

Global Hollow Microneedle Technology Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GC2A5C2ED5CCEN.html>

Date: August 2026

Pages: 87

Price: US\$ 3,660.00 (Single User License)

ID: GC2A5C2ED5CCEN

Abstracts

The global Hollow Microneedle Technology market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Hollow microneedles are similar to micron-sized injection needles and have the dual characteristics of injection and transdermal drug delivery. This method of drug delivery usually uses external pressure to make the drug solution pass through the holes of the hollow microneedle, thereby reaching the designated location in the skin, and ultimately achieves the purpose of drug delivery. One advantage of this method is that when using an external liquid driving device, the drug administration rate can be controlled and quantitative and precise drug delivery can be achieved. As a new type of transdermal drug delivery technology, hollow microneedles have shown great potential in the delivery of biomacromolecule drugs such as vaccines and insulin in recent years. However, the processing of hollow microneedles is relatively difficult, and the through holes in the needle body seriously affect the strength of the needle body, which is one of the key issues restricting its development. However, in recent years, with the emergence of micro-processing technology and the further development and promotion of hollow microneedle drug delivery technology, it is believed that hollow microneedles can become a commonly used drug delivery system in clinical practice and play a wider role in the prevention and treatment of diseases.

United States market for Hollow Microneedle Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Hollow Microneedle Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Hollow Microneedle Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Hollow Microneedle Technology players cover 3M, ALZA (J&J), Becton, CD Formulation, SPTS Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Hollow Microneedle Technology Industry Forecast' looks at past sales and reviews total world Hollow Microneedle Technology sales in 2025, providing a comprehensive analysis by region and market sector of projected Hollow Microneedle Technology sales for 2026 through 2032. With Hollow Microneedle Technology sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hollow Microneedle Technology industry.

This Insight Report provides a comprehensive analysis of the global Hollow Microneedle Technology landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Hollow Microneedle Technology portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hollow Microneedle Technology market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hollow Microneedle Technology and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hollow Microneedle Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Hollow Microneedle Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Micro Molding

Hot Press Forming

Segmentation by Application:

Extraction of Blood and Tissues

Anaesthetization

Preparing a Vaccine

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

3M

ALZA (J&J)

Becton

CD Formulation

SPTS Technologies

Ascilion

Shanghai Lanwei Medical Technology Co., Ltd.

Guangzhou Nali Biotechnology Co., Ltd.

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