

Global Micro Injection Molding Market 2023

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Abstracts

Description

Micro-molding is a specialized manufacturing and production process renowned for its ability to achieve exceptional precision in the production of small components and parts with micron tolerances. The process commences with the creation of a mold that features a cavity mirroring the shape of the desired part. Subsequently, various types of molds, including resin or thermoplastics, are injected at high speed into the cavity to meticulously craft the component or part.

Micro injection molding finds widespread application across diverse industries, including medical devices, healthcare equipment, implants, surgical instruments, automotive components, electronic parts, small machine parts, and others. The versatility and precision of micro injection molding make it an indispensable manufacturing technique for producing intricate and minuscule components vital to various sectors.

According to the latest market study results, the global micro injection molding market is poised for substantial growth, with a projected increase of USD 0.7 billion by 2029. This growth is anticipated to be driven by a robust compound annual growth rate (CAGR) of 8.4 percent during the forecast period. The increasing demand for micro-molded components across a spectrum of industries, coupled with advancements in manufacturing technologies, is expected to fuel the expansion of the micro injection molding market.

The medical and healthcare sectors are anticipated to be key drivers of growth in the micro injection molding market. The demand for precise and intricate components in medical devices, healthcare equipment, and implants is on the rise, propelling the adoption of micro injection molding for the production of these critical components. Additionally, the automotive industry is increasingly turning to micro injection molding for

the fabrication of small, intricate parts, contributing to the market's growth trajectory.

Market Segmentation

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the material type, end user, and region.

Material type: polycarbonate (PC), polyether ether ketone (PEEK), polyethylene (PE), others

End user: automotive, healthcare and life sciences, industrial components, telecom, others

Region: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America

The global micro injection molding market exhibits a segmentation based on material type, encompassing polycarbonate (PC), polyether ether ketone (PEEK), polyethylene (PE), and others. Notably, the polyethylene (PE) segment emerged as the dominant revenue contributor in 2022. This can be attributed to polyethylene's suitability for the micro injection molding process, owing to its inherent properties such as flexibility and high impact strength. Additionally, polyethylene is renowned for its excellent performance as strong and mild buffers, remarkable chemical resistance, extreme alcohol barrier, water vapor properties, good impact resistance, absence of residue after burning, lack of toxic fumes, plasticizers, or heavy metals, physiological harmlessness, and capacity to withstand high temperatures.

Furthermore, the micro injection molding market is further segmented by end user, encompassing the automotive, healthcare and life sciences, industrial components, telecom, and other sectors. Notably, the healthcare and life sciences segment emerged as the leading revenue generator in 2022.

The burgeoning utilization of micro-molded parts in the medical field is anticipated to be a key driver of market demand. This is particularly evident in medical procedures that necessitate various equipment such as endoscopic instruments, syringes, tubes, plastic thermometers, fluid bags, and other intravenous products. The predominant use of plastic in these medical products is attributed to its ability to maintain sterility, a critical requirement in medical settings.

The healthcare and life sciences segment's dominance in revenue generation can be attributed to the increasing adoption of micro injection molding for the production of intricate and precise components vital to medical and life sciences applications. The demand for high-precision components in medical devices, diagnostic equipment, and other healthcare-related products is propelling the utilization of micro injection molding in this sector.

Based on regional segmentation, the micro injection molding market is categorized into Asia-Pacific, Europe, North America, Middle East and Africa (MEA), and South America. Notably, North America emerged as the leading contributor to the global micro injection molding market in 2022 and is projected to maintain its dominance throughout the forecast period. This sustained dominance is indicative of the region's robust manufacturing and design landscape, which has witnessed a growing interest among manufacturers and designers in the production and acquisition of micro-featured, high-precision components and parts.

Major Companies and Competitive Landscape

The report analyzes the competitive landscape of the global micro injection molding market with some of the key players being Accu-Mold LLC, Makuta Inc., Microdyne Plastics Inc., MTD Micro Molding, Ortofon A/S, Precision Engineered Products LLC, SMC Ltd., Sovrin Plastics Ltd., Spectrum Plastics Group, Inc., Stack Plastics, Inc., STAMM AG, Starlim Spritzguss GmbH, Sumitomo Heavy Industries, Ltd., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

The report also provides detailed profiles of key players in the micro injection molding machine market, including Sumitomo (SHI) Demag Plastics Machinery GmbH, Arburg GmbH + Co KG, ENGEL AUSTRIA GmbH, The Rambaldi Group (Babypast/Cronoplast), Juken Kogyo Co., Ltd., WITTMANN Technology GmbH (Battenfeld), Sodick Co., Ltd., Milacron Holdings Corp., Boy Machines Inc., Nissei Plastic Industrial Co., Ltd.

Scope of the Report

To analyze and forecast the market size of the global micro injection molding market.

To classify and forecast the global micro injection molding market based on material

type, end user, region.

To identify drivers and challenges for the global micro injection molding market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global micro injection molding market.

To identify and analyze the profile of leading players operating in the global micro injection molding market.

Why Choose This Report

Gain a reliable outlook of the global micro injection molding market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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Contents

TABLE OF CONTENTS

FIGURES AND TABLES

Part 1. Introduction

1.1 Report Description

1.2 Objectives of The Study

1.3 Market Segment

1.4 Years Considered for The Report

1.5 Currency

1.6 Key Target Audience

Part 2. Methodology

Part 3. Executive Summary

Part 4. Market Overview

4.1 Introduction

4.1.1 Uses and Advantages

4.1.2 Micro Tool Design and Fabrication

4.1.3 Testing and Inspection

4.1.4 Micro Injection Molding Machines

Hydraulic Machines

Electric Machines

Hybrid Machines

Machine Manufacturers

Engel

Sumitomo Demag

DESMA TEC

4.2 Micro Injection Molding for the Healthcare Industry

4.2.1 Manufacturing of Medical Devices

4.2.2 Manufacturing of Consumables in the Healthcare Industry

4.3 Supply Chain Analysis

4.4 Market Dynamics

4.4.1 Drivers

Growing Number of Minimally Invasive Surgeries

Increasing Demand for Precision Parts in Automotive Industry

4.4.2 Restraints

Lack of Expertise and Tool Adjustments

4.4.3 Market Opportunities

Increased Use of Robotics and Automation

4.5 COVID-19 Impact Analysis

Part 5. Micro Injection Molding Market by Material Type

5.1 Overview

5.2 Polycarbonate (PC) Segment

5.2.1 Market Size and Forecast

5.3 Polyether Ether Ketone (PEEK) Segment

5.3.1 Market Size and Forecast

5.4 Polyethylene (PE) Segment

5.4.1 Market Size and Forecast

5.5 Others Segment

5.5.1 Market Size and Forecast

Part 6. Micro Injection Molding Market by End User

6.1 Overview

6.2 Automotive Segment

6.2.1 Market Size and Forecast

6.3 Healthcare & Life Sciences Segment

6.3.1 Market Size and Forecast

6.4 Industrial Components Segment

6.4.1 Market Size and Forecast

6.5 Telecom Segment

6.5.1 Market Size and Forecast

6.6 Others Segment

6.6.1 Market Size and Forecast

Part 7. Micro Injection Molding Market by Geography

7.1 Overview

7.1.1 Market Size and Forecast

7.2 North America

7.2.1 Market Size and Forecast

7.2.2 Key Countries

7.2.2.1 United States

7.2.2.2 Canada

7.2.2.3 Mexico

7.3 Europe

7.3.1 Market Size and Forecast

7.3.2 Key Countries

7.3.2.1 UK

7.3.2.2 Germany

7.3.2.3 Italy

7.3.2.4 France

7.3.2.5 Rest of Europe

7.4 Asia-Pacific

7.4.1 Market Size and Forecast

7.4.2 Key Countries

7.4.2.1 China

7.4.2.2 Japan

7.4.2.3 India

7.4.2.4 South Korea

7.4.2.5 Rest of Asia-Pacific

7.5 MEA

7.5.1 Market Size and Forecast

7.5.2 Key Regions

7.5.2.1 Middle East

7.5.2.2 Africa

7.6 Latin America

7.6.1 Market Size and Forecast

7.6.2 Key Countries

7.6.2.1 Brazil

7.6.2.2 Rest of Latin America

Part 8. Competitive Analysis

8.1 Introduction

Part 9. Key Competitor Profiles

9.1 Accu-Mold LLC

9.1.1 Business Overview

9.1.2 Company Information

9.1.3 Product Types and Services

9.1.4 Business Performance 2019 to 2022

9.1.5 SWOT Analysis

9.2 Makuta Inc.

9.2.1 Business Overview

9.2.2 Company Information

9.2.3 Product Types and Services

9.2.4 Business Performance 2019 to 2022

9.2.5 SWOT Analysis

9.3 Microdyne Plastics Inc.

9.3.1 Business Overview

9.3.2 Company Information

9.3.3 Product Types and Services

9.3.4 Business Performance 2019 to 2022

9.3.5 SWOT Analysis

9.4 MTD Micro Molding

9.4.1 Business Overview

9.4.2 Company Information

9.4.3 Product Types and Services

9.4.4 Business Performance 2019 to 2022

9.4.5 SWOT Analysis

9.5 Ortofon A/S

9.5.1 Business Overview

9.5.2 Company Information

9.5.3 Product Types and Services

9.5.4 Business Performance 2019 to 2022

9.5.5 SWOT Analysis

9.6 Precision Engineered Products LLC

9.6.1 Business Overview

9.6.2 Company Information

9.6.3 Product Types and Services

9.6.4 Business Performance 2019 to 2022

9.6.5 SWOT Analysis

9.7 SMC Ltd.

9.7.1 Business Overview

9.7.2 Company Information

9.7.3 Product Types and Services

9.7.4 Business Performance 2019 to 2022

9.7.5 SWOT Analysis

9.8 Sovrin Plastics Ltd.

9.8.1 Business Overview

9.8.2 Company Information

9.8.3 Product Types and Services

9.8.4 Business Performance 2019 to 2022

9.8.5 SWOT Analysis

9.9 Spectrum Plastics Group, Inc.

9.9.1 Business Overview

9.9.2 Company Information

9.9.3 Product Types and Services

9.9.4 Business Performance 2019 to 2022

9.9.5 SWOT Analysis

9.10 Stack Plastics, Inc.

9.10.1 Business Overview

9.10.2 Company Information

- 9.10.3 Product Types and Services
- 9.10.4 Business Performance 2019 to 2022
- 9.10.5 SWOT Analysis
- 9.11 STAMM AG
 - 9.11.1 Business Overview
 - 9.11.2 Company Information
 - 9.11.3 Product Types and Services
 - 9.11.4 Business Performance 2019 to 2022
 - 9.11.5 SWOT Analysis
- 9.12 Starlim Spritzguss GmbH
 - 9.12.1 Business Overview
 - 9.12.2 Company Information
 - 9.12.3 Product Types and Services
 - 9.12.4 Business Performance 2019 to 2022
 - 9.12.5 SWOT Analysis
- 9.13 Sumitomo Heavy Industries, Ltd.
 - 9.13.1 Business Overview
 - 9.13.2 Company Information
 - 9.13.3 Product Types and Services
 - 9.13.4 Business Performance 2019 to 2022
 - 9.13.5 SWOT Analysis
- Part 10. Machine Market Overview
 - 10.1 Micro Injection Molding Machine Market
 - 10.1.1 Market Size and Forecast
 - 10.2 Micro Injection Molding Machine Market by Segment
 - 10.2.1 Market by End User
 - 10.2.2 Market by Geography
- Part 11. Key Machine Companies
 - 11.1 Sumitomo (SHI) Demag Plastics Machinery GmbH
 - 11.1.1 Business Overview
 - 11.1.2 Company Information
 - 11.1.3 Product Types and Services
 - 11.1.4 Business Performance 2019 to 2022
 - 11.1.5 SWOT Analysis
 - 11.2 Arburg GmbH + Co KG
 - 11.2.1 Business Overview
 - 11.2.2 Company Information
 - 11.2.3 Product Types and Services
 - 11.3 Engel Austria GmbH

- 11.3.1 Business Overview
- 11.3.2 Company Information
- 11.3.3 Product Types and Services
- 11.4 The Rambaldi Group (Babyplast/Cronoplast)
 - 11.4.1 Business Overview
 - 11.4.2 Company Information
 - 11.4.3 Product Types and Services
- 11.5 Juken Kogyo Co., Ltd.
 - 11.5.1 Business Overview
 - 11.5.2 Company Information
 - 11.5.3 Product Types and Services
- 11.6 WITTMANN Technology GmbH (Battenfeld)
 - 11.6.1 Business Overview
 - 11.6.2 Company Information
 - 11.6.3 Product Types and Services
- 11.7 Sodick Co., Ltd.
 - 11.7.1 Business Overview
 - 11.7.2 Company Information
 - 11.7.3 Product Types and Services
- 11.8 Milacron Holdings Corp.
 - 11.8.1 Business Overview
 - 11.8.2 Company Information
 - 11.8.3 Product Types and Services
- 11.9 Boy Machines Inc.
 - 11.9.1 Business Overview
 - 11.9.2 Company Information
 - 11.9.3 Product Types and Services
- 11.10 Nissei Plastic Industrial Co., Ltd.
 - 11.10.1 Business Overview
 - 11.10.2 Company Information
 - 11.10.3 Product Types and Services
- 11.11 DESMA Schuhmaschinen GmbH
 - 11.11.1 Business Overview
 - 11.11.2 Company Information

DISCLAIMER

FIGURES AND TABLES

Global Micro Injection Molding Market Revenue 2019-2029 (\$ Million)

Global Micro Injection Molding Market by Material Type, 2019/2029

Global Micro Injection Molding Market by End User, 2019/2029

Global Micro Injection Molding Market Participants

Global Micro Injection Molding Market, by Region, 2019-2022 (\$ Million)

Global Medtech Estimated Sales, Top 15 Categories and Total Market, by Device Area, 2022 (\$ Billions)

Global Light Commercial Vehicle Sales Share, by Country/Region, 2022 (% of Total: 92 Millions)

Examples of Micro-Injection Molding (MIM) Components and Their Volumes

Global Micro Injection Molding Market by Material Type, 2019/2029

Global Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Polycarbonate (PC) Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Polycarbonate (PC) Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Polyether Ether Ketone (PEEK) Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Polyether Ether Ketone (PEEK) Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Polyethylene (PE) Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Polyethylene (PE) Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Others Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Others Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market by End User, 2019/2029

Global Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Automotive Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Automotive Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Healthcare & Life Sciences Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Healthcare & Life Sciences Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Industrial Components Segment, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Industrial Components Segment, by Region, 2019-2029 (\$ Million)

Global Micro Injection Molding Market, Telecom Segment, 2019-2029 (\$ Million)
Global Micro Injection Molding Market, Telecom Segment, by Region, 2019-2029 (\$ Million)
Global Micro Injection Molding Market, Others Segment, 2019-2029 (\$ Million)
Global Micro Injection Molding Market, Others Segment, by Region, 2019-2029 (\$ Million)
Global Micro Injection Molding Market by Region, 2019/2029
Global Micro Injection Molding Market, by Region, 2019-2029 (\$ Million)
North America Micro Injection Molding Market Size 2019-2029 (\$ Million)
North America Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)
North America Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)
North America Micro Injection Molding Market, by Country, 2019-2029 (\$ Million)
United States Micro Injection Molding Market 2019-2029 (\$ Million)
Canada Micro Injection Molding Market 2019-2029 (\$ Million)
Mexico Micro Injection Molding Market 2019-2029 (\$ Million)
Europe Micro Injection Molding Market Size 2019-2029 (\$ Million)
Europe Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)
Europe Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)
Europe Micro Injection Molding Market, by Country, 2019-2029 (\$ Million)
UK Micro Injection Molding Market 2019-2029 (\$ Million)
Germany Micro Injection Molding Market 2019-2029 (\$ Million)
Italy Micro Injection Molding Market 2019-2029 (\$ Million)
France Micro Injection Molding Market 2019-2029 (\$ Million)
Rest of The Europe Micro Injection Molding Market 2019-2029 (\$ Million)
Asia-Pacific Micro Injection Molding Market Size 2019-2029 (\$ Million)
Asia-Pacific Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)
Asia-Pacific Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)
Asia-Pacific Micro Injection Molding Market, by Country, 2019-2029 (\$ Million)
China Micro Injection Molding Market 2019-2029 (\$ Million)
Japan Micro Injection Molding Market 2019-2029 (\$ Million)
India Micro Injection Molding Market 2019-2029 (\$ Million)
South Korea Micro Injection Molding Market 2019-2029 (\$ Million)
Rest of Asia-Pacific Micro Injection Molding Market 2019-2029 (\$ Million)
MEA Micro Injection Molding Market Size 2019-2029 (\$ Million)
MEA Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)
MEA Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)
MEA Micro Injection Molding Market, by Region, 2019-2029 (\$ Million)
Middle East Micro Injection Molding Market 2019-2029 (\$ Million)
Africa Micro Injection Molding Market 2019-2029 (\$ Million)

Latin America Micro Injection Molding Market Size 2019-2029 (\$ Million)
Latin America Micro Injection Molding Market, by Material Type, 2019-2029 (\$ Million)
Latin America Micro Injection Molding Market, by End User, 2019-2029 (\$ Million)
Latin America Micro Injection Molding Market, by Country, 2019-2029 (\$ Million)
Brazil Micro Injection Molding Market 2019-2029 (\$ Million)
Rest of Latin America Micro Injection Molding Market 2019-2029 (\$ Million)
Global Market Shares of Micro Injection Molding, by Major Players, 2021 (%)
Accu-Mold LLC Business Performance 2019-2022
Accu-Mold LLC Revenue 2019-2022 (\$ Million)
Accu-Mold LLC SWOT Analysis
Makuta Inc. Business Performance 2019-2022
Makuta Inc. Revenue 2019-2022 (\$ Million)
Makuta Inc. SWOT Analysis
Microdyne Plastics Inc. Business Performance 2019-2022
Microdyne Plastics Inc. Revenue 2019-2022 (\$ Million)
Microdyne Plastics Inc. SWOT Analysis
MTD Micro Molding Business Performance 2019-2022
MTD Micro Molding Revenue 2019-2022 (\$ Million)
MTD Micro Molding SWOT Analysis
Ortofon A/S Business Performance 2019-2022
Ortofon A/S Revenue 2019-2022 (\$ Million)
Ortofon A/S SWOT Analysis
Precision Engineered Products LLC Business Performance 2019-2022
Precision Engineered Products LLC Revenue 2019-2022 (\$ Million)
Precision Engineered Products LLC SWOT Analysis
SMC Ltd. Business Performance 2019-2022
SMC Ltd. Revenue 2019-2022 (\$ Million)
SMC Ltd. SWOT Analysis
Sovrin Plastics Ltd. Business Performance 2019-2022
Sovrin Plastics Ltd. Revenue 2019-2022 (\$ Million)
Sovrin Plastics Ltd. SWOT Analysis
Spectrum Plastics Group, Inc. Business Performance 2019-2022
Spectrum Plastics Group, Inc. Revenue 2019-2022 (\$ Million)
Spectrum Plastics Group, Inc. SWOT Analysis
Stack Plastics, Inc. Business Performance 2019-2022
Stack Plastics, Inc. Revenue 2019-2022 (\$ Million)
Stack Plastics, Inc. SWOT Analysis
STAMM AG Business Performance 2019-2022
STAMM AG Revenue 2019-2022 (\$ Million)

STAMM AG SWOT Analysis

Starlim Spritzguss GmbH Business Performance 2019-2022

Starlim Spritzguss GmbH Revenue 2019-2022 (\$ Million)

Starlim Spritzguss GmbH SWOT Analysis

Sumitomo Heavy Industries, Ltd. Business Performance 2019-2022

Sumitomo Heavy Industries, Ltd. Revenue 2019-2022 (\$ Million)

Sumitomo Heavy Industries, Ltd. SWOT Analysis

Global Micro Injection Molding Machine Market Revenue 2019-2029 (\$ Million)

Global Micro Injection Molding Machine Market by End User, 2019/2029

Global Micro Injection Molding Machine Market by Geography, 2019/2029

Sumitomo Heavy Industries, Ltd. Business Performance 2019-2022

Sumitomo Heavy Industries, Ltd. Revenue 2019-2022 (\$ Million)

Sumitomo Heavy Industries, Ltd. SWOT Analysis

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