

Global Needle Hydrophones Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Needle Hydrophones market size is expected to reach \$ 125 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

A Needle Hydrophone is a miniature, high-sensitivity acoustic sensor that converts underwater sound pressure signals received by a PVDF (polyvinylidene fluoride) piezoelectric film covering the needle tip into measurable electrical signals. It is primarily used for precise measurement of underwater sound fields and sound pressure, and its small size minimizes interference with the sound field. The needle-type hydrophone consists of a PVDF needle probe, preamplifier, DC coupler, and auxiliary amplifier. The diameter of its core component is typically controlled between 0.1 mm and 1 mm. In 2025, global sales are projected to be approximately 49,880 units, with an average market price of approximately US\$1,250 per unit. The industry's gross profit margin is expected to be in the range of 25%-45%.

The needle hydrophone industry is maintaining steady growth driven by the increasing popularity of ultrasound diagnostic technology and the rising demand for precision medicine. This growth stems from the strong demand for high-precision acoustic measurements in downstream applications. Furthermore, the deepening of global marine resource development and heightened awareness of national defense and security are also creating continuous market growth for needle hydrophones in non-medical fields such as marine exploration and underwater communication.

This report studies the global Needle Hydrophones production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Needle Hydrophones total production and demand, 2021-2032, (K Units)

Global Needle Hydrophones total production value, 2021-2032, (USD Million)

Global Needle Hydrophones production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Needle Hydrophones consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Needle Hydrophones domestic production, consumption, key domestic manufacturers and share

Global Needle Hydrophones production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Needle Hydrophones production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Needle Hydrophones production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Needle Hydrophones 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 Precision Acoustics, Onda Corporation, Toray Engineering, M?ller Instruments, Azeriri, Hangzhou Maihuang Technology, 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 Needle Hydrophones market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Needle Hydrophones Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Needle Hydrophones Market, Segmentation by Type:

0.2mm

0.5mm

1.0mm

Others

Global Needle Hydrophones Market, Segmentation by Technology:

Piezoelectric Type

Optical Fiber Type

Global Needle Hydrophones Market, Segmentation by Frequency:

Low-Frequency Broadband Type

Ultra-High Frequency Type

Global Needle Hydrophones Market, Segmentation by Application:

Medical

Military

Industrial

Others

Companies Profiled:

Precision Acoustics

Onda Corporation

Toray Engineering

M?ller Instruments

Azeriri

Hangzhou Maihuang Technology

Key Questions Answered:

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

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