

Global Hydrodynamic Cavitation Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrodynamic Cavitation Equipment market size is expected to reach \$ 454 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

Hydrodynamic cavitation equipment refers to industrial fluid-processing reactors, inline modules and treatment systems that deliberately generate cavitation by forcing liquids through controlled flow geometries such as venturi tubes, orifice plates, nozzles, vortex chambers, vortex diodes, rotor-stator assemblies, rotating discs or multi-chamber flow paths. When the local pressure of the liquid drops below the vapor pressure and then recovers, cavitation bubbles form, grow and collapse, creating localized high temperature, high pressure, shock waves, micro-jets, intense shear and reactive radical effects. These effects are used for mixing, emulsification, dispersion, homogenization, extraction, mass-transfer enhancement, process intensification, advanced oxidation, wastewater treatment, sludge disintegration, biomass pretreatment, edible oil refining, fuel emulsification, food and beverage processing and nanobubble generation. Key specifications include flow rate, pressure drop, cavitation number, rotational speed, reactor geometry, single-pass treatment performance, recirculation ratio, energy consumption, wear resistance, corrosion resistance, temperature control, scalability, automation and compatibility with ozone, hydrogen peroxide, air, oxygen, catalysts or downstream process units. In this report, the scope is focused on industrial hydrodynamic cavitation reactors, modules and systems rather than acoustic cavitation devices, beauty equipment or uncontrolled cavitation phenomena in pumps.

In 2025, the global production of hydrodynamic cavitation equipment was 5,450 units, with an average price of US\$43,700 per unit and an average gross profit margin of 38.5%.

Based on our research, hydrodynamic cavitation equipment is a process-intensification equipment category built on a mature physical phenomenon but still developing commercially across industrial applications. The core value of the industry is to convert cavitation from an uncontrolled and often destructive phenomenon in pumps, propellers and hydraulic machinery into a controlled source of mixing, shear, mass transfer, oxidation and reaction enhancement. Compared with acoustic cavitation, hydrodynamic cavitation is generally more suitable for continuous processing, large flow rates and industrial scale-up. Compared with conventional mixers, homogenizers and oxidation systems, it can create stronger local micro-mixing, interface renewal, bubble collapse effects and radical formation within short residence times. Therefore, the appropriate reporting scope is narrower than the overall cavitation market and broader than a single water-treatment device category. It should focus on industrial hydrodynamic cavitation reactors, inline modules and systems.

From the supply side, the market remains fragmented and technology-driven. The leading suppliers are not necessarily large general equipment groups, but specialized companies with proprietary reactor structures, application know-how and process data. Hydro Dynamics, Cavitation Technologies, SPX FLOW, Arisdyne, E-PIC, THREE-ES/SOLDO, CT Systems, RAPTECH, Global Cavitation and VIVIRA represent different technical routes such as controlled rotating cavitation, controlled flow cavitation, rotor-stator cavitation, vortex-based cavitation, multi-chamber cavitation and integrated water-treatment systems. Some companies focus on food, beverage, edible oils, fuels and chemical process intensification, while others target wastewater, cooling water, PFAS or hard-to-treat contaminants, sludge disintegration, biomass pretreatment and biogas improvement. The broad search universe is much larger than the core formal list because many companies market ultrasonic equipment, pumps, nanobubble systems or water-treatment packages without clear evidence that hydrodynamic cavitation is the core technology.

Demand growth is currently driven by four main application clusters. The first is industrial water and difficult wastewater treatment, where cavitation can be combined with ozone, hydrogen peroxide, catalysts or flotation to improve mass transfer and oxidation performance. The second is sludge, biomass and anaerobic digestion pretreatment, where cavitation can disrupt cell structures, reduce viscosity and improve downstream conversion. The third is food, beverage, edible oil, fuel and chemical processing, where hydrodynamic cavitation supports emulsification, extraction, dispersion, hydration and reaction intensification in continuous systems. The fourth is cooling water, circulating water and gas-liquid transfer, where controlled cavitation or

multi-chamber devices can support scale control, disinfection, gas infusion or nanobubble formation. The market is growing faster than many mature mechanical equipment categories, but it remains smaller and more application-specific than conventional water-treatment or mixing-equipment markets.

From a technology perspective, the industry is moving from standalone cavitator sales toward integrated packages combining reactor design, application recipes, process control and site validation. Simple venturi, orifice and nozzle devices have cost advantages but are sensitive to flow rate, pressure drop, viscosity and recirculation design. Rotor-stator and rotating-disc devices are more attractive for high-shear emulsification, extraction and biomass treatment, but require careful control of energy consumption, sealing, wear and maintenance. Vortex-diode, multi-chamber and hybrid systems emphasize scalability, lower clogging risk and coupling with water-treatment or gas-transfer processes. Future competition will depend on reactor geometry, validated industrial case data, energy consumption per treated volume, durability, cleanability, automation and integration with upstream and downstream process units. Overall, hydrodynamic cavitation equipment is a growth-stage industrial technology market with meaningful upside, but commercialization will remain uneven across applications.

This report studies the global Hydrodynamic Cavitation Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrodynamic Cavitation Equipment 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 Hydrodynamic Cavitation Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrodynamic Cavitation Equipment total production and demand, 2021-2032, (Units)

Global Hydrodynamic Cavitation Equipment total production value, 2021-2032, (USD Million)

Global Hydrodynamic Cavitation Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hydrodynamic Cavitation Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrodynamic Cavitation Equipment domestic production, consumption, key domestic manufacturers and share

Global Hydrodynamic Cavitation Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hydrodynamic Cavitation Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hydrodynamic Cavitation Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hydrodynamic Cavitation Equipment 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 Hydro Dynamics, Inc., Cavitation Technologies, Inc., SPX FLOW, Inc., Arisdyn Systems, Inc., Dynaflo, Inc., Vortex Water Solutions, E-PIC S.r.l., THREE-ES S.r.l., CT Systems, RAPTECH Technologie GmbH, 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 Hydrodynamic Cavitation Equipment 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 Hydrodynamic Cavitation Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrodynamic Cavitation Equipment Market, Segmentation by Type:

Venturi Cavitation Reactor

Orifice Plate Cavitation Reactor

Nozzle Cavitation Reactor

Rotor-stator Cavitation Reactor

Rotating Disc Cavitation Reactor

Vortex-based Cavitation Reactor

Multi-chamber Cavitation Device

Hybrid Cavitation System

Global Hydrodynamic Cavitation Equipment Market, Segmentation by Capacity Class:

Below 1 m³/h

1–10 m³/h

10–50 m³/h

50–200 m³/h

Above 200 m³/h

Global Hydrodynamic Cavitation Equipment Market, Segmentation by Coupled Process:

Cavitation-only Process

Cavitation with Ozone

Cavitation with Hydrogen Peroxide

Cavitation with Catalysts

Cavitation with Air or Oxygen

Cavitation with Filtration

Cavitation with Flotation

Other Coupled Processes

Global Hydrodynamic Cavitation Equipment Market, Segmentation by Application:

Industrial Wastewater Treatment

Municipal Sludge Treatment

Food and Beverage Processing

Renewable Fuels and Biodiesel

Chemicals

Mining

Others

Companies Profiled:

Hydro Dynamics, Inc.

Cavitation Technologies, Inc.

SPX FLOW, Inc.

Arisdyne Systems, Inc.

Dynaflow, Inc.

Vortex Water Solutions

E-PIC S.r.l.

THREE-ES S.r.l.

CT Systems

RAPTECH Technologie GmbH

GlobeCore GmbH

Global Cavitation Pty Ltd

BioBANG by Soldo Cavitators

VIVIRA Process Technologies Pvt. Ltd.

Prasinos Tech Innovations Private Limited

Adichem Technology

Kumar Metal Industries Pvt. Ltd.

Hangzhou Keli Chemical Equipment Co., Ltd.

Shenzhen Sinokle Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Hydrodynamic Cavitation Equipment market?
2. What is the demand of the global Hydrodynamic Cavitation Equipment market?
3. What is the year over year growth of the global Hydrodynamic Cavitation Equipment market?
4. What is the production and production value of the global Hydrodynamic Cavitation Equipment market?
5. Who are the key producers in the global Hydrodynamic Cavitation Equipment market?
6. What are the growth factors driving the market demand?

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