

# **Cold Spray Technology Market Size, Share & Trends Analysis Report By Material (Nickel, Aluminum, Titanium), By Service (Additive Manufacturing, Coatings), By End-use (Utility, Aerospace), And Segment Forecasts, 2023 - 2030**

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## **Abstracts**

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### **Cold Spray Technology Market Growth & Trends**

The global cold spray technology market size is anticipated to reach USD 1.71 billion by 2030, according to a new report by Grand View Research, Inc., expanding at a CAGR of 6.4% from 2023 to 2030. Rising demand from the aerospace industry and growing electrical & electronics industry will drive the industry over the forecast period. Cold spray coating, especially in the aerospace industry, has revolutionized component repairing. The utilization of cold spray coating technology improves the thermal stability and corrosion resistance of materials and ensures increased reliability for an extended time. In addition, it offers protection against extreme temperatures, harsh environments, and extends the lifespan of the components.

These factors will drive the product demand in the aerospace industry in the coming years. Furthermore, the increasing number of air passengers coupled with the rise in tourism, business travel, and air freight travel has led to the expansion of the aerospace industry. For instance, according to the World Tourism Barometer of the UN World Tourism Organization, the number of foreign visitors almost quadrupled from January to July 2022 (+172%) compared to the same period in 2021. New airports are being constructed across the world and the subsequent demand for new aircraft is continuously increasing. This is anticipated to propel the growth of industry over the

forecast period. In the electrical & electronics industry, this technology is used to coat electrical components with copper, tantalum, titanium, and aluminum.

Various components, such as circuit boards, electrical contacts, semiconductors, electric motors, and generators, are coated using cold spray coating technology. The coating of such parts with metals and metal alloys provides the components with better electrical conductivity, corrosion resistivity, and clearance control. These factors will drive the demand for cold spray technology over the forecast period. Expenditure on personal electronic devices, medical devices, and consumer electronics is rising owing to the increased disposable income, production of affordable devices, and increased accessibility of products. According to the Groupe Speciale Mobile Association (GSMA), by the end of 2021, around 5.3 billion people were subscribed to mobile connections, which represented 67% of the population worldwide.

Mobile technologies and services generated approximately USD 4.5 trillion of economic value added in 2021, which is anticipated to reach USD 5 trillion by 2025. Thus, the growing electrical & electronics industry will drive the industry growth. Manufacturers are undertaking mergers & acquisitions, and product launches to strengthen their geographical presence. For instance, in November 2022, Titomic Ltd. launched D623 medium-pressure cold spray Additive Manufacturing (AM) machine. The D623 machine can deposit much harder metals than the compared to D523 lower compression system. The D623 provides higher restoration of high-wear parts and wear-resistant coatings.

### Cold Spray Technology Market Report Highlights

The aluminium segment dominated the industry in 2022 of the global market share in 2022. Aluminum is extensively used due to its low density, great ductility, good resistance to corrosion, and excellent thermal and electrical conductivity

The titanium segment is estimated to witness a steady CAGR over the forecast period. Titanium is utilized extensively in various end-use industries owing to its high strength, good biocompatibility, and superior corrosion resistance

The Cold Spray Additive Manufacturing (CSAM) segment is estimated to witness significant CAGR over the forecast period

It is used for the development of engineering components that offer improved performance across various surfaces, sub-surfaces, and interfaces

The aerospace segment dominated the industry in 2022 and accounted for the largest share of the global industry. Cold spray technology is used in the aerospace sector in various components including satellites, gearboxes, landing gear nozzles, engine parts, and other nonstructural elements. These components are shielded from severe temperatures by this technology, which guarantees enhanced dependability over time

North America dominated the industry in 2022 and accounted for 38.2% of the global revenue share

The demand for cold spray technology in North America is driven by its flourishing aerospace & defense, electronics, and automotive industries

## Contents

### CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope and Assumptions
- 1.3. Information Procurement
  - 1.3.1. Purchased Database
  - 1.3.2. GVR's Internal Database
  - 1.3.3. Secondary Sources & Third-Party Perspectives
  - 1.3.4. Primary Research
- 1.4. Information Analysis
  - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

### CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

### CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Market Lineage Outlook
- 3.2. Market Segmentation & Scope
- 3.3. Penetration & Growth Prospect Mapping
- 3.4. Industry Value Chain Analysis
  - 3.4.1. Raw Material Outlook
  - 3.4.2. Manufacturing & Technology Trends
- 3.5. Regulatory Framework
- 3.6. Cold Spray Technology Market - Market dynamics
  - 3.6.1. Market Driver Analysis
  - 3.6.2. Market Restraint Analysis
  - 3.6.3. Market Opportunity Analysis
- 3.7. Industry Analysis Tools: Cold Spray Technology Market
  - 3.7.1. Porter's Analysis
  - 3.7.2. Macroeconomic Analysis

## **CHAPTER 4. COLD SPRAY TECHNOLOGY MARKET: MATERIAL ESTIMATES & TREND ANALYSIS**

4.1. Cold Spray Technology Market: Material Movement Analysis, 2022 & 2030

4.2. Nickel

4.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.3. Copper

4.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.4. Aluminum

4.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.5. Titanium

4.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.6. Magnesium

4.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

4.7. Others

4.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 5. COLD SPRAY TECHNOLOGY MARKET: SERVICE ESTIMATES & TREND ANALYSIS**

5.1. Cold Spray Technology Market: Service Movement Analysis, 2022 & 2030

5.2. Cold Spray Additive Manufacturing

5.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

5.3. Cold Spray Coatings

5.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 6. COLD SPRAY TECHNOLOGY MARKET: END-USE ESTIMATES & TREND ANALYSIS**

6.1. Cold Spray Technology Market: End-use Movement Analysis, 2022 & 2030

6.2. Aerospace

6.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

6.3. Automotive

6.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

6.4. Defense

6.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

6.5. Electrical & Electronics

6.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

6.6. Utility

6.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

6.7. Others

6.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

## **CHAPTER 7. COLD SPRAY TECHNOLOGY MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

7.1. Cold Spray Technology Market: Regional movement analysis, 2022 & 2030

7.2. North America

7.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.2.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.2.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.2.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.2.5. Market estimates and forecasts, by application, 2018 - 2030 (USD Million)

7.2.6. U.S.

7.2.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.2.6.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.2.6.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.2.6.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.2.7. Canada

7.2.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.2.7.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.2.7.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.2.7.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.2.8. Mexico

7.2.8.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.2.8.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.2.8.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.2.8.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.3. Europe

7.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.3.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.3.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

7.3.5. Germany

7.3.6. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.6.1. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.3.6.2. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.3.6.3. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.3.7. U.K.

- 7.3.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.3.7.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.3.7.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.3.7.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.3.8. Italy

- 7.3.8.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.3.8.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.3.8.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.3.8.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.3.9. France

- 7.3.9.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.3.9.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.3.9.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.3.9.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.3.10. Spain

- 7.3.10.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.3.10.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.3.10.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.3.10.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.4. Asia Pacific

- 7.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.4.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.4.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.4.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.4.5. China

- 7.4.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.4.5.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.4.5.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.4.5.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.4.6. India

- 7.4.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.4.6.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.4.6.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)
- 7.4.6.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.4.7. Japan

- 7.4.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million)
- 7.4.7.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)
- 7.4.7.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.4.7.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.4.8. Australia

7.4.8.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.4.8.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.4.8.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.4.8.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.5. Central & South America

7.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.5.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.5.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.5.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.5.5. Brazil

7.5.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.5.5.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.5.5.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.5.5.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.5.6. Argentina

7.5.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.5.6.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.5.6.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.5.6.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.6. Middle East & Africa

7.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.6.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.6.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.6.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.6.5. Saudi Arabia

7.6.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.6.5.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.6.5.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.6.5.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

#### 7.6.6. South Africa

7.6.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million)

7.6.6.2. Market estimates and forecasts, by material, 2018 - 2030 (USD Million)

7.6.6.3. Market estimates and forecasts, by service, 2018 - 2030 (USD Million)

7.6.6.4. Market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

## CHAPTER 8. COMPETITIVE LANDSCAPE

- 8.1. Key Global Players, Their Initiatives, & Its Impact on the Market
- 8.2. Key Company/Competition Categorization
- 8.3. Strategic Framework
- 8.4. Competitive Dashboard Analysis
- 8.5. Public Companies
  - 8.5.1. Company Market Position Analysis
- 8.6. Private Companies
  - 8.6.1. List of Key Emerging Companies and Their Geographical Presence

## **CHAPTER 9. COMPANY PROFILES**

- 9.1. Hannecard Roller Coatings, Inc
  - 9.1.1. Company Overview
  - 9.1.2. Financial performance
  - 9.1.3. Material benchmarking
  - 9.1.4. Strategic initiatives
- 9.2. General Electric
  - 9.2.1. Company Overview
  - 9.2.2. Financial performance
  - 9.2.3. Material benchmarking
  - 9.2.4. Strategic initiatives
- 9.3. Impact Innovations GmbH
  - 9.3.1. Company Overview
  - 9.3.2. Financial performance
  - 9.3.3. Material benchmarking
  - 9.3.4. Strategic initiatives
- 9.4. H?gan?s AB
  - 9.4.1. Company Overview
  - 9.4.2. Financial performance
  - 9.4.3. Material benchmarking
  - 9.4.4. Strategic initiatives
- 9.5. Fukuda Metal Foil & Powder Company's
  - 9.5.1. Company Overview
  - 9.5.2. Financial performance
  - 9.5.3. Material benchmarking
  - 9.5.4. Strategic initiatives
- 9.6. CenterLine (Windsor) Limited
  - 9.6.1. Company Overview
  - 9.6.2. Financial performance

- 9.6.3. Material benchmarking
- 9.6.4. Strategic initiatives
- 9.7. WWG Engineering Pte. Ltd.
  - 9.7.1. Company Overview
  - 9.7.2. Financial performance
  - 9.7.3. Material benchmarking
  - 9.7.4. Strategic initiatives
- 9.8. TWI Ltd.
  - 9.8.1. Company Overview
  - 9.8.2. Financial performance
  - 9.8.3. Material benchmarking
  - 9.8.4. Strategic initiatives
- 9.9. VRC Metal Systems
  - 9.9.1. Company Overview
  - 9.9.2. Financial performance
  - 9.9.3. Material benchmarking
  - 9.9.4. Strategic initiatives
- 9.10. Netherlands Aerospace Centre
  - 9.10.1. Company Overview
  - 9.10.2. Financial performance
  - 9.10.3. Material benchmarking
  - 9.10.4. Strategic initiatives

## List Of Tables

### LIST OF TABLES

Table 1 Cold spray technology market estimates and forecasts, by nickel, 2018 - 2030 (USD Million)

Table 2 Cold spray technology market estimates and forecasts, by copper, 2018 - 2030 (USD Million)

Table 3 Cold spray technology market estimates and forecasts, by aluminum, 2018 - 2030 (USD Million)

Table 4 Cold spray technology market estimates and forecasts, by titanium, 2018 - 2030 (USD Million)

Table 5 Cold spray technology market estimates and forecasts, by magnesium, 2018 - 2030 (USD Million)

Table 6 Cold spray technology market estimates and forecasts, by other materials, 2018 - 2030 (USD Million)

Table 7 Cold spray technology market estimates and forecasts, by cold spray additive manufacturing, 2018 - 2030 (USD Million)

Table 8 Cold spray technology market estimates and forecasts, by cold spray coatings, 2018 - 2030 (USD Million)

Table 9 Cold spray technology market estimates and forecasts, in aerospace, 2018 - 2030 (USD Million)

Table 10 Cold spray technology market estimates and forecasts, in automotive, 2018 - 2030 (USD Million)

Table 11 Cold spray technology market estimates and forecasts, in defense, 2018 - 2030 (USD Million)

Table 12 Cold spray technology market estimates and forecasts, in electrical & electronics, 2018 - 2030 (USD Million)

Table 13 Cold spray technology market estimates and forecasts, in utility, 2018 - 2030 (USD Million)

Table 14 Cold spray technology market estimates and forecasts, in others end-use, 2018 - 2030 (USD Million)

Table 15 North America cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 16 North America cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 17 North America cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 18 North America cold spray technology market estimates and forecasts, by end-

use, 2018 - 2030 (USD Million)

Table 19 U.S. cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 20 U.S. cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 21 U.S. cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 22 U.S. cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 23 Canada cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 24 Canada cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 25 U.S. cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 26 Canada cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 27 Canada cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 28 Mexico cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 29 Mexico cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 30 Mexico cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 31 Mexico cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 32 Europe cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 33 Europe cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 34 Europe cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 35 Europe cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 36 Germany cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 37 Germany cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 38 Germany cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 39 Germany cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 40 U.K. cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 41 U.K. cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 42 U.K. cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 43 U.K. cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 44 Italy cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 45 Italy cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 46 Italy cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 47 Italy cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 48 France cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 49 France cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 50 France cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 51 France cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 52 Spain cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 53 Spain cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 54 Spain cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 55 Spain cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 56 Asia Pacific cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 57 Asia Pacific cold spray technology market estimates and forecasts, by

material, 2018 - 2030 (USD Million)

Table 58 Asia Pacific cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 59 Asia Pacific cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 60 China cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 61 China cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 62 China cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 63 China cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 64 India cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 65 India cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 66 India cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 67 India cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 68 Japan cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 69 Japan cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 70 Japan cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 71 Japan cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 72 Australia cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 73 Australia cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 74 Australia cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 75 Australia cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 76 Central & South America cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 77 Central & South America cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 78 Central & South America cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 79 Central & South America cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 80 Brazil cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 81 Brazil cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 82 Brazil cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 83 Brazil cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 84 Argentina cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 85 Argentina cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 86 Argentina cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 87 Argentina cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 88 Middle East & Africa cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 89 Middle East & Africa cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 90 Middle East & Africa cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 91 Middle East & Africa cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 92 Saudi Arabia cold spray technology market estimates and forecasts, 2018 - 2030 (USD Million)

Table 93 Saudi Arabia cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 94 Saudi Arabia cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 95 Saudi Arabia cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

Table 96 South Africa cold spray technology market estimates and forecasts, 2018 -

2030 (USD Million)

Table 97 South Africa cold spray technology market estimates and forecasts, by material, 2018 - 2030 (USD Million)

Table 98 South Africa cold spray technology market estimates and forecasts, by service, 2018 - 2030 (USD Million)

Table 99 South Africa cold spray technology market estimates and forecasts, by end-use, 2018 - 2030 (USD Million)

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Information Procurement
- Fig. 2 Primary Research Pattern
- Fig. 3 Primary Research Source
- Fig. 4 Market Research Approaches - Bottom Up Approach
- Fig. 5 Market Research Approaches - Top Down Approach
- Fig. 6 Market Research Approaches - Combined Approach
- Fig. 7 Market Outlook
- Fig. 8 Segmental Outlook
- Fig. 9 Competitive Insights
- Fig. 10 Market Segmentation & Scope
- Fig. 11 Value Chain Analysis
- Fig. 12 Market Driver Analysis
- Fig. 13 Market Restraint Analysis
- Fig. 14 Cold Spray Technology Market: Material Movement Analysis, 2022 & 2030
- Fig. 15 Cold Spray Technology Market: Service Movement Analysis, 2022 & 2030
- Fig. 16 Cold Spray Technology Market: End-use Movement Analysis, 2022 & 2030
- Fig. 17 Cold Spray Technology Market: Regional Movement Analysis, 2022 & 2030
- Fig. 18 Key Company/Competition Categorization
- Fig. 19 Competitive Dashboard Analysis
- Fig. 20 Company Market Position Analysis

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