

Aluminum Extrusion Market by Product (Solid Profiles, Semi-Hollow Profiles, and Hollow Profiles), Alloy Grade (6xxx, 1xxx, 5xxx, Other grades), Surface Finish, End-use Industry (Construction & Infrastructure, Automotive & Mass Transport, Electrical & Electronics, Machinery & Equipment, and Other End-use Industries), and Region - Global Forecast to 2030

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Report description:

The aluminum extrusion market is estimated at USD 111.88 billion in 2024 and is projected to reach USD 166.65 billion by 2030, at a CAGR of 7.0% from 2025 to 2030. Solid profiles dominated the overall aluminum extrusion market owing to the simplicity in manufacturing and structural solidity. Solid profiles include shapes like rods, bars, flat bars, angles (L-profiles), channels (U or C shapes), and beams, offering high material density for strength without internal openings. They are extruded using straightforward solid dies, making production faster and more cost-effective than complex profiles like semi-hollow and hollow profiles.

<https://mnmimg.marketsandmarkets.com/Images/aluminum-extrusion-market-img-overview.webp>

"By alloy grade, 6xxx alloy grade accounted for the largest share of the overall aluminum extrusion market in 2024." 6xxx series aluminum alloys dominate the aluminum extrusion market due to their optimal combination of extrudability, medium-to-high strength, corrosion resistance, and heat-treatable properties. These alloys, primarily alloyed with magnesium (Mg) and silicon (Si) to form magnesium silicide, enable complex shapes and thin-walled profiles essential for extrusions. 6xxx alloys offer excellent formability during extrusion, good weldability with 4xxx or 5xxx fillers, and superior surface finish for

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anodizing or painting. Common tempers like T5 or T6 enhance strength via precipitation hardening at 160-182C. They balance tensile strength (18-58 ksi) with ductility, though sensitive to cracking if not managed.

"The mill-finished segment is estimated to be the most preferred surface finish of aluminum extrusion during the forecast period." The mill-finished segment is expected to dominate the market and register the highest CAGR during the forecast period. Lower production costs from skipping finishing processes make mill-finished extrusions attractive for high-volume manufacturing, especially amid rising raw material prices and inflation pressures. This segment benefits from shorter lead times, enabling quick supply to industrial users who apply custom finishes later.

"The construction & infrastructure end-use industry dominated the aluminum extrusion market in 2024."

The construction & infrastructure sector is projected to grow at the highest CAGR of 6.9% during the forecast period, in terms of value. The construction industry is also one of the major end users of aluminum extruded products. Aluminum is considered one of the most viable building materials due to the wide range of benefits it offers, such as light strength-to-weight ratio, sustainability, recyclability, and versatility. Aluminum is widely used in construction as it helps building projects qualify for green building status under the Leadership in Energy and Environmental Design (LEED) standards.

"Asia Pacific is estimated to account for the largest share in the overall aluminum extrusion market."

Asia Pacific holds the dominant share in the global aluminum extrusion market. This leadership stems from rapid industrialization, urbanization, and surging demand across key sectors. Robust economic growth in countries like China, India, Japan, and South Korea fuels infrastructure projects and high-rise construction, which heavily rely on extruded aluminum for its lightweight strength and corrosion resistance.

The automotive industry in the region prioritizes lightweight materials for fuel-efficient vehicles amid strict emissions rules, with China as the world's largest auto market. Electronics, machinery, and renewable energy sectors (like solar frames) further boost usage due to aluminum's conductivity and versatility.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided based on the following three categories:

-□By Company Type - Tier 1 - 60%, Tier 2 - 20%, and Tier 3 - 20%

-□By Designation - C Level - 33%, Director Level - 33%, and Others - 34%

-□By Region - North America - 20%, Europe - 25%, Asia Pacific - 25%, Middle East & Africa -20%, South America - 10%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include Jindal Aluminum Limited (India), Hindalco Industries Ltd. (India), Alcoa Corporation (US), Aluminum Corporation of China Limited (China), RUSAL (Russia), Century Aluminum Company (US), Norsk Hydro ASA (Norway), Constellium (France), Kaiser Aluminum (US), Hammerer Aluminum Industries (Austria), Banco Aluminium Private Limited (India), Maan Aluminium Limited (India), Shenzhen Oriental Turdo Ironwares Co., Ltd. (China), ETEM (Greece), and Alom Group (India).

Research Coverage

This research report categorizes the aluminum extrusion market by product (solid profiles, semi-hollow profiles, and hollow profiles), alloy grade (6xxx, 1xxx, 5xxx, and other grades), surface finish (mill-finished, anodized, and powder coated), end-use industry (construction & infrastructure, automotive & mass transport, electrical & electronics, and machinery & equipment), and region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the aluminum extrusion market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers & acquisitions, and recent developments in the aluminum extrusion market are all covered. This report includes a competitive analysis of upcoming startups in the aluminum extrusion market ecosystem.

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Reasons to buy this report:

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall aluminum extrusion market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of key drivers (Rising demand from automotive sector, Cross-industry adoption), restraints (Capital Intensity, High Energy Consumption), opportunities (Advanced manufacturing technologies, Unmet needs for premium alloys or services), and challenges (Raw material cost volatility, Energy consumption and sustainability) influencing the growth of the aluminum extrusion market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the aluminum extrusion market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the aluminum extrusion market across varied regions.

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the aluminum extrusion market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players, such as Jindal Aluminum Limited (India), Hindalco Industries Ltd. (India), Alcoa Corporation (US), Aluminum Corporation of China Limited (China), RUSAL (Russia), Century Aluminum Company (US), Norsk Hydro ASA (Norway), Constellium (France), Kaiser Aluminum (US), Hammerer Aluminum Industries (Austria), Banco Aluminium Private Limited (India), Maan Aluminium Limited (India), Shenzhen Oriental Turdo Ironwares Co., Ltd. (China), ETEM (Greece), and Alom Group (India) in the aluminum extrusion market.

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