

# **Global Micromachining Market By Type (Non-traditional, Traditional and Hybrid), By Process (Subtractive and Additive & Others), By Axis (3-Axis, 4-Axis and 5-Axis), By Industry Vertical (Automotive, Semiconductors & Electronics, Healthcare, Aerospace & Defense, Telecommunications, Plastics & Polymers, Power & Energy and Others), By Region, Industry Analysis and Forecast, 2020 - 2026**

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## **Abstracts**

The Global Micromachining Market size is expected to reach \$4.2 billion by 2026, rising at a market growth of 9.7% CAGR during the forecast period. Micromachining and nanotechnology play an increasingly important role in miniaturizing components ranging from biomedical applications to chemical microreactors and sensors. Introduction to micromachining and nanofabrication is described as the primary technologies for microelectromechanical systems. Growth is powered by the growing use of such systems for the manufacture of micro-components in sectors such as automotive, healthcare, consumer electronics, telecommunications and aerospace. Increasing developments in manufacturing technology have resulted in a reduction in the time taken for the manufacture of parts, which has further spurred consumer demand.

In terms of both sales and production, the semiconductor and electronics industry play a crucial role in the global economy. Both the global semiconductor and the electronics industry have witnessed a robust growth rate over the last few years due to continuous technological advances and investment in research and development activities. The penetration of advanced technologies such as Artificial Intelligence (AI), 5G, Internet of Things (IoT) and Autonomous Vehicles in various industries pushes the limits of every

industry and presents an enormous growth opportunity for the global semiconductor & electronics industry.

In recent years, there has been a substantial increase in the efficiency of micromachining equipment owing to the growing usage of proximity sensors to quantify errors in such equipment that are driving market growth. Initiatives have been pursued by numerous governments, including China and India, for initiatives such as the promotion of technologies and policies to boost industrial development. The rapidly changing technology landscape of manufacturing and process industries worldwide has often motivated industrial firms to invest in innovative manufacturing techniques.

Based on Type, the market is segmented into Non-traditional, Traditional and Hybrid. Based on Process, the market is segmented into Subtractive and Additive & Others. Based on Axis, the market is segmented into 3-Axis, 4-Axis and 5-Axis. Based on Industry Vertical, the market is segmented into Automotive, Semiconductors & Electronics, Healthcare, Aerospace & Defense, Telecommunications, Plastics & Polymers, Power & Energy and Others. Based on Regions, the market is segmented into North America, Europe, Asia Pacific, and Latin America, Middle East & Africa.

The major strategies followed by the market participants are Partnerships and Product Launches. Based on the Analysis presented in the Cardinal matrix; Mitsubishi Heavy Industries Ltd., IPG Photonics Corporation, and Georg Fischer Ltd. are the forerunners in the Micromachining Market. Companies such as Coherent, Inc., Makino Milling Machine Co., Ltd., and Lumentum Holdings, Inc., MKS Instruments, Inc., and Han's Laser Technology Industry Group Co., Ltd. are some of the key innovators in the market.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include MKS Instruments, Inc. (Electro Scientific Industries), Mitsubishi Heavy Industries Ltd., Lumentum Holdings, Inc., IPG Photonics Corporation, Georg Fischer Ltd., Coherent, Inc., Oxford Lasers Ltd., Makino Milling Machine Co., Ltd., Han's Laser Technology Industry Group Co., Ltd., and Heraeus Holding GmbH.

Recent strategies deployed in Micromachining Market

Acquisition and Mergers:

Jun-2018: Coherent acquired O.R. Lasertechnologie GmbH, a developer of compact, high-precision tools for laser additive manufacturing. The acquisition complemented

Coherent's product line in additive manufacturing.

May-2017: IPG Photonics acquired OptiGrate Corporation, a pioneer and leading manufacturer of the highest-quality chirped volume Bragg grating (VBG) technologies. The acquisition completed IPG's internal set of core components for the new ultrafast pulsed laser product lines.

Nov-2016: Coherent completed the acquisition of ROFIN-SINAR Technologies, Inc., one of the world's leading developers and manufacturers of high-performance industrial laser sources and laser-based solutions and components. The acquisition reinforced the company's business in laser-based solutions.

May-2016: GF Machining Solutions took over Microlution Inc., a specialist in micro-machining based on milling and laser technologies. The acquisition broadened its technology portfolio for fulfilling the needs of its key target sectors such as the aerospace and medical fields.

Apr-2016: MKS Instruments took over Newport Corporation, a supplier of advanced technology products and systems. The acquisition broadened its portfolio of technology solutions.

Partnerships, Collaborations, and Agreements:

Aug-2019: IPG Photonics teamed up with The Brose Group, an automotive supplier. The collaboration was focused on the development of the first direct weld measurement technology for automotive seat rails. In-line coherent imaging (ICI) technology will increase manufacturing efficiency, streamline validation, and minimize waste.

Product Launches and Product Expansions:

Jun-2020: Coherent added EasyMark XL to its Laser Marking Systems Product Line. EasyMark XL is a fully integrated, desktop laser marking system, which offers an expanded working range and longer focal lengths.

Mar-2020: Lumentum Holdings launched three breakthrough high-speed datacom laser chips. These chips were aimed to enable the growth of future hyperscale data centers and 5G wireless applications.

Mar-2020: Lumentum Holdings introduced a series of advanced 980 nanometers (nm) single-mode pump lasers. The new 980 nm pump lasers offer significantly higher power and higher efficiency, enabling high-density erbium-doped fiber amplifier (EDFA) designs.

Feb-2020: MKS Instruments released Spectra-Physics Spirit 1030-140, an industrial femtosecond hybrid fiber laser. The laser provides high throughput, highest quality micromachining of polymers, thin metals, sapphire, polycrystalline diamond, and many other materials for consumer electronics, medical devices, and industrial applications.

Sep-2019: Coherent launched PowerLine C, a new versatile laser subsystem. It is a CO<sub>2</sub> laser-based sub-system that offers a combination of convenience, versatility, and economy for precision drilling, cutting, scribing, structuring, marking, and engraving of a

wide range of materials.

Aug-2019: Han's Laser launched Multi-axis Ultra-fast Micro-machining Equipment, HN-GY-PS60. This equipment can realize X, Y, Z motion control in three directions as well as real-time Controls the rotation of the laser and changes of processing tilt angle.

Jul-2019: Makino introduced U6 H.E.A.T. Extreme Wire EDM Utilizing First-of-its-Kind 0.016" Coated Wire Technology. The EDM increases rough machining rates up to 300% compared to traditional 0.010" brass wire while maintaining comparable wire consumption rates of 0.6 0.7 lbs./hour. The U6 H.E.A.T. Extreme also features Makino's HyperDrive Extreme wire control system to improve machine speed and performance.

Jun-2019: Makino released the F5 Pro6 vertical machining center. The center has been designed for providing stiffness and rigidity for chatter-free cutting, agility for high-speed/hard-milling, and accuracies for tight-tolerance blends and matches typical of complex, 3D contoured geometry associated with die/mold and medical production.

Feb-2019: Coherent introduced ExactCut, the first system in its Precision Laser Machines. ExactCut micromachining systems combine intelligence, integration, and interconnectivity for precision cutting of metals, alloys, sapphire, polycrystalline diamond (PCD), and ceramics. The ExactCut has been designed for easy integration into high volume production, with a variety of interfaces for specialty tooling, rotary or linear stages, part handling robotics, and conveyor belts.

Geographical Expansions:

Apr-2020: Coherent, Inc. opened a new Center of Excellence for Fiber Lasers in Tampere, Finland. The center would streamline the production flow. The company would combine stand-alone fiber laser source assembly and testing at the same site with the manufacture of fiber laser components, laser engines, and combiners.

Nov-2019: GF Machining Solutions and GF Piping Systems opened a new headquarter in Canada for strengthening direct sales and service support for Canadian manufacturers. With this facility, the company expanded its warehouse space and inventory by 100 percent for even more availability of and access to all GF Piping Systems products, both industrial and utility.

Sep-2019: GF Machining Solutions opened an innovation and production center in Biel (Switzerland). The company expanded its business in lasers and components.

Scope of the Study

Market Segmentation:

By Type

Non-traditional

Traditional

Hybrid

#### By Process

Subtractive

Additive & Others

#### By Axis

3-Axis

4-Axis

5-Axis

#### By Industry Vertical

Automotive

Semiconductors & Electronics

Healthcare

Aerospace & Defense

Telecommunications

Plastics & Polymers

Power & Energy

Others

## By Geography

North America

US

Canada

Mexico

Rest of North America

Europe

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Singapore

Malaysia

Rest of Asia Pacific

LAMEA

Brazil

Argentina

UAE

Saudi Arabia

South Africa

Nigeria

Rest of LAMEA

Companies Profiled

MKS Instruments, Inc. (Electro Scientific Industries)

Mitsubishi Heavy Industries Ltd.

Lumentum Holdings, Inc.

IPG Photonics Corporation

Georg Fischer Ltd.

Coherent, Inc.

Oxford Lasers Ltd.

Makino Milling Machine Co., Ltd.

Han's Laser Technology Industry Group Co., Ltd.

Heraeus Holding GmbH

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## Contents

### CHAPTER 1. MARKET SCOPE & METHODOLOGY

- 1.1 Market Definition
- 1.2 Objectives
- 1.3 Market Scope
- 1.4 Segmentation
  - 1.4.1 Global Micromachining Market, by Type
  - 1.4.2 Global Micromachining Market, by Process
  - 1.4.3 Global Micromachining Market, by Axis
  - 1.4.4 Global Micromachining Market, by Industry Vertical
  - 1.4.5 Global Micromachining Market, by Geography
- 1.5 Methodology for the research

### CHAPTER 2. MARKET OVERVIEW

- 2.1 Introduction
  - 2.1.1 Overview
  - 2.1.2 Executive Summary
  - 2.1.3 Market Composition and Scenario
- 2.2 Key Factors Impacting the Market
  - 2.2.1 Market Drivers
  - 2.2.2 Market Restraints

### CHAPTER 3. COMPETITION ANALYSIS - GLOBAL

- 3.1 KBV Cardinal Matrix
- 3.2 Recent Industry Wide Strategic Developments
  - 3.2.1 Partnerships, Collaborations and Agreements
  - 3.2.2 Product Launches and Product Expansions
  - 3.2.3 Geographical Expansions
  - 3.2.4 Mergers & Acquisitions
- 3.3 Top Winning Strategies
  - 3.3.1 Key Leading Strategies: Percentage Distribution (2016-2020)
  - 3.3.2 Key Strategic Move: (Product Launches and Product Expansions : 2018, Jan – 2020, Jun) Leading Players

### CHAPTER 4. GLOBAL MICROMACHINING MARKET BY INDUSTRY VERTICAL

*Global Micromachining Market By Type (Non-traditional, Traditional and Hybrid), By Process (Subtractive and Ad...*

- 4.1 Global Automotive Micromachining Market by Region
- 4.2 Global Semiconductors & Electronics Micromachining Market by Region
- 4.3 Global Healthcare Micromachining Market by Region
- 4.4 Global Aerospace & Defense Micromachining Market by Region
- 4.5 Global Telecommunications Micromachining Market by Region
- 4.6 Global Plastics & Polymers Micromachining Market by Region
- 4.7 Global Power & Energy Micromachining Market by Region
- 4.8 Global Other Industry Vertical Micromachining Market by Region

## **CHAPTER 5. GLOBAL MICROMACHINING MARKET BY TYPE**

- 5.1 Global Micromachining Non-traditional Market by Region
- 5.2 Global Micromachining Traditional Market by Region
- 5.3 Global Micromachining Hybrid Market by Region

## **CHAPTER 6. GLOBAL MICROMACHINING MARKET BY PROCESS**

- 6.1 Global Subtractive Micromachining Market by Region
- 6.2 Global Additive & Others Micromachining Market by Region

## **CHAPTER 7. GLOBAL MICROMACHINING MARKET BY AXIS**

- 7.1 Global 3-Axis Micromachining Market by Region
- 7.2 Global 4-Axis Micromachining Market by Region
- 7.3 Global 5-Axis Micromachining Market by Region

## **CHAPTER 8. GLOBAL MICROMACHINING MARKET BY REGION**

- 8.1 North America Micromachining Market
  - 8.1.1 North America Micromachining Market by Industry Vertical
    - 8.1.1.1 North America Automotive Micromachining Market by Country
    - 8.1.1.2 North America Semiconductors & Electronics Micromachining Market by Country
    - 8.1.1.3 North America Healthcare Micromachining Market by Country
    - 8.1.1.4 North America Aerospace & Defense Micromachining Market by Country
    - 8.1.1.5 North America Telecommunications Micromachining Market by Country
    - 8.1.1.6 North America Plastics & Polymers Micromachining Market by Country
    - 8.1.1.7 North America Power & Energy Micromachining Market by Country

- 8.1.1.8 North America Other Industry Vertical Micromachining Market by Country
- 8.1.2 North America Micromachining Market by Type
  - 8.1.2.1 North America Micromachining Non-traditional Market by Country
  - 8.1.2.2 North America Micromachining Traditional Market by Country
  - 8.1.2.3 North America Micromachining Hybrid Market by Country
- 8.1.3 North America Micromachining Market by Process
  - 8.1.3.1 North America Subtractive Micromachining Market by Country
  - 8.1.3.2 North America Additive & Others Micromachining Market by Country
- 8.1.4 North America Micromachining Market by Axis
  - 8.1.4.1 North America 3-Axis Micromachining Market by Country
  - 8.1.4.2 North America 4-Axis Micromachining Market by Country
  - 8.1.4.3 North America 5-Axis Micromachining Market by Country
- 8.1.5 North America Micromachining Market by Country
  - 8.1.5.1 US Micromachining Market
    - 8.1.5.1.1 US Micromachining Market by Industry Vertical
    - 8.1.5.1.2 US Micromachining Market by Type
    - 8.1.5.1.3 US Micromachining Market by Process
    - 8.1.5.1.4 US Micromachining Market by Axis
  - 8.1.5.2 Canada Micromachining Market
    - 8.1.5.2.1 Canada Micromachining Market by Industry Vertical
    - 8.1.5.2.2 Canada Micromachining Market by Type
    - 8.1.5.2.3 Canada Micromachining Market by Process
    - 8.1.5.2.4 Canada Micromachining Market by Axis
  - 8.1.5.3 Mexico Micromachining Market
    - 8.1.5.3.1 Mexico Micromachining Market by Industry Vertical
    - 8.1.5.3.2 Mexico Micromachining Market by Type
    - 8.1.5.3.3 Mexico Micromachining Market by Process
    - 8.1.5.3.4 Mexico Micromachining Market by Axis
  - 8.1.5.4 Rest of North America Micromachining Market
    - 8.1.5.4.1 Rest of North America Micromachining Market by Industry Vertical
    - 8.1.5.4.2 Rest of North America Micromachining Market by Type
    - 8.1.5.4.3 Rest of North America Micromachining Market by Process
    - 8.1.5.4.4 Rest of North America Micromachining Market by Axis
- 8.2 Europe Micromachining Market
  - 8.2.1 Europe Micromachining Market by Industry Vertical
    - 8.2.1.1 Europe Automotive Micromachining Market by Country
    - 8.2.1.2 Europe Semiconductors & Electronics Micromachining Market by Country
    - 8.2.1.3 Europe Healthcare Micromachining Market by Country
    - 8.2.1.4 Europe Aerospace & Defense Micromachining Market by Country

- 8.2.1.5 Europe Telecommunications Micromachining Market by Country
- 8.2.1.6 Europe Plastics & Polymers Micromachining Market by Country
- 8.2.1.7 Europe Power & Energy Micromachining Market by Country
- 8.2.1.8 Europe Other Industry Vertical Micromachining Market by Country
- 8.2.2 Europe Micromachining Market by Type
  - 8.2.2.1 Europe Micromachining Non-traditional Market by Country
  - 8.2.2.2 Europe Micromachining Traditional Market by Country
  - 8.2.2.3 Europe Micromachining Hybrid Market by Country
- 8.2.3 Europe Micromachining Market by Process
  - 8.2.3.1 Europe Subtractive Micromachining Market by Country
  - 8.2.3.2 Europe Additive & Others Micromachining Market by Country
- 8.2.4 Europe Micromachining Market by Axis
  - 8.2.4.1 Europe 3-Axis Micromachining Market by Country
  - 8.2.4.2 Europe 4-Axis Micromachining Market by Country
  - 8.2.4.3 Europe 5-Axis Micromachining Market by Country
- 8.2.5 Europe Micromachining Market by Country
  - 8.2.5.1 Germany Micromachining Market
    - 8.2.5.1.1 Germany Micromachining Market by Industry Vertical
    - 8.2.5.1.2 Germany Micromachining Market by Type
    - 8.2.5.1.3 Germany Micromachining Market by Process
    - 8.2.5.1.4 Germany Micromachining Market by Axis
  - 8.2.5.2 UK Micromachining Market
    - 8.2.5.2.1 UK Micromachining Market by Industry Vertical
    - 8.2.5.2.2 UK Micromachining Market by Type
    - 8.2.5.2.3 UK Micromachining Market by Process
    - 8.2.5.2.4 UK Micromachining Market by Axis
  - 8.2.5.3 France Micromachining Market
    - 8.2.5.3.1 France Micromachining Market by Industry Vertical
    - 8.2.5.3.2 France Micromachining Market by Type
    - 8.2.5.3.3 France Micromachining Market by Process
    - 8.2.5.3.4 France Micromachining Market by Axis
  - 8.2.5.4 Russia Micromachining Market
    - 8.2.5.4.1 Russia Micromachining Market by Industry Vertical
    - 8.2.5.4.2 Russia Micromachining Market by Type
    - 8.2.5.4.3 Russia Micromachining Market by Process
    - 8.2.5.4.4 Russia Micromachining Market by Axis
  - 8.2.5.5 Spain Micromachining Market
    - 8.2.5.5.1 Spain Micromachining Market by Industry Vertical
    - 8.2.5.5.2 Spain Micromachining Market by Type

- 8.2.5.5.3 Spain Micromachining Market by Process
- 8.2.5.5.4 Spain Micromachining Market by Axis
- 8.2.5.6 Italy Micromachining Market
  - 8.2.5.6.1 Italy Micromachining Market by Industry Vertical
  - 8.2.5.6.2 Italy Micromachining Market by Type
  - 8.2.5.6.3 Italy Micromachining Market by Process
  - 8.2.5.6.4 Italy Micromachining Market by Axis
- 8.2.5.7 Rest of Europe Micromachining Market
  - 8.2.5.7.1 Rest of Europe Micromachining Market by Industry Vertical
  - 8.2.5.7.2 Rest of Europe Micromachining Market by Type
  - 8.2.5.7.3 Rest of Europe Micromachining Market by Process
  - 8.2.5.7.4 Rest of Europe Micromachining Market by Axis
- 8.3 Asia Pacific Micromachining Market
  - 8.3.1 Asia Pacific Micromachining Market by Industry Vertical
    - 8.3.1.1 Asia Pacific Automotive Micromachining Market by Country
    - 8.3.1.2 Asia Pacific Semiconductors & Electronics Micromachining Market by Country
    - 8.3.1.3 Asia Pacific Healthcare Micromachining Market by Country
    - 8.3.1.4 Asia Pacific Aerospace & Defense Micromachining Market by Country
    - 8.3.1.5 Asia Pacific Telecommunications Micromachining Market by Country
    - 8.3.1.6 Asia Pacific Plastics & Polymers Micromachining Market by Country
    - 8.3.1.7 Asia Pacific Power & Energy Micromachining Market by Country
    - 8.3.1.8 Asia Pacific Other Industry Vertical Micromachining Market by Country
  - 8.3.2 Asia Pacific Micromachining Market by Type
    - 8.3.2.1 Asia Pacific Micromachining Non-traditional Market by Country
    - 8.3.2.2 Asia Pacific Micromachining Traditional Market by Country
    - 8.3.2.3 Asia Pacific Micromachining Hybrid Market by Country
  - 8.3.3 Asia Pacific Micromachining Market by Process
    - 8.3.3.1 Asia Pacific Subtractive Micromachining Market by Country
    - 8.3.3.2 Asia Pacific Additive & Others Micromachining Market by Country
  - 8.3.4 Asia Pacific Micromachining Market by Axis
    - 8.3.4.1 Asia Pacific 3-Axis Micromachining Market by Country
    - 8.3.4.2 Asia Pacific 4-Axis Micromachining Market by Country
    - 8.3.4.3 Asia Pacific 5-Axis Micromachining Market by Country
  - 8.3.5 Asia Pacific Micromachining Market by Country
    - 8.3.5.1 China Micromachining Market
      - 8.3.5.1.1 China Micromachining Market by Industry Vertical
      - 8.3.5.1.2 China Micromachining Market by Type
      - 8.3.5.1.3 China Micromachining Market by Process
      - 8.3.5.1.4 China Micromachining Market by Axis

#### 8.3.5.2 Japan Micromachining Market

##### 8.3.5.2.1 Japan Micromachining Market by Industry Vertical

##### 8.3.5.2.2 Japan Micromachining Market by Type

##### 8.3.5.2.3 Japan Micromachining Market by Process

##### 8.3.5.2.4 Japan Micromachining Market by Axis

#### 8.3.5.3 India Micromachining Market

##### 8.3.5.3.1 India Micromachining Market by Industry Vertical

##### 8.3.5.3.2 India Micromachining Market by Type

##### 8.3.5.3.3 India Micromachining Market by Process

##### 8.3.5.3.4 India Micromachining Market by Axis

#### 8.3.5.4 South Korea Micromachining Market

##### 8.3.5.4.1 South Korea Micromachining Market by Industry Vertical

##### 8.3.5.4.2 South Korea Micromachining Market by Type

##### 8.3.5.4.3 South Korea Micromachining Market by Process

##### 8.3.5.4.4 South Korea Micromachining Market by Axis

#### 8.3.5.5 Singapore Micromachining Market

##### 8.3.5.5.1 Singapore Micromachining Market by Industry Vertical

##### 8.3.5.5.2 Singapore Micromachining Market by Type

##### 8.3.5.5.3 Singapore Micromachining Market by Process

##### 8.3.5.5.4 Singapore Micromachining Market by Axis

#### 8.3.5.6 Malaysia Micromachining Market

##### 8.3.5.6.1 Malaysia Micromachining Market by Industry Vertical

##### 8.3.5.6.2 Malaysia Micromachining Market by Type

##### 8.3.5.6.3 Malaysia Micromachining Market by Process

##### 8.3.5.6.4 Malaysia Micromachining Market by Axis

#### 8.3.5.7 Rest of Asia Pacific Micromachining Market

##### 8.3.5.7.1 Rest of Asia Pacific Micromachining Market by Industry Vertical

##### 8.3.5.7.2 Rest of Asia Pacific Micromachining Market by Type

##### 8.3.5.7.3 Rest of Asia Pacific Micromachining Market by Process

##### 8.3.5.7.4 Rest of Asia Pacific Micromachining Market by Axis

#### 8.4 LAMEA Micromachining Market

##### 8.4.1 LAMEA Micromachining Market by Industry Vertical

###### 8.4.1.1 LAMEA Automotive Micromachining Market by Country

###### 8.4.1.2 LAMEA Semiconductors & Electronics Micromachining Market by Country

###### 8.4.1.3 LAMEA Healthcare Micromachining Market by Country

###### 8.4.1.4 LAMEA Aerospace & Defense Micromachining Market by Country

###### 8.4.1.5 LAMEA Telecommunications Micromachining Market by Country

###### 8.4.1.6 LAMEA Plastics & Polymers Micromachining Market by Country

###### 8.4.1.7 LAMEA Power & Energy Micromachining Market by Country



- 8.4.1.8 LAMEA Other Industry Vertical Micromachining Market by Country
- 8.4.2 LAMEA Micromachining Market by Type
  - 8.4.2.1 LAMEA Micromachining Non-traditional Market by Country
  - 8.4.2.2 LAMEA Micromachining Traditional Market by Country
  - 8.4.2.3 LAMEA Micromachining Hybrid Market by Country
- 8.4.3 LAMEA Micromachining Market by Process
  - 8.4.3.1 LAMEA Subtractive Micromachining Market by Country
  - 8.4.3.2 LAMEA Additive & Others Micromachining Market by Country
- 8.4.4 LAMEA Micromachining Market by Axis
  - 8.4.4.1 LAMEA 3-Axis Micromachining Market by Country
  - 8.4.4.2 LAMEA 4-Axis Micromachining Market by Country
  - 8.4.4.3 LAMEA 5-Axis Micromachining Market by Country
- 8.4.5 LAMEA Micromachining Market by Country
  - 8.4.5.1 Brazil Micromachining Market
    - 8.4.5.1.1 Brazil Micromachining Market by Industry Vertical
    - 8.4.5.1.2 Brazil Micromachining Market by Type
    - 8.4.5.1.3 Brazil Micromachining Market by Process
    - 8.4.5.1.4 Brazil Micromachining Market by Axis
  - 8.4.5.2 Argentina Micromachining Market
    - 8.4.5.2.1 Argentina Micromachining Market by Industry Vertical
    - 8.4.5.2.2 Argentina Micromachining Market by Type
    - 8.4.5.2.3 Argentina Micromachining Market by Process
    - 8.4.5.2.4 Argentina Micromachining Market by Axis
  - 8.4.5.3 UAE Micromachining Market
    - 8.4.5.3.1 UAE Micromachining Market by Industry Vertical
    - 8.4.5.3.2 UAE Micromachining Market by Type
    - 8.4.5.3.3 UAE Micromachining Market by Process
    - 8.4.5.3.4 UAE Micromachining Market by Axis
  - 8.4.5.4 Saudi Arabia Micromachining Market
    - 8.4.5.4.1 Saudi Arabia Micromachining Market by Industry Vertical
    - 8.4.5.4.2 Saudi Arabia Micromachining Market by Type
    - 8.4.5.4.3 Saudi Arabia Micromachining Market by Process
    - 8.4.5.4.4 Saudi Arabia Micromachining Market by Axis
  - 8.4.5.5 South Africa Micromachining Market
    - 8.4.5.5.1 South Africa Micromachining Market by Industry Vertical
    - 8.4.5.5.2 South Africa Micromachining Market by Type
    - 8.4.5.5.3 South Africa Micromachining Market by Process
    - 8.4.5.5.4 South Africa Micromachining Market by Axis
  - 8.4.5.6 Nigeria Micromachining Market

- 8.4.5.6.1 Nigeria Micromachining Market by Industry Vertical
- 8.4.5.6.2 Nigeria Micromachining Market by Type
- 8.4.5.6.3 Nigeria Micromachining Market by Process
- 8.4.5.6.4 Nigeria Micromachining Market by Axis
- 8.4.5.7 Rest of LAMEA Micromachining Market
  - 8.4.5.7.1 Rest of LAMEA Micromachining Market by Industry Vertical
  - 8.4.5.7.2 Rest of LAMEA Micromachining Market by Type
  - 8.4.5.7.3 Rest of LAMEA Micromachining Market by Process
  - 8.4.5.7.4 Rest of LAMEA Micromachining Market by Axis

## **CHAPTER 9. COMPANY PROFILES**

### **9.1 MKS Instruments, Inc. (Electro Scientific Industries)**

- 9.1.1 Company Overview
- 9.1.2 Financial Analysis
- 9.1.3 Segmental and Regional Analysis
- 9.1.4 Research & Development Expense
- 9.1.5 Recent strategies and developments:
  - 9.1.5.1 Acquisition and Mergers:
  - 9.1.5.2 Product Launches and Product Expansions:

### **9.2 Mitsubishi Heavy Industries Ltd.**

- 9.2.1 Company Overview
- 9.2.2 Financial Analysis
- 9.2.3 Segmental Analysis

### **9.3 Lumentum Holdings, Inc.**

- 9.3.1 Company Overview
- 9.3.2 Financial Analysis
- 9.3.3 Segmental and Regional Analysis
- 9.3.4 Research & Development Expenses
- 9.3.5 Recent strategies and developments:
  - 9.3.5.1 Product Launches and Product Expansions:

### **9.4 IPG Photonics Corporation**

- 9.4.1 Company Overview
- 9.4.2 Financial Analysis
- 9.4.3 Regional Analysis
- 9.4.4 Research & Development Expense
- 9.4.5 Recent strategies and developments:
  - 9.4.5.1 Partnerships, Collaborations, and Agreements:
  - 9.4.5.2 Acquisition and Mergers:



## 9.5 Georg Fischer Ltd.

### 9.5.1 Company Overview

### 9.5.2 Financial Analysis

### 9.5.3 Segmental and Regional Analysis

### 9.5.4 Research & Development Expenses

### 9.5.5 Recent strategies and developments:

#### 9.5.5.1 Partnerships, Collaborations, and Agreements:

#### 9.5.5.2 Acquisition and Mergers:

#### 9.5.5.3 Geographical Expansions:

## 9.6 Coherent, Inc.

### 9.6.1 Company Overview

### 9.6.2 Financial Analysis

### 9.6.3 Segmental and Regional Analysis

### 9.6.4 Research & Development Expense

### 9.6.5 Recent strategies and developments:

#### 9.6.5.1 Acquisition and Mergers:

#### 9.6.5.2 Product Launches and Product Expansions:

#### 9.6.5.3 Geographical Expansions:

## 9.7 Oxford Lasers Ltd.

### 9.7.1 Company Overview

## 9.8 Makino Milling Machine Co., Ltd.

### 9.8.1 Company Overview

### 9.8.2 Recent strategies and developments:

#### 9.8.2.1 Partnerships, Collaborations, and Agreements:

#### 9.8.2.2 Product Launches and Product Expansions:

## 9.9 Han's Laser Technology Industry Group Co., Ltd.

### 9.9.1 Company Overview

### 9.9.2 Recent strategies and developments:

#### 9.9.2.1 Product Launches and Product Expansions:

## 9.1 Heraeus Holding GmbH

### 9.10.1 Company Overview

## List Of Tables

### LIST OF TABLES

TABLE 1 GLOBAL MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 2 GLOBAL MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 3 PARTNERSHIPS, COLLABORATIONS AND AGREEMENTS–  
MICROMACHINING MARKET

TABLE 4 PRODUCT LAUNCHES AND PRODUCT EXPANSIONS–  
MICROMACHINING MARKET

TABLE 5 GEOGRAPHICAL EXPANSIONS– MICROMACHINING MARKET

TABLE 6 MERGERS & ACQUISITIONS – MICROMACHINING MARKET

TABLE 7 GLOBAL MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -  
2019, USD MILLION

TABLE 8 GLOBAL MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 -  
2026, USD MILLION

TABLE 9 GLOBAL AUTOMOTIVE MICROMACHINING MARKET BY REGION, 2016 -  
2019, USD MILLION

TABLE 10 GLOBAL AUTOMOTIVE MICROMACHINING MARKET BY REGION, 2020 -  
2026, USD MILLION

TABLE 11 GLOBAL SEMICONDUCTORS & ELECTRONICS MICROMACHINING  
MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 12 GLOBAL SEMICONDUCTORS & ELECTRONICS MICROMACHINING  
MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 13 GLOBAL HEALTHCARE MICROMACHINING MARKET BY REGION, 2016 -  
2019, USD MILLION

TABLE 14 GLOBAL HEALTHCARE MICROMACHINING MARKET BY REGION, 2020 -  
2026, USD MILLION

TABLE 15 GLOBAL AEROSPACE & DEFENSE MICROMACHINING MARKET BY  
REGION, 2016 - 2019, USD MILLION

TABLE 16 GLOBAL AEROSPACE & DEFENSE MICROMACHINING MARKET BY  
REGION, 2020 - 2026, USD MILLION

TABLE 17 GLOBAL TELECOMMUNICATIONS MICROMACHINING MARKET BY  
REGION, 2016 - 2019, USD MILLION

TABLE 18 GLOBAL TELECOMMUNICATIONS MICROMACHINING MARKET BY  
REGION, 2020 - 2026, USD MILLION

TABLE 19 GLOBAL PLASTICS & POLYMERS MICROMACHINING MARKET BY  
REGION, 2016 - 2019, USD MILLION

TABLE 20 GLOBAL PLASTICS & POLYMERS MICROMACHINING MARKET BY

REGION, 2020 - 2026, USD MILLION

TABLE 21 GLOBAL POWER & ENERGY MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 22 GLOBAL POWER & ENERGY MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 23 GLOBAL OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 24 GLOBAL OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 25 GLOBAL MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 26 GLOBAL MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 27 GLOBAL MICROMACHINING NON-TRADITIONAL MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 28 GLOBAL MICROMACHINING NON-TRADITIONAL MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 29 GLOBAL MICROMACHINING TRADITIONAL MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 30 GLOBAL MICROMACHINING TRADITIONAL MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 31 GLOBAL MICROMACHINING HYBRID MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 32 GLOBAL MICROMACHINING HYBRID MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 33 GLOBAL MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 34 GLOBAL MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 35 GLOBAL SUBTRACTIVE MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 36 GLOBAL SUBTRACTIVE MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 37 GLOBAL ADDITIVE & OTHERS MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 38 GLOBAL ADDITIVE & OTHERS MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 39 GLOBAL MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 40 GLOBAL MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 41 GLOBAL 3-AXIS MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 42 GLOBAL 3-AXIS MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 43 GLOBAL 4-AXIS MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 44 GLOBAL 4-AXIS MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 45 GLOBAL 5-AXIS MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 46 GLOBAL 5-AXIS MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 47 GLOBAL MICROMACHINING MARKET BY REGION, 2016 - 2019, USD MILLION

TABLE 48 GLOBAL MICROMACHINING MARKET BY REGION, 2020 - 2026, USD MILLION

TABLE 49 NORTH AMERICA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 50 NORTH AMERICA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 51 NORTH AMERICA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 52 NORTH AMERICA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 53 NORTH AMERICA AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 54 NORTH AMERICA AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 55 NORTH AMERICA SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 56 NORTH AMERICA SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 57 NORTH AMERICA HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 58 NORTH AMERICA HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 59 NORTH AMERICA AEROSPACE & DEFENSE MICROMACHINING

MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 60 NORTH AMERICA AEROSPACE & DEFENSE MICROMACHINING

MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 61 NORTH AMERICA TELECOMMUNICATIONS MICROMACHINING

MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 62 NORTH AMERICA TELECOMMUNICATIONS MICROMACHINING

MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 63 NORTH AMERICA PLASTICS & POLYMERS MICROMACHINING MARKET  
BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 64 NORTH AMERICA PLASTICS & POLYMERS MICROMACHINING MARKET  
BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 65 NORTH AMERICA POWER & ENERGY MICROMACHINING MARKET BY  
COUNTRY, 2016 - 2019, USD MILLION

TABLE 66 NORTH AMERICA POWER & ENERGY MICROMACHINING MARKET BY  
COUNTRY, 2020 - 2026, USD MILLION

TABLE 67 NORTH AMERICA OTHER INDUSTRY VERTICAL MICROMACHINING  
MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 68 NORTH AMERICA OTHER INDUSTRY VERTICAL MICROMACHINING  
MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 69 NORTH AMERICA MICROMACHINING MARKET BY TYPE, 2016 - 2019,  
USD MILLION

TABLE 70 NORTH AMERICA MICROMACHINING MARKET BY TYPE, 2020 - 2026,  
USD MILLION

TABLE 71 NORTH AMERICA MICROMACHINING NON-TRADITIONAL MARKET BY  
COUNTRY, 2016 - 2019, USD MILLION

TABLE 72 NORTH AMERICA MICROMACHINING NON-TRADITIONAL MARKET BY  
COUNTRY, 2020 - 2026, USD MILLION

TABLE 73 NORTH AMERICA MICROMACHINING TRADITIONAL MARKET BY  
COUNTRY, 2016 - 2019, USD MILLION

TABLE 74 NORTH AMERICA MICROMACHINING TRADITIONAL MARKET BY  
COUNTRY, 2020 - 2026, USD MILLION

TABLE 75 NORTH AMERICA MICROMACHINING HYBRID MARKET BY COUNTRY,  
2016 - 2019, USD MILLION

TABLE 76 NORTH AMERICA MICROMACHINING HYBRID MARKET BY COUNTRY,  
2020 - 2026, USD MILLION

TABLE 77 NORTH AMERICA MICROMACHINING MARKET BY PROCESS, 2016 -  
2019, USD MILLION

TABLE 78 NORTH AMERICA MICROMACHINING MARKET BY PROCESS, 2020 -  
2026, USD MILLION

TABLE 79 NORTH AMERICA SUBTRACTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 80 NORTH AMERICA SUBTRACTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 81 NORTH AMERICA ADDITIVE & OTHERS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 82 NORTH AMERICA ADDITIVE & OTHERS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 83 NORTH AMERICA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 84 NORTH AMERICA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 85 NORTH AMERICA 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 86 NORTH AMERICA 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 87 NORTH AMERICA 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 88 NORTH AMERICA 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 89 NORTH AMERICA 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 90 NORTH AMERICA 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 91 NORTH AMERICA MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 92 NORTH AMERICA MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 93 US MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 94 US MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 95 US MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 96 US MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 97 US MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 98 US MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 99 US MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 100 US MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD



MILLION

TABLE 101 US MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 102 US MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 103 CANADA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 104 CANADA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 105 CANADA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 106 CANADA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 107 CANADA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 108 CANADA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 109 CANADA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 110 CANADA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 111 CANADA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 112 CANADA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 113 MEXICO MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 114 MEXICO MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 115 MEXICO MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 116 MEXICO MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 117 MEXICO MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 118 MEXICO MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 119 MEXICO MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 120 MEXICO MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 121 MEXICO MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 122 MEXICO MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 123 REST OF NORTH AMERICA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 124 REST OF NORTH AMERICA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 125 REST OF NORTH AMERICA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 126 REST OF NORTH AMERICA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 127 REST OF NORTH AMERICA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 128 REST OF NORTH AMERICA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 129 REST OF NORTH AMERICA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 130 REST OF NORTH AMERICA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 131 REST OF NORTH AMERICA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 132 REST OF NORTH AMERICA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 133 EUROPE MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 134 EUROPE MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 135 EUROPE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 136 EUROPE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 137 EUROPE AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 138 EUROPE AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 139 EUROPE SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 140 EUROPE SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 141 EUROPE HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 142 EUROPE HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 143 EUROPE AEROSPACE & DEFENSE MICROMACHINING MARKET BY



COUNTRY, 2016 - 2019, USD MILLION

TABLE 144 EUROPE AEROSPACE & DEFENSE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 145 EUROPE TELECOMMUNICATIONS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 146 EUROPE TELECOMMUNICATIONS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 147 EUROPE PLASTICS & POLYMERS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 148 EUROPE PLASTICS & POLYMERS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 149 EUROPE POWER & ENERGY MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 150 EUROPE POWER & ENERGY MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 151 EUROPE OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 152 EUROPE OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 153 EUROPE MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 154 EUROPE MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 155 EUROPE MICROMACHINING NON-TRADITIONAL MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 156 EUROPE MICROMACHINING NON-TRADITIONAL MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 157 EUROPE MICROMACHINING TRADITIONAL MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 158 EUROPE MICROMACHINING TRADITIONAL MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 159 EUROPE MICROMACHINING HYBRID MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 160 EUROPE MICROMACHINING HYBRID MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 161 EUROPE MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 162 EUROPE MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 163 EUROPE SUBTRACTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 164 EUROPE SUBTRACTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 165 EUROPE ADDITIVE & OTHERS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 166 EUROPE ADDITIVE & OTHERS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 167 EUROPE MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 168 EUROPE MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 169 EUROPE 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 170 EUROPE 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 171 EUROPE 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 172 EUROPE 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 173 EUROPE 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 174 EUROPE 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 175 EUROPE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 176 EUROPE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 177 GERMANY MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 178 GERMANY MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 179 GERMANY MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 180 GERMANY MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 181 GERMANY MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 182 GERMANY MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 183 GERMANY MICROMACHINING MARKET BY PROCESS, 2016 - 2019,

USD MILLION

TABLE 184 GERMANY MICROMACHINING MARKET BY PROCESS, 2020 - 2026,  
USD MILLION

TABLE 185 GERMANY MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD  
MILLION

TABLE 186 GERMANY MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 187 UK MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 188 UK MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 189 UK MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019,  
USD MILLION

TABLE 190 UK MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026,  
USD MILLION

TABLE 191 UK MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 192 UK MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 193 UK MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD  
MILLION

TABLE 194 UK MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD  
MILLION

TABLE 195 UK MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 196 UK MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 197 FRANCE MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 198 FRANCE MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 199 FRANCE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -  
2019, USD MILLION

TABLE 200 FRANCE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 -  
2026, USD MILLION

TABLE 201 FRANCE MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD  
MILLION

TABLE 202 FRANCE MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD  
MILLION

TABLE 203 FRANCE MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD  
MILLION

TABLE 204 FRANCE MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD  
MILLION

TABLE 205 FRANCE MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD  
MILLION

TABLE 206 FRANCE MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 207 RUSSIA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 208 RUSSIA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 209 RUSSIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 210 RUSSIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 211 RUSSIA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 212 RUSSIA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 213 RUSSIA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 214 RUSSIA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 215 RUSSIA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 216 RUSSIA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 217 SPAIN MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 218 SPAIN MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 219 SPAIN MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 220 SPAIN MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 221 SPAIN MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 222 SPAIN MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 223 SPAIN MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 224 SPAIN MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 225 SPAIN MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 226 SPAIN MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 227 ITALY MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 228 ITALY MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 229 ITALY MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -

2019, USD MILLION

TABLE 230 ITALY MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 231 ITALY MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 232 ITALY MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 233 ITALY MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 234 ITALY MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 235 ITALY MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 236 ITALY MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 237 REST OF EUROPE MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 238 REST OF EUROPE MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 239 REST OF EUROPE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 240 REST OF EUROPE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 241 REST OF EUROPE MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 242 REST OF EUROPE MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 243 REST OF EUROPE MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 244 REST OF EUROPE MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 245 REST OF EUROPE MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 246 REST OF EUROPE MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 247 ASIA PACIFIC MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 248 ASIA PACIFIC MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 249 ASIA PACIFIC MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 250 ASIA PACIFIC MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 251 ASIA PACIFIC AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 252 ASIA PACIFIC AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 253 ASIA PACIFIC SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 254 ASIA PACIFIC SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 255 ASIA PACIFIC HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 256 ASIA PACIFIC HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 257 ASIA PACIFIC AEROSPACE & DEFENSE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 258 ASIA PACIFIC AEROSPACE & DEFENSE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 259 ASIA PACIFIC TELECOMMUNICATIONS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 260 ASIA PACIFIC TELECOMMUNICATIONS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 261 ASIA PACIFIC PLASTICS & POLYMERS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 262 ASIA PACIFIC PLASTICS & POLYMERS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 263 ASIA PACIFIC POWER & ENERGY MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 264 ASIA PACIFIC POWER & ENERGY MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 265 ASIA PACIFIC OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 266 ASIA PACIFIC OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 267 ASIA PACIFIC MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 268 ASIA PACIFIC MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 269 ASIA PACIFIC MICROMACHINING NON-TRADITIONAL MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 270 ASIA PACIFIC MICROMACHINING NON-TRADITIONAL MARKET BY



COUNTRY, 2020 - 2026, USD MILLION

TABLE 271 ASIA PACIFIC MICROMACHINING TRADITIONAL MARKET BY  
COUNTRY, 2016 - 2019, USD MILLION

TABLE 272 ASIA PACIFIC MICROMACHINING TRADITIONAL MARKET BY  
COUNTRY, 2020 - 2026, USD MILLION

TABLE 273 ASIA PACIFIC MICROMACHINING HYBRID MARKET BY COUNTRY,  
2016 - 2019, USD MILLION

TABLE 274 ASIA PACIFIC MICROMACHINING HYBRID MARKET BY COUNTRY,  
2020 - 2026, USD MILLION

TABLE 275 ASIA PACIFIC MICROMACHINING MARKET BY PROCESS, 2016 - 2019,  
USD MILLION

TABLE 276 ASIA PACIFIC MICROMACHINING MARKET BY PROCESS, 2020 - 2026,  
USD MILLION

TABLE 277 ASIA PACIFIC SUBTRACTIVE MICROMACHINING MARKET BY  
COUNTRY, 2016 - 2019, USD MILLION

TABLE 278 ASIA PACIFIC SUBTRACTIVE MICROMACHINING MARKET BY  
COUNTRY, 2020 - 2026, USD MILLION

TABLE 279 ASIA PACIFIC ADDITIVE & OTHERS MICROMACHINING MARKET BY  
COUNTRY, 2016 - 2019, USD MILLION

TABLE 280 ASIA PACIFIC ADDITIVE & OTHERS MICROMACHINING MARKET BY  
COUNTRY, 2020 - 2026, USD MILLION

TABLE 281 ASIA PACIFIC MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD  
MILLION

TABLE 282 ASIA PACIFIC MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 283 ASIA PACIFIC 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2016  
- 2019, USD MILLION

TABLE 284 ASIA PACIFIC 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2020  
- 2026, USD MILLION

TABLE 285 ASIA PACIFIC 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2016  
- 2019, USD MILLION

TABLE 286 ASIA PACIFIC 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2020  
- 2026, USD MILLION

TABLE 287 ASIA PACIFIC 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2016  
- 2019, USD MILLION

TABLE 288 ASIA PACIFIC 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2020  
- 2026, USD MILLION

TABLE 289 ASIA PACIFIC MICROMACHINING MARKET BY COUNTRY, 2016 - 2019,  
USD MILLION

TABLE 290 ASIA PACIFIC MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 291 CHINA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 292 CHINA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 293 CHINA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 294 CHINA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 295 CHINA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 296 CHINA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 297 CHINA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 298 CHINA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 299 CHINA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 300 CHINA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 301 JAPAN MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 302 JAPAN MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 303 JAPAN MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 304 JAPAN MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 305 JAPAN MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 306 JAPAN MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 307 JAPAN MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 308 JAPAN MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 309 JAPAN MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 310 INDIA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 311 INDIA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 312 INDIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -



2019, USD MILLION

TABLE 313 INDIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 314 INDIA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 315 INDIA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 316 INDIA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 317 INDIA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 318 INDIA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 319 INDIA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 320 SOUTH KOREA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 321 SOUTH KOREA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 322 SOUTH KOREA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 323 SOUTH KOREA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 324 SOUTH KOREA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 325 SOUTH KOREA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 326 SOUTH KOREA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 327 SOUTH KOREA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 328 SOUTH KOREA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 329 SOUTH KOREA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 330 SINGAPORE MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 331 SINGAPORE MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 332 SINGAPORE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 333 SINGAPORE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 334 SINGAPORE MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 335 SINGAPORE MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 336 SINGAPORE MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 337 SINGAPORE MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 338 SINGAPORE MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 339 SINGAPORE MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 340 MALAYSIA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 341 MALAYSIA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 342 MALAYSIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 343 MALAYSIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 344 MALAYSIA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 345 MALAYSIA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 346 MALAYSIA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 347 MALAYSIA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 348 MALAYSIA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 349 MALAYSIA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 350 REST OF ASIA PACIFIC MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 351 REST OF ASIA PACIFIC MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 352 REST OF ASIA PACIFIC MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 353 REST OF ASIA PACIFIC MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 354 REST OF ASIA PACIFIC MICROMACHINING MARKET BY TYPE, 2016 -

2019, USD MILLION

TABLE 355 REST OF ASIA PACIFIC MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 356 REST OF ASIA PACIFIC MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 357 REST OF ASIA PACIFIC MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 358 REST OF ASIA PACIFIC MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 359 REST OF ASIA PACIFIC MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 360 LAMEA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 361 LAMEA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 362 LAMEA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 363 LAMEA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 364 LAMEA AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 365 LAMEA AUTOMOTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 366 LAMEA SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 367 LAMEA SEMICONDUCTORS & ELECTRONICS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 368 LAMEA HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 369 LAMEA HEALTHCARE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 370 LAMEA AEROSPACE & DEFENSE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 371 LAMEA AEROSPACE & DEFENSE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 372 LAMEA TELECOMMUNICATIONS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 373 LAMEA TELECOMMUNICATIONS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 374 LAMEA PLASTICS & POLYMERS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 375 LAMEA PLASTICS & POLYMERS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 376 LAMEA POWER & ENERGY MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 377 LAMEA POWER & ENERGY MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 378 LAMEA OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 379 LAMEA OTHER INDUSTRY VERTICAL MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 380 LAMEA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 381 LAMEA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 382 LAMEA MICROMACHINING NON-TRADITIONAL MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 383 LAMEA MICROMACHINING NON-TRADITIONAL MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 384 LAMEA MICROMACHINING TRADITIONAL MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 385 LAMEA MICROMACHINING TRADITIONAL MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 386 LAMEA MICROMACHINING HYBRID MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 387 LAMEA MICROMACHINING HYBRID MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 388 LAMEA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 389 LAMEA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 390 LAMEA SUBTRACTIVE MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 391 LAMEA SUBTRACTIVE MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 392 LAMEA ADDITIVE & OTHERS MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 393 LAMEA ADDITIVE & OTHERS MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 394 LAMEA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD

MILLION

TABLE 395 LAMEA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 396 LAMEA 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 -  
2019, USD MILLION

TABLE 397 LAMEA 3-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 -  
2026, USD MILLION

TABLE 398 LAMEA 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 -  
2019, USD MILLION

TABLE 399 LAMEA 4-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 -  
2026, USD MILLION

TABLE 400 LAMEA 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2016 -  
2019, USD MILLION

TABLE 401 LAMEA 5-AXIS MICROMACHINING MARKET BY COUNTRY, 2020 -  
2026, USD MILLION

TABLE 402 LAMEA MICROMACHINING MARKET BY COUNTRY, 2016 - 2019, USD  
MILLION

TABLE 403 LAMEA MICROMACHINING MARKET BY COUNTRY, 2020 - 2026, USD  
MILLION

TABLE 404 BRAZIL MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 405 BRAZIL MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 406 BRAZIL MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -  
2019, USD MILLION

TABLE 407 BRAZIL MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 -  
2026, USD MILLION

TABLE 408 BRAZIL MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD  
MILLION

TABLE 409 BRAZIL MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD  
MILLION

TABLE 410 BRAZIL MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD  
MILLION

TABLE 411 BRAZIL MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD  
MILLION

TABLE 412 BRAZIL MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD  
MILLION

TABLE 413 BRAZIL MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 414 ARGENTINA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 415 ARGENTINA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 416 ARGENTINA MICROMACHINING MARKET BY INDUSTRY VERTICAL,  
2016 - 2019, USD MILLION

TABLE 417 ARGENTINA MICROMACHINING MARKET BY INDUSTRY VERTICAL,  
2020 - 2026, USD MILLION

TABLE 418 ARGENTINA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD  
MILLION

TABLE 419 ARGENTINA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD  
MILLION

TABLE 420 ARGENTINA MICROMACHINING MARKET BY PROCESS, 2016 - 2019,  
USD MILLION

TABLE 421 ARGENTINA MICROMACHINING MARKET BY PROCESS, 2020 - 2026,  
USD MILLION

TABLE 422 ARGENTINA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD  
MILLION

TABLE 423 ARGENTINA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 424 UAE MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 425 UAE MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 426 UAE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -  
2019, USD MILLION

TABLE 427 UAE MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 -  
2026, USD MILLION

TABLE 428 UAE MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 429 UAE MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 430 UAE MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD  
MILLION

TABLE 431 UAE MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD  
MILLION

TABLE 432 UAE MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 433 UAE MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 434 SAUDI ARABIA MICROMACHINING MARKET, 2016 - 2019, USD  
MILLION

TABLE 435 SAUDI ARABIA MICROMACHINING MARKET, 2020 - 2026, USD  
MILLION

TABLE 436 SAUDI ARABIA MICROMACHINING MARKET BY INDUSTRY VERTICAL,  
2016 - 2019, USD MILLION

TABLE 437 SAUDI ARABIA MICROMACHINING MARKET BY INDUSTRY VERTICAL,  
2020 - 2026, USD MILLION

TABLE 438 SAUDI ARABIA MICROMACHINING MARKET BY TYPE, 2016 - 2019,



USD MILLION

TABLE 439 SAUDI ARABIA MICROMACHINING MARKET BY TYPE, 2020 - 2026,  
USD MILLION

TABLE 440 SAUDI ARABIA MICROMACHINING MARKET BY PROCESS, 2016 -  
2019, USD MILLION

TABLE 441 SAUDI ARABIA MICROMACHINING MARKET BY PROCESS, 2020 -  
2026, USD MILLION

TABLE 442 SAUDI ARABIA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD  
MILLION

TABLE 443 SAUDI ARABIA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD  
MILLION

TABLE 444 SOUTH AFRICA MICROMACHINING MARKET, 2016 - 2019, USD  
MILLION

TABLE 445 SOUTH AFRICA MICROMACHINING MARKET, 2020 - 2026, USD  
MILLION

TABLE 446 SOUTH AFRICA MICROMACHINING MARKET BY INDUSTRY  
VERTICAL, 2016 - 2019, USD MILLION

TABLE 447 SOUTH AFRICA MICROMACHINING MARKET BY INDUSTRY  
VERTICAL, 2020 - 2026, USD MILLION

TABLE 448 SOUTH AFRICA MICROMACHINING MARKET BY TYPE, 2016 - 2019,  
USD MILLION

TABLE 449 SOUTH AFRICA MICROMACHINING MARKET BY TYPE, 2020 - 2026,  
USD MILLION

TABLE 450 SOUTH AFRICA MICROMACHINING MARKET BY PROCESS, 2016 -  
2019, USD MILLION

TABLE 451 SOUTH AFRICA MICROMACHINING MARKET BY PROCESS, 2020 -  
2026, USD MILLION

TABLE 452 SOUTH AFRICA MICROMACHINING MARKET BY AXIS, 2016 - 2019,  
USD MILLION

TABLE 453 SOUTH AFRICA MICROMACHINING MARKET BY AXIS, 2020 - 2026,  
USD MILLION

TABLE 454 NIGERIA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 455 NIGERIA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 456 NIGERIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 -  
2019, USD MILLION

TABLE 457 NIGERIA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 -  
2026, USD MILLION

TABLE 458 NIGERIA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD  
MILLION

TABLE 459 NIGERIA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 460 NIGERIA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 461 NIGERIA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 462 NIGERIA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 463 NIGERIA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 464 REST OF LAMEA MICROMACHINING MARKET, 2016 - 2019, USD MILLION

TABLE 465 REST OF LAMEA MICROMACHINING MARKET, 2020 - 2026, USD MILLION

TABLE 466 REST OF LAMEA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2016 - 2019, USD MILLION

TABLE 467 REST OF LAMEA MICROMACHINING MARKET BY INDUSTRY VERTICAL, 2020 - 2026, USD MILLION

TABLE 468 REST OF LAMEA MICROMACHINING MARKET BY TYPE, 2016 - 2019, USD MILLION

TABLE 469 REST OF LAMEA MICROMACHINING MARKET BY TYPE, 2020 - 2026, USD MILLION

TABLE 470 REST OF LAMEA MICROMACHINING MARKET BY PROCESS, 2016 - 2019, USD MILLION

TABLE 471 REST OF LAMEA MICROMACHINING MARKET BY PROCESS, 2020 - 2026, USD MILLION

TABLE 472 REST OF LAMEA MICROMACHINING MARKET BY AXIS, 2016 - 2019, USD MILLION

TABLE 473 REST OF LAMEA MICROMACHINING MARKET BY AXIS, 2020 - 2026, USD MILLION

TABLE 474 KEY INFORMATION – MKS INSTRUMENTS, INC.

TABLE 475 KEY INFORMATION – MITSUBISHI HEAVY INDUSTRIES LTD.

TABLE 476 KEY INFORMATION – LUMENTUM HOLDINGS, INC.

TABLE 477 KEY INFORMATION – IPG PHOTONICS CORPORATION

TABLE 478 KEY INFORMATION – GEORG FISCHER LTD.

TABLE 479 KEY INFORMATION – COHERENT, INC.

TABLE 480 KEY INFORMATION – OXFORD LASERS LTD.

TABLE 481 KEY INFORMATION – MAKINO MILLING MACHINE CO., LTD.

TABLE 482 KEY INFORMATION – HAN'S LASER TECHNOLOGY INDUSTRY



GROUP CO., LTD.

TABLE 483 KEY INFORMATION – HERAEUS HOLDING GMBH

## List Of Figures

### LIST OF FIGURES

FIG 1 METHODOLOGY FOR THE RESEARCH

FIG 2 KBV CARDINAL MATRIX

FIG 3 KEY LEADING STRATEGIES: PERCENTAGE DISTRIBUTION (2016-2020)

FIG 4 KEY STRATEGIC MOVE: (PRODUCT LAUNCHES AND PRODUCT  
EXPANSIONS : 2018, JAN – 2020, JUN) LEADING PLAYERS

FIG 5 RECENT STRATEGIES AND DEVELOPMENTS: MKS INSTRUMENTS, INC.

FIG 6 RECENT STRATEGIES AND DEVELOPMENTS: IPG PHOTONICS  
CORPORATION

FIG 7 RECENT STRATEGIES AND DEVELOPMENTS: GEORG FISCHER LTD.

FIG 8 RECENT STRATEGIES AND DEVELOPMENTS: COHERENT, INC.

FIG 9 RECENT STRATEGIES AND DEVELOPMENTS: MAKINO MILLING MACHINE  
CO., LTD.

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