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Product Overview

Circles



Scan to know more about the Product

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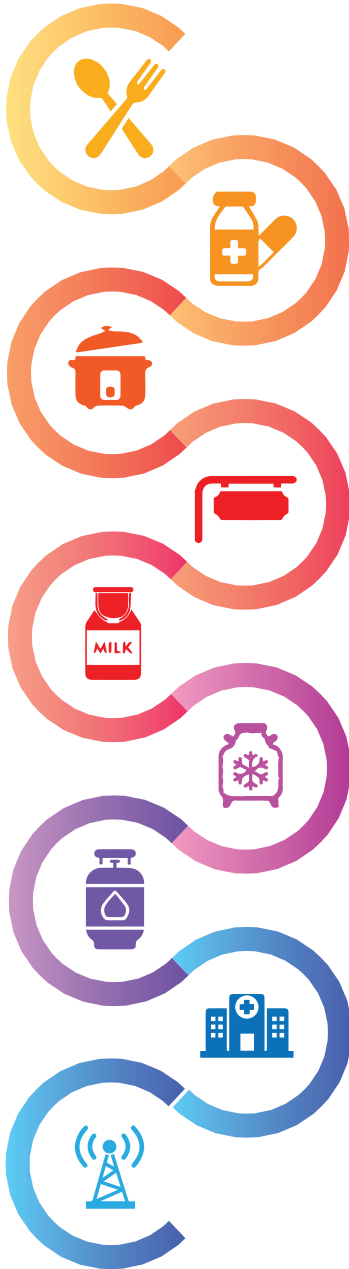
Circles

Who's the kitchen friend that always delivers under pressure? It's the pressure cooker. Did you know that Hindalco's Belur plant started manufacturing high quality aluminium pressure cooker circles in India around 5 decades ago? Even today, Hindalco's high quality aluminium circles command around **80% share in the organized market for top brands of cookers and cookwares.**

Recognising the market demand for Hindalco's high-quality aluminum circles, we expanded our operations from Belur and Renukoot to Taloja.

Hindalco has introduced a new Automatic circle punching line at Renukoot (In-house) and at Taloja (outsourced). Our circle manufacturing facilities now have the capacity to punch 35 KT aluminum circles.

Industries we cater to:



Kitchenware - (Cooker and Cookware – consumer durables) Hindalco has the capability to supply recycled alloys made from 80% clean, in-house scrap

Pharma - Aluminium containers for storage and transportation of sterile injectables and salts.

ERC – Electric Rice Cooker (Electrical Appliances)

Signages – Construction

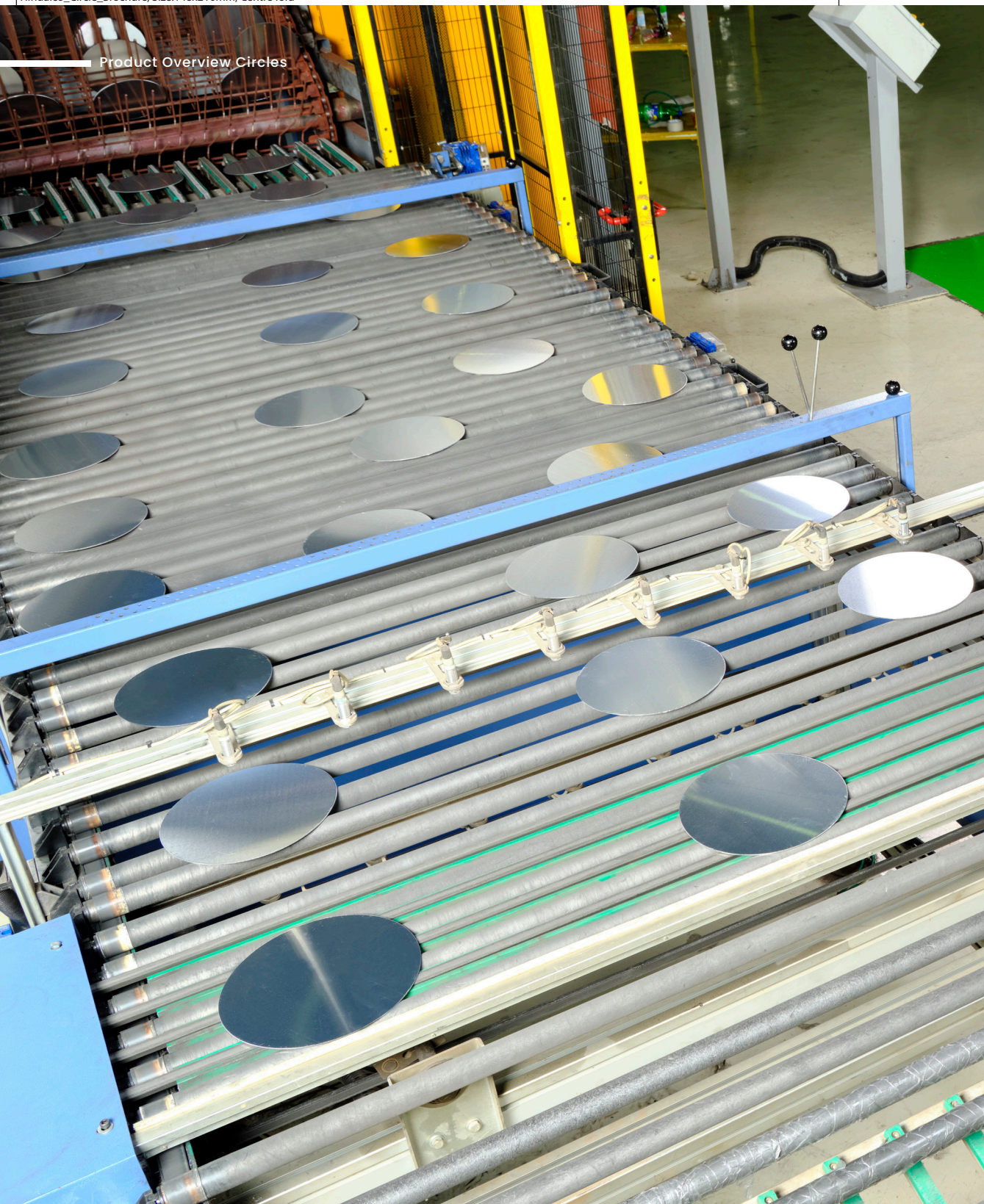
Milk Cans – Consumer durable

Cryogenic Cans – Oil & Gas industry

Aluminium LPG Cylinder – Oil & Gas

Hospital – Blood Banks for centrifuge application

Antenna – Telecom industry



Advantages of Aluminium



Cooker & Cookware

Lightweight, cooks food evenly, corrosion resistant, durable, eco-friendly: 100% recyclable, and good conductors of heat. Good for food contact(EN602)

Rice Cooker

Durable and lightweight, with high heat conductivity that results in fast cooking and easy cleaning.



Cryo Cans

Easy to draw and form, light weight, retains its property at subzero temperatures, Durable and easy to transport.



Milk Can

A good insulator, anodized to make it nonreactive to milk while still retaining its properties. Lightweight, yet strong like steel.



LPG Cylinder

Lightweight, corrosion resistant, durable, retains its strength at sub-zero temperature, low transport cost, easy to handle and strong like steel.



Blood Centrifuge

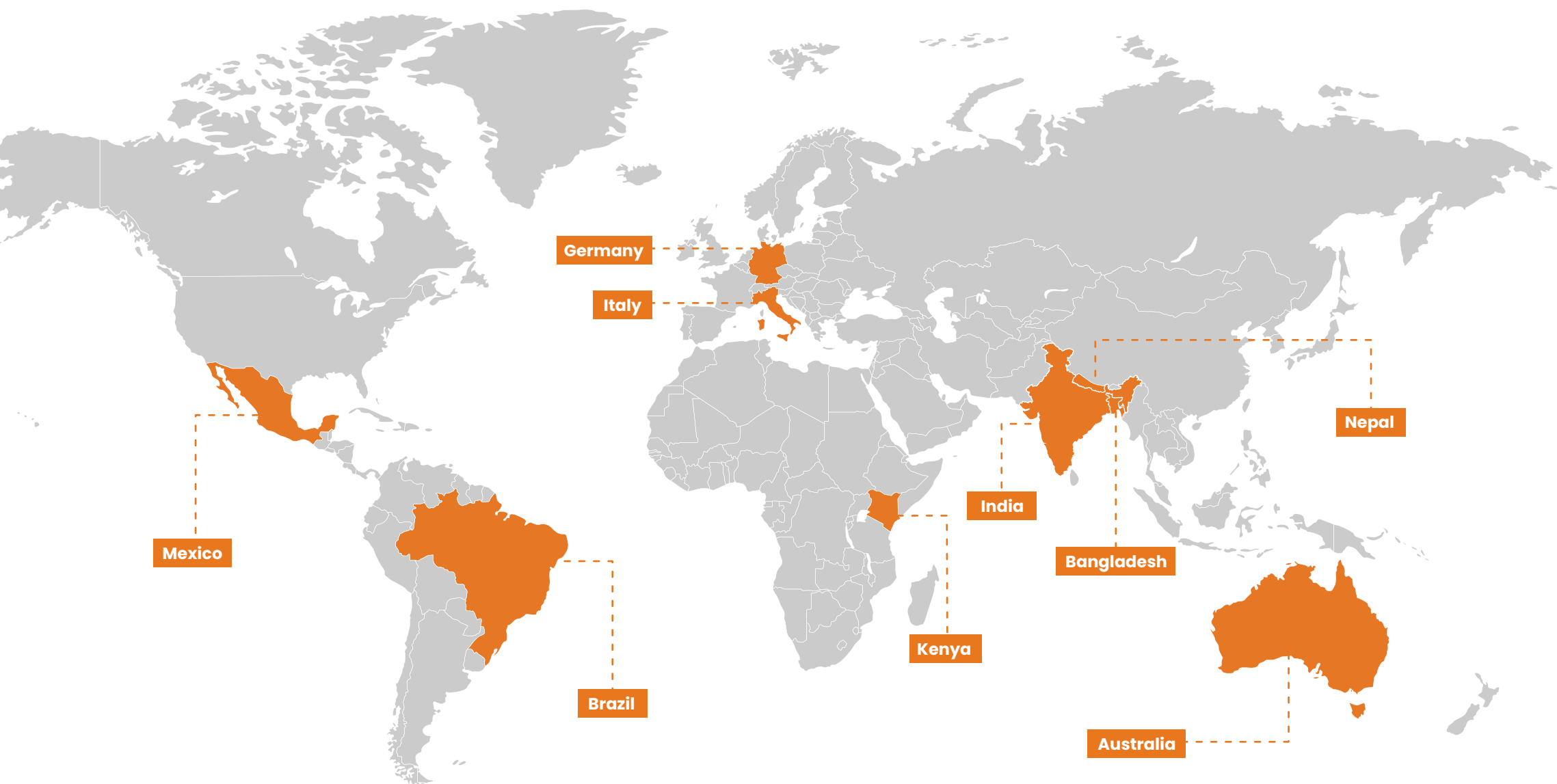
Light weight with high strength, fatigue resistant, corrosion resistant, easy to form and durable.

Antenna

Lightweight hence easy to install, easy to form and durable.



Our circles are exported to:



Manufacturing Capabilities of Hindalco

Production of circles from DC and CC route

World class rolling mills and research facilities

350 + dies available across units

Shearing lines for bigger diameter circles



Dimensional Capability

Circle

Alloys	Temper	Thickness Range(mm)	Diameter Range(mm)
1050, 1060, 1100,1200, 3103, 3003*, 3004, 8011, 5005, 5754, 5052, 5251, 4006, 3105, 3105M, 5154	O, H12, H14, H16, H18, F, H3X for 5xxx series	0.6 - 6.35	102-1250 (914-1250mm is available in 2 to 3mm thickness) 1250-1350 (for shallow draw application)

Triangle

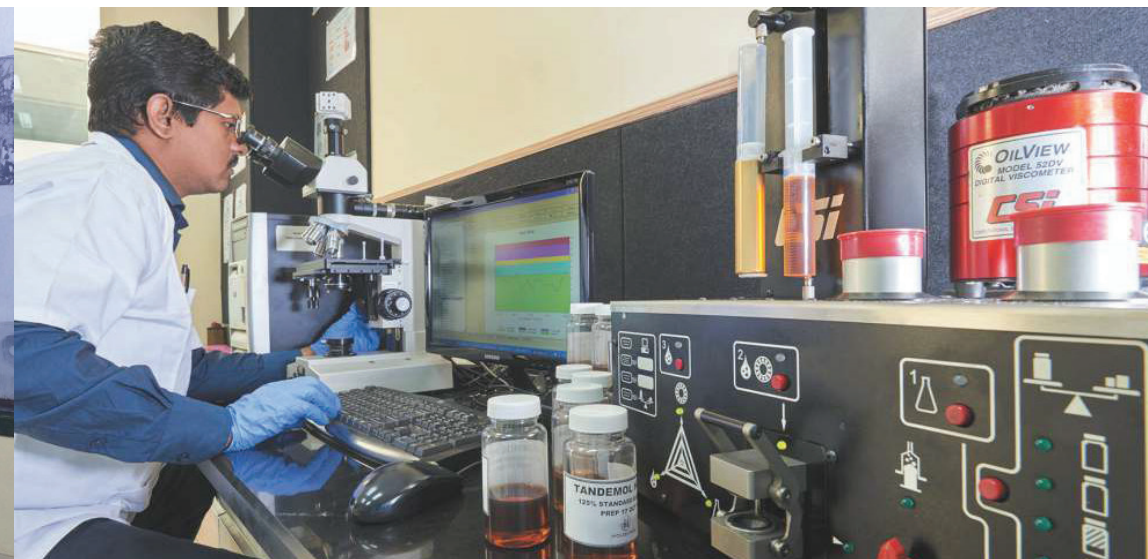
Alloys	Temper	Thickness Range(mm)	Diameter Range(mm)
1050, 1060, 1100,1200, 3103, 3003*, 3004, 8011, 5005, 5754, 5052, 5251, 4006, 3105, 3105M, 5154	O, H12, H14, H16, H18, F, H3X for 5xxx series	0.9-2.0	126 160

Oval

Alloys	Temper	Thickness Range(mm)	Diameter Range(mm)
1050, 1060, 1100,1200, 3103, 3003*, 3004, 8011, 5005, 5754, 5052, 5251, 4006, 3105, 3105M, 5154	O, H12, H14, H16, H18, F, H3X for 5xxx series	1.75 - 3.0	144x157 160x173 198x211 159.5x242.5

Special Application Circles

Alloys	Temper	Thickness Range(mm)	Diameter Range(mm)
6351, 6061, 6061A, 6082, 6261	0	1.5 - 4.0	100-1000



Compliance with Global standards

European Standards- EN485-2, EN573-3, EN602
 American Standards- AA standard, ASTM B209,
 Indian Standards- IS21, IS737

Certifications

- Hindalco is recycling significant quantity of pre and post consumer scrap, producing 100% recycled material
- ASI Certification
- RoHS and REACH Compliance



Circles from Virgin and Recycled Aluminum



Hard and Soft Anodizing Quality



High Quality Flat Disks



Degreased/Low Surface Oil



Food Grade Aluminum



Compliance to International standards



Technical Solutions



Deep Drawing Quality



R&D facility and support for new product development






Cryogenic Cans



-  Easy to draw and form
-  Lightweight
-  Retains its properties at sub-zero temperatures
-  Durable
-  Easy to transport








Pharma Containers



-  Lightweight
-  Sustains high temperatures
-  Anodizable to make it nonreactive
-  Durable
-  100% recyclable

High Pressure cylinders, LPG cylinders



-  Lightweight
-  Corrosion resistant
-  Retains its strength at sub-zero temperature
-  Durable
-  Low transport cost
-  Easy to handle
-  Strength similar to steel

Cookware



High Roughness Circles for Ceramic Coated Cookware

Customized circles for Roller Coated Cookware

-  Lightweight
-  Corrosion resistant
-  Cooks food evenly
-  Durable
-  Good conductors of heat – resulting in low fuel consumption
-  High Ra circles support mass manufacturing of ceramic coated cookware
-  100% recyclable

Al Sheet for Signage with low Oil Carry Over



Lightweight



High strength and possible to do multiple post treatments like paint, coating, anodizing, colour anodizing, electroplating etc.

Circles for Lamps, Tables and Signboards



Lightweight



High strength and possible to do multiple post treatments like paint, coating, anodizing, colour anodizing, electroplating etc.

Al Circles for Antenna in Telecom Industry



-  Lightweight
-  Durable
-  Easy to form

Specialized Alloy Circle for Electric Rice Cooker



-  Lightweight
-  High heat conductivity leads to fast cooking
-  Easy to clean
-  Durable
-  Anodizable which creates thick oxide layer to make it hygienic

Al Circles for Milk Can (6 series alloy)



-  Good insulator
-  Anodized to make it non reactive to milk
-  Retains properties of milk
-  Lightweight with strength similar to steel which makes it highly durable and easy to handle in milk transportation

Circles for Forged Cookware (4 series alloy)



-  High flowability
-  Durable
-  Ductile metal

Circles for Hard Anodized Cookware (3 series alloy)



Lightweight



Only metal that can be hard-anodized with a thick, strong layer of oxide, making it tough and durable



Aesthetically good

Packaging is available with and without interleaving



Packing without Interleaving



Export friendly and recyclable packing

Upcoming
state-of-the-art
22kt Capacity
for Circle production
at Aditya Aluminium,
Odisha, India

We manufacture circles at:

Belur
Hindalco Industries Ltd
39 Grand Trunk Road
Belurmath 711 202
Dist. Howrah,
West Bengal, India

Taloja
Hindalco Industries Ltd
Plot No. 2, MIDC Industrial
Area Taloja AV, Dist. Raigad
410 208 Navi Mumbai,
Maharashtra, India

Renukoot
Hindalco Industries Ltd
P.O. Renukoot 231 217
Dist. Sonbhadra
Uttar Pradesh, India

Upcoming Facility
**Aditya Aluminium
Hindalco Industries Limited**
Lapanga, District
Sambalpur 768212
Odisha, India

Major Customers

150+ customers across the Globe



by BAJAJ





Hindalco Industries,
US \$28 billion global
materials solutions
powerhouse



Hindalco's global
footprint spans
52 manufacturing units
across **10 countries**



**Asia's largest
producer** of primary
aluminium



A cross cultural
workforce of **more
than 76,800 people**



Hindalco-Novelus is a **world leader** in aluminium
rolling and recycling