

# Grinding Machines: Market Research Report

<https://marketpublishers.com/r/G7ED3AF80EN.html>

Date: January 2019

Pages: 483

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

ID: G7ED3AF80EN

## Abstracts

This report analyzes the worldwide markets for Grinding Machines in US\$ by the following Product Segments: Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Others. The US market is further analyzed by the following End-Use Sectors: Job Shops, Automotive, Aerospace & Defense, Heavy Industries, 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 258 companies including many key and niche players such as -

3M Company

Amada Co, Ltd.

ANCA Pty. Ltd.

C & B Machinery

Danobat Group

Delapena Honing Equipment Ltd.



## Contents

### 1. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations  
Data Interpretation & Reporting Level  
Quantitative Techniques & Analytics  
Product Definitions and Scope of Study

### 2. INDUSTRY OVERVIEW

Grinding Machines: Delivering Ever Increasing Levels of Dimensional Accuracy, Unimaginable Tolerance Levels, and High Precision  
The Indispensable Role of Grinding Machines in Industrial Applications: Foundation for Market Growth  
Materials, Process Kinematics, and Wheel Speeds  
Adaptive Control Bring Great Improvements in Removal Rates  
Critical Role of Grinding Fuels  
Growing Preference for Super-Abrasives Wheels, CBN and Diamond  
Increasing Integration of Artificial Intelligence (AI) in Grinding Systems  
Market Fortunes Intrinsically Linked to the Machine Tools Industry  
Key Growth Drivers Summarized  
Technology Refinements Boost Demand for Numerical Control (NC) Machine Tools  
Advent of 3D-Printing Machines Marks the Emergence of Next Generation Machine Tools  
Steady Growth Anticipated for Multitasking Machine Tools  
Smart Machines Surge in Popularity  
Robotic-Assisted Technology and Automation Spurs Growth

**Table 1.** Global Machine Tools Sales (US\$ Million): 2018, 2020, and 2022 (includes corresponding Graph/Chart)

Global Market Outlook

Continued Recovery in Global GDP & Manufacturing PMI Supports Growth Momentum

**Table 2.** World Real GDP Growth Rates (%) by Country/Region for the Years 2014 to 2019 (includes corresponding Graph/Chart)

**Table 3.** World Real GDP Compounded Average Annual Growth Rates (%) for 2000-2016 and 2016-2025 by Region/Country (includes corresponding Graph/Chart)

**Table 4.** Global Manufacturing Purchasing Managers' Index (PMI) for the Years 2010 through 1H2018 (includes corresponding Graph/Chart)

Despite Slowdown in Economic Growth, China Continues to Dominate Global Sales of Grinding Machines

### **3. MARKET TRENDS, ISSUES & DRIVERS**

Launch of Revolutionary Grinding Platforms and Solutions for Industry 4. 0/Smart Factory Drive Healthy Growth in Demand

Digital Smart Grinding Solutions from United Grinding Group

Revolutionary Air-Operated Grinder Integrated with the Novel DIQ Platform Technology ANCA's Robotic Loader and Other Innovations

Robustness, Flexibility, and Numerous Other Benefits Drive Implementation of CNC Grinding Machines in the Metal Casting Industry

Advantages and Disadvantages of CNC Technology

Challenges to Implementing CNC Technology

Future of Automation in CNC Grinding

Multi-Robot Production Cell Technology Opens Up Several Opportunities

Robotics to Emerge as an Intrinsic Part of CNC Grinding Machines

Superior Attributes over Milling and Turning Boosts Demand in Aerospace Engine and Components Manufacturing

Machining Platforms Evolve to Address Specific Needs of the Aerospace Industry

Custom Grinding and Dressing Solutions for Aerospace Parts

HVOF Grinding Approaches

Use of New and Different Materials in Aerospace Building Provide Opportunities

Rise in Aircraft Fleet Drive Long-term Opportunities

**Table 5.** Global Cumulative Commercial Aircraft Deliveries from 2017-2036 (In Units) by Type of Aircraft (includes corresponding Graph/Chart)

**Table 6.** Global Production of Commercial Aircraft (In Units) for the Years 2018, 2020, 2025, 2028, 2030 and 2034 (includes corresponding Graph/Chart)

**Table 7.** Global New Airplanes Demand (in Units) by Geographic Region over the

Period 2016-2036 (includes corresponding Graph/Chart)

Healthy Growth of the Commercial Aviation Sector Signals Opportunities

**Table 8.** Global Commercial Airline Revenues (in US\$ Billion) for the Years 2016, 2018 and 2020 (includes corresponding Graph/Chart)

Surging Popularity of Laser Machines in Handling Tough Tool Grinding Promote Market Adoption

Medical Orthopedic Implants Opens Up New Avenues for Future Growth

CNC Tool Grinders Find Growing Use in Orthopedic Implants Grinding

Increasing Use in Electrical Appliances and Electronics Manufacturing Drive Demand for Die Grinders

Efficiency and Productivity Benefits Drive Demand in the Cement Manufacturing Industry

Increasing Proliferation of Advanced Technologies in Gear Grinding Lends Traction to Market Growth

Solutions to Reduce Noise

Accelerating Grinding Time

Enhanced Polish Grinding

Several Critical Applications in Semiconductor Manufacturing Spurs Demand for Grinding Machines

Growing Demand for New Generation Automobiles Extends Opportunities for Grinding Machines

**Table 9.** Global Production Capacity of the Automobile Industry (In Million Units) by Region for the Years 2017 and 2022 (includes corresponding Graph/Chart)

**Table 10.** Global Automotive Production Statistics: 2011-2017 (in Thousand Units) (includes corresponding Graph/Chart)

Shortage of Skilled Labor is Driving Automation in Grinding Machinery

Automated Grinding and Finishing Technology

Innovative System for Automated Floor Grinding

Robotic Automation and Grinding Machines: Complimentary to Each Other or Substitutes?

Robotic Technology for Efficient High Payload Operations

Growing Share of Renewables Drive Demand for Grinding Machines in Wind Turbines Production

**Table 11.** Global Energy Mix (2017 & 2040): Percentage Breakdown of Cumulative Installed Capacity for Coal, Gas, Hydro, Nuclear, Oil, Onshore Wind, Small-Scale PV, Utility-Scale PV, and Others (includes corresponding Graph/Chart)

**Table 12.** Renewable Power's Share (%) in Global Power Capacity and Global Power Generation: 2007-2017 (includes corresponding Graph/Chart)

Recovery in Construction Activity Worldwide Benefits Market Prospects

**Table 13.** Global Construction Output by Country (2022): Breakdown of Construction Output (US\$ Billion) and Percentage Change over 2018-2022 (includes corresponding Graph/Chart)

**Table 14.** Global Construction Market by Region (2017 & 2020P): Percentage Breakdown of Construction Spending for Asia, Western Europe, North America, Latin America, Eastern Europe, Africa, and Middle East (includes corresponding Graph/Chart)

Asia-Pacific Continues to Dominate the Global Market, Also Offers Significant Growth Opportunities

**Table 15.** Global Grinding Machines Market - Geographic Regions Ranked by CAGR (Value Sales) for 2016-2024: Asia-Pacific, Latin America, Middle East & Africa, Europe, Japan, USA, and Canada (includes corresponding Graph/Chart)

Outsourcing of Manufacturing Activity Boosts Demand for Grinding Machines in Developing Countries

Other Steadily Growing End-Use Markets for Grinding Machines

Job Shops Industry

Heavy Machinery Industry

#### **4. INNOVATIONS & ADVANCEMENTS**

WEINIG Rondamat Range of Universal Grinding Machines  
GrindSmart Grinding Machines for Small and Large Tools  
OD-1524X-CNC OD-Cylindrical Grinder  
Innovative, Dual Spindle Grinding System for Complex OD and ID Grinding  
VGring-360 that Allows Solid Carbide Tools' Multi-Level Machining  
Supertec's Novel Machine Tools and Grinders Range  
Five-Axis Grinding Machinery with Increased Axis Movement  
Helitronic-Power 400 & Helitronic-Power Diamond 400 Systems  
Spiro F12 and Spiro F5  
MEISTER-G3 and GLS-150GL Grinders  
NXT Tool Grinding System  
The Zema Line: Novel Corundum Grinding Systems Range

### **3-IN-1 DIAMOND-GRINDING WHEELS**

VG-110 for Large Scale Internal Out-of-Round Machining Needs  
Innovative Fixture for Shoe-Grinding in Cylindrical Grinding Machines  
Expanded Range of Vertical Clamp Bore Micro-finishing Grinders  
Novel Swing Arm Double Disc Grinder  
Innovative Machines by Thielenhaus Microfinish  
Norton Pneumatic Die Grinder  
Reinvention of Weldon Midas Series  
WireDress Technology for Metal-Bonded Grinding  
Electro-Discharge (EDM) and Electrochemical (ECM) Dressing  
Integrated Dressing with STUDER-WireDress  
No Wear of the Dressing Device  
Integrated Control Unit in the Control System of the Grinding Machine  
MicroStar iQ: A Flat-Finishing Machine that can Self-Regulate  
NUMgrind Software Simplifies Programming of CNC Precision Grinding Machines  
SG 160 SKYGRIND Technology Revolutionizes Gear Grinding Process  
Precision Grinding for Sheet Metal Fine Machining  
Robot-Guided Flexible Deburring  
Lapmaster Wolters' Device for High Quality Profile and Surface Grinding  
Varia: New Improved Universal Cylindrical Grinder  
Double Column Surface Grinding Machine  
High Speed Compact Internal CNC Grinder  
Tiger Ceramic: High Performance Range of Cutting, Grinding, and Combination Wheels  
High Level Cylindrical Grinding Technology  
Optimizing User Profitability

ILD Series of Universal Internal Grinding Machines  
IRD 200 and IRD 400: Radial and Internal Grinding Machines  
Rotary Surface Grinder  
High Performance Precision ID Grinder  
Upgrading of LGG Range of Grinding Machines  
M 18 FUEL ¼” Die Grinder  
GPD Double-Drive CNC Cylindrical Grinders  
4.5 -inch Diamond Grinding Wheel with Long Life  
Dual Station Universal Belt Grinder for Enhanced Grinding  
JUMAT 6S Grinding Machine  
Double Disc Grinding Process for DD-7 Grinders

## **5. PRODUCT OVERVIEW**

Grinding: A Prelude  
Classification of Machine Tools  
Grinding Machines Definition  
Floor Mounted & Bench Type Grinding Machines  
Types of Grinding Machines  
Surface Grinding Machines  
Characteristics of Horizontal Spindle Reciprocating Table Machines  
Characteristics of Vertical Spindle Reciprocating Table Machines  
Characteristics of Horizontal Spindle Rotary Table Machines  
Characteristics of Vertical Spindle Rotary Table Machines  
Cylindrical Grinding Machines  
Centerless Grinding Machines  
Other Grinding Machines  
Utility Grinding Machines  
Bench-mounted Utility Grinding Machines  
Bench-type Drill Grinding Machine  
Bench-type Utility Grinding and Buffing Machine  
Belt Grinder  
Bench Grinder  
Tool and Cutter Grinders  
Bench Type Tool and Cutter Grinder  
Jig Grinder  
Nature of Operation

## **6. COMPETITIVE LANDSCAPE**



Grinding Machines Marketplace: Extremely Consolidated

Competition: Noteworthy Trends

After Sales Customer Service, Training & Support: Important for Success in the Marketplace

Innovative Technologies: Need of the Hour

Cost of the Machinery: A Key Competitive Variable

Customization Gains Momentum

Providing Comprehensive Solutions

Comprehensive Financing

Distribution Structure

6.1 Focus on Select Global Players

### **3M COMPANY (USA)**

Amada Co, Ltd. (Japan)

Amada Machine Tools America, Inc. (USA)

ANCA Pty. Ltd. (Australia)

C & B Machinery (USA)

Danobat Group (Spain)

Delapena Honing Equipment Ltd. (UK)

ELB-SCHLIFF Werkzeugmaschinen GmbH (Germany)

Aba Grinding Technologies GmbH, Aschaffenburg (Germany)

EMAG GmbH & Co. KG (Germany)

Falcon Machine Tools Co., Ltd. (Taiwan)

Chevalier Machinery, Inc. (USA)

Fives Group (France)

Gleason Corporation (USA)

Glebar Co. (USA)

Hardinge, Inc. (USA)

L. KELLENBERGER & Co. AG (Switzerland)

Jones & Shipman Hardinge Limited (UK)

Heinz Berger Maschinenfabrik GmbH & Co. KG (Germany)

HTC Sweden AB (Sweden)

IMT SpA-Stabilimento MORARA – DE. CI. MA (Italy)

JTEKT Corporation (Japan)

JTEKT Toyoda Americas Corporation (USA)

Junker Group (Germany)

Erwin Junker Maschinenfabrik GmbH (Germany)

Kent Industrial Co., Ltd. (Taiwan)  
Komatsu Ltd. (Japan)  
Koyo Machinery USA, Inc. (USA)  
Kunshan Huachen Heavy Machinery Co., Ltd. (China)  
Matrix Machine Tool (Coventry) Limited (UK)  
Mitsubishi Heavy Industries Machine Tool Co., Ltd. (Japan)  
Okamoto Corporation (Japan)  
Okuma Corporation (Japan)  
Pietro Carnaghi Spa (Italy)  
Qinchuan Machine Tool & Tool (Group) Corp. (China)  
Shanghai Machine Tool Works Ltd. (China)  
Shigiya (USA) Ltd.  
Sumitomo Heavy Industries Ltd. (Japan)  
Taiyo Koki Co., Ltd. (Japan)  
Toshiba Machine Co., Ltd. (Japan)  
UNITED GRINDING Group Management AG (Switzerland)  
UNITED GRINDING North America, Inc. (USA)  
UVA LIDKÖPING AB (Sweden)

## 6.2 Product Introductions & Innovations

Jones & Shipman Launches Kellenberger 100 Platform Concept Cylindrical Grinding Machine  
STUDER Launches New Favorit Machine  
Liebherr Launches LGG 400 M Grinding Machine  
Mitsubishi Launches ZE16C and ZE26C Gear Grinding Machines  
DANOBAT Unveils High Technical Added Value Solutions in Grinding  
Nixon Gear Launches Studer S121 Cylindrical Grinder and The Toyoda GL4Ai-50 OD Grinder  
ANCA Launches CPX Linear Grinder  
Dewalt Launches Five Corded Grinders  
C & B Machinery Expands Vertical Clamp Bore Micro-Finishing Grinders  
Chevalier Announces the Availability of FSG-ADIV Series Surface Grinders  
Drake Launches New GS:DS Dual Spindle Grinder  
Chevalier Launches New FDG-700 Double-Sided Grinder  
DANOBAT Unveils IRD-400 Grinding Machine  
CBI Debuts Magnum Force 6800CT Horizontal Grinder  
Sulzer Unveils New Range of Sewage Grinders  
DANOBAT-OVERBECK Launches High Precision Grinding Machines  
Rotochopper Introduces 1000 HP B-66 E Electric-Powered Horizontal Grinder  
HTC Launches New DURATIQ 5 Grinder

Vollmer Launches New CHX 840 Grinding Machine  
Renishaw Launches MP250 Strain Gauge Probing System for Grinders  
DANOBAT Unveils ESTARTA-650 Centerless Grinding Machine  
ANCA Launches TapXmicro Grinding Machine  
Kellenberger Unveils HAUSER 2000 Jig Grinder  
Chevalier Introduces New SMART-818III Grinder  
ANCA Launches FCP4 High Production Drill Grinder  
National Flooring Equipment Launches Helix 406mm Planetary Grinder  
Rodcraft Launches RC7068 Speed Die Grinder, RC7038 Eraser Tool, and Tyre Buffer RC7088  
Lapmaster Wolters Unveils AC Microline 1000-F Fine Grinding Machine  
DANOBAT Unveils Redesigned Machines for Maximum-Precision Grinding and Turning  
WIDMA Launches Ecogrind Crystal  
ANCA Launches New TX7 Spindle Speed Increaser  
Matrix Launches New CNC Gear Grinding Solutions  
6.3 Recent Industry Activity  
Fives Join Forces with Simsa to Create Fives Grinding Mexico  
CCA Hardchrome Purchases Churchill Cylindrical Grinding Machine  
Körber Group Sells the United Grinding Group  
Precision Technologies Purchases Höfler Viper 500K CNC Gear Grinder  
Privet Fund Management Acquires Hardinge  
Precision Surfacing Solutions Acquires REFORM Grinding Technology  
Sulzer to Acquire JWC  
Sematech Selects Okamoto's GDM300 Backgrinder for Processing TSV  
Blue Point Acquires SASE Company  
ANCA Selects Danobat-Overbeck Grinding Machine  
KMT Precision Grinding AB Changes Name to UVA LIDKÖPING AB  
FFG Acquires Meccanodora, Morara and Tacchella  
Husqvarna Acquires the Floor Grinding Solutions Division of HTC Group  
Grind Master Acquires SPMS Europe

## 7. GLOBAL MARKET PERSPECTIVE

**Table 16.** World Recent Past, Current & Future Analysis for Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 17.** World Historic Review for Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 18.** World 14-Year Perspective for Grinding Machines by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 19.** World Recent Past, Current & Future Analysis for Surface Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 20.** World Historic Review for Surface Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 21.** World 14-Year Perspective for Surface Grinding Machines by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 22.** World Recent Past, Current & Future Analysis for Cylindrical Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 23.** World Historic Review for Cylindrical Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 24.** World 14-Year Perspective for Cylindrical Grinding Machines by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years

2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 25.** World Recent Past, Current & Future Analysis for Center-Less Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 26.** World Historic Review for Center-Less Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 27.** World 14-Year Perspective for Center-Less Grinding Machines by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 28.** World Recent Past, Current & Future Analysis for Other Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 29.** World Historic Review for Other Grinding Machines by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 30.** World 14-Year Perspective for Other Grinding Machines by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

## **8. REGIONAL MARKET PERSPECTIVE**

### 8.1 The United States

#### A. Market Analysis

Recovering Domestic Manufacturing Activity Drive Steady Growth in Demand for Grinding Machines

## Shale Gas Revolution Promises to Trigger Manufacturing Renaissance in the US

### B. Market Analytics

#### Analytics by Product Segment

**Table 31.** The US Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 32.** The US Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 33.** The US 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### Analytics by End-Use Sector

**Table 34.** The US Recent Past, Current & Future Analysis for Grinding Machines by End-Use Segment - Job Shops, Automotive, Aerospace & Defense, Heavy Industries and Others Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 35.** The US Historic Review for Grinding Machines by End-Use Segment - Job Shops, Automotive, Aerospace & Defense, Heavy Industries and Others Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 36.** The US 14-Year Perspective for Grinding Machines by End-Use Segment - Percentage Breakdown of Dollar Sales for Job Shops, Automotive, Aerospace & Defense, Heavy Industries and Others Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)



## 8.2 Canada

### Market Analysis

**Table 37.** Canadian Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 38.** Canadian Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 39.** Canadian 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

## 8.3 Japan

### A. Market Analysis

Japan: A Major Industrialized Nation Continue to Sustain Market Growth  
Disaster Recovery Efforts Drive Replacement Demand

### B. Market Analytics

**Table 40.** Japanese Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 41.** Japanese Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 42.** Japanese 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4 Europe

##### A. Market Analysis

Growing Demand from Diverse End-use Industries Benefit Market Growth

##### B. Market Analytics

**Table 43.** European Recent Past, Current & Future Analysis for Grinding Machines by Geographic Region/ Country - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 44.** European Historic Review for Grinding Machines by Geographic Region/Country - France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 45.** European 14-Year Perspective for Grinding Machines by Geographic Region/ Country - Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 46.** European Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 47.** European Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 48.** European 14-Year Perspective for Grinding Machines by Product Segment -



Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.1 France Market Analysis

**Table 49.** French Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 50.** French Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 51.** French 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.2 Germany Market Analysis

**Table 52.** German Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 53.** German Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 54.** German 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.3 Italy Market Analysis

**Table 55.** Italian Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 56.** Italian Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 57.** Italian 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.4 The United Kingdom Market Analysis

**Table 58.** The UK Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 59.** The UK Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 60.** The UK 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.5 Spain Market Analysis

**Table 61.** Spanish Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 62.** Spanish Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 63.** Spanish 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.6 Russia A. Market Analysis Large Oil & Gas Reserves Drive the Need for Fabrication Using Grinders B. Market Analytics

**Table 64.** Russian Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 65.** Russian Historic Review for Grinding Machines by Product Segment -

Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 66.** Russian 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.4.7 Rest of Europe Market Analysis

**Table 67.** Rest of Europe Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 68.** Rest of Europe Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 69.** Rest of Europe 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

### 8.5 Asia-Pacific

#### A. Market Analysis

Robust Pace of Industrialization and Increasing Manufacturing Activity in Asian Countries Offer Significant Growth Opportunities

#### B. Market Analytics

**Table 70.** Asia-Pacific Recent Past, Current & Future Analysis for Grinding Machines by Geographic Region/Country - China, India, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 71.** Asia-Pacific Historic Review for Grinding Machines by Geographic Region/Country - China, India, South Korea, Taiwan and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 72.** Asia-Pacific 14-Year Perspective for Grinding Machines by Geographic Region/Country - Percentage Breakdown of Dollar Sales for China, India, South Korea, Taiwan and Rest of Asia-Pacific Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 73.** Asia-Pacific Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 74.** Asia-Pacific Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 75.** Asia-Pacific 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

### 8.5.1 China

#### A. Market Analysis

Steadily Growing End-Use Sectors Drive Strong Demand for Grinding Machines  
Increasing Automobiles Production Benefits Growth Prospects

**Table 76.** Passenger Cars and Commercial Vehicles Production in China: 2016 & 2017

(includes corresponding Graph/Chart)

The Road Ahead

B. Market Analytics

**Table 77.** Chinese Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 78.** Chinese Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 79.** Chinese 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.5.2 India

A. Market Analysis

Booming Demand from the Expanding Manufacturing Sector Drives Market Growth

B. Market Analytics

**Table 80.** Indian Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 81.** Indian Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)



**Table 82.** Indian 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

### 8.5.3 South Korea Market Analysis

**Table 83.** South Korean Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 84.** South Korean Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 85.** South Korean 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

### 8.5.4 Taiwan Market Analysis

**Table 86.** Taiwanese Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 87.** Taiwanese Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding

Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 88.** Taiwanese 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.5.5 Rest of Asia-Pacific Market Analysis

**Table 89.** Rest of Asia-Pacific Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 90.** Rest of Asia-Pacific Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 91.** Rest of Asia-Pacific 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.6 The Middle East & Africa Market Analysis

**Table 92.** The Middle East & Africa Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through



2024 (includes corresponding Graph/Chart)

**Table 93.** The Middle East & Africa Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 94.** The Middle East & Africa 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

## 8.7 Latin America Market Analysis

**Table 95.** Latin American Recent Past, Current & Future Analysis for Grinding Machines by Geographic Region/Country - Brazil and Rest of Latin America Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 96.** Latin American Historic Review for Grinding Machines by Geographic Region/Country - Brazil and Rest of Latin America Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 97.** Latin American 14-Year Perspective for Grinding Machines by Geographic Region/Country - Percentage Breakdown of Dollar Sales for Brazil and Rest of Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

**Table 98.** Latin American Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 99.** Latin American Historic Review for Grinding Machines by Product Segment -

Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 100.** Latin American 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.7.1 Brazil Market Analysis

**Table 101.** Brazilian Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 102.** Brazilian Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 103.** Brazilian 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

#### 8.7.2 Rest of Latin America Market Analysis

**Table 104.** Rest of Latin America Recent Past, Current & Future Analysis for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets

Independently Analyzed with Annual Sales in US\$ Thousand for Years 2016 through 2024 (includes corresponding Graph/Chart)

**Table 105.** Rest of Latin America Historic Review for Grinding Machines by Product Segment - Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets Independently Analyzed with Annual Sales in US\$ Thousand for Years 2011 through 2015 (includes corresponding Graph/Chart)

**Table 106.** Rest of Latin America 14-Year Perspective for Grinding Machines by Product Segment - Percentage Breakdown of Dollar Sales for Surface Grinding Machines, Cylindrical Grinding Machines, Center-less Grinding Machines, and Other Grinding Machines Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

## 9. COMPANY PROFILES

Total Companies Profiled: 258 (including Divisions/Subsidiaries - 278)

The United States (48)

Japan (26)

Europe (144)

France (2)

Germany (67)

The United Kingdom (15)

Italy (19)

Spain (3)

Rest of Europe (38)

Asia-Pacific (Excluding Japan) (60)

## I would like to order

Product name: Grinding Machines: Market Research Report

Product link: <https://marketpublishers.com/r/G7ED3AF80EN.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/G7ED3AF80EN.html>