

3D Printing Robot - Company Evaluation Report, 2025

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Abstracts

The 3D Printing Robots Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for 3D Printing Robots. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 110 companies, of which the Top 12 3D Printing Robots Companies were categorized and recognized as quadrant leaders.

3D PRINTING ROBOTS ARE INTEGRATED SYSTEMS THAT COMBINE ROBOTIC ARMS OR GANTRY FRAMEWORKS WITH ADDITIVE MANUFACTURING PRINT HEADS, ENABLING AUTOMATED, SCALABLE PRODUCTION OF COMPLEX GEOMETRIES USING MATERIALS SUCH AS POLYMERS, PLASTICS, METALS, AND CONCRETE. THESE SYSTEMS ARE INCREASINGLY DEPLOYED IN MANUFACTURING ENVIRONMENTS, SUPPORTING APPLICATIONS FROM RAPID PROTOTYPING TO LARGE-SCALE, CUSTOMIZED PRODUCTION.

Market growth is primarily driven by the shift toward automation and personalized manufacturing, technological advancements in robotic arms and additive manufacturing, and rising demand in the aerospace and defense sectors. However, challenges such as high initial investment costs, a shortage of skilled professionals, integration complexities, and concerns about durability and structural integrity may hinder market expansion.

The 360 Quadrant maps the 3D Printing Robots companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the 3D Printing Robots quadrant. The top criteria for product footprint evaluation included BY Component & service (Robot Arms, 3D Printing Heads,

Software, Services), By Type (Articulated, Cartesian, SCARA, Polar, Delta, Other Robot Types), BY Application (Prototyping, Tooling, Functional Part Manufacturing), and By End-Use Industry (Automotive, FMCG, Aerospace & Defense, Construction, Culinary, Other End-use Industries).

Key Players

Key players in the Green Methanol market include major global corporations and specialized innovators such as KUKA AG (Germany), ABB (Switzerland), YASKAWA ELECTRIC CORPORATION (Japan), FANUC CORPORATION (Japan), Universal Robots A/S (Denmark), Comau (Italy), Dobot (China), Caracol (Italy), Meltio3D (Spain), CEAD B.V. (Netherlands), Weber Maschinenfabrik (Germany) and Massive Dimension (Sweden). These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top 3 Companies

KUKA AG

KUKA AG, founded in 1898 and based in Augsburg, Germany, It's a world leader in automation technologies and with a notable presence in the 3D printing robotics market. The company provides end-to-end automation systems across diverse industries, including automotive, aerospace, electronics, healthcare, and food and beverage. Its extensive portfolio features advanced robotic systems, control technologies, and software designed to increase productivity, lower operational costs, and optimize manufacturing efficiency. KUKA offers specialized 3D printing robotic solutions such as the KR QUANTEC, KR 4 AGILUS, and KR IONTEC—widely used in manufacturing, construction, and defense sectors for high-precision and large-format 3D printing applications.

ABB

ABB is a global leader in robotics and automation, offering a comprehensive range of 3D printing robots tailored for industries such as automotive, aerospace, construction, and healthcare. It also provides the RobotStudio Suite, a simulation and programming software that allows users to virtually model and optimize robotic operations before implementation. The company is structured into four main business segments:

Electrification, Motion, Process Automation, and Robotics & Discrete Automation. Its 3D printing solutions are offered through the Robotics & Discrete Automation segment, which includes industrial and collaborative robots, machine automation, and factory integration solutions.

FANUC CORPORATION

FANUC CORPORATION is a leading developer of industrial robots, CNC systems, and advanced automation technologies. The company operates through four main divisions: Factory Automation (FA), Robot, Robomachine, and Service. Within its robot division, FANUC offers a portfolio of over 100 industrial robots tailored to diverse applications.

Contents

1 INTRODUCTION

- 1.1 MARKET DEFINITION
- 1.2 INCLUSIONS AND EXCLUSIONS
- 1.3 STAKEHOLDERS

2 EXECUTIVE SUMMARY

3 MARKET OVERVIEW

- 3.1 INTRODUCTION
- 3.2 MARKET DYNAMICS
 - 3.2.1 DRIVERS
 - 3.2.1.1 Shift toward automation and personalized manufacturing
 - 3.2.1.2 Advancements in robotic arms and additive manufacturing
 - 3.2.1.3 High demand from aerospace & defense sector
 - 3.2.2 RESTRAINTS
 - 3.2.2.1 High initial investment costs
 - 3.2.2.2 Lack of skilled workforce
 - 3.2.3 OPPORTUNITIES
 - 3.2.3.1 Focus of construction industry on sustainability
 - 3.2.3.2 Emergence of mobile 3D printing robotic solutions
 - 3.2.3.3 Need for customized healthcare products
 - 3.2.4 CHALLENGES
 - 3.2.4.1 Complexities associated with system integration
 - 3.2.4.2 Concerns regarding durability and structural integrity
- 3.3 PORTER'S FIVE FORCES ANALYSIS
- 3.4 ECOSYSTEM ANALYSIS
- 3.5 VALUE CHAIN ANALYSIS
- 3.6 TECHNOLOGY ANALYSIS
 - 3.6.1 KEY TECHNOLOGIES
 - 3.6.1.1 Selective laser melting (SLM)
 - 3.6.1.2 Fused deposition modelling (FDM)
 - 3.6.1.3 Binder jetting
 - 3.6.2 ADJACENT TECHNOLOGIES
 - 3.6.2.1 Post-processing robotics
 - 3.6.3 COMPLEMENTARY TECHNOLOGIES

3.6.3.1 AI for defect detection

3.6.3.2 Cloud integration

3.7 PATENT ANALYSIS

3.8 KEY CONFERENCES AND EVENTS, 2025–2026

3.9 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

3.10 IMPACT OF AI ON 3D PRINTING MARKET

4 COMPETITIVE LANDSCAPE

4.1 OVERVIEW

4.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2021–2025

4.3 REVENUE ANALYSIS, 2021–2024

4.4 MARKET SHARE ANALYSIS, 2024

4.5 COMPANY VALUATION AND FINANCIAL METRICS, 2025

4.6 BRAND/PRODUCT COMPARISON

4.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024

4.7.1 STARS

4.7.2 EMERGING LEADERS

4.7.3 PERVASIVE PLAYERS

4.7.4 PARTICIPANTS

4.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

4.7.5.1 Company footprint

4.7.5.2 Region footprint

4.7.5.3 Component footprint

4.7.5.4 Robot type footprint

4.7.5.5 End-use industry footprint

4.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024

4.8.1 PROGRESSIVE COMPANIES

4.8.2 RESPONSIVE COMPANIES

4.8.3 DYNAMIC COMPANIES

4.8.4 STARTING BLOCKS

4.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024

4.8.5.1 Detailed list of key startups/SMEs

4.8.5.2 Competitive benchmarking of key startups/SMES

4.9 COMPETITIVE SCENARIO

4.9.1 PRODUCT LAUNCHES

4.9.2 DEALS

5 COMPANY PROFILES

5.1 KEY PLAYERS

5.1.1 KUKA AG

- 5.1.1.1 Business overview
- 5.1.1.2 Products/Solutions/Services offered
- 5.1.1.3 Recent developments
 - 5.1.1.3.1 Deals
- 5.1.1.4 MnM view
 - 5.1.1.4.1 Key strengths
 - 5.1.1.4.2 Strategic choices
 - 5.1.1.4.3 Weaknesses and competitive threats

5.1.2 ABB

- 5.1.2.1 Business overview
- 5.1.2.2 Products/Solutions/Services offered
- 5.1.2.3 Recent developments
 - 5.1.2.3.1 Product launches
 - 5.1.2.3.2 Deals
- 5.1.2.4 MnM view
 - 5.1.2.4.1 Key strengths
 - 5.1.2.4.2 Strategic choices
 - 5.1.2.4.3 Weaknesses and competitive threats

5.1.3 YASKAWA ELECTRIC CORPORATION

- 5.1.3.1 Business overview
- 5.1.3.2 Products/Solutions/Services offered
- 5.1.3.3 Recent developments
 - 5.1.3.3.1 Deals
- 5.1.3.4 MnM view
 - 5.1.3.4.1 Key strengths
 - 5.1.3.4.2 Strategic choices
 - 5.1.3.4.3 Weaknesses and competitive threats

5.1.4 FANUC CORPORATION

- 5.1.4.1 Business overview
- 5.1.4.2 Products/Solutions/Services offered
- 5.1.4.3 Recent developments
 - 5.1.4.3.1 Deals
- 5.1.4.4 MnM view
 - 5.1.4.4.1 Key strengths
 - 5.1.4.4.2 Strategic choices
 - 5.1.4.4.3 Weaknesses and competitive threats

5.1.5 UNIVERSAL ROBOTS A/S

- 5.1.5.1 Business overview
- 5.1.5.2 Products/Solutions/Services offered
- 5.1.5.3 Recent developments
 - 5.1.5.3.1 Product launches
 - 5.1.5.3.2 Deals
- 5.1.5.4 MnM view
 - 5.1.5.4.1 Key strengths
 - 5.1.5.4.2 Strategic choices
 - 5.1.5.4.3 Weaknesses and competitive threats

5.1.6 MASSIVE DIMENSION

- 5.1.6.1 Business overview
- 5.1.6.2 Products/Solutions/Services offered
- 5.1.6.3 Recent developments

5.1.7 CEAD B.V.

- 5.1.7.1 Business overview
- 5.1.7.2 Products/Solutions/Services offered
- 5.1.7.3 Recent developments
 - 5.1.7.3.1 Product launches
 - 5.1.7.3.2 Deals

5.1.8 CARACOL

- 5.1.8.1 Business overview
- 5.1.8.2 Products/Solutions/Services offered
- 5.1.8.3 Recent developments
 - 5.1.8.3.1 Product launches
 - 5.1.8.3.2 Deals

5.1.9 WEBER MASCHINENFABRIK

- 5.1.9.1 Business overview
- 5.1.9.2 Products/Solutions/Services offered
- 5.1.9.3 Recent developments
 - 5.1.9.3.1 Product launches
 - 5.1.9.3.2 Deals

5.1.10 MELTIO3D

- 5.1.10.1 Business overview
- 5.1.10.2 Products/Solutions/Services offered
- 5.1.10.3 Recent developments
 - 5.1.10.3.1 Product launches
 - 5.1.10.3.2 Deals

5.1.11 COMAU

- 5.1.11.1 Business overview
- 5.1.11.2 Products/Solutions/Services offered
- 5.1.11.3 Recent developments
 - 5.1.11.3.1 Deals

5.2 OTHER PLAYERS

- 5.2.1 BAUBOT GMBH
- 5.2.2 MX3D
- 5.2.3 TWENTE ADDITIVE MANUFACTURING
- 5.2.4 DOBOT
- 5.2.5 DYZE DESIGN
- 5.2.6 REV3RD S.R.L.
- 5.2.7 ADAXIS SAS
- 5.2.8 ORBITAL COMPOSITES INC.
- 5.2.9 AI BUILD LIMITED
- 5.2.10 OCTOPUZ INDUSUITE
- 5.2.11 HYPERION ROBOTICS
- 5.2.12 HYPERTHERM, INC.
- 5.2.13 INGERSOLL MACHINE TOOLS, INC.
- 5.2.14 3D MINERALS

6 APPENDIX

6.1 RESEARCH METHODOLOGY

- 6.1.1 RESEARCH DATA
 - 6.1.1.1 Secondary data
 - 6.1.1.2 Primary data
- 6.1.2 RESEARCH ASSUMPTIONS
- 6.1.3 RESEARCH LIMITATIONS
- 6.1.4 RISK ASSESSMENT

6.2 COMPANY EVALUATION MATRIX: METHODOLOGY

6.3 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 3D PRINTING ROBOT MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 2 ROLE OF PLAYERS IN 3D PRINTING ROBOT ECOSYSTEM

TABLE 3 LIST OF GRANTED PATENTS RELATED TO 3D PRINTING ROBOT, 2019–2022

TABLE 4 KEY CONFERENCES AND EVENTS, 2025–2026

TABLE 5 OVERVIEW OF STRATEGIES ADOPTED BY 3D PRINTING ROBOT VENDORS, 2021–2025

TABLE 6 3D PRINTING ROBOT MARKET SHARE ANALYSIS, 2024

TABLE 7 3D PRINTING ROBOT MARKET: REGION FOOTPRINT

TABLE 8 3D PRINTING ROBOT MARKET: COMPONENT FOOTPRINT

TABLE 9 3D PRINTING ROBOT MARKET: ROBOT TYPE FOOTPRINT

TABLE 10 3D PRINTING ROBOT MARKET: END-USE INDUSTRY FOOTPRINT

TABLE 11 3D PRINTING ROBOT MARKET: LIST OF KEYS STARTUPS/SMES

TABLE 12 3D PRINTING ROBOT MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

TABLE 13 3D PRINTING ROBOT MARKET: PRODUCT LAUNCHES, JANUARY 2021?MAY 2025

TABLE 14 3D PRINTING ROBOT MARKET: DEALS, JANUARY 2021?MAY 2025

TABLE 15 KUKA AG: COMPANY OVERVIEW

TABLE 16 KUKA AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 17 KUKA AG: DEALS

TABLE 18 ABB: COMPANY OVERVIEW

TABLE 19 ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 20 ABB: PRODUCT LAUNCHES

TABLE 21 ABB: DEALS

TABLE 22 YASKAWA ELECTRIC CORPORATION: COMPANY OVERVIEW

TABLE 23 YASKAWA ELECTRIC CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 24 YASKAWA ELECTRIC CORPORATION: DEALS

TABLE 25 FANUC CORPORATION: COMPANY OVERVIEW

TABLE 26 FANUC CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 27 FANUC CORPORATION: DEALS

TABLE 28 UNIVERSAL ROBOTS A/S: COMPANY OVERVIEW

TABLE 29 UNIVERSAL ROBOTS A/S: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 30 UNIVERSAL ROBOTS A/S: PRODUCT LAUNCHES

TABLE 31 UNIVERSAL ROBOTS A/S: DEALS

TABLE 32 MASSIVE DIMENSION: COMPANY OVERVIEW

TABLE 33 MASSIVE DIMENSION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 34 MASSIVE DIMENSION: PRODUCT LAUNCHES

TABLE 35 MASSIVE DIMENSION: DEALS

TABLE 36 CEAD B.V.: COMPANY OVERVIEW

TABLE 37 CEAD B.V.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 38 CEAD B.V.: PRODUCT LAUNCHES

TABLE 39 CEAD B.V.: DEALS

TABLE 40 CARACOL: COMPANY OVERVIEW

TABLE 41 CARACOL: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 42 CARACOL: PRODUCT LAUNCHES

TABLE 43 CARACOL: DEALS

TABLE 44 WEBER MASCHINENFABRIK: COMPANY OVERVIEW

TABLE 45 WEBER MASCHINENFABRIK: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 46 WEBER MASCHINENFABRIK: PRODUCT LAUNCHES

TABLE 47 WEBER MASCHINENFABRIK: DEALS

TABLE 48 MELTIO3D: COMPANY OVERVIEW

TABLE 49 MELTIO3D: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 50 MELTIO3D: PRODUCT LAUNCHES

TABLE 51 MELTIO3D: DEALS

TABLE 52 COMAU: COMPANY OVERVIEW

TABLE 53 COMAU: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 54 COMAU: DEALS

TABLE 55 BAUBOT GMBH: COMPANY OVERVIEW

TABLE 56 MX3D: COMPANY OVERVIEW

TABLE 57 TWENTE ADDITIVE MANUFACTURING: COMPANY OVERVIEW

TABLE 58 DOBOT: COMPANY OVERVIEW

TABLE 59 DYZE DESIGN: COMPANY OVERVIEW

TABLE 60 REV3RD S.R.L.: COMPANY OVERVIEW

TABLE 61 ADAXIS SAS: COMPANY OVERVIEW

TABLE 62 ORBITAL COMPOSITES INC.: COMPANY OVERVIEW

TABLE 63 AI BUILD LIMITED: COMPANY OVERVIEW

TABLE 64 INDUSUITE: COMPANY OVERVIEW

TABLE 65 HYPERION ROBOTICS: COMPANY OVERVIEW

TABLE 66 HYPERTHERM, INC.: COMPANY OVERVIEW

TABLE 67 INGERSOLL MACHINE TOOLS, INC.: COMPANY OVERVIEW

TABLE 68 3D MINERALS: COMPANY OVERVIEW

TABLE 69 3D PRINTING ROBOT MARKET: RISK ANALYSIS

List Of Figures

LIST OF FIGURES

FIGURE 1 ROBOT ARMS TO ACCOUNT FOR LARGEST MARKET SHARE IN 2025

FIGURE 2 ARTICULATED ROBOTS TO SECURE LARGEST MARKET SHARE IN 2025

FIGURE 3 FUNCTIONAL PART MANUFACTURING APPLICATIONS TO MAINTAIN TOP POSITION IN 2025

FIGURE 4 AEROSPACE & DEFENSE INDUSTRY TO DOMINATE MARKET IN 2025

FIGURE 5 ASIA PACIFIC TO BE RAPIDLY EXPANDING MARKET DURING FORECAST PERIOD

FIGURE 6 NORTH AMERICA TO HOLD LARGEST MARKET SHARE IN 2025

FIGURE 7 3D PRINTING ROBOT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 8 IMPACT ANALYSIS: DRIVERS

FIGURE 9 IMPACT ANALYSIS: RESTRAINTS

FIGURE 10 IMPACT ANALYSIS: OPPORTUNITIES

FIGURE 11 IMPACT ANALYSIS: CHALLENGES

FIGURE 12 3D PRINTING ROBOT MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 13 3D PRINTING ROBOT: ECOSYSTEM ANALYSIS

FIGURE 14 3D PRINTING ROBOT MARKET: VALUE CHAIN ANALYSIS

FIGURE 15 3D PRINTING ROBOT MARKET: PATENT ANALYSIS, 2014–2024

FIGURE 16 TRENDS/DISRUPTIONS INFLUENCING CUSTOMER BUSINESS

FIGURE 17 REVENUE ANALYSIS OF KEY FIVE PLAYERS IN 3D PRINTING ROBOT MARKET, 2021–2024

FIGURE 18 3D PRINTING ROBOT MARKET: SHARE OF KEY PLAYERS, 2024

FIGURE 19 COMPANY VALUATION, 2025

FIGURE 20 FINANCIAL METRICS (EV/EBITDA), 2025

FIGURE 21 BRAND/PRODUCT COMPARISON

FIGURE 22 3D PRINTING ROBOT MARKET: COMPETITIVE EVALUATION MATRIX (KEY PLAYERS), 2024

FIGURE 23 3D PRINTING ROBOT MARKET: COMPANY FOOTPRINT

FIGURE 24 3D PRINTING ROBOT MARKET: EVALUATION MATRIX (STARTUPS/SMES), 2024

FIGURE 25 KUKA AG: COMPANY SNAPSHOT

FIGURE 26 ADVANCED MICRO DEVICES, INC.: COMPANY SNAPSHOT

FIGURE 27 YASKAWA ELECTRIC CORPORATION: COMPANY SNAPSHOT

FIGURE 28 FANUC CORPORATION: COMPANY SNAPSHOT

FIGURE 29 3D PRINTING ROBOT MARKET: RESEARCH DESIGN

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