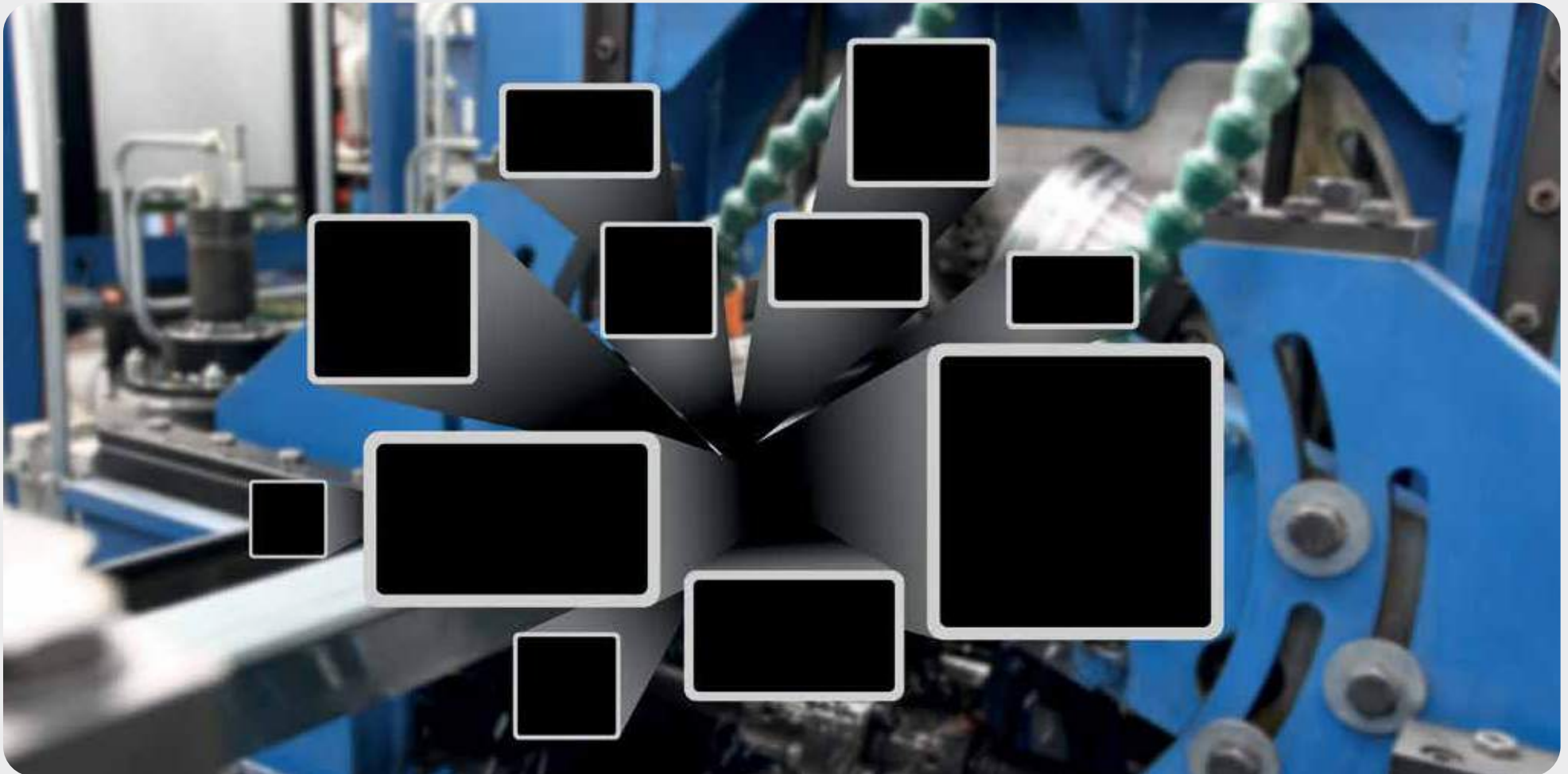




INTRODUCING APOLLO FABRITECH
POWERED BY DIRECT FORMING TECHNOLOGY.
A REVOLUTIONARY ITALIAN EXPERTISE IN INDIA





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SPEARHEADING THE CHANGE

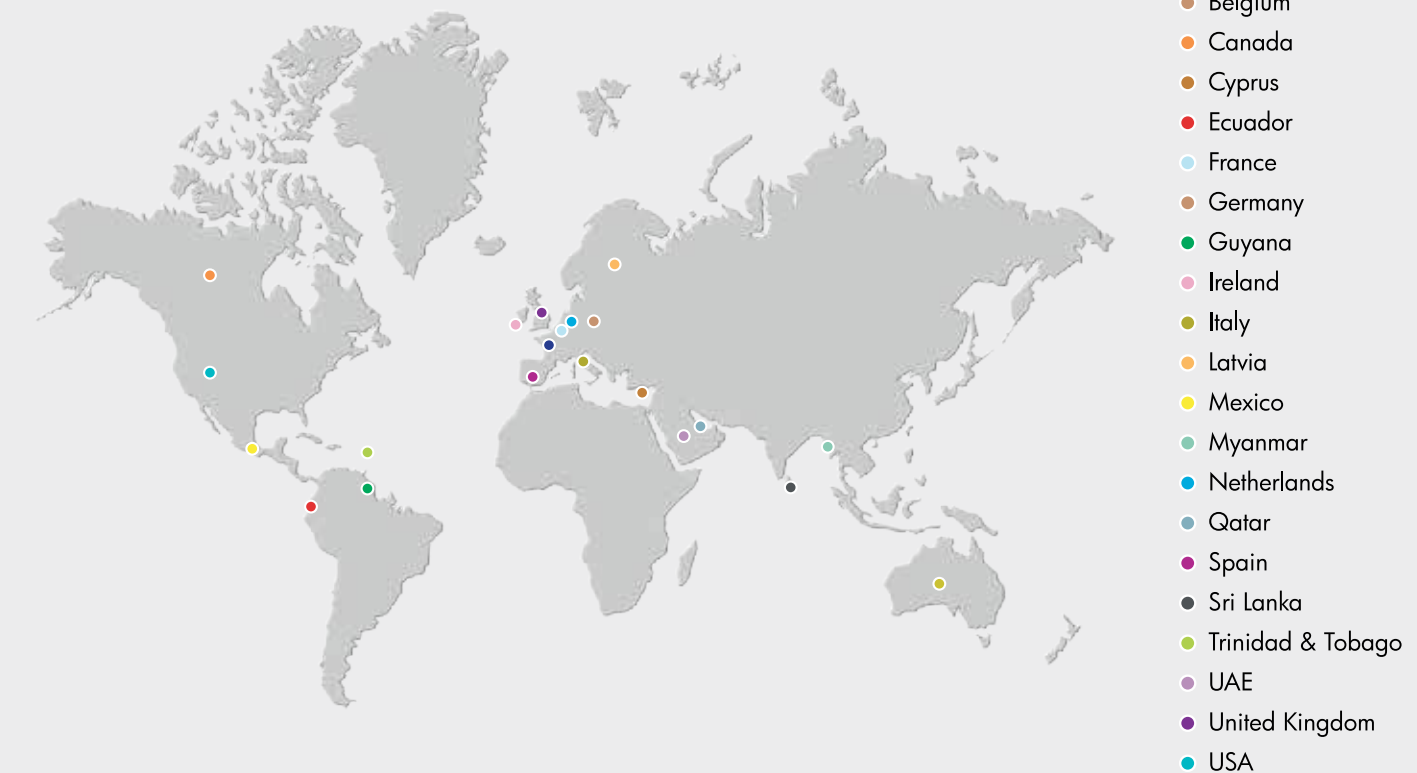
APL Apollo Tubes Limited is the largest producer of Electric Resistance Welded (ERW) steel pipes and sections in India, with a capacity to produce more than 1.3 million tons per annum. It caters extensively to the region and exports to over 20 countries globally. The company's vast distribution network is spread across India, with warehouses and branch offices in 25 cities.

APL Apollo believes in pioneering change to cater to an ever-evolving economy by infusing superior cutting-edge technology and innovation. Founded in 1986 in the capital city of Delhi, it has catapulted its growth over the last three decades by introducing a range of new products coupled with new technologies, improvising quality, increasing productivity, benchmarking the entire product line and eventually gaining the mind space of

large number of customers. In the process, redefining the market space for steel pipes business.

The organisation believes in measuring its success and pushing its limits through regular review and feedback generation. A customer centric approach and best practices from across the globe enable the organisation to upscale the core business with creativity and purpose.

The company's products are certified by reputed international agencies like SGS (France) and CE (Europe). It has received the Recognised Export House status and is also ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certified. Additionally, all our products are BIS - marked.





THE JOURNEY SO FAR

“In the rapidly changing socio-economic landscape, the need of the hour is to constantly upgrade the product offerings. APL Apollo has been pioneering this change with the introduction of innovative technologies and in-depth analysis of customer's usage to bring delight and superiority to the product range”.

Mr. Sanjay Gupta - Chairman, APL Apollo Tubes Ltd.

1986

- Year of Incorporation
- Set-up the first manufacturing plant in Sikandrabad, Ghaziabad

1994-95

- Commissioned a new galvanising plant
- Received ISI Certification
- Listed on the Stock Exchanges (BSE & NSE)

2000-02

- Commissioned a new tube mill and modern Gallium mill
- Received ISO 9001:2000 certification

2003-04

- Developed in-house Hollow Sections across a wide-range of sizes
- First in India to launch Pre-Galvanised pipes

2007-08

- Acquired Apollo Metalex Private Limited
- Awarded Star Export House status
- Acquired Shri Lakshmi Metal Udyog Limited in Bangalore

2009-10

- Commissioned a plant in Hosur, Tamil Nadu - a Greenfield venture with state-of-the-art mills
- Started multiple warehouses across India

2011-12

- Name changed to APL Apollo Tubes Limited from Bihar Tubes
- Received UL, CE & SGF France certifications along with other approvals
- Acquired Lloyds Line Pipes Limited plant near Mumbai

2013-14

- Procured CRFH Coils from JSW Steel to expand product range
- Launched Door frames, Window frames and Railing tubes

2015

- First in India to achieve a capacity of 1 MTPA in steel pipes

2016-17

- Established India's first ever Direct Forming Technology Line
- Commissioned Greenfield facility at Raipur, Chhattisgarh also with Direct Forming Technology
- Awarded patents for six product design types

THE GAME CHANGER IN INDIA

Apollo Fabritech based on Direct Forming Technology, first time in India

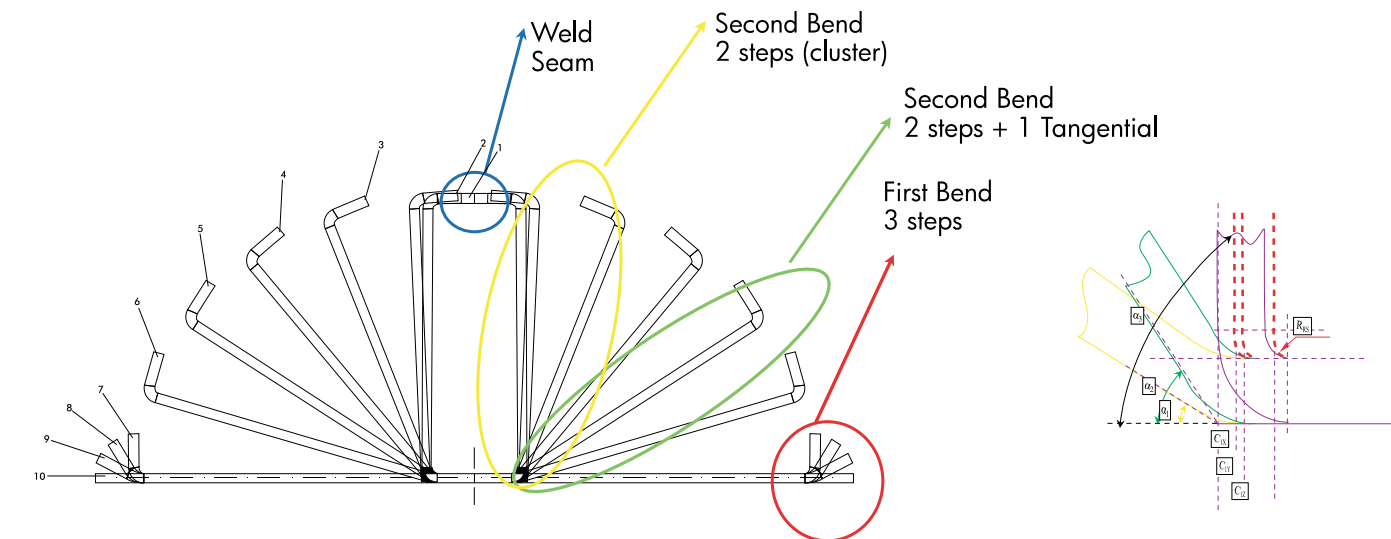
This technology opens a new era in steel tube production. The use of Direct Forming Technology (DFT) is pioneered by APL Apollo in India and is the only company using this high-tech production methodology in the most elaborate manner.

The DFT system is the result of many years of experience and knowledge in the tube field. This method brings undisputed advantages in terms of flexibility, production capability and cost reduction. This innovation enables the possibility to produce any size, included in the mill range, without roll change, resulting in extreme reduction in set up time.

Compared to traditional production processes, this method is completely automatic and computerised. Set up operations are easy, accurate and fast.

Advantages of Apollo Fabritech

- Great flexibility and possibility to modify tube dimensions without roll change for customised size
- Reduction in mill set up time thus resulting in fast delivery of material
- Corner radius can be varied as per requirement
- Direct material cost saving of 2% to 10% depending upon specifications, size and thickness



CUSTOMER IS KING



APL Apollo through intense research, development and dedicated application engineering team adapts to the needs and requirements of the customers - better quality, flexible dimensions, minimal set up times, simple operation, faster changes, better availability, increased automation and excellent service. By adopting a customer centric approach APL Apollo has evolved the '5Ws' that facilitate problem solving and deliver more value to the end-users.

5W WHY WHICH WHEN WHAT WHERE

- WHY do you need the product
- WHICH product range do you require
- WHEN do you require the product
- WHAT do you require the product for
- WHERE do you require the product



5W
WHY DO
YOU NEED THE
PRODUCT

Direct Material Saving

Customers need Apollo Fabritech as it helps them in direct material saving, which in turn leads to significant cost reduction. Apollo Fabritech rectangular and square hollow sections produced with the help of Direct Forming Technology (DFT) are lesser in weight as compared to the conventional method of tube manufacturing and provide better strength. By use of DFT method of tube production which uses exact strip width, the saving of material ranges from 2% to10% in different sizes and thickness.

Examples mentioned below are indicative only and demonstrate the percentage of material saved in hollow sections made from DFT method as compared to conventional method.

SQUARE HOLLOW SECTION (SHS)		
HxB	T	Material Savings
mm	mm	%
60 x 60	2.0	4%
	2.9	5%
	3.6	7%
100 x 100	2.0	2%
	4.0	5%
	6.0	7%
300 x 300	8.0	4%
	10.0	4%
	12.0	4%

RECTANGULAR HOLLOW SECTION (RHS)		
HxB	T	Material Savings
mm	mm	%
100 x 50	2.0	3%
	4.0	7%
	6.0	10%
172 x 92	2.9	3%
	3.6	4%
	5.0	5%
400 x 200	8.0	4%
	10.0	4%
	12.0	4%

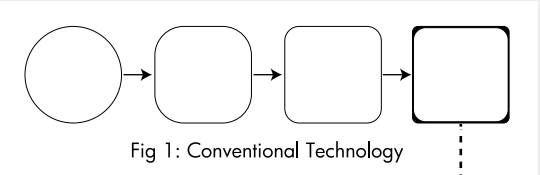


Fig 1: Conventional Technology

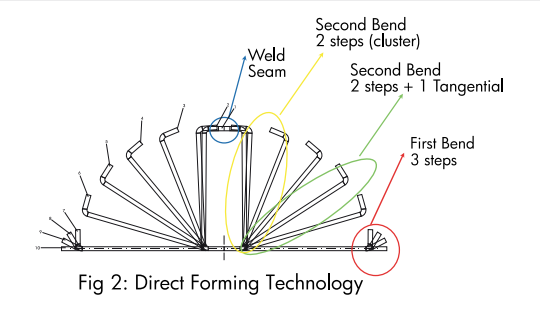
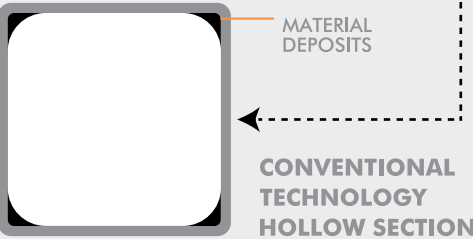
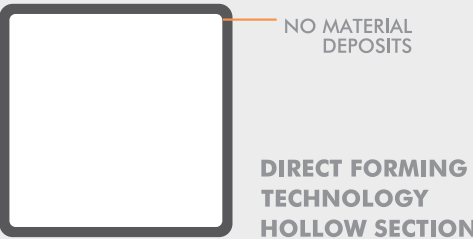


Fig 2: Direct Forming Technology



5W WHICH PRODUCT RANGE DO YOU REQUIRE



Apollo Fabritech comes in a wide product range. However, beyond the standard requirements of the industry, the production units are equipped to customise and deliver any special requirement in terms of sizes, quantity or surface finish as per the needs of the customers. (Subject to minimum order quantity)

Square Hollow Section (SHS)

Size: 20 mm x 20 mm to 300 mm x 300 mm

Thickness: 1 mm to 12 mm

Length: 4 metre to 12 metre

Rectangular Hollow Section (RHS)

Size: 25 mm x 20 mm to 400 mm x 200 mm

Thickness: 1 mm to 12 mm

Length: 4 metre to 12 metre

Surface Protection

Apollo Fabritech is available in following

Surface Finish:

1. Black (Self Coloured Uncoated)
2. Varnished / Oil Coated
3. Galvanised
4. Pre-Galvanised

Production Standard

1. UNI EN 10219-2
2. DIN EN 10219
3. DIN EN 10305-5
4. IS-4923
5. AS/NZS 1163

Material Grade

1. YST 210
2. YST 240
3. YST 310
4. YST 355

Customised Sizes

- Now order any size (within mill capacity subject to minimum order quantity)
- No more compromise on size
- Wide range of product basket

To build an equipment or for any structural design, customer may require the product in different sizes. With Apollo Fabritech the customer's need can be fulfilled.

Example: (Square Hollow Sections)

- 300 mm x 300 mm x 6 mm to 12 mm
- 280 mm x 280 mm x 6 mm to 12 mm
- 110 mm x 110 mm x 2 mm to 8 mm
- 90 mm x 90 mm x 2 mm to 7 mm
- 51 mm x 51 mm x 1 mm to 5 mm

Example: (Rectangular Hollow Sections)

- 400 mm x 200 mm x 6 mm to 12 mm
- 160 mm x 100 mm x 2 mm to 7 mm
- 154 mm x 106 mm x 2 mm to 7 mm
- 120 mm x 60 mm x 2 mm to 6 mm
- 60 mm x 30 mm x 1 mm to 8 mm



SHS SIZE CHART

Square Hollow Sections

Any size in between can
be rolled subject to minimum
order quantity.
For example:
43 mm x 43 mm
104 mm x 104 mm
195 mm x 195 mm

Made with
Italian
technology

Size (mm)	Thickness (mm)															
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	9.0	10.0	12.0	
20 x 20																
25 x 25																
30 x 30																
35 x 35																
40 x 40																
45 x 45																
50 x 50																
55 x 55																
60 x 60																
65 x 65																
70 x 70																
75 x 75																
80 x 80																
90 x 90																
100 x 100																
110 x 110																
113 x 113																
120 x 120																
125 x 125																
150 x 150																
175 x 175																
180 x 180																
200 x 200																
220 x 220																
250 x 250																
275 x 275																
300 x 300																

RHS SIZE CHART

Rectangular Hollow Sections

Any size in between can
be rolled subject to minimum
order quantity.
For example:
55 mm x 20 mm
75 mm x 70 mm
198 mm x 170 mm

Made with
Italian
technology

Size (mm)	Thickness (mm)															
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	5.5	6.0	7.0	8.0	8.5	10.0	12.0	
25 x 20																
30 x 20																
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100 x 50																
120 x 60																
120 x 80																
122 x 61																
130 x 50																
145 x 82																
150 x 50																
150 x 75																
150 x 100																
160 x 80																
172 x 92																
180 x 60																
180 x 120																
200 x 100																
200 x 150																
220 x 140																
240 x 120																
250 x 150																
300 x 150																
300 x 200																
400 x 200																



5W WHEN DO YOU REQUIRE THE PRODUCT



With the introduction of Direct Forming Technology in the manufacturing of Apollo Fabritech, square and rectangular section pipes are produced through welding at high production speed and without any roll change thus consuming much lesser time in production. This gives us an advantage of Just-in-time (JIT) delivery of high quality material to our customers.

Example:*

- Change in production time from a square profile of 40 mm x 40 mm x 3 mm to 40 mm x 40 mm x 2 mm takes only 30 minutes for setting

**The examples mentioned above are indicative only.*

Terms & Conditions apply



5W WHAT DO YOU REQUIRE THE PRODUCT FOR



Apollo Fabritech finds various applications in different industries due to its sheer versatility.

Architectural Applications

- Shopping Malls
- Canopies /Atrium
- Partition Frames
- Space Frames
- Guard Rails & Staircases

Infrastructural Applications

- Airport Terminals
- Bridges
- Bus Stands
- Sign Supporting Structures
- Sports Stadium
- Railway Platforms
- Foot-over Bridges
- Yellow Goods (Construction Equipment)

Agricultural Applications

- Harvester Combines
- Tractors
- Agricultural Implements (eg: Harrows)

Industrial Applications

- Industrial Sheds
- Columns and Trusses
- Material Storage Racks
- Roof Support Systems
- Pallets
- Racks
- Drilling Rigs
- Steel & Power Plants

General Engineering

- Automotive Industry
- Greenhouses
- Truck & Bus Body Manufacturing
- Amusement Park
- Gymnasium Equipment
- Exhibition Stalls
- Furniture
- Solar Power Plant Structures



ARCHITECTURAL APPLICATIONS



INFRASTRUCTURAL APPLICATIONS



AUTOMOTIVE APPLICATIONS



SOLAR POWER APPLICATIONS



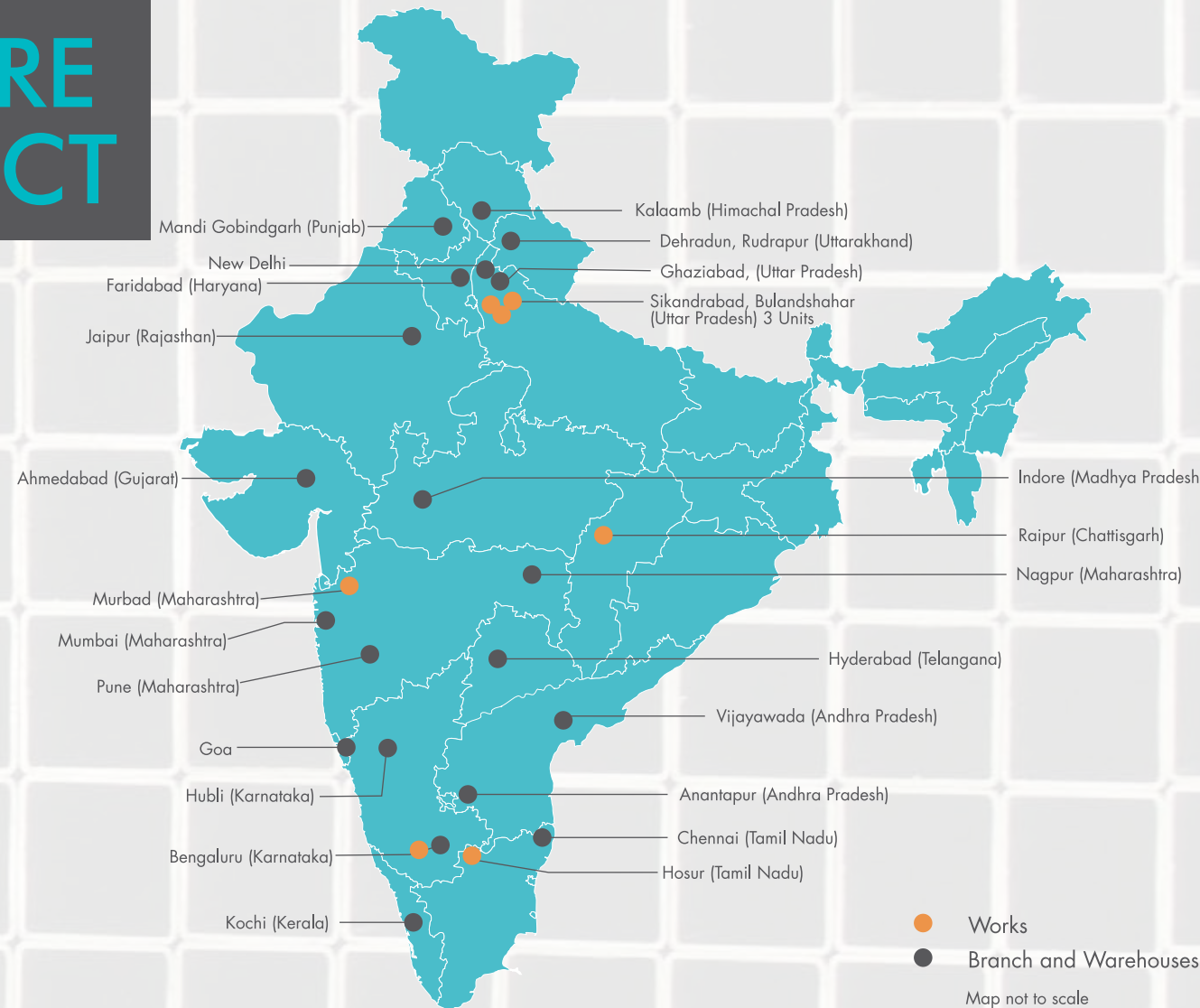
AGRICULTURAL APPLICATIONS



YELLOW GOODS APPLICATIONS



5W WHERE DO YOU REQUIRE THE PRODUCT



APL Apollo is the only pipe and tube manufacturer in India that has a pan India footprint with seven production facilities spread across the country in Hosur (Tamil Nadu), Bangalore (Karnataka), Murbad (Maharashtra), three in Sikandrabad (Uttar Pradesh) and Raipur (Chhattisgarh); along with a network of over 600 dealers and 40,000 retailers enables a countrywide presence in over 300 towns and cities.

The wide geographical reach offers APL Apollo a competitive advantage to service your requirements at a shorter lead time, across the country.

600
DEALERS
40,000
RETAILERS
300
TOWNS & CITIES

APL Apollo has a strong presence in more than 20 countries.



STATE-OF-THE-ART PACKAGING

APL Apollo has state-of-the-art packaging facilities across all its manufacturing units. The packaging unit is equipped with latest and advanced packaging machines manned by competent staff.







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