



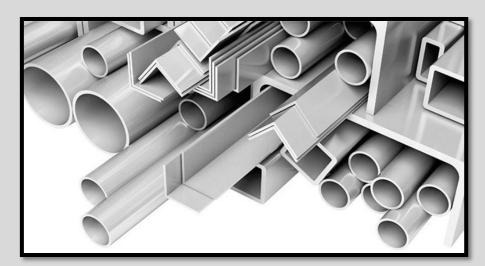


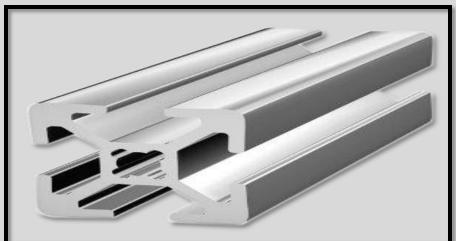
# Aluminium Extrusion Plant.

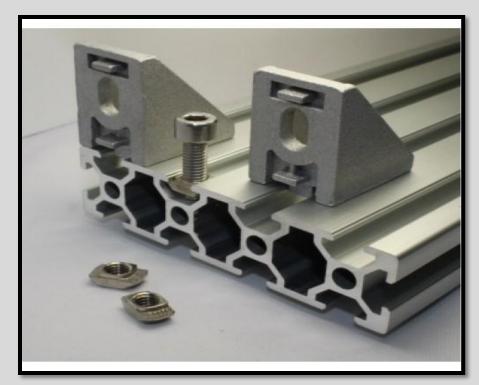
Aluminium Extruded Profiles.

Extruded Sections













## Introduction

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.



# **Machinery Photographs**



600 MT ALUMINIUM EXTRUSION

**PRESS** 









#### **ROUGH CUTTING SAW**

#### **HYDRAULIC STRETCHER**



**BELT CONVEYOR SYSTEM** 

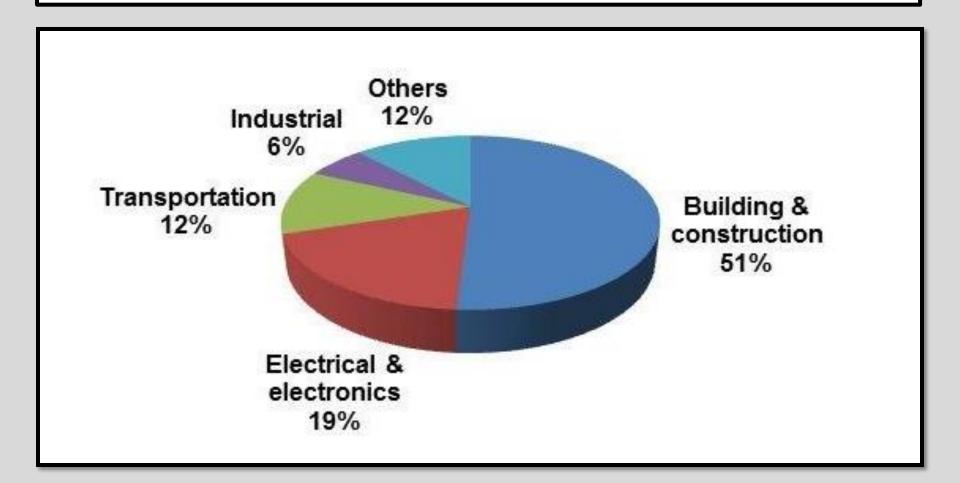


## **Market Outlook**

The aluminium extrusions sector in India has an installed capacity of around 550,000 tonnes per annum spread across an estimated 150 units that have presses ranging from 360 T to 9000 T capacity. The usage of aluminium extrusions in India, in 2013, was about 380,000 tonnes. While the building & construction segment accounts for 51% of the demand, industrial applications are growing rapidly.



# India: Aluminium Extrusion Market by end use, 2013 (%)





Aluminum extrusions are used for their strength, flexibility, durability and sustainability in various sectors such as construction, transportation, electrical, machinery and consumer durables. They are 100% recyclable and emits no significant hazardous gasses during processing. The increased usage in green initiatives is driving the growth of the aluminum extrusion market. The global aluminum extrusion market to witness a tremendous growth at a rate of around 7% during the forecast period.



The growth of the automobile industry is anticipated to drive the growth of this market during the forecast period. Aluminum extrusion is replacing steel in automobiles and transport. It is preferred over other metals due to its light weight leading to reduced fuel consumption and reduced greenhouse gas emission. Moreover, aluminum is easily recyclable and resistant to corrosion, thus ensuring sustainability and durability of the vehicle.



# Segmentation by End User and Analysis of the Global Aluminum Extrusion Market

- Building and construction
- Transportation
- Machinery and equipment
- Consumer durables
- Electrical



Building and construction segment is the largest market for aluminum extrusion. The growth of this segment is anticipated to be at a rate of 7% during the forecast period. Around 65% of the aluminum content in construction is estimated to be recycled annually. Its usage in building and construction is expected to increase during the forecast period, especially in doors, windows, panels, windows frames, ladders, and bridges.

The global aluminium extrusion market is set to witness a tremendous growth at a rate of around 7 per cent during 2015-2020. Of the three main product categories- Mill finished, Anodized, and Powder Coated, the Mill Finished segment alone is expected to reach around 13 million metric tons by the end of 2019.



# 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.



# Project at a Glance

PROJECT AT A GLANCE						(`in I	acs)
COST O	F PROJE	СТ		MEANS	OF FINAN	ICE	
		_				Propose	
Particulars	Existing	Proposed	Total	Particulars	Existing	d	Total
Land & Site Development							
Exp.	0.00	82.50	82.50	Capital	0.00	164.31	164.31
Buildings	0.00	142.00	142.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	275.72	275.72	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	61.00	61.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees							
& Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	492.92	492.92
Preliminary& Pre-operative							
Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	27.00	27.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working							
Capital	0.00	42.00	42.00				
TOTAL	0.00	657.22	657.22	TOTAL	0.00	657.22	657.22



# Project at a Glance

Year	Annu	alised	Book Value	Debt	Dividen d		nined nings	Payout	Probabl e Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Por	Share	Per Share	Dor 9	Share			No.of Times	
	,	, CLF 3	,	\ \	\ \	%	\ \	%	`	1111163	%
								/0			/0
1-2	5.16	9.31	15.16	24.00	0.00	100.0	5.16	0.00	5.16	1.00	0.00
1-2	5.10	9.31	15.10	24.00	0.00	100.0	5.10	0.00	5.10	1.00	0.00
2-3	8.10	11.70	23.26	18.00	0.00	0	8.10	0.00	8.10	1.00	0.00
						100.0					
3-4	11.00	14.12	34.25	12.00	0.00	0	11.00	0.00	11.00	1.00	0.00
4-						100.0					
5	13.81	16.53	48.06	6.00	0.00	0	13.81	0.00	13.81	1.00	0.00
5-						100.0					
6	16.51	18.88	64.57	0.00	0.00	0	16.51	0.00	16.51	1.00	0.00



	oject at a	Gla	Ince			
Yea	D. S. C. R.	Debt /	Equity	Total	Retur	
r		-	as-	Net	n on	
		Depo	<b>Equity</b>	Wort	Net	

all

**Profitability Ratio** 

PAT

%

6.86% 4.99%

10.07% 6.70%

12.35% 7.97%

13.97% 8.89%

15.12% 9.57%

Wort

h

%

**GPM** 

%

12.48

14.58

%

15.99

%

16.95

%

17.59

**PBT** 

%

h

%

2.37

1.37

0.81

0.49

0.30

(Number of

times)

3.00

1.58

0.77

0.35

0.12

0.00

3.00

1.58

0.77

0.35

0.12

0.00

**Asset Curre** 

Turno Ratio

nt

0.99

1.28

1.63

2.03

3.21

S

ver

**Ratio** 

2.06

2.22

2.25

2.18

2.06

P/V

%

%

%

%

%

%

Net

bution

3

5

0

5

50

Contri Ratio

603.9 35.50

704.5 35.50

805.2 35.50

905.8 35.50

1006. 35.50

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	ojeot at a		
Yea	D. S. C. R.	Debt /	Equi
r		-	as.
		Depo	Equi
		sits	-
		Debt	

Individ Cumula Over

(Number of times)

1.35

1.50

1.66

1.84

2.03

2.03

tive

ual

Initi al

1-

1.35

2-3 1.66

3-4 2.03

2.47

3.00

2

4-5

5-6

# **Project at a Glance**

	_
В	H

BEP -	Maximum	Utilisation	Year

Cash BEP (% of Installed Capacity)

Total BEP (% of Installed Capacity) IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

Payback Period of the Project is (In Years)

Fixed Assets Coverage Ratio (No. of times)

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53.53%

57.40%



### Major Queries/Questions Answered in the Report?

- 1. What is Aluminium Extrusion Plant?
- 2. How has the Aluminium Extrusion Plant performed so far and how will it perform in the coming years?
- 3. What is the Project Feasibility of Aluminium Extrusion Plant?
- 4. What are the requirements of Working Capital for setting up Aluminium Extrusion Plant?



- 5. What is the structure of the Aluminium Extrusion Business and who are the key/major players?
- 6. What is the total project cost for setting up Aluminium Extrusion Plant?
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#### Reasons for Buying our Report:

- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by identifying the target customer group of the product



- This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions



#### Our Approach:

- Our research reports broadly cover Indian markets, present analysis,
   outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report



#### Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Aluminium Extrusion Plant" provides an insight into the Aluminium Extrusion market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Aluminium Extrusion project. The report assesses the market sizing and growth of the Indian Aluminium Extrusion Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Aluminium Extrusion sector in India along with its business prospects. Through this report we have identified Aluminium Extrusion project as a lucrative investment avenue.



#### **Tags**

Aluminum Extrusions, Aluminium Extrusion Plant, Project Report on Aluminium Extrusion Plant, Start Aluminum Extrusion Plant, Aluminium Extrusion Company, Aluminium Extrusion Plants in India, Extrusion Process, How to Start Aluminum Extrusion Company, Aluminium Extrusion Plant Cost, Aluminum Industry in India, Aluminum Extrusions Process, Aluminium Extrusion Machine in India, Aluminium Extrusion Business in India, India's Aluminium Extrusion Business, Extrusion Plant in India, Aluminium Extrusion Production Line, Aluminium Industry in India, Aluminum Extrusion Technology, Extrusion of Aluminium, Aluminium Extrusion project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Aluminium Extrusion Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Aluminium Extrusion Industry in India, Aluminium Extrusion Projects, New project profile on Aluminium Extrusion industries, Project Report on Aluminium Extrusion Industry, Detailed Project Report on Aluminium Extrusion,



Project Report on Aluminium Extrusion, Pre-Investment Feasibility Study on Aluminium Extrusion, Techno-Economic feasibility study on Aluminium Extrusion, Feasibility report on Aluminium Extrusion, Free Project Profile on Aluminium Extrusion Plant, Project profile on Aluminium Extrusion, Download free project profile on Aluminium Extrusion Plant, Industrial Project Report, Project consultant, Project consultancy, NPCS, Niir, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients, Startup Project for Aluminium Extrusion Plant



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And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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- Project Costs and Payback Period

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects......Read more



#### Contact us

#### NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



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- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)



#### How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



#### Our Approach

Requirement collection

Thorough analysis of the project

**Economic feasibility study of the Project** 

Market potential survey/research

**Report Compilation** 



#### Contact us

#### **NIIR PROJECT CONSULTANCY SERVICES**

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

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