HINDALCO
EXTRUSIONS

Hindalco Extrusions Plant Facilities

Presses
Hindalco has 3 aluminium extrusion presses - 2240, 1800 and 1250 tonnes capacity and a Conform Machine, which can produce continuous extrusions without any butt weld or potential drag in between billets. It can be supplied in cut to length.

Feedstock
Hindalco employs a state of the art Wagstaff Air Slip ™ billet casting technology that ensures consistent quality & surface finish of extrusions.

Die Shop
Dimensional accuracy is achieved through dies manufactured in house from the well-equipped Die Shop having highly skilled & experienced manpower. The die shop facilities include :

- 2 CNC die cutting machines
- 2 wire cut EDM
- CNC lathes & other conventional tooling equipments

Testing
Hindalco has the most comprehensive testing facilities (including Lloyd's certified well equipped laboratory) in the extrusions industry in India. The facilities include :

- Spectrometer (optical emission, X ray fluroscent, X ray diffraction) for chemical composition
- Metallographic Image analyzer for grain structure & texture
- Universal testing machine for tensile strength & elongation
- Rockwell & Brinell Hardness testers
- Profile projector for accurate dimension measurement
- Digital micro ohm meter for electrical conductivity
- Ultrasonic testing

Packing
Fully automatic packing line at Hindalco takes care of varied requirements of customers for road, rail & sea transportation.

Standard Alloys *
1050, 1060, 1070,1200, 1100, 2014, 3003, 4043, 4047, 5052, 5086, 6063, 6061, 6101, 6351, 6082, 6066, AA6061, 7039, 7075

* Individual press capability may vary

Standard Tempers
O, F, T4, T5, T6

Dimensional Range
Hindalco offers extrusions of :

- Minimum area of 21 mm^2
- Maximum Circumscribing Circle Diameter 210 mm for Solids
- Maximum Circumscribing Circle Diameter 160 mm for Hollows.

This Catalogue deals with a complete range of Hindalco sections required for various applications. Apart from those covered here, new dies are being continuously developed and added regularly. The company is well equipped in developing new sections as required and also co develop special sections working hand in hand with the customer.

The information available in this catalogue is indicative. For e.g. Nominal weight may vary depending upon condition of die during extrusion.

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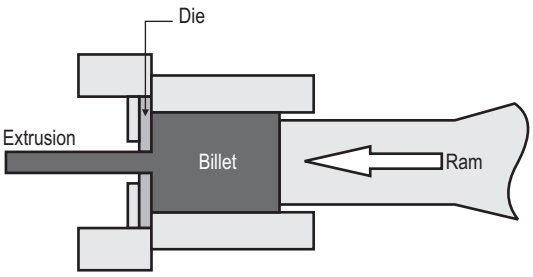
What is Extrusions?

Extrusion is defined as a process in which a metal block is reduced in cross-section by forcing it to flow through a die, in order to give it a desired shape.

Extrusions are performed both hot and cold. However, most commercial extrusions are performed hot. Extrusion processes maybe direct or indirect. In Direct extrusion, which is the conventional process, the billet moves relative to the container wall, while in indirect extrusions the die moves.

The Extrusion process is the most economical and versatile method of producing aluminium sections of almost any desired shape and form.



Direct Extrusion