Middle East and Africa 3D printing in healthcare Market (2018-2023)

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Abstracts

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Middle East and Africa 3D printing in healthcare market

The value of the 3D printing in healthcare market in the Middle East and Africa is expected to reach a value of USD 1.97 Bn by 2023, expanding at a compound annual growth rate (CAGR) of 21.82% during 2018-2023.

3D printing can be defined as the process of building three-dimensional solid objects from digital designs. The creation of 3D printed objects is done using various additive processes. The additive process involves laying down successive layers of a material until the desired object is created. Each of these layers can be visualized as a thinly sliced horizontal cross-section of the final object. 3D printing is the exact opposite of subtractive manufacturing, which involves hollowing out /carving out pieces of metal or plastic from a mass. This process opens up opportunities for the production of complex shapes using less material in comparison to traditional manufacturing methods. In the field of medicine, this procedure is used to manufacture objects like prosthetics and implants, using several materials like metal, plastic, etc.

3D printing in healthcare allows for the creation of replacement organs to support existing biological parts. It is widely used in cardiovascular, cranial-maxillo facial surgery, radiology, orthopaedic, biofabrication, as a surgical guide, and many more.

Based on technology, the market can be segmented into laser beam melting (LBM), electron beam melting (LBM), photopolymerization, droplet deposition, laminated object manufacturing, and others.
Based on material, the sub-segments are plastic, metal, ceramic and others.
Based on type, the sub-segments include prosthetics, implants, surgical guides, hearing

aid and others.

Key growth factors

The main factor contributing to the growth of this market in the Middle East and Africa region is the abundant availability of human resources (both domestic and migrant). The standard of living is generally high in the Middle East, which increases their inclination towards innovative medical solutions. Recently, a lot of progress has been made towards the opening of a 3D printing zone in the country, which will certainly boost the industry. Due to the high spending power of the government and the presence of highly qualified personnel in the region, technological development is high, which makes industrial processes more efficient. This will provide a supportive environment for the 3D printing industry.

Threats and key players

Obtaining permissions and approvals for usage of 3D printing in the field of medical science is the main challenge in this region. Also, even though the Middle East region has specialized hospitals, Africa finds itself lacking heavily in this aspect.
The key players are Stratasys Ltd. and Renishaw.

What is covered in the report?

1. Overview of the 3D printing in healthcare market in the Middle East and Africa region.
2. Market drivers and challenges in the 3D printing in healthcare market in the Middle East and Africa region.
3. Market trends in the 3D printing in healthcare market in the Middle East and Africa region.
4. Historical, current and forecasted market size data for the 3D printing in healthcare market in the Middle East and Africa region.
5. Historical, current and forecasted market size data for the segment based on technology [laser beam melting (LBM), electron beam melting (EBM), photopolymerization, droplet deposition, laminated object manufacturing, and others].
6. Historical, current and forecasted market size data for the segment based on material (plastic, metal, ceramic, and others).
7. Historical, current and forecasted market size data for the segment based on type (prosthetics, implants, surgical guides, hearing aid and others).
8. Historical, current and forecasted regional (Middle East and Africa) market size data for the 3D printing in healthcare market.

9. Analysis of the 3D printing in healthcare market in the Middle East and Africa by value chain.
10. Analysis of the competitive landscape and profiles of major competitors operating in the market.

Why buy?

1. Understand the demand for 3D printing in healthcare to determine the viability of the market.
2. Identify the developed and emerging markets for 3D printing in healthcare.
3. Identify the challenges and address them.
4. Develop strategies based on the drivers, trends and highlights for each of the segments.
5. Evaluate the value chain to determine the workflow.
6. Recognize the key competitors of this market and respond accordingly.
7. Knowledge of the initiatives and growth strategies taken by the major companies and decide on the direction of further growth.

Customizations available

With the given market data, Netscribes offers customizations according to specific needs.

Contents

2.7. Market size based on type (prosthetics, implants, surgical guides, hearing aid and others)
2.7. a. Revenue from prosthetics Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
2.7. b. Revenue from implants Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
2.7. c. Revenue from surgical guides Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
2.7. d. Revenue from hearing aid Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
2.7. e. Revenue from others Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations 2.8. Market size by application (BFSI, automotive, healthcare, government and others)

CHAPTER 3: THE MIDDLE EAST 3D PRINTING IN HEALTHCARE MARKET OVERVIEW

3.1. Market overview market trends, market attractiveness analysis, geography wise market revenue (USD)
3.2. The Middle East market drivers and challenges
3.3. Market size based on technology (laser beam melting (LBM), electron beam melting (EBM), photopolymerization, droplet deposition, laminated object manufacturing and others)
3.3. a. Revenue from LBM Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.3. b. Revenue from EBM Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.3. c. Revenue from photopolymerization Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.3. d. Revenue from droplet deposition Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.3. e. Revenue from laminated object manufacturing Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.3. f. Revenue from others Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.4. Market size based on material (plastic, metal, ceramic and others)
3.4. a. Revenue from plastic Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations
3.4. b. Revenue from metal Historical (2015-2017) and forecasted (2018-2023) market

size (USD Bn) and key observations

3.4. c. Revenue from ceramic Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

3.4. d. Revenue from others Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

3.5. Market size based on type (prosthetics, implants, surgical guides, hearing aid and others)

3.5. a. Revenue from prosthetics Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

3.5. b. Revenue from implants Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

3.5. c. Revenue from surgical guides Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

3.5. d. Revenue from hearing aid Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

3.5. e. Revenue from others Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

CHAPTER 4: AFRICA 3D PRINTING IN HEALTHCARE MARKET OVERVIEW

4.1. Market overview market trends, market attractiveness analysis, geography-wise market revenue (USD)

4.2. Africa market drivers and challenges

4.3. Market size based on technology (laser beam melting (LBM), electron beam melting (EBM), photopolymerization, droplet deposition, laminated object manufacturing and others)

4.3. a. Revenue from LBM Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

4.3. b. Revenue from EBM Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

4.3. c. Revenue from photopolymerization Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

4.3. d. Revenue from droplet deposition Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

4.3. e. Revenue from laminated object manufacturing Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

4.3. f. Revenue from others Historical (2015-2017) and forecasted (2018-2023) market size (USD Bn) and key observations

4.4. Market size based on material (plastic, metal, ceramic and others)

CHAPTER 5: COMPETITIVE LANDSCAPE

CHAPTER 6: CONCLUSION

CHAPTER 7: APPENDIX

7.1. List of tables
7.2. Research methodology
7.3. Assumptions
7.4. About Netscribes Inc.

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