

# **Saudi Arabia Aluminium-Extrusion Market By Product Type (Mill-Finished, Anodized and Powder-Coated), By End-Use Industry (Building & Construction, Automotive & Transportation, Electrical & Electronics, Consumer Durables and Others), By Alloy Type (1000 Series, 2000 Series, 3000 Series, 5000 Series, 6000 Series and 7000 Series), By Shape (Composite Shapes, Rods & Bars and Pipes & Tubes), By Region, Competition Forecast & Opportunities, 2018 -2028F**

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## **Abstracts**

Saudi Arabia Aluminium-Extrusion market is expected to register a robust CAGR during the forecast period. Increase in demand for lightweight and durable extrusion products in various industries is expected to drive the market growth of Saudi Arabia aluminium extrusion during the forecast period.

Aluminium extrusion is the process of shaping Aluminium using a mold cavity. In the extrusion process, the ram pushes the Aluminium product out of the mold and comes out with the same shape as the mold. After the Extrusion product has cooled, it is moved to a certain distance so that it is perfectly straight. There are basically three shapes of Aluminium extrusions: Hollow, Semi-Hollow and Solid. Aluminium extrusions are widely used in the building and construction, automotive and transportation, and electrical industries.

Increase in Demand for Housing Boosts Aluminium-Extrusion Market in the Forecast Period

Saudi Arabia residential market grew in the third quarter of 2022, and apartment prices in Riyadh increased at the highest rate in at least five years by 17% 2017-2022. During the same time, villa prices increased by close to 10%.

The arrival of Saudi nationals and expatriates moving to Riyadh from other cities is directly fuelling the rising demand, which is being fuelled by a growing urban population. Apartment prices in Jeddah, like those in Riyadh, increased by 11.7%, in 2022.

The increase in demand for housing in Saudi Arabia has significantly boosted the aluminium-extrusion market. As the country experiences population growth and urbanization, there is a rising need for residential construction, which drives the demand for aluminium extrusions. Aluminium extrusions are widely used in the construction industry for window frames, door frames, curtain walls, and other structural components. The lightweight, durability, and versatility of aluminium, make it a preferred choice for building materials. The surge in housing demand in Saudi Arabia has created a robust market for aluminium extrusions, stimulating growth and opportunities for manufacturers in the industry.

#### Increase in Demand of Lightweight Materials in Automotive Will Propel the Market in the Forecast Period

The automotive industry is seeing an increase in the development of lightweight materials like aluminum, which makes it possible to make vehicles with lighter bodies. Client prerequisites, like style, tasteful appearance, decreased NVH (commotion, vibration, and cruelty), and solace, are additionally impacting lightweight materials innovation. New manufacturing processes, secondary mass effects, and integrated vehicle system design have all contributed to a weight reduction of nearly 30% in high-strength steel-intensive vehicle bodies and nearly 40% in aluminum-intensive vehicle bodies thanks to mass-optimized design technology. Even though aluminium has been used for a long time in automotive, the market is driven by innovations in aluminium industry such as increase in aluminium's strength and ductility and related casting machinery. For instance, Tesla CEO Elon Musk announced in September 2020 that a single aluminium casting machine-made module would replace 70 components that were bonded and riveted into the rear underbody of the new Model Y.

In general, EVs use aluminium extrusion products to increase range of vehicle, safety, and overall driving aesthetics, along with improving fuel economy (in PHEVs). The parts where aluminium extrusions can be used are Space frames, doors, hoods, hang-on parts, trunk lids, bumpers, crash boxes, bodies in white, and car bodies, among other

components. Regulatory authorities emphasized on fuel efficiency and light weight of the body, due to which market is expected to expand over the forecast period as they implement laws to cut carbon emissions and materials costs through constant R&D.

## Giga Infrastructure Projects in Saudi Arabia to Boost the Construction Market Sector

Saudi Arabia's many Giga projects in progress, such as transportation and mobility initiatives like the Riyadh Metro, social infrastructure developments like the Ministry of Housing's Sakani program, and energy megaprojects like the state-owned Aramco's Berri and Marjan Oil Fields, highlight the significance of construction and many more in the list.

The Saudi Arabia big cities, which are currently under construction, will provide future growth as the nation's economy enters a post-oil era. More than 5,200 construction projects worth USD819 billion are underway in Saudi Arabia. The value of these ongoing projects in the Gulf Cooperation Council (GCC) is approximately 35% of the total value. Neom, the Red Sea Project, Qiddiya entertainment city, Amaala, Jean Nouvel's Sharaan resort in Al-Ula, Makkah Grand Mosque – Third Expansion, Jeddah Tower, Ministry of Housing's Sakani homes, Jabal Omar, Al Widyan, Riyadh Metro, Riyadh Rapid Bus Transit System, King Fahd Medical City Expansion, King Abdullah Bin Abdulazi, among others, are some of the major Infrastructure projects that are currently active or some will be started in near future. As per rising projects, the demand of Aluminium-Extrusion in manufacturing process is positively impacted. However, all Giga Infrastructure Projects in Saudi Arabia that are explained above, will boost the market in the forecast period.

## Emerging Technologies and Innovations in Saudi Arabia Aluminium-Extrusion Market

Extrusion of aluminium is a tried-and-best method for generating intricate designs and forms out of aluminium alloys. It is used extensively in construction, automotive, aerospace, consumer goods, and other sectors. Since years, aluminium extrusion has undergone numerous improvements, resulting in a more cost-effective and efficient method. New technologies that promise to further alter the process have emerged in recent years.

Some of the Emerging Technologies and Innovations are:

**Three-dimensional printing:** The ability of 3D printing technology to produce very complicated designs quickly and affordably has grabbed interest in a wide range

of sectors. The necessary extrusion dies can be made using 3D printing in aluminium extrusion. This technology can produce detailed shapes and geometries that are difficult to achieve using other die-making methods. Its flexibility can make it possible to make new designs and cut down on the amount of time and money spent making traditional dies.

**Hot Extrusion:** The modern innovation known as hot expulsion includes extruding aluminum at higher temperatures than those utilized in more routine strategies. The aluminum gets to be more adaptable because of the tall temperatures, making it conceivable to expel more slender dividers and more troublesome plans. By utilizing hot expulsion, aluminum parts can be made more grounded and more complicated, decreasing the requirement for extra fabricating steps.

**Artificial Intelligence:** The prominent field of artificial intelligence (AI) has the potential to transform numerous industries, including aluminium extrusion. AI can be used to make the extrusion process work better, resulting in less waste of materials and good products. Extrusion component flaws can also be detected by AI, reducing the need for manual inspection, and improving quality control.

**Robotics:** An emerging trend in aluminium extrusion is robotic technology. The extrusion process can be automated with robots, reducing the need for human labour, and increasing productivity. Material handling and product inspection are two other areas where robotic technology can be used to improve quality control and shorten lead times in Aluminium Extrusion. All the above-mentioned technologies are gaining traction, due to which the market is expected to register a high CAGR in the future time frame.

The process of aluminium extrusion has a bright future due to new developments and technologies that assure to further modernize it. The aluminium extrusion industry's future will be shaped by new technologies like 3D printing, hot extrusion, hybrid extrusion, nanostructured aluminium, recycling, artificial intelligence, and robotics. The aluminium extrusion process is even more interesting because these technologies make it possible to increase design flexibility, efficiency, cost-effectiveness, and quality control.

## Market Segments

Saudi Arabia Aluminium-Extrusion Market is segmented based on Product Type, End-Use Industry, Alloy Type, and Shape. Based on Product Type, the market is fragmented into Mill-Finished, Anodized, and Powder-Coated. Based on End-Use Industry, the market is further fragmented into Building & Construction, Automotive & Transportation, Electrical & Electronics, Consumer Durables, and Others. Based on Alloy Type, the market is fragmented into 1000 Series, 2000 Series, 3000 Series, 5000 Series, 6000 Series and 7000 Series. Based on Shape, the market is fragmented into Composite Shapes, Rods & Bars, and Pipes & Tubes.

## Market Players

The market players in the Saudi Arabia Aluminium-Extrusion Market include Aluminium Products Company Ltd., Eastern Aluminium Extrusion, Emirates Global Aluminium, Gulf Extrusion Company LLC, Al Taiseer Aluminium Company, Taweelah Aluminium Extrusion Company LLC, National Aluminium Products Company, Elite Extrusion LLC, Emirates Extrusion Factor LLC, Arabian Extrusions Factory.

## Report Scope:

In this report, Saudi Arabia Aluminium-Extrusion Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Saudi Arabia Aluminium-Extrusion Market, By Product Type:

Mill-Finished

Anodized

Powder-Coated

### Saudi Arabia Aluminium-Extrusion Market, By End-Use Industry:

Building & Construction,

Automotive & Transportation

Electrical & Electronics

Consumer Durables

Others

Saudi Arabia Aluminium-Extrusion Market, By Alloy Type:

1000 Series

2000 Series

3000 Series

5000 Series

6000 Series

7000 Series

Saudi Arabia Aluminium-Extrusion Market, By Shape:

Composite Shapes

Rods & Bars

Pipes & Tubes

Saudi Arabia Aluminium-Extrusion Market, By Region:

Riyadh

Makkah

Eastern Province

Rest of Saudi Arabia

Competitive Landscape

*Saudi Arabia Aluminium-Extrusion Market By Product Type (Mill-Finished, Anodized and Powder-Coated), By End-Us...*

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Aluminium-Extrusion Market.

Available Customizations:

Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players.

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