

Aluminium Extrusion Plant. Aluminium Extruded Profiles. Extruded Sections

Description:

Aluminium is a light, strong, flexible, non-corrosive and infinitely recyclable metal. Aluminium is widely used in the transport, construction, packaging and electrical industries.

Aluminum extrusion is a technique used to transform aluminum alloy into objects with a definitive cross-sectional profile for a wide range of uses. The extrusion process makes the most of aluminum's unique combination of physical characteristics. Its malleability allows it to be easily machined and cast, and yet aluminum is one third the density and stiffness of steel so the resulting products offer strength and stability, particularly when alloyed with other metals.

The aluminum extrusion process is greatly heat dependent. Monitoring temperatures from beginning to end is critical to ensuring aluminum alloy properties such as tensile and yield strengths are met, as well as affecting the final finish of the part.

The aluminum extrusion process begins by heating the billets or logs to 400-480°C (750-900°F). The aluminum alloy is still solid but malleable. It does not glow when heated; aluminum looks the same whether hot or cold.

Aluminium extrusion is used for a wide range of purposes, including components of the International Space Station. These diverse applications are possible due to the advantageous attributes of aluminum, from its particular blend of strength and ductility to its conductivity, its non-magnetic properties and its ability to be recycled repeatedly without loss of integrity.

Few Indian Major Players are as under:

- Aaryan Extrutech India Ltd.
- Alexcon Extrusions Ltd.
- Alicon Castalloy Ltd.
- Aluminium Profiles Ltd.
- Anurang Engineering Co. Pvt. Ltd.

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