



# LOW DIAMETER HIGH THICKNESS STEEL TUBE



Sudesh Group

Sudesh Group is India's leading Steel Tubes and PVC Pipes manufacturer with 13 plants across different locations in the country. It's a pioneer in steel tubes of different types and shapes. For over 3 decades, SG Group has been revolutionizing the Steel Tubes manufacturing industry.





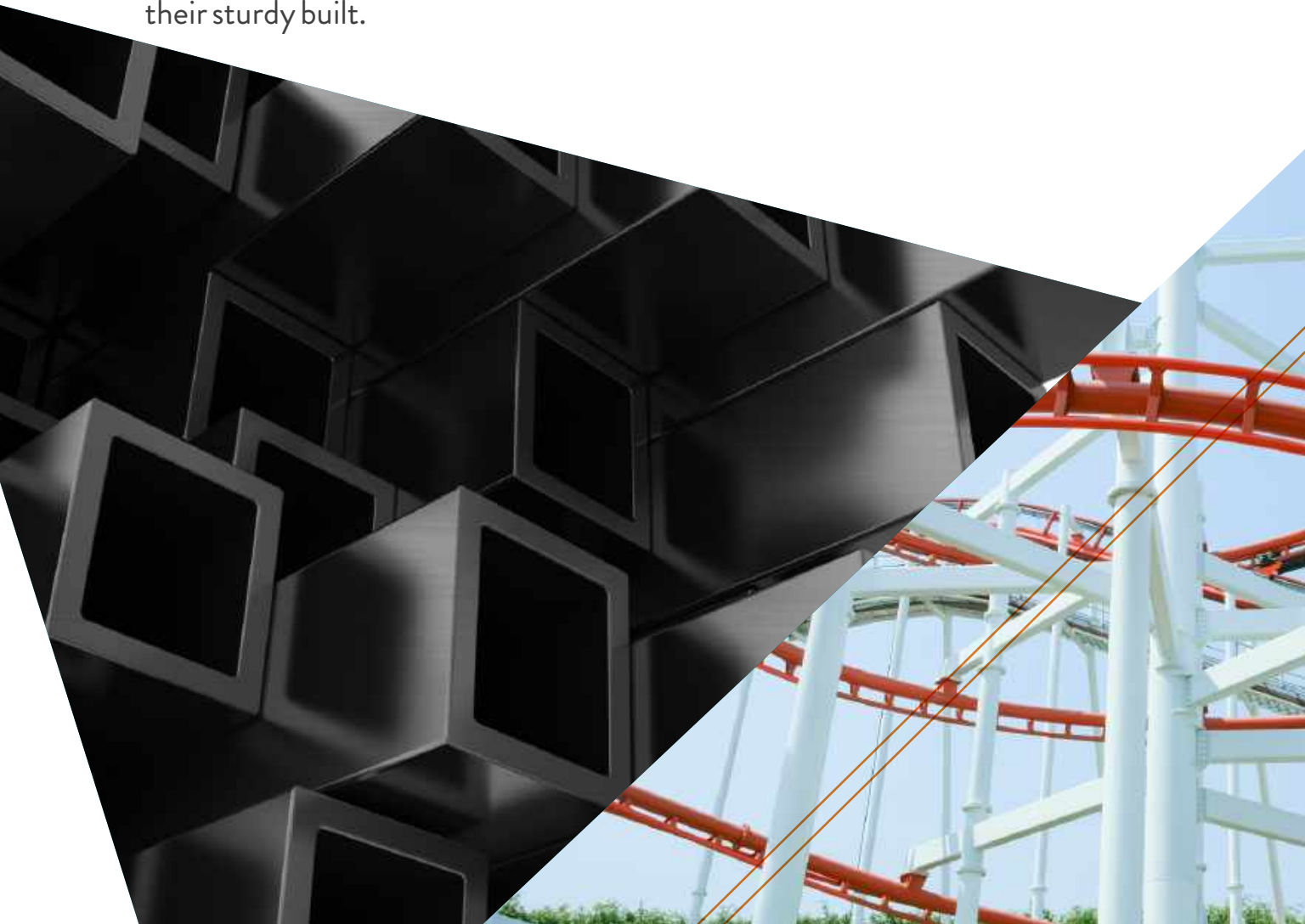
APL Apollo, a part of SG Group, is the country's largest manufacturer of steel pipes and tubes. Using High Frequency Induction Welding (HFIW) technology, APL Apollo has a capacity to produce 2.5 million tonnes of pipes per annum. The company is the unrivalled pioneer of Direct Forming Technology (DFT) as well as many other innovative products in the country.



# APOLLO MECHANICAL

Apollo Mechanical are low diameter high thickness tubes that are used in heavy duty applications like support frames for Heavy Machinery & Industrial Equipment, Tower Crane Mast Sections, Gantry Cranes, Trailer Hitch, Rail & Agricultural Machinery. Mechanical tubes are ideal for heavy duty equipment that require higher load bearing capacity.

Tough, long lasting and robust, Apollo Mechanical tubes are unique size tubes with higher thickness that offer high strength, uniformity and cost effectiveness. The tubes also offer immense mechanical capabilities owing to their sturdy built.





# FEATURES



**Stringent quality control  
at each stage**



**Produced from heavy  
duty tube mills**



**Manufactured using high frequency induction welding**



**Rigid dimensional tolerances**



**Uniform strength and  
durability**



**Gives flexibility to designers & engineers.**



**Wide range of sizes**



**Pleasing surface finish**



**No external heat projection  
or weld bead**



**Ease of fabrication**





# SPECIFICATIONS

## **Square Tube**

Size: 30X30 to 72X72 mm

Thickness: 2mm to 8mm

## **Rectangular Tube**

Size: 50X30 to 100X50 mm

Thickness: 2mm to 8mm

## **Circular Tube**

Size: 38.1 to 88.9 mm

Thickness: 3mm to 10mm



# APOLLO MECHANICAL PROVIDES WIDE RANGE OF LOW DIAMETER HIGH THICKNESS STEEL TUBE

## SQUARE TUBE

Size/Thickness(mm)	2	3	4	5	6	7	8	9	10
72X72									
60X60									
50X50									
40X40									
30X30									

## RECTANGULAR TUBE

Size/Thickness(mm)	2	3	4	5	6	7	8	9	10
100X50									
70X50									
60X40									
70X30									
50X30									

## CIRCULAR TUBE

Size/Thickness(mm)	2	3	4	5	6	7	8	9	
88.9									
76.2									
71.5									
60.3									
48.0									
38.1									

## CHEMICAL COMPOSITION & MECHANICAL PROPERTIES IS 10748:2004 Table 1 & 3 (Clauses 7.1, 7.2, 8.3 & 9.2.4)

Grade	Ladle Analysis, Percent, Max				Carbon Equivalent (CE), Max	Tensile Strength Min, MPa	Yield Stress Min, MPa	Percentage Elongation, min at Gauge Length $5.65\sqrt{S_0}$
	C	Mn	S	P				
1	0.10	0.50	0.040	0.040	-	290	170	30
2	0.12	0.60	0.040	0.040	-	330	210	28
3	0.16	1.20	0.040	0.040	-	410	240	25
4	0.20	1.30	0.040	0.040	0.45	430	275	20
5	0.25	1.30	0.040	0.040	0.45	490	310	15





# APPLICATIONS

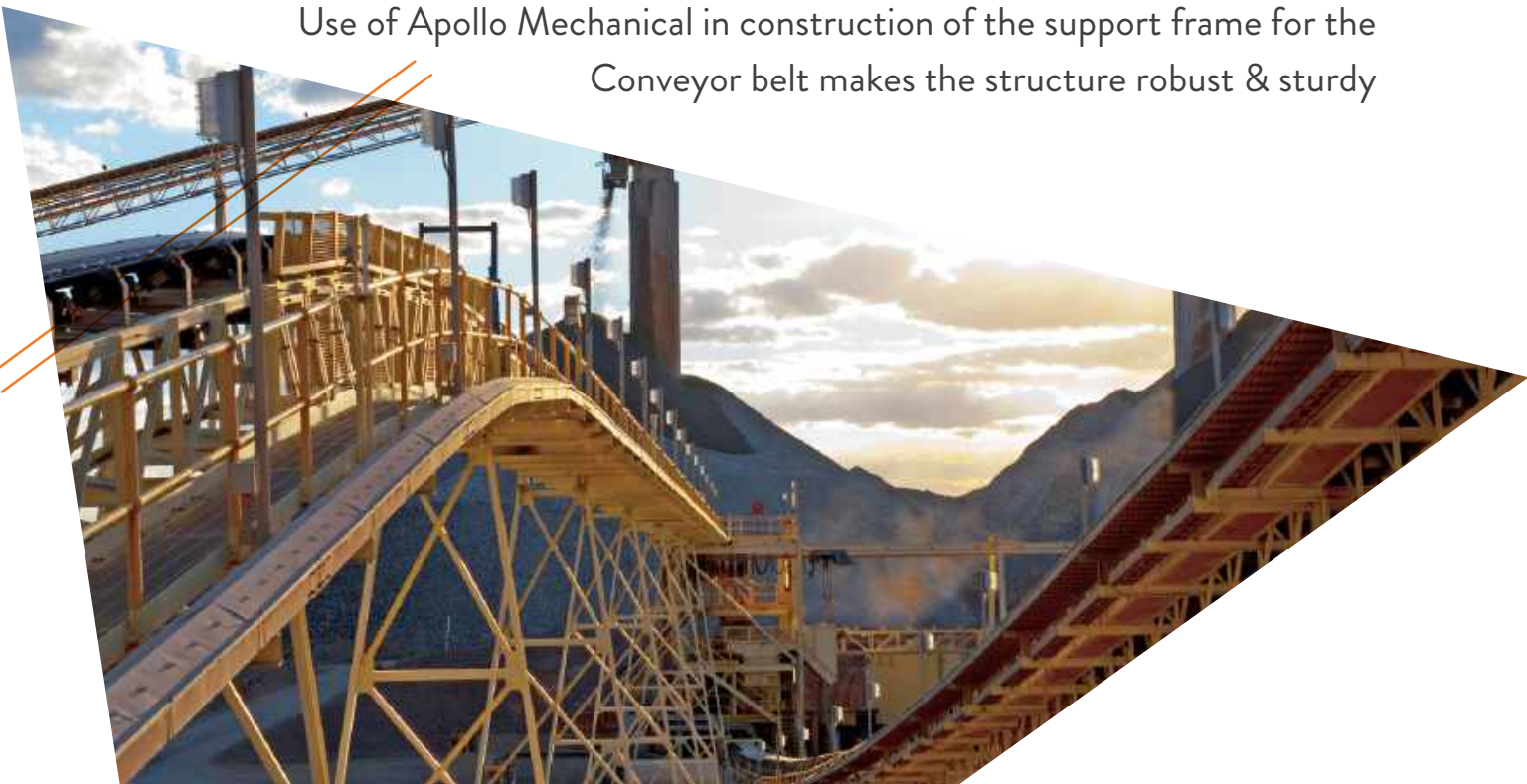
## **Support Frames for Heavy Industrial Equipment**

Apollo Mechanical provides rigid support to heavy industrial equipment due to high load bearing capacity

Source : Google Images

## **Heavy Duty Chain Conveyor**

Use of Apollo Mechanical in construction of the support frame for the Conveyor belt makes the structure robust & sturdy








### **Mobile Gantry Crane**

Higher thickness of Apollo Mechanical provides enhanced load bearing capacity to cranes



### **Cultivator And Rotavator**

Apollo Mechanical provides the ability to withstand the stresses of use season after season without less maintenance



## **Tower Crane Mast Section**

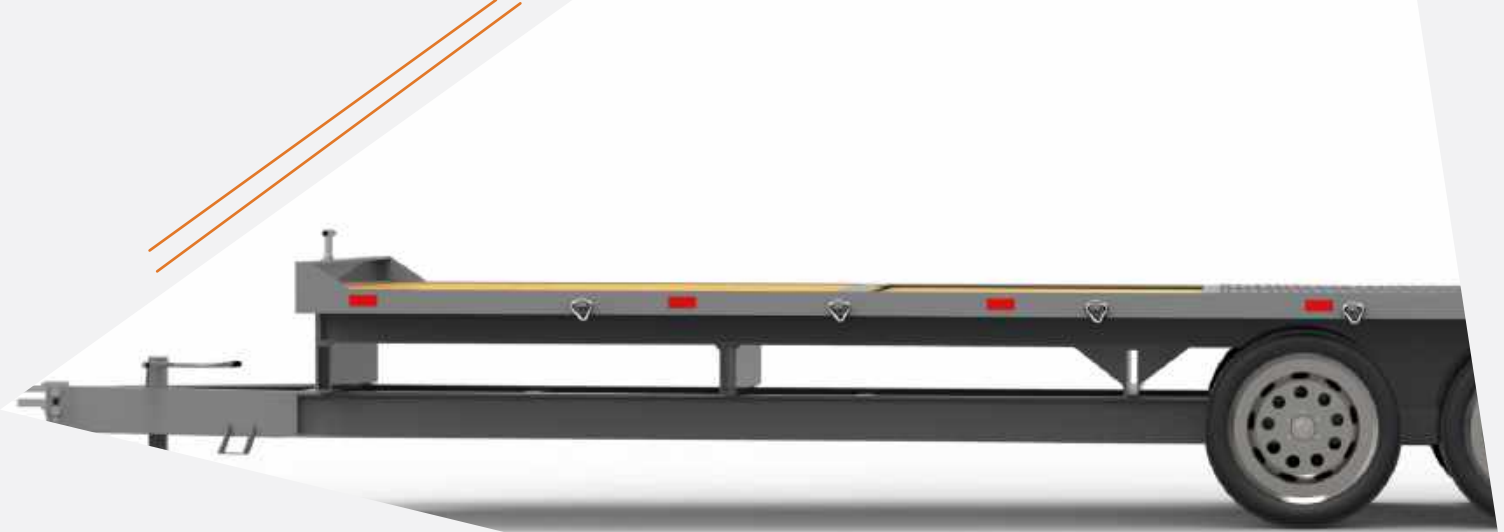
Low diameter high thickness tubes are used in tower crane mast section due to uniform strength

## **Trailer Hitch Tube**

Hitch Tube is the primary connector between a tow vehicle and trailer. It is the structural component that is connected to the vehicle and provides a coupling point to hook a trailer. Hitches are commonly mounted on full-size pick-up trucks and SUVs







## Heavy Duty Trailer Frame

Low diameter high thickness tubes are suitable for manufacturing vehicle frames to enhance its weight carrying capacity

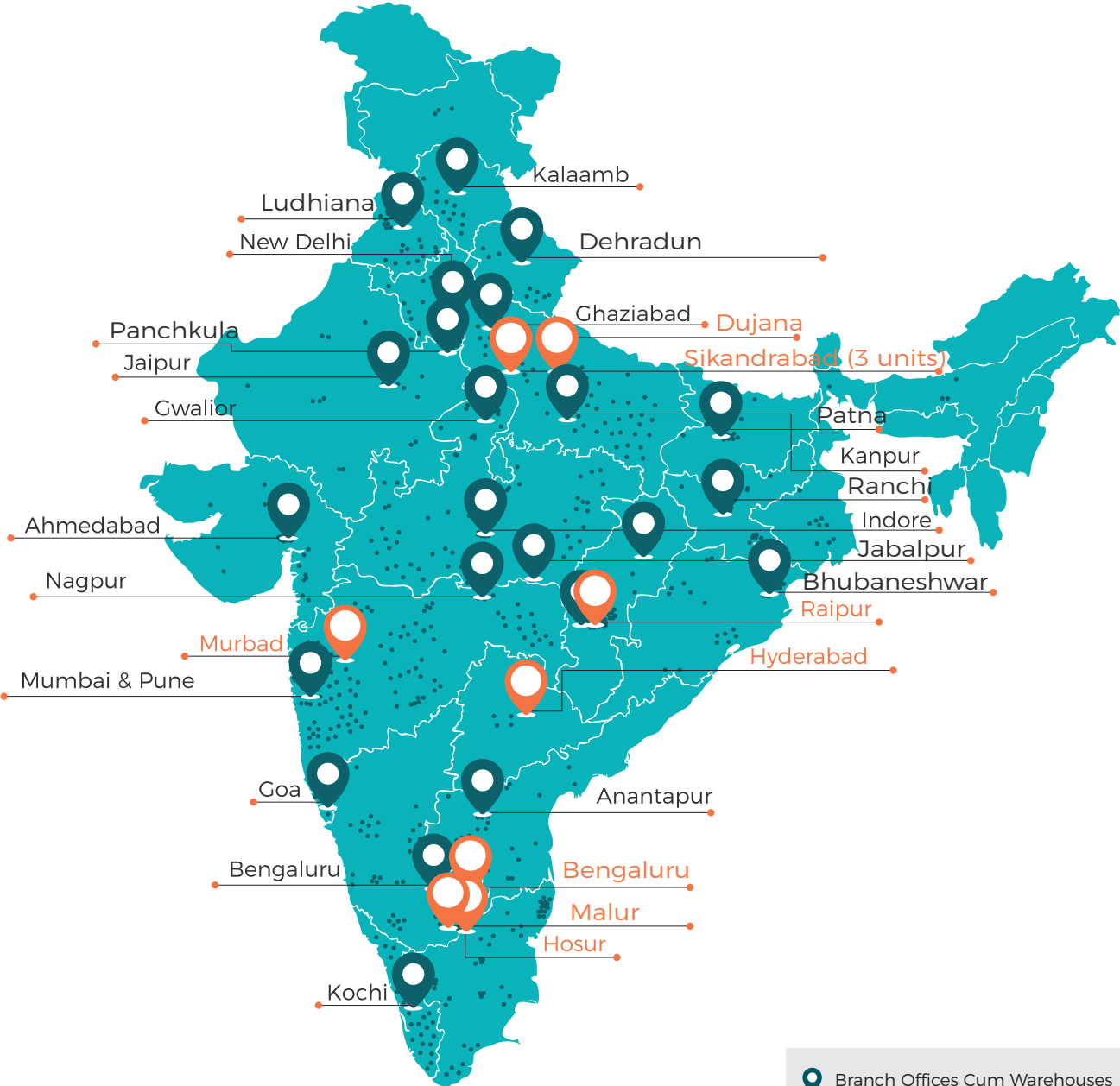
## Monorail Crane

Apollo Mechanical provides easy movement and a long life-span to the crane's bridge

Source : Google Images



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