

Asia Pacific Robotics Lubricants Market Forecast to 2028 –Regional Analysis – by Base Oil (Mineral Oil, Synthetic Oil, and Others), Product Type (Hydraulic Oil, Gear Oil, and Grease), and End Use Industry (Automotive, Food and Beverage, Medical and Healthcare, Electrical and Electronics, Metals, and Other Manufacturing Industries)

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Abstracts

The Asia Pacific robotics lubricants market is expected to grow from US\$ 1,995.89 million in 2022 to US\$ 3,671.86 million by 2028. It is estimated to grow at a CAGR of 10.7% from 2022 to 2028.

Increasing Demand for Robotics Lubricants from Automotive Industry Drive Asia Pacific Robotics Lubricants Market

According to a report by the Bureau of Transportation Statistics, China is one of the dominant markets for producing passenger cars and commercial vehicles. The rising vehicle production resulted in the adoption of automation in the automotive industry. Automation and the use of industrial robots increase the operational efficiency and productivity in automotive assembly plants. Industrial robots increase the productivity of manufacturing operations and positively impact industrial competitiveness. Further, there is an inverse relationship between industrial robot density and work hours, i.e., an increase in industrial robot density results in decreased work hours. According to the report published by the International Federation of Robotics in 2022, the total annual robot installations worldwide reached 517,385 units in 2021, a rise of 31% compared to 2020. The automotive industry registered ~119,000 units of annual robot installations worldwide, accounting for 23% of total robot installations in 2021, significantly driven by the component supplier segment. According to a press release by the International Federation of Robotics in 2023, robot density in South Korea was estimated at 2,867

industrial robots per 10,000 employees, whereas in China, robot installations in the automotive industry reached 61,598 units in 2021, accounting for 52% of global robot installation share. Industrial robots perform diverse operations, from material handling, assembly, and welding to finishing and palletizing applications. Robotic components are subjected to extensive movement, high heat, high speed, and friction, thus requiring periodic inspection and servicing. The automotive industry requires optimized robotics lubricants that are tolerant to extreme temperatures, can minimize downtime, and help achieve long service intervals. Thus, the increasing demand for robots in the automotive industry is driving the Asia Pacific robotics lubricants market.

Asia Pacific Robotics Lubricants Market Overview

According to the report by the International Federation of Robotics Statistical Department 2022, Asia marks the presence of 206 (25%) out of the global 828 classified professional service robot producers. In 2021, 74% of 380,911 units of globally deployed robots were installed in Asia. Moreover, a significant demand for robots from the electronics sector was witnessed in the region, accounting for 123,800 installations in 2021, a rise of 22% compared to 2020. The automotive industry accounted for 72,600 robotic installations, whereas the metal & machinery sector registered 36,400 robotic installations in 2021. The robotic installations in Asia and Australia cumulatively accounted for 33% growth compared to 2020, reaching 354,500 units of robotic installations in 2021. The region is home to major robot manufacturers and suppliers, namely, ABB Ltd, Asic Robotics AG, Stellantis NV, Denso Wave Inc, Fanuc Corporation, Hirata Corporation, Janome Corporation, Mitsubishi Electric Corporation, St?ubli International AG, Toshiba Infrastructure Systems & Solutions Corporation, Yamaha Motor Co Ltd, and Yaskawa Electric Corp, among others. Robots are used in various applications such as loading, receiving, assembly, packaging, handling, sorting, component employment, inspection, and other automation. High-speed and continuous operations of robots lead to wear and tear of components, which require service intervals and maintenance schedules. The service and maintenance involve the lubrication of robotic components such as joints, reducers, bearings, and gears with robotic oils and greases. Asia Pacific also marks the presence of major robotic lubricant producers such as Idemitsu Kosan Co Ltd, Anand Engineers Pvt Ltd, BP plc, Kuka Robotics Australia Pty Ltd, ASV Multichemie Pvt Ltd, and Shell International BV, among others. Thus, growing robotic installations, as well as the presence of robot manufacturers, are expected to boost the demand for robotics lubricants in the region during the forecast period.

Asia Pacific Robotics Lubricants Market Revenue and Forecast to 2028 (US\$ Million)

Asia Pacific Robotics Lubricants Market Segmentation

The Asia Pacific Robotics lubricants market is segmented into base oil, product type, end use industry, and country.

Based on base oil, the Asia Pacific robotics lubricants market is segmented into mineral oil, synthetic oil, and others. In 2022, the mineral oil segment registered a largest share in the Asia Pacific robotics lubricants market.

Based on product type, the Asia Pacific robotics lubricants market is segmented into hydraulic oil, gear oil, and grease. In 2022, the grease segment registered a largest share in the Asia Pacific robotics lubricants market.

Based on end use industry, the Asia Pacific robotics lubricants market is segmented into automotive, food and beverage, medical and healthcare, electrical and electronics, metals, and other manufacturing industries. In 2022, the automotive segment registered a largest share in the Asia Pacific robotics lubricants market.

Based on country, the Asia Pacific robotics lubricants market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. In 2022, China segment registered a largest share in the Asia Pacific robotics lubricants market. Anand Engineer Pvt Ltd, ASV Multichemie Pvt Ltd, BP Plc, Fuchs Petrolub SE, Idemitsu Kosan Co Ltd, Kluber Lubrication GmbH & Co KG, Schaeffler Austria GmbH, and Shell Plc are the leading companies operating in the Asia Pacific robotics lubricants market.

Contents

1. INTRODUCTION

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 Asia Pacific Robotics Lubricants Market, by Base Oil
 - 1.3.2 Asia Pacific Robotics Lubricants Market, by Product Type
 - 1.3.3 Asia Pacific Robotics Lubricants Market, by End Use Industry
 - 1.3.4 Asia Pacific Robotics Lubricants Market, by Country

2. KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Scope of the Study
- 3.2 Research Methodology
 - 3.2.1 Data Collection:
 - 3.2.2 Primary Interviews:
 - 3.2.3 Hypothesis formulation:
 - 3.2.4 Macro-economic factor analysis:
 - 3.2.5 Developing base number:
 - 3.2.6 Data Triangulation:
 - 3.2.7 Country level data:

4. ASIA PACIFIC ROBOTICS LUBRICANTS MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Buyers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Intensity of Competitive Rivalry
 - 4.2.5 Threat of Substitutes
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers
 - 4.3.2 Robotics Lubricants Manufacturers

- 4.3.3 Distributors/Suppliers
- 4.3.4 End-Use Industries
- 4.4 Expert Opinion

5. ASIA PACIFIC ROBOTICS LUBRICANTS MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Increasing Demand for Robotics Lubricants from Automotive Industry
 - 5.1.2 Rising Preference for Robot Greases in End-use Industries
- 5.2 Market Restraints
 - 5.2.1 Volatility in Prices of Raw Materials
- 5.3 Market Opportunities
 - 5.3.1 Penetration of Robotics in Manufacturing Sector
- 5.4 Future Trends
 - 5.4.1 Adoption of Synthetic Oil-Based Robotics Lubricants
- 5.5 Impact Analysis of Drivers and Restraints

6. ROBOTICS LUBRICANTS– ASIA PACIFIC MARKET ANALYSIS

- 6.1 Asia Pacific Robotics Lubricants Market –Volume and Forecast to 2028 (Kilo Tons)
- 6.2 Asia Pacific Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

7. ASIA PACIFIC ROBOTICS LUBRICANTS MARKET ANALYSIS – BY BASE OIL

- 7.1 Overview
- 7.2 Asia Pacific Robotics Lubricants Market, By Base Oil (2021 and 2028)
- 7.3 Mineral Oil
 - 7.3.1 Overview
 - 7.3.2 Mineral Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.4 Synthetic Oil
 - 7.4.1 Overview
 - 7.4.2 Synthetic Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.5 Others
 - 7.5.1 Overview
 - 7.5.2 Others: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

8. ASIA PACIFIC ROBOTICS LUBRICANTS MARKET ANALYSIS – BY PRODUCT TYPE

8.1 Overview

8.2 Asia Pacific Robotics Lubricants Market, By Product Type (2021 and 2028)

8.3 Hydraulic Oil

8.3.1 Overview

8.3.2 Hydraulic Oil: Asia Pacific Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

8.3.3 Hydraulic Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

8.4 Gear Oil

8.4.1 Overview

8.4.2 Gear Oil: Asia Pacific Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

8.4.3 Gear Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

8.5 Grease

8.5.1 Overview

8.5.2 Grease: Asia Pacific Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

8.5.3 Grease: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

9. ASIA PACIFIC ROBOTICS LUBRICANTS MARKET ANALYSIS – BY END USE INDUSTRY

9.1 Overview

9.2 Asia Pacific Robotics Lubricants Market, By End Use Industry (2021 and 2028)

9.3 Automotive

9.3.1 Overview

9.3.2 Automotive: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

9.4 Food and Beverage

9.4.1 Overview

9.4.2 Food and Beverage: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

9.5 Medical and Healthcare

9.5.1 Overview

9.5.2 Medical and Healthcare: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

9.6 Electrical and Electronics

9.6.1 Overview

9.6.2 Electrical and Electronics: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

9.7 Metals

9.7.1 Overview

9.7.2 Metals: Asia Pacific Robotics Lubricants Market– Revenue and Forecast to 2028 (US\$ Million)

9.8 Other Manufacturing Industries

9.8.1 Overview

9.8.2 Other Manufacturing Industries: Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)

10. ASIA PACIFIC ROBOTICS LUBRICANTS MARKET – COUNTRY ANALYSIS

10.1 Overview

10.1.1 Asia-Pacific: Robotics Lubricants Market, by Key Country

10.1.1.1 Australia: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

10.1.1.2 Australia: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

10.1.1.2.1 Australia: Robotics Lubricants Market , by Base Oil

10.1.1.2.2 Australia: Robotics Lubricants Market, by Product Type

10.1.1.2.3 Australia: Robotics Lubricants Market, by Product Type

10.1.1.2.4 Australia: Robotics Lubricants Market, by End-Use Industry

10.1.1.3 China: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

10.1.1.4 China: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

10.1.1.4.1 China: Robotics Lubricants Market , by Base Oil

10.1.1.4.2 China: Robotics Lubricants Market , by Product Type

10.1.1.4.3 China: Robotics Lubricants Market , by Product Type

10.1.1.4.4 China: Robotics Lubricants Market, by End-Use Industry

10.1.1.5 India: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

10.1.1.6 India: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

10.1.1.6.1 India: Robotics Lubricants Market, by Base Oil

- 10.1.1.6.2 India: Robotics Lubricants Market, by Product Type
- 10.1.1.6.3 India: Robotics Lubricants Market , by Product Type
- 10.1.1.6.4 India: Robotics Lubricants Market, by End-Use Industry
- 10.1.1.7 Japan: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)
- 10.1.1.8 Japan: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.8.1 Japan: Robotics Lubricants Market, by Base Oil
- 10.1.1.8.2 Japan: Robotics Lubricants Market, by Product Type
- 10.1.1.8.3 Japan: Robotics Lubricants Market, by Product Type
- 10.1.1.8.4 Japan: Robotics Lubricants Market , by End-Use Industry
- 10.1.1.9 South Korea: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)
- 10.1.1.10 South Korea: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.10.1 South Korea: Robotics Lubricants Market , by Base Oil
- 10.1.1.10.2 South Korea: Robotics Lubricants Market , by Product Type
- 10.1.1.10.3 South Korea: Robotics Lubricants Market , by Product Type
- 10.1.1.10.4 South Korea: Robotics Lubricants Market, by End-Use Industry
- 10.1.1.11 Rest of Asia Pacific: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)
- 10.1.1.12 Rest of Asia-Pacific: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.12.1 Rest of Asia-Pacific: Robotics Lubricants Market, by Base Oil
- 10.1.1.12.2 Rest of Asia-Pacific: Robotics Lubricants Market, by Product Type
- 10.1.1.12.3 Rest of Asia-Pacific: Robotics Lubricants Market, by Product Type
- 10.1.1.12.4 Rest of Asia-Pacific: Robotics Lubricants Market, by End-Use Industry

11. INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Expansion
- 11.3 New Product Development

12. COMPANY PROFILES

- 12.1 Shell Plc
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services

- 12.1.4 Financial Overview
- 12.1.5 SWOT Analysis
- 12.1.6 Key Developments
- 12.2 Fuchs Petrolub SE
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 BP Plc
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 Idemitsu Kosan Co Ltd
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Anand Engineer Pvt Ltd
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis
 - 12.5.6 Key Developments
- 12.6 Kluber Lubrication GmbH & Co KG
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 ASV Multichemie Pvt Ltd

- 12.7.1 Key Facts
- 12.7.2 Business Description
- 12.7.3 Products and Services
- 12.7.4 Financial Overview
- 12.7.5 SWOT Analysis
- 12.7.6 Key Developments
- 12.8 Schaeffler Austria GmbH
- 12.8.1 Key Facts
- 12.8.2 Business Description
- 12.8.3 Products and Services
- 12.8.4 Financial Overview
- 12.8.5 SWOT Analysis
- 12.8.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners
- 13.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. Asia Pacific Robotics Lubricants Market –Volume and Forecast to 2028 (Kilo Tons)

Table 2. Asia Pacific Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

Table 3. Australia Robotics Lubricants Market, by Base Oil – Revenue and Forecast to 2028 (US\$ Million)

Table 4. Australia Robotics Lubricants Market, by Product Type – Volume and Forecast to 2028 (Kilo Tons)

Table 5. Australia Robotics Lubricants Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 6. Australia Robotics Lubricants Market, by End-Use Industry– Revenue and Forecast to 2028 (US\$ Million)

Table 7. China Robotics Lubricants Market, by Base Oil – Revenue and Forecast to 2028 (US\$ Million)

Table 8. China Robotics Lubricants Market, by Product Type – Volume and Forecast to 2028 (Kilo Tons)

Table 9. China Robotics Lubricants Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 10. China Robotics Lubricants Market, by End-Use Industry– Revenue and Forecast to 2028 (US\$ Million)

Table 11. India Robotics Lubricants Market, by Base Oil – Revenue and Forecast to 2028 (US\$ Million)

Table 12. India Robotics Lubricants Market, by Product Type – Volume and Forecast to 2028 (Kilo Tons)

Table 13. India Robotics Lubricants Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 14. India Robotics Lubricants Market, by End-Use Industry– Revenue and Forecast to 2028 (US\$ Million)

Table 15. Japan Robotics Lubricants Market, by Base Oil – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Japan Robotics Lubricants Market, by Product Type – Volume and Forecast to 2028 (Kilo Tons)

Table 17. Japan Robotics Lubricants Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 18. Japan Robotics Lubricants Market, by End-Use Industry– Revenue and Forecast to 2028 (US\$ Million)

Table 19. South Korea Robotics Lubricants Market, by Base Oil – Revenue and Forecast to 2028 (US\$ Million)

Table 20. South Korea Robotics Lubricants Market, by Product Type – Volume and Forecast to 2028 (Kilo Tons)

Table 21. South Korea Robotics Lubricants Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 22. South Korea Robotics Lubricants Market, by End-Use Industry– Revenue and Forecast to 2028 (US\$ Million)

Table 23. Rest of Asia-Pacific Robotics Lubricants Market, by Base Oil – Revenue and Forecast to 2028 (US\$ Million)

Table 24. Rest of Asia-Pacific Robotics Lubricants Market, by Product Type – Volume and Forecast to 2028 (Kilo Tons)

Table 25. Rest of Asia-Pacific Robotics Lubricants Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 26. Rest of Asia-Pacific Robotics Lubricants Market, by End-Use Industry– Revenue and Forecast to 2028 (US\$ Million)

Table 27. Glossary of Terms, Asia Pacific Robotics Lubricants Market

List Of Figures

LIST OF FIGURES

- Figure 1. Asia Pacific Robotics Lubricants Market Segmentation
- Figure 2. Asia Pacific Robotics Lubricants Market Segmentation – By Country
- Figure 3. Asia Pacific Robotics Lubricants Market Overview
- Figure 4. Asia Pacific Robotics Lubricants Market, By End Use Industry
- Figure 5. Asia Pacific Robotics Lubricants Market, by Country
- Figure 6. Porter's Five Forces Analysis
- Figure 7. Asia Pacific Robotics Lubricants Market – Ecosystem Analysis
- Figure 8. Expert Opinion
- Figure 9. Asia Pacific Robotics Lubricants Market: Impact Analysis of Drivers and Restraints
- Figure 10. Asia Pacific Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)
- Figure 11. Asia Pacific Robotics Lubricants Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 12. Asia Pacific Robotics Lubricants Market Revenue Share, By Base Oil (2021 and 2028)
- Figure 13. Mineral Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 14. Synthetic Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 15. Others: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 16. Asia Pacific Robotics Lubricants Market Revenue Share, By Product Type (2021 and 2028)
- Figure 17. Hydraulic Oil: Asia Pacific Robotics Lubricants Market – Volume and Forecast To 2028 (Kilo Tons)
- Figure 18. Hydraulic Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 19. Gear Oil: Asia Pacific Robotics Lubricants Market – Volume and Forecast To 2028 (Kilo Tons)
- Figure 20. Gear Oil: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)
- Figure 21. Grease: Asia Pacific Robotics Lubricants Market – Volume and Forecast To 2028 (Kilo Tons)

Figure 22. Grease: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 23. Asia Pacific Robotics Lubricants Market Revenue Share, By End Use Industry (2021 and 2028)

Figure 24. Automotive: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 25. Food and Beverage: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 26. Medical and Healthcare: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 27. Electrical and Electronics: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 28. Metals: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 29. Other Manufacturing Industries: Asia Pacific Robotics Lubricants Market – Revenue and Forecast To 2028 (US\$ Million)

Figure 30. Asia-Pacific: Robotics Lubricants Market, by Key Country- Revenue (2021) (US\$ Million)

Figure 31. Asia-Pacific: Robotics Lubricants Market Revenue Share, by Key Country (2021 and 2028)

Figure 32. Australia: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

Figure 33. Australia: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 34. China: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

Figure 35. China: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 36. India: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

Figure 37. India: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 38. Japan: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

Figure 39. Japan: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 40. South Korea: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

Figure 41. South Korea: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

Figure 42. Rest of Asia Pacific: Robotics Lubricants Market – Volume and Forecast to 2028 (Kilo Tons)

Figure 43. Rest of Asia-Pacific: Robotics Lubricants Market –Revenue and Forecast to 2028 (US\$ Million)

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