In this report, the North America Hydraulic Submersible Pumps Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

North America Hydraulic Submersible Pumps Market, By Type:

Electric Submersible Pumps

Engine Driven Submersible Pumps

Solar Powered Submersible Pumps

North America Hydraulic Submersible Pumps Market, By Application:

Construction

Mining

Wastewater Management

Agriculture

North America Hydraulic Submersible Pumps Market, By End-User:

Residential

Commercial

Industrial

North America Hydraulic Submersible Pumps Market, By Country:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Hydraulic Submersible Pumps Market.

Available Customizations:

North America Hydraulic Submersible Pumps 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
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

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, and Trends

4. VOICE OF CUSTOMER

5. NORTH AMERICA HYDRAULIC SUBMERSIBLE PUMPS MARKET OUTLOOK

- 5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Type (Electric Submersible Pumps, Engine Driven Submersible Pumps, Solar Powered Submersible Pumps)

5.2.2. By Application (Construction, Mining, Wastewater Management, Agriculture)

5.2.3. By End-User (Residential, Commercial, Industrial)

5.2.4. By Country (United States, Canada, Mexico)

5.2.5. By Company (2024)

5.3. Market Map

6. UNITED STATES HYDRAULIC SUBMERSIBLE PUMPS 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 Application

6.2.3. By End-User

7. CANADA HYDRAULIC SUBMERSIBLE PUMPS 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 Application

7.2.3. By End-User

8. MEXICO HYDRAULIC SUBMERSIBLE PUMPS 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 Application

8.2.3. By End-User

9. MARKET DYNAMICS

9.1. Drivers

9.2. Challenges

10. MARKET TRENDS & DEVELOPMENTS

10.1. Merger & Acquisition (If Any)

10.2. Product Launches (If Any)

10.3. Recent Developments

11. COMPANY PROFILES

11.1. Xylem Inc.

11.1.1. Business Overview

11.1.2. Key Revenue and Financials

11.1.3. Recent Developments

11.1.4. Key Personnel/Key Contact Person

11.1.5. Key Product/Services Offered

11.2. Grindex AB

11.3. Atlas Copco AB

11.4. Sulzer Ltd.

11.5. Weir Group PLC

11.6. Tsurumi Manufacturing Co., Ltd.

11.7. Thompson Pump & Manufacturing Co., Inc.

11.8. Gorman-Rupp Company

12. STRATEGIC RECOMMENDATIONS

13. ABOUT US & DISCLAIMER

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