

Global Desalination High-Pressure Booster Pump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Desalination High-Pressure Booster Pump market size is expected to reach \$ 1363 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global Desalination High-Pressure Booster Pump production reached approximately 8,000 units, with an average global market price of around USD 110,000 per unit.

The gross profit margin of major companies in the industry was approximately 24%–40%.

In 2025, global production capacity was approximately 10,500 units.

A Desalination High-Pressure Booster Pump raises seawater pressure to the level required by reverse-osmosis membranes or increases pressure between desalination process stages. It uses corrosion-resistant materials and high-efficiency hydraulic designs for continuous saline-water operation. Products include centrifugal and positive-displacement configurations. The scope excludes low-pressure intake pumps, freshwater pumps, energy-recovery devices, chemical-dosing pumps, complete reverse-osmosis skids, and complete desalination plants.

The industrial chain includes upstream duplex stainless steel, super-austenitic alloys, impellers, shafts, bearings, seals, motors, variable-frequency drives, and sensors. Midstream covers hydraulic design, casting or forging, precision machining, pump assembly, balancing, coating, pressure testing, and efficiency verification. Downstream applications include municipal desalination, industrial water treatment, offshore facilities,

power plants, islands, and water-reuse projects.

Report Scope

This report studies the global Desalination High-Pressure Booster Pump production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Desalination High-Pressure Booster Pump and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Desalination High-Pressure Booster Pump that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Desalination High-Pressure Booster Pump total production and demand, 2021-2032, (Units)

Global Desalination High-Pressure Booster Pump total production value, 2021-2032, (USD Million)

Global Desalination High-Pressure Booster Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Desalination High-Pressure Booster Pump consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Desalination High-Pressure Booster Pump domestic production, consumption, key domestic manufacturers and share

Global Desalination High-Pressure Booster Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Desalination High-Pressure Booster Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Desalination High-Pressure Booster Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Desalination High-Pressure Booster Pump market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Flowserve Corporation, Sulzer Ltd., KSB SE & Co. KGaA, Torishima Pump Mfg. Co., Ltd., Fluid Equipment Development Company, LLC, Energy Recovery, Inc., Grundfos Holding A/S, Danfoss A/S, Shanghai Kaiquan Pump Group Co., Ltd., Nanfang Pump Industry Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Desalination High-Pressure Booster Pump market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Desalination High-Pressure Booster Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Desalination High-Pressure Booster Pump Market, Segmentation by Type:

Multistage Centrifugal Pumps

Positive Displacement Pumps

Axial Piston Pumps

Global Desalination High-Pressure Booster Pump Market, Segmentation by Drive Configuration:

Direct Motor-driven Pumps

Variable-frequency Drive Pumps

Energy Recovery Device-integrated Pumps

Global Desalination High-Pressure Booster Pump Market, Segmentation by Rated Discharge Pressure:

Low-pressure(≤ 4 MPa)

Medium-pressure(> 4 – 7 MPa)

High-pressure(>7 MPa)

Global Desalination High-Pressure Booster Pump Market, Segmentation by Application:

Seawater Reverse Osmosis Plants

Brackish Water Desalination Plants

Offshore and Marine Desalination Systems

Other

Companies Profiled:

Flowserve Corporation

Sulzer Ltd.

KSB SE & Co. KGaA

Torishima Pump Mfg. Co., Ltd.

Fluid Equipment Development Company, LLC

Energy Recovery, Inc.

Grundfos Holding A/S

Danfoss A/S

Shanghai Kaiquan Pump Group Co., Ltd.

Nanfang Pump Industry Co., Ltd.

Liancheng Group Co., Ltd.

Key Questions Answered:

1. How big is the global Desalination High-Pressure Booster Pump market?
2. What is the demand of the global Desalination High-Pressure Booster Pump market?
3. What is the year over year growth of the global Desalination High-Pressure Booster Pump market?
4. What is the production and production value of the global Desalination High-Pressure Booster Pump market?
5. Who are the key producers in the global Desalination High-Pressure Booster Pump market?
6. What are the growth factors driving the market demand?

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