

# **MEMS Inkjet Heads: Market Research Report**

<https://marketpublishers.com/r/M3C39162422EN.html>

Date: December 2018

Pages: 220

Price: US\$ 5,600.00 (Single User License)

ID: M3C39162422EN

## **Abstracts**

This report analyzes the worldwide markets for MEMS InkJet Heads in US\$ Thousand by the following End-Use Categories: Consumer Applications, Commercial & Industrial Applications, and Others. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America.

Annual estimates and forecasts are provided for the period 2016 through 2024.

Also, a five-year historic analysis is provided for these markets.

Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs.

The report profiles 23 companies including many key and niche players such as -

Canon, Inc.

Eastman Kodak Company

FUJIFILM Dimatix, Inc.

FUNAI Electric Co., Ltd.

HP Development Company, L.P.

Konica Minolta, Inc.

## Contents

### I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

### II. EXECUTIVE SUMMARY

#### 1. INDUSTRY OVERVIEW

MEMS Inkjet Print Heads: Enabling Enhanced Quality, Speed, Durability, Cost-Effectiveness and Flexibility in Digital Printing

US Dominates MEMS Inkjet Heads Market, while Asia-Pacific Spearheads Growth

**Table 1.** Global MEMS Inkjet Heads Market - Growth Potential by Region (2016-2024): Percentage Growth of Value Sales for Asia-Pacific, Latin America, Middle East & Africa, Europe, Canada, US and Japan (includes corresponding Graph/Chart)

Consumer Applications Dominate, Underpenetrated Commercial & Industrial Applications to Offer Growth Potential

Thermal MEMS Inkjet Heads Continue to Lead

Myriad Applications & Economic Benefits Drive Market Adoption

Key Inkjet Printing Applications: List of Applications in Various End-use Categories

Major Benefits of Inkjet Technology in a Nutshell

Benefits of Inkjet Technology for PCB Processing

MEMS Inkjet Print Heads Revolutionize the Digital Printing Landscape

MEMS Technology: Powering Fabrication of Miniature Devices

Despite Losing Share in the Overall MEMS Market, Newer Applications Continue to Sustain Growth in the Near Term

**Table 2.** Global MEMS Market by Segment (2016 & 2020P): Percentage Breakdown of Value Sales for Accelerometers, Digital Compass, Gyroscopes, Inertial Combos, Inkjet Heads, Microphones, Pressure Sensors, RF MEMS, and Others (includes

corresponding Graph/Chart)

Increasing Adoption of Print Heads in Digital Textile Printing Industry: A Strong Growth Driver

Major Inkjet Technologies in Textile Printing

CIJ Systems

DoD Systems

Growing Prominence of Inkjet Printheads in Printed Electronics Benefit Market Expansion

Growing Demand for POD Services – An Opportunity for MEMS Inkjet Heads Market

Surging Demand for Piezo Inkjet Print Heads Lends Traction to Market Growth

Si MEMS Printheads Gains Popularity for Creating Industrial Piezo Printheads

Replacement of Disposable Inkjet Heads with Non-Disposable Inkjet Heads Augurs Well for the Market

Key Challenges Hampering Widespread Adoption

Inability to Replace Existing Process: A Major Hindrance

## **2. COMPETITIVE LANDSCAPE**

MEMS Inkjet Heads Market: A Intensely Competitive Marketplace

**Table 3.** Leading MEMS Inkjet Printhead Companies Worldwide (2016): Percentage Breakdown of Value Sales for Canon, Epson, Fujifilm Dimatix, Funai, HP and Others (includes corresponding Graph/Chart)

Samsung Display Company Files Patent Application for Inkjet Print Head

## **3. TECHNOLOGY INNOVATIONS & ADVANCEMENTS**

Waterfall Printhead Technology Based Memjet Heads: The Next Big Thing

High Definition Nozzle Architecture (HDNA) Platform for Industrial Markets

Samba Printhead for Higher Accuracy & High Productivity

## **3D PRINTING THROUGH MULTI JET FUSION TECHNOLOGY: OFFERING LIMITLESS POTENTIAL**

Sol-Gel PZT for Fabricating PZT Films: Efficient Materials Usage & Wastage Reduction

PrecisionCore Technology: Enabling Significant Increase in Output Quality & Speed

Si-MEMS-Based InkJet Printheads Offer Excellent Reliability and Performance  
Thin-Film Actuators for High-Resolution and High-Speed Inkjet Printers  
LEM Model Enables Performance Analysis of DoD Print Heads for Printable Electronics Fabrication  
PICOPLATFORM Technology: Enabling Cost-Effective MEMS Manufacturing  
PZT Sputtering Technology for Mass Production of MEMS InkJet Heads  
Other Recent Notable Inkjet Print Head Innovations  
Researchers Address Erratic Break-Off of the Ink

#### **4. PRODUCT OVERVIEW**

Micro-Electro-Mechanical Systems (MEMS) Devices  
Evolution of the Inkjet Technology  
An Introduction to Inkjet Heads  
Ink Chemistry and Formulations: An Important Facet of Print Head Design  
Nozzle: A Vital Component of Print Head Design  
Techniques to Manufacture MEMS Parts of an Inkjet Head  
Disposable and Non-Disposable Inkjet Heads  
Non-Disposable Inkjet Heads  
Disposable Inkjet Heads  
Inkjet Head Ejection Technologies  
Continuous Inkjet Technology  
Binary and Multiple Deflection Systems  
Drop-On-Demand (DOD) Inkjet Technology  
Thermal Drop-On-Demand (DOD) Inkjet Heads  
Functional Mechanism of the Thermal Inkjet Head  
Advantages and Disadvantages of Thermal DOD Inkjet Heads  
Advantages of Thermal Inkjet  
Electrostatic DOD Inkjet Heads  
Piezoelectric DOD Inkjet Heads  
Mechanism of Drying Ink by Printhead Type  
Binary and Greyscale Print Heads  
Other Modes of Printing  
Kodak Stream  
Silverbrook

#### **5. PRODUCT INTRODUCTIONS/INNOVATIONS**

Memjet Unveils DuraLink Inkjet Printhead Technology

FUJIFILM Dimatix Rolls Out Samba Printhead Portfolio  
Meyer Burger Rolls Out JETx Range of Functional Inkjet Production Tools  
Xaar Launches Xaar 5601 Range of High Resolution Inkjet Printheads  
Ricoh Develops New Inkjet Print Head for Industrial Applications  
Konica Minolta to Showcase MEMS Inkjet Printheads  
Xaar Launches Xaar 1003 Family of Printheads  
Xaar Unveils Xaar 1002 GS40 Printhead for UV applications  
Xaar Introduces New Range of Piezoelectric Printheads  
Kyocera to Launch New Printhead for Digital Textile Printing  
Kyocera Develops Kyocera KJ4B-0150 Printhead  
Toshiba TEC Rolls Out CF1XL large Drop-Volume Inkjet Head  
Kyocera Develops Kyocera KJ4C-0360 Inkjet Printhead  
Konica Minolta Introduces Three New Industrial Inkjet Printheads  
Xaar Releases Xaar 1002 GS12U Printhead  
FUJIFILM Dimatix Showcases Samba Printhead

## **6. RECENT INDUSTRY ACTIVITY**

XAAR Takes Over Engineered Printing Solutions  
Konica Minolta Announces Success Trials for MEMS Printheads  
Xaar Forges Partnership with Ricoh  
Akita Epson Constructs New Factory for Inkjet Printhead

## **7. FOCUS ON SELECT MAJOR PLAYERS**

Canon, Inc. (Japan)  
Eastman Kodak Company (USA)  
FUJIFILM Dimatix, Inc. (USA)  
FUNAI Electric Co., Ltd. (Japan)  
HP Development Company, L. P. (USA)  
Konica Minolta, Inc. (Japan)  
Kyocera Corporation (Japan)  
Memjet Technology (USA)  
Ricoh Printing Systems America, Inc. (USA)  
Seiko Epson Corporation (Japan)  
SII Printek Inc. (Japan)  
Toshiba TEC Corporation (Japan)  
Trident Industrial Inkjet (USA)  
Xaar plc (UK)

## 8. GLOBAL MARKET PERSPECTIVE

**Table 4.** World Recent Past, Current & Future Analysis for MEMS Inkjet Heads by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 5.** World Historic Review for MEMS Inkjet Heads by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 6.** World 14-Year Perspective for MEMS Inkjet Heads by Geographic Region - Percentage Breakdown of Revenues for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

**Table 7.** World Recent Past, Current & Future Analysis for MEMS Inkjet Heads in Consumer Applications by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 8.** World Historic Review for MEMS Inkjet Heads in Consumer Applications by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 9.** World 14-Year Perspective for MEMS Inkjet Heads in Consumer Applications by Geographic Region - Percentage Breakdown of Revenues for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

**Table 10.** World Recent Past, Current & Future Analysis for MEMS Inkjet Heads in Commercial & Industrial Applications by Geographic Region - US, Canada, Japan,

Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 11.** World Historic Review for MEMS Inkjet Heads in Commercial & Industrial Applications by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 12.** World 14-Year Perspective for MEMS Inkjet Heads in Commercial & Industrial Applications by Geographic Region - Percentage Breakdown of Revenues for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

**Table 13.** World Recent Past, Current & Future Analysis for MEMS Inkjet Heads in Other Applications by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 14.** World Historic Review for MEMS Inkjet Heads in Other Applications by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 15.** World 14-Year Perspective for MEMS Inkjet Heads in Other Applications by Geographic Region - Percentage Breakdown of Revenues for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa, and Latin America Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

### III. MARKET

#### 1. THE UNITED STATES

##### A. Market Analysis Market Overview



Product Launches  
Strategic Corporate Development  
Select Players  
B. Market Analytics

**Table 16.** US Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 17.** US Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 18.** US 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 2. CANADA

Market Analysis

**Table 19.** Canadian Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 20.** Canadian Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 21.** Canadian 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)



### 3. JAPAN

#### A. Market Analysis

Market Overview

Product Launches

Strategic Corporate Developments

Select Players

#### B. Market Analytics

**Table 22.** Japanese Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 23.** Japanese Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 24.** Japanese 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

### 4. EUROPE

#### A. Market Analysis

Europe: MEMS & Power Electronics Research and Design Powerhouse of the World

#### B. Market Analytics

**Table 25.** European Recent Past, Current & Future Analysis for MEMS Inkjet Heads by Geographic Region - France, Germany, Italy, UK, Spain, Russia, and Rest of Europe Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 26.** European Historic Review for MEMS Inkjet Heads by Geographic Region - France, Germany, Italy, UK, Spain, Russia, and Rest of Europe Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015

(includes corresponding Graph/Chart)

**Table 27.** European 14-Year Perspective for MEMS Inkjet Heads by Geographic Region - Percentage Breakdown of Revenues for France, Germany, Italy, UK, Spain, Russia, and Rest of Europe Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

**Table 28.** European Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 29.** European Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 30.** European 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

#### **4A. FRANCE**

##### Market Analysis

**Table 31.** French Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 32.** French Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 33.** French 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 4B. GERMANY

- A. Market Analysis
  - Current & Future Analysis
  - Product Launch
- B. Market Analytics

**Table 34.** German Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 35.** German Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 36.** German 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 4C. ITALY

- A. Market Analysis
  - Current and Future Analysis
- B. Market Analytics

**Table 37.** Italian Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 38.** Italian Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 39.** Italian 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

#### **4D. THE UNITED KINGDOM**

A. Market Analysis

Current & Future Analysis

Strategic Corporate Developments

Xaar plc – A Major UK-Based Company

B. Market Analytics

**Table 40.** UK Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 41.** UK Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 42.** UK 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

#### **4E. SPAIN**

Market Analysis

**Table 43.** Spanish Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 44.** Spanish Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with

Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 45.** Spanish 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

#### **4F. RUSSIA**

Market Analysis

**Table 46.** Russian Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 47.** Russian Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 48.** Russian 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

#### **4G. REST OF EUROPE**

A. Market Analysis  
Current and Future Analysis  
Product Launch  
B. Market Analytics

**Table 49.** Rest of European Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 50.** Rest of European Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 51.** Rest of European 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 5. ASIA-PACIFIC

### A. Market Analysis

Asia-Pacific: A Potential Laden Market

Taiwan: A Major Producer of Inkjet Heads

### B. Market Analytics

**Table 52.** Asia-Pacific Recent Past, Current & Future Analysis for MEMS Inkjet Heads by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 53.** Asia-Pacific Historic Review for MEMS Inkjet Heads by Geographic Region - China, India and Rest of Asia-Pacific Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 54.** Asia-Pacific 14-Year Perspective for MEMS Inkjet Heads by Geographic Region - Percentage Breakdown of Revenues for China, India and Rest of Asia-Pacific Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

**Table 55.** Asia-Pacific Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 56.** Asia-Pacific Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes

corresponding Graph/Chart)

**Table 57.** Asia-Pacific 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 5A. CHINA

Market Analysis

**Table 58.** Chinese Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 59.** Chinese Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 60.** Chinese 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 5B. INDIA

Market Analysis

**Table 61.** Indian Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 62.** Indian Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)



**Table 63.** Indian 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 5C. REST OF ASIA-PACIFIC

### Market Analysis

**Table 64.** Rest of Asia-Pacific Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 65.** Rest of Asia-Pacific Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 66.** Rest of Asia-Pacific 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 6. MIDDLE EAST & AFRICA

### Market Analysis

**Table 67.** Middle East & Africa Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 68.** Middle East & Africa Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 69.** Middle East & Africa 14-Year Perspective for MEMS Inkjet Heads by End-Use

Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 7. LATIN AMERICA

### Market Analysis

**Table 70.** Latin American Recent Past, Current & Future Analysis for MEMS Inkjet Heads by Geographic Region - Brazil and Rest of Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 71.** Latin American Historic Review for MEMS Inkjet Heads by Geographic Region - Brazil and Rest of Latin America Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 72.** Latin American 14-Year Perspective for MEMS Inkjet Heads by Geographic Region - Percentage Breakdown of Revenues for Brazil and Rest of Latin America Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

**Table 73.** Latin American Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 74.** Latin American Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 75.** Latin American 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## 7A. BRAZIL

### Market Analysis

**Table 76.** Brazilian Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 77.** Brazilian Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 78.** Brazilian 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## **7B. REST OF LATIN AMERICA**

### Market Analysis

**Table 79.** Rest of Latin American Recent Past, Current & Future Analysis for MEMS Inkjet Heads by End-use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 80.** Rest of Latin American Historic Review for MEMS Inkjet Heads by End-Use Market - Consumer, Commercial & Industrial, and Others Markets Independently Analyzed with Annual Revenue Figures in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 81.** Rest of Latin American 14-Year Perspective for MEMS Inkjet Heads by End-Use Market - Percentage Breakdown of Revenues for Consumer, Commercial & Industrial, and Others Markets for Years 2011, 2017 & 2024 (includes corresponding Graph/Chart)

## **IV. COMPETITIVE LANDSCAPE**

Total Companies Profiled: 23 (including Divisions/Subsidiaries - 27)

The United States (12)

Japan (9)

Europe (4)

    The United Kingdom (3)

    Rest of Europe (1)

Asia-Pacific (Excluding Japan) (2)

## I would like to order

Product name: MEMS Inkjet Heads: Market Research Report

Product link: <https://marketpublishers.com/r/M3C39162422EN.html>

Price: US\$ 5,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M3C39162422EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970