

In Space Manufacturing Market by Product Technology (Perovskite Photovoltaics cell, Graphene and solid-state Lithium batteries, Exchange membrane cells, Traction motor, Hydrogen propulsion system , Insulin), End Use and Region - Global Forecast to 2040

<https://marketpublishers.com/r/I1F97FD3270BEN.html>

Date: November 2023

Pages: 195

Price: US\$ 4,950.00 (Single User License)

ID: I1F97FD3270BEN

Abstracts

The In Space Manufacturing Market is estimated to be USD 4.6 billion in 2030 and is projected to reach USD 62.8 billion by 2040, at a CAGR of 29.7 % during the forecast period. Due to several factors, the global market for In Space Manufacturing is expanding significantly. In Space Manufacturing delivers several key advantages which includes space based asset management, replacement and repair of satellites, cost effective manufacturing of precision engineered products . In Space Manufacturing provides government, military and commercial users with a flexible, cost-effective alternatives for improving operational capabilities of space assets, remote repair and assembly capabilities and high quality products with wide applications in terrestrial markets.

” Quantum Dots Display ”: The fastest growing segment by product technology type during the forecast period.” Based on product technology type, the In Space Manufacturing market has been segmented into Perovskite Photovoltaics cell, Graphene and solid-state Lithium batteries ,Proton Exchange membrane cells, Traction motor, Hydrogen propulsion system ,Insulin,Electromagnetic metamaterials antennas, Perfect spheres bearings, Quantum Dots Display,Tissue /organ, ZBLAN fiber optics, Zeolite crystal. Quantum Dots Displays is expected to be the fastest-growing segment during the forecast period. .Quantum dots display enables manufacturers of displays and QD-LEDs to offer competitive technology compared to traditional high-end displays

currently in the market. The advantage of microgravity manufacturing of high quality quantum dots coupled with zero switching cost are key factors for the expected high uptake of this technology in the market.

“Japan to account for the largest CAGR in the In Space Manufacturing market in forecasted year”

Japan is expected to witness significant growth in the in the In Space Manufacturing market . Several factors contribute to this trend:

Expanding Space Programs:

Japan has been investing heavily in space programs and are leading in the manufacturing of key product technologies in healthcare, automotive and fiber optics industries. Japan being a developed country has a high demand for products that can be manufactured in space and used in its terrestrial markets.

Strategic Partnerships: Japan has been forming strategic partnerships and alliances with technology companies, both domestic and international, to leverage their manufacturing. These partnerships will enable the commercial players to scale the production of their products and increase uptake of semi-finished and finished space fabricated goods.

Break-up of profiles of primary participants in the In Space Manufacturing market: By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20% By Designation: C-Level Executives – 35%, Director level – 25%, and Others – 40% By Region: North America – 25%, Europe – 15%, Asia Pacific – 45%, Rest of the world – 15%

Prominent companies in the in-space manufacturing market are Allevi Inc. (US), Global Graphene Group, Inc. (US), Le Verre Fluore Fiber Solutions(France),Nedstack Fuel cell Technology BV (Netherlands) and Echodyne Corporation(US).among others.

Research Coverage: The market study covers the In Space Manufacturing market across segments. It aims at estimating the market size and the growth potential of this market across different segments, such as deployment type, service model, application, end user, and region. The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies. Key benefits of buying this report: This report will help the market leaders/new entrants in

this market with information on the closest approximations of the revenue numbers for the overall In Space Manufacturing market and its subsegments. The report covers the entire ecosystem of the In Space Manufacturing industry and will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers and there are several factors that could contribute to an increase in the In Space Manufacturing market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the In Space Manufacturing market.

Market Development: Comprehensive information about lucrative markets – the report analyses the In Space Manufacturing market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the In Space Manufacturing market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Allevi Inc. (US), Global Graphene Group, Inc. (US), Le Verre Fluore Fiber Solutions(France),Nedstack Fuel cell Technology BV (Netherlands) and Echodyne Corporation(US). among others in the In Space Manufacturing market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

TABLE 1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 IN-SPACE MANUFACTURING MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

TABLE 2 USD EXCHANGE RATES

1.5 LIMITATIONS

1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 REPORT PROCESS FLOW

FIGURE 3 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primary interviews

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

2.2 FACTOR ANALYSIS

2.2.1 INTRODUCTION

2.2.2 DEMAND-SIDE INDICATORS

2.2.3 SUPPLY-SIDE INDICATORS

2.2.4 RECESSION IMPACT ANALYSIS

2.3 MARKET SIZE APPROACH

2.3.1 BOTTOM-UP APPROACH

2.3.1.1 Market size estimation methodology

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4 DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION

2.5 RESEARCH ASSUMPTIONS

FIGURE 8 ASSUMPTIONS FOR RESEARCH STUDY

2.6 RESEARCH LIMITATIONS

2.7 RISK ANALYSIS

3 EXECUTIVE SUMMARY

FIGURE 9 TISSUES/ORGANS SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2030

FIGURE 10 QUANTUM DOT DISPLAYS SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2040

FIGURE 11 JAPAN TO BE FASTEST-GROWING MARKET FROM 2030 TO 2034

FIGURE 12 JAPAN AND SOUTH KOREA TO BE FASTEST-GROWING MARKETS FROM 2035 TO 2040

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN IN-SPACE MANUFACTURING MARKET

FIGURE 13 ADVANCEMENTS IN ADDITIVE MANUFACTURING AND 3D PRINTING TECHNOLOGIES TO DRIVE MARKET

4.2 IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY (2030)

FIGURE 14 TISSUES/ORGANS SEGMENT TO DOMINATE MARKET BY 2030

4.3 IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY (2030–2034)

FIGURE 15 TRACTION MOTORS SEGMENT TO DOMINATE MARKET BY 2034

4.4 IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY (2035–2040)

FIGURE 16 QUANTUM DOTS DISPLAYS SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2040

4.5 IN-SPACE MANUFACTURING MARKET, BY REGION

FIGURE 17 ASIA PACIFIC TO BE FASTEST-GROWING REGIONAL MARKET FROM 2030 TO 2034

FIGURE 18 REST OF THE WORLD TO BE FASTEST-GROWING REGIONAL MARKET FROM 2035 TO 2040

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 IN-SPACE MANUFACTURING MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Advancements in additive manufacturing and 3D printing technologies

5.2.1.2 Manufacturing advantages of in-space fabrication over terrestrial manufacturing

5.2.1.3 Increasing momentum for space-based infrastructure by government agencies and private players

5.2.1.4 Decreasing launch costs

5.2.2 RESTRAINTS

5.2.2.1 High costs involved in maturation of space-based manufacturing technologies

5.2.2.2 Restricted production scale due to unavailability of key manufacturing raw materials

5.2.3 OPPORTUNITIES

5.2.3.1 Need for in-space manufactured products for use in manned journeys and space habitats

5.2.3.2 New market for in-space services in expanding satellite constellations

5.2.4 CHALLENGES

5.2.4.1 Refinement and utilization of available resources for ISRU-based manufacturing processes

5.2.4.2 Long maturation timelines for key technologies in space-based manufacturing ecosystem

5.3 VALUE CHAIN ANALYSIS

FIGURE 20 VALUE CHAIN ANALYSIS OF IN-SPACE MANUFACTURING MARKET

5.4 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 21 TRENDS AND DISRUPTIONS IMPACTING IN-SPACE MANUFACTURING MARKET

5.5 IN-SPACE MANUFACTURING MARKET ECOSYSTEM

5.5.1 PROMINENT COMPANIES

5.5.2 PRIVATE AND SMALL ENTERPRISES

5.5.3 ECOSYSTEM

FIGURE 22 IN-SPACE MANUFACTURING MARKET ECOSYSTEM MAP

TABLE 3 IN-SPACE MANUFACTURING MARKET ECOSYSTEM

5.6 PORTER'S FIVE FORCES ANALYSIS

FIGURE 23 IN-SPACE MANUFACTURING MARKET: PORTER'S FIVE FORCES

ANALYSIS

TABLE 4 IN-SPACE MANUFACTURING MARKET: PORTER'S FIVE FORCE ANALYSIS

- 5.6.1 THREAT OF NEW ENTRANTS
- 5.6.2 THREAT OF SUBSTITUTES
- 5.6.3 BARGAINING POWER OF SUPPLIERS
- 5.6.4 BARGAINING POWER OF BUYERS
- 5.6.5 INTENSITY OF COMPETITIVE RIVALRY

5.7 REGULATORY LANDSCAPE

TABLE 5 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 6 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 8 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 TECHNOLOGY TRENDS

6.2.1 SPACE QUALIFICATION AND MINIATURIZATION OF 3D PRINTING TECHNOLOGY

6.2.2 ROBOTIC ASSEMBLY AND MANUFACTURING METHODS FOR SPACE HARDWARE

6.2.3 MODULAR MANUFACTURING OF SPACECRAFT AND SATELLITE COMPONENTS

6.3 USE CASE ANALYSIS

6.3.1 USE CASE 1: IN-SPACE MICROFABRICATION

6.3.2 USE CASE 2: COBOTS AND AI ROBOTS FOR SPACE FACTORIES

6.3.3 USE CASE 3: ADVANCED BIO-INKS

6.4 IMPACT OF MEGATRENDS

6.4.1 SOLAR PANEL MANUFACTURING FOR SATELLITES

6.4.2 DEVELOPMENT OF MISSION EXTENSION VEHICLES

6.5 PATENT ANALYSIS

TABLE 9 LIST OF KEY PATENTS

7 IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY

7.1 INTRODUCTION

FIGURE 24 QUANTUM DOT DISPLAYS SEGMENT TO REGISTER HIGHEST CAGR FROM 2030 TO 2034

FIGURE 25 QUANTUM DOT DISPLAYS SEGMENT TO REGISTER HIGHEST CAGR FROM 2035 TO 2040

TABLE 10 IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030-2034 (USD MILLION)

TABLE 11 IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035-2040 (USD MILLION)

7.2 PEROVSKITE PHOTOVOLTAIC CELLS

7.2.1 PEROVSKITE CELLS TO ADDRESS DEMAND FOR SUSTAINABLE AND EFFICIENT SOLAR POWER SOLUTIONS

7.3 GRAPHENE AND SOLID-STATE LITHIUM BATTERIES

7.3.1 GRAPHENE AND SOLID-STATE BATTERY TECHNOLOGY ADOPTION TO REDUCE DEPENDENCE ON TRADITIONAL BATTERIES

7.4 PROTON EXCHANGE MEMBRANE CELLS (PEMC)

7.4.1 AUTOMATION OF LABOR-INTENSIVE PEMC MANUFACTURING PROCESSES TO STREAMLINE MANUFACTURING

7.5 TRACTION MOTORS

7.5.1 POWERFUL ELECTRIC DRIVES TO REPLACE TRADITIONAL MOTORS IN TRAINS

7.6 HYDROGEN PROPULSION SYSTEMS

7.6.1 MICROGRAVITY ENVIRONMENT TO MITIGATE COMPLEX MANUFACTURING CHALLENGES

7.7 INSULIN

7.7.1 INCREASING DEMAND FOR EXPENSIVE LIFE-SAVING DRUGS TO BE SUSTAINED BY IN-SPACE MANUFACTURING

7.8 ELECTROMAGNETIC METAMATERIAL ANTENNAS

7.8.1 LOW-RESOURCE MANUFACTURING OF ADVANCED ANTENNAS TO REDUCE TERRESTRIAL PRODUCTION COSTS

7.9 PERFECT SPHERE BEARINGS

7.9.1 NEED FOR ACCURATE AND REAL-TIME TARGET INFORMATION TO ENHANCE MILITARY MISSION CAPABILITIES

7.10 QUANTUM DOT DISPLAYS

7.10.1 PRECISION MANUFACTURING IN MICROGRAVITY ENVIRONMENT TO DRIVE ADOPTION OF HIGH-QUALITY DISPLAYS

7.11 TISSUES/ORGANS

7.11.1 NOVEL MANUFACTURING PROCESSES TO ENABLE ORGAN AND TISSUE

BIO-PRINTING

7.12 ZBLAN FIBER OPTICS

7.12.1 SPACE FABRICATION OF HIGH-QUALITY OPTICAL FIBERS TO BE COST-EFFECTIVE

7.13 ZEOLITE CRYSTALS

7.13.1 MICROGRAVITY CONDITIONS TO ENABLE HIGH-QUALITY ZEOLITE CRYSTAL PRODUCTION

8 IN-SPACE MANUFACTURING MARKET, BY END USER

8.1 INTRODUCTION

8.2 GOVERNMENT & MILITARY

8.2.1 IN-SPACE MANUFACTURING TO ADDRESS DEMAND FOR REPAIR AND MAINTENANCE OF SPACE-BASED ASSETS AND IMPROVED MISSION FUNCTIONALITY

8.3 COMMERCIAL

8.3.1 INVESTMENTS IN SPACE ECONOMY TO DRIVE MARKET

9 IN-SPACE MANUFACTURING MARKET, BY POINT OF USE

9.1 INTRODUCTION

9.2 SPACE

9.2.1 IN-SPACE MANUFACTURING TO BE ADVANTAGEOUS FOR CONTINUED GROWTH OF NEW SPACE ECOSYSTEM

9.3 TERRESTRIAL

9.3.1 IN-SPACE PRODUCTS TO WITNESS INCREASED DEMAND IN FUTURE

10 IN-SPACE MANUFACTURING MARKET, BY REGION

10.1 INTRODUCTION

10.2 RECESSION IMPACT ON IN-SPACE MANUFACTURING MARKET

TABLE 12 IN-SPACE MANUFACTURING MARKET, BY REGION, 2030–2034 (USD MILLION)

TABLE 13 IN-SPACE MANUFACTURING MARKET, BY REGION, 2035–2040 (USD MILLION)

10.3 NORTH AMERICA

10.3.1 PESTLE ANALYSIS: NORTH AMERICA

FIGURE 26 NORTH AMERICA: IN-SPACE MANUFACTURING MARKET SNAPSHOT

TABLE 14 NORTH AMERICA: IN-SPACE MANUFACTURING MARKET, BY

COUNTRY, 2030–2034 (USD MILLION)

TABLE 15 NORTH AMERICA: IN-SPACE MANUFACTURING MARKET, BY COUNTRY, 2035–2040 (USD MILLION)

TABLE 16 NORTH AMERICA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 17 NORTH AMERICA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.3.2 US

10.3.2.1 Increasing investment in new space economy to drive market

TABLE 18 US: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 19 US: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.3.3 CANADA

10.3.3.1 Government incentives to develop advanced technologies for space exploration and mining to drive market

TABLE 20 CANADA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 21 CANADA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.4 EUROPE

10.4.1 PESTLE ANALYSIS: EUROPE

TABLE 22 EUROPE: IN-SPACE MANUFACTURING MARKET, BY COUNTRY, 2030–2034 (USD MILLION)

TABLE 23 EUROPE: IN-SPACE MANUFACTURING MARKET, BY COUNTRY, 2035–2040 (USD MILLION)

TABLE 24 EUROPE: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 25 EUROPE: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.4.2 UK

10.4.2.1 Collaborations between private and government entities to develop advanced material manufacturing processes to drive market

TABLE 26 UK: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 27 UK: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.4.3 FRANCE

10.4.3.1 Favorable government policies and maturation of advanced technologies to

drive market

TABLE 28 FRANCE: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 29 FRANCE: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.4.4 GERMANY

10.4.4.1 Sizeable aerospace industries and strong investments in technology to drive market

TABLE 30 GERMANY: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 31 GERMANY: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.4.5 RUSSIA

10.4.5.1 Diversification of technology products and development of advanced hardware to enable commercial viability of ISM products to drive market

TABLE 32 RUSSIA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 33 RUSSIA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.4.6 ITALY

10.4.6.1 Domestic space programs to drive market

TABLE 34 ITALY: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 35 ITALY: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.5 ASIA PACIFIC

10.5.1 PESTLE ANALYSIS: ASIA PACIFIC

FIGURE 28 ASIA PACIFIC: IN-SPACE MANUFACTURING MARKET SNAPSHOT

TABLE 36 ASIA PACIFIC: IN-SPACE MANUFACTURING MARKET, BY COUNTRY, 2030–2034 (USD MILLION)

TABLE 37 ASIA PACIFIC: IN-SPACE MANUFACTURING MARKET, BY COUNTRY, 2035–2040 (USD MILLION)

TABLE 38 ASIA PACIFIC: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 39 ASIA PACIFIC: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.5.2 CHINA

10.5.2.1 Strong government initiatives to increase contribution in all space programs to drive market

TABLE 40 CHINA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 41 CHINA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.5.3 INDIA

10.5.3.1 Future space programs and increasing commercial players in space technology segment to drive market

TABLE 42 INDIA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 43 INDIA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.5.4 JAPAN

10.5.4.1 Growing demand for drone services in agriculture, inspection, and entertainment to drive market

TABLE 44 JAPAN: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 45 JAPAN: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.5.5 SOUTH KOREA

10.5.5.1 Growing demand for high-quality fibers and precision machined goods to drive market

TABLE 46 SOUTH KOREA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 47 SOUTH KOREA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.6 REST OF THE WORLD

10.6.1 PESTLE ANALYSIS: REST OF THE WORLD

FIGURE 29 REST OF THE WORLD: IN-SPACE MANUFACTURING MARKET SNAPSHOT

TABLE 48 REST OF THE WORLD: IN-SPACE MANUFACTURING MARKET, BY REGION, 2030–2034 (USD MILLION)

TABLE 49 REST OF THE WORLD: IN-SPACE MANUFACTURING MARKET, BY REGION, 2035–2040 (USD MILLION)

TABLE 50 REST OF THE WORLD: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 51 REST OF THE WORLD: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.6.2 MIDDLE EAST & AFRICA

10.6.2.1 Increasing applicability of drones in defense and commercial sectors to drive

market

TABLE 52 MIDDLE EAST & AFRICA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 53 MIDDLE EAST & AFRICA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

10.6.3 LATIN AMERICA

10.6.3.1 Emergence of new players in technology sector to drive market

TABLE 54 LATIN AMERICA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2030–2034 (USD MILLION)

TABLE 55 LATIN AMERICA: IN-SPACE MANUFACTURING MARKET, BY PRODUCT TECHNOLOGY, 2035–2040 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

TABLE 56 KEY DEVELOPMENTS BY LEADING PLAYERS IN IN-SPACE MANUFACTURING MARKET, 2019–2023

11.2 RANKING ANALYSIS

FIGURE 30 MARKET RANKING OF TOP 5 PLAYERS, 2023

11.3 COMPANY EVALUATION MATRIX

11.3.1 STARS

11.3.2 EMERGING LEADERS

11.3.3 PERVASIVE PLAYERS

11.3.4 PARTICIPANTS

FIGURE 31 IN-SPACE MANUFACTURING MARKET: COMPANY EVALUATION MATRIX, 2022

11.4 COMPANY FOOTPRINT

TABLE 57 COMPANY PRODUCT FOOTPRINT

TABLE 58 COMPANY PRODUCT TECHNOLOGY FOOTPRINT (PEROVSKITE PHOTOVOLTAIC CELLS, TRACTION MOTORS, AND OTHERS)

TABLE 59 COMPANY PRODUCT TECHNOLOGY FOOTPRINT (PERFECT SPHERE BEARINGS, TISSUES/ORGANS, AND OTHERS)

TABLE 60 COMPANY REGIONAL FOOTPRINT

11.5 COMPETITIVE SCENARIO

11.5.1 MARKET EVALUATION FRAMEWORK

11.5.2 PRODUCT LAUNCHES

TABLE 61 PRODUCT LAUNCHES, 2019–2023

11.5.3 DEALS

TABLE 62 DEALS, 2019–2023

11.5.4 OTHERS

TABLE 63 OTHERS, 2019–2023

12 COMPANY PROFILES

12.1 INTRODUCTION

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

12.1.1 OXFORD PHOTOVOLTAICS LTD.

TABLE 64 OXFORD PHOTOVOLTAICS LTD.: COMPANY OVERVIEW

TABLE 65 OXFORD PHOTOVOLTAICS LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 66 OXFORD PHOTOVOLTAICS LTD.: OTHERS

12.1.2 QUANTUMSCAPE CORPORATION

TABLE 67 QUANTUMSCAPE CORPORATION: COMPANY OVERVIEW

TABLE 68 QUANTUMSCAPE CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 69 QUANTUMSCAPE CORPORATION: PRODUCT DEVELOPMENTS

TABLE 70 QUANTUMSCAPE CORPORATION: DEALS

12.1.3 NEDSTACK FUEL CELL TECHNOLOGY BV

TABLE 71 NEDSTACK FUEL CELL TECHNOLOGY BV: COMPANY OVERVIEW

TABLE 72 NEDSTACK FUEL CELL TECHNOLOGY BV: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 73 NEDSTACK FUEL CELL TECHNOLOGY BV: PRODUCT DEVELOPMENTS

TABLE 74 NEDSTACK FUEL CELL TECHNOLOGY BV: DEALS

12.1.4 ECHODYNE CORPORATION

TABLE 75 ECHODYNE CORPORATION: COMPANY OVERVIEW

TABLE 76 ECHODYNE CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 77 ECHODYNE CORPORATION: PRODUCT DEVELOPMENTS

TABLE 78 ECHODYNE CORPORATION: DEALS

12.1.5 ABB LTD.

TABLE 79 ABB LTD.: COMPANY OVERVIEW

FIGURE 32 ABB LTD.: COMPANY SNAPSHOT

TABLE 80 ABB LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 81 ABB LTD.: DEALS

12.1.6 SIEMENS AG

TABLE 82 SIEMENS AG: COMPANY OVERVIEW

FIGURE 33 SIEMENS AG: COMPANY SNAPSHOT**TABLE 83 SIEMENS AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 84 SIEMENS AG: DEALS****12.1.7 3D BIOPRINTING SOLUTIONS****TABLE 85 3D BIOPRINTING SOLUTIONS: COMPANY OVERVIEW****TABLE 86 3D BIOPRINTING SOLUTIONS: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 87 3D BIOPRINTING SOLUTIONS: PRODUCT DEVELOPMENTS****12.1.8 LE VERRE FLUORE FIBER SOLUTIONS****TABLE 88 LE VERRE FLUORE FIBER SOLUTIONS: COMPANY OVERVIEW****TABLE 89 LE VERRE FLUORE FIBER SOLUTIONS: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 90 LE VERRE FLUORE FIBER SOLUTIONS: PRODUCT DEVELOPMENTS****TABLE 91 LE VERRE FLUORE FIBER SOLUTIONS: DEALS****12.1.9 ALLEVI****TABLE 92 ALLEVI: COMPANY OVERVIEW****TABLE 93 ALLEVI: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 94 ALLEVI: DEALS****12.1.10 THORLABS, INC.****TABLE 95 THORLABS, INC.: COMPANY OVERVIEW****TABLE 96 THORLABS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 97 THORLABS, INC.: DEALS****12.1.11 GLOBAL GRAPHENE GROUP, INC. (G3)****TABLE 98 GLOBAL GRAPHENE GROUP, INC. (G3): COMPANY OVERVIEW****TABLE 99 GLOBAL GRAPHENE GROUP, INC. (G3): PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 100 GLOBAL GRAPHENE GROUP, INC. (G3): PRODUCT DEVELOPMENTS****TABLE 101 GLOBAL GRAPHENE GROUP, INC. (G3): DEALS****12.1.12 FRACTAL ANTENNA SYSTEMS, INC.****TABLE 102 FRACTAL ANTENNA SYSTEMS, INC.: COMPANY OVERVIEW****TABLE 103 FRACTAL ANTENNA SYSTEMS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 104 FRACTAL ANTENNA SYSTEMS, INC.: PRODUCT DEVELOPMENTS****12.1.13 HYPERSONIX LAUNCH SYSTEMS LTD.****TABLE 105 HYPERSONIX LAUNCH SYSTEMS LTD.: COMPANY OVERVIEW****TABLE 106 HYPERSONIX LAUNCH SYSTEMS LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 107 HYPERSONIX LAUNCH SYSTEMS LTD.: PRODUCT DEVELOPMENTS****TABLE 108 HYPERSONIX LAUNCH SYSTEMS LTD.: DEALS**

12.1.14 NOVO NORDISK A/S

TABLE 109 NOVO NORDISK A/S: COMPANY OVERVIEW

FIGURE 34 NOVO NORDISK A/S: COMPANY SNAPSHOT

TABLE 110 NOVO NORDISK A/S: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 111 NOVO NORDISK A/S: DEALS

12.1.15 ENECOAT TECHNOLOGIES

TABLE 112 ENECOAT TECHNOLOGIES: COMPANY OVERVIEW

TABLE 113 ENECOAT TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 114 ENECOAT TECHNOLOGIES: DEALS

12.1.16 FOMS, INC.

TABLE 115 FOMS, INC.: COMPANY OVERVIEW

TABLE 116 FOMS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 117 FOMS, INC.: PRODUCT DEVELOPMENTS

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

I would like to order

Product name: In Space Manufacturing Market by Product Technology (Perovskite Photovoltaics cell, Graphene and solid-state Lithium batteries, Exchange membrane cells, Traction motor, Hydrogen propulsion system, Insulin), End Use and Region - Global Forecast to 2040

Product link: <https://marketpublishers.com/r/l1F97FD3270BEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/l1F97FD3270BEN.html>

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

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

****All fields are required**

Customer signature _____

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

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