HARIOM

PIPES | SCAFFOLDING | COILS

PROVING OUR METTLE

HARIOM PIPE INDUSTRIES LTD

HEADQUARTERED IN HYDERABAD, TELANGANA, HARIOM PIPE INDUSTRIES LIMITED (HARIOM) IS A PART OF THE PRESTIGIOUS HARIOM GROUP. THE GROUP WAS FOUNDED BY THE INDUSTRIALIST, LATE SHRI. HARIOM GOLAS IN 1962.

During its five decades of existence, the Company has catapulted to being a leading steel manufacturer with diversified offerings across basic and value-added product segments of Billets, Hot rolled (HR) coils (skelp), MS pipes, GI pipes, GP pipes, Scaffolding and Colour coated roofing profiles.

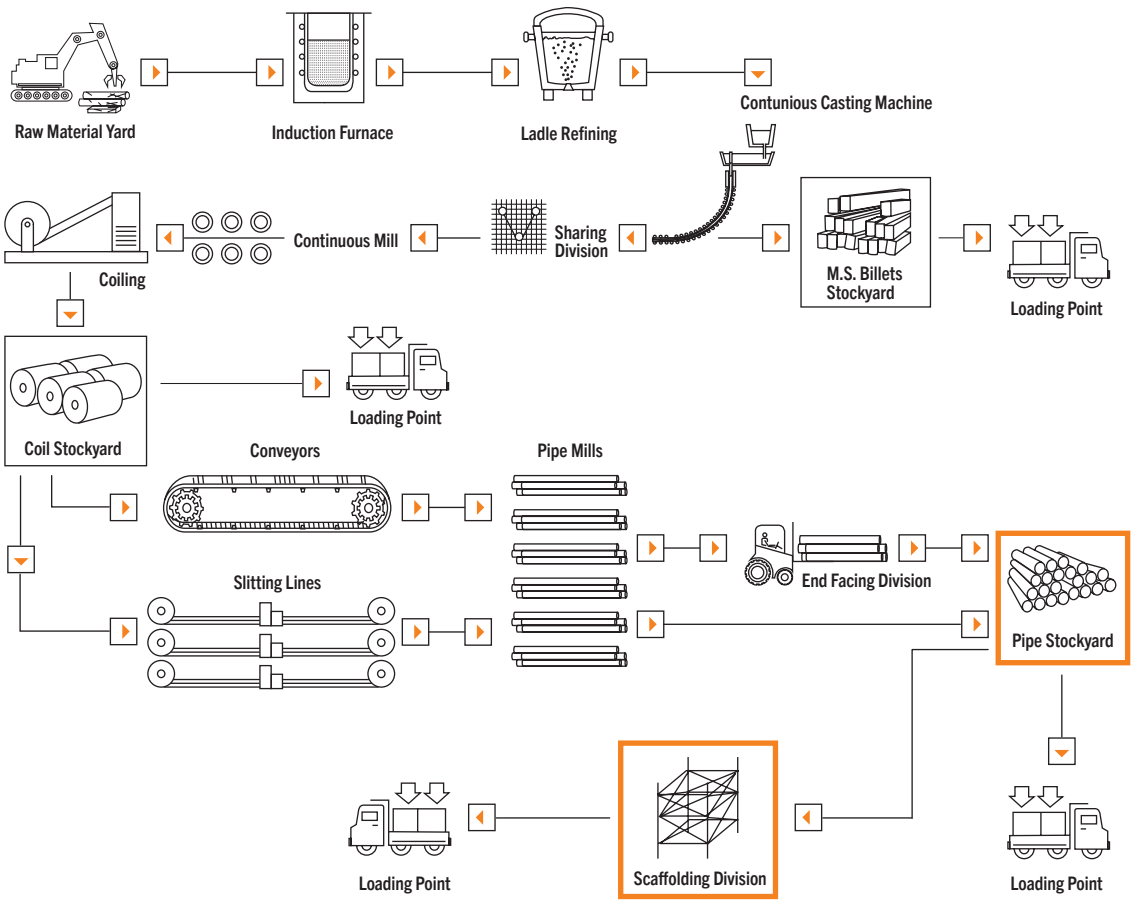
Hariom, at present, manufactures structural, conveyance and multiple industrial tubes at its plant in Hyderabad (Balanagar Mandal, District Mahabubnagar).

Hariom manufactures tubes under the brand name HARIOM, conforming to IS:4923, IS:1161 IS:1239 and IS: 3601 standards for square, rectangular and circular sections respectively. Hariom can manufacture HR pipes up-to a maximum size of 250x250mm for square sections, 300x200mm for rectangular sections and 300mm NB for circular sections. The thickness can vary from 2mm to 6mm.

Hariom provides consumers with 360° solutions, right from the design stage to fabrication. Adding to the product portfolio as well as catering to the changing consumer demands, Hariom has started manufacturing GP/GI tubes in NB ranging from 20mm to 125mm with thickness varying between
1.2 to 3.0mm

Hariom's products have multiple applications such as architectural, industrial, infrastructural, general engineering to power plants, solar power plants, steel Industry, railways, cement plants, mining and so on.

THE PROCESS



APPLICATIONS OF HARIOM PRODUCTS

Hariom products are applied under the following segments.

Architectural

Applications

- Shopping malls
- Canopies/Atrium
- Partition frames
- Space frames
- Guard rails and staircases
- Playground/Amusement park equipment

Attributes

- Lightweight
- Flexible and easy-to-form shapes
- Smooth surface finish
- Appealing aesthetics
- Contemporary

Infrastructural

Applications

- Airport terminal buildings
- Bridges
- Bus stands
- Pedestrian walkovers (footbridges)
- Sports galleries
- Railways platforms

* Images are for represenation only, not actual products

Attributes

- High strength
- More column free space
- Larger and thicker sections
- Ease of fabrication
- Lightweight

Industrial

Applications

- Industrial sheds
- Trusses, columns and purlins
- Material storage racks
- Mine roof support systems (cogs and props)
- Pallets
- Pipe racks
- Conveyor gantries and trestles
- Drilling rigs
- Steel and power plants

Attributes

- High strength to weight ratio
- Cost effective
- Ease of fabrication and erection
- Ease of maintenance
- Free from sharp edges

General Engineering

Applications

- Automobile chassis
- Greenhouse structures
- Truck and bus body members
- Hoarding structures
- Amusement park and playground equipment
- Exhibition stalls
- Scaffolding
- Furniture
- Solar power plant structures

Attributes

- Lightweight
- Ease of fabrication
- High torsional resistance
- Minimal painting area
- Appealing aesthetics

ADVANTAGES OF HARIOM HOLLOW SECTIONS

Hariom Steel Hollow Sections

- Excellent distribution of material around the axis of steel hollow sections adds to their strength and thus offers decisive advantage with regard to application technology.
- Higher strength to weight ratio could result in a 23% saving of steel.

5Cs FORMULA OF HARIOM

Corrosion Resistant

- Less exposed surface area combined with superior quality raw material results in less corrosion.
- Smooth uniform profiles of sections minimises dust and moisture accumulation.

Convenience of Fabrication

- Due to less weight and smoother profile, fabrication is easier.
- Minimum use of gusset plates expedites the fabrication process.

Concentric Strength

- By virtue of its shape, hollow sections have high radius of gyration, resulting in higher concentric strength.
- Due to closeness of the sections, there will be higher torsional rigidity compared to conventional sections.
- It facilitates lateral stability and lower wind drag.
- This enables weight reduction.

Cost Effective

- The high radius of gyration of hollow pipes and other properties help save material, transportation and fabrication costs.
- Lower surface area compared to equivalent conventional sections help save paint and labour costs.

Creativity

- Due to higher torsional rigidity and better moment resistance on both the axes, bending of hollow sections is easier compared to open sections. This gives flexibility to the architects to shape their structures and express their creativity.
- Smooth profile of our hollow sections enhances the aesthetic appeal of the structures.
- These are suited for usage in exposed environments.

HARIOM PIPE RANGE

Square Hollow Sections

SHS (mm)	Thickness	Weight (kg/m)
20x20	2.0	0.99
	2.6	1.20
	2.9	1.30
25x25	2.0	1.36
	2.6	1.69
	3.2	1.98
32x32	2.0	1.80
	2.6	2.26
	3.2	2.69
40x40	2.0	2.31
	2.6	2.92
	3.2	3.49
	3.6	4.06
	4.0	4.20
50x50	2.0	2.93
	2.6	3.74
	2.9	4.12
	3.2	4.75
	4.0	5.66
60x60	2.0	3.65
	2.6	4.55
	3.2	5.5
	4.0	6.71
72x72	2.0	4.29
	2.6	5.35
	3.2	6.71
	4.0	8.22
80x80	3.2	7.51
	4.0	9.22
91.5x91.5	2.6	7.17
	3.2	8.77
	3.6	9.67
	4.0	10.88
100x100	2.6	7.97
	3.2	9.76
	4.0	11.8

Rectangular Hollow Sections

RHS (mm)	Thickness	Weight (kg/m)
40x20	2.0	1.72
	2.6	2.27
	3.2	2.75
50x25	2.0	2.15
	2.6	2.71
	3.2	3.24
	4.0	3.88
60x40	2.0	2.93
	2.6	3.73
	3.2	4.75
	4.0	5.66
75x25	2.0	2.93
	2.6	3.73
	3.2	4.75
	4.0	5.66
66x33	2.0	2.84
	2.6	3.69
	3.2	4.40
	4.0	5.48
80x40	2.0	3.65
	2.6	4.55
	3.2	5.75
	3.6	6.31
	4.0	6.71
100x25	2.0	3.65
	2.6	4.55
	3.2	5.75
96x48	2.0	4.28
	2.6	5.45
	3.2	6.71
	3.6	7.41
	4.0	8.22
122x61	2.6	6.93
	3.2	8.76
	3.6	9.61
	4.0	10.88

Circular Hollow Sections

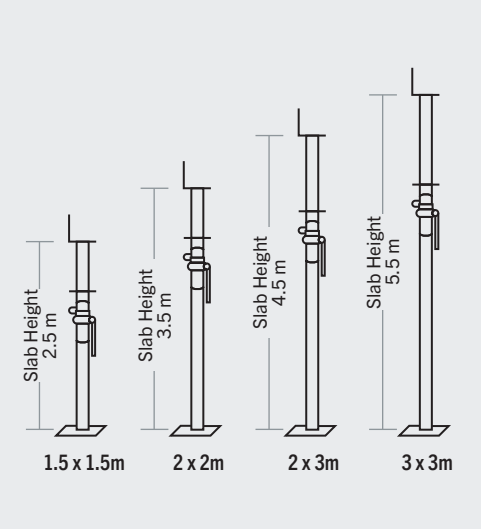
NB (mm)	OD (mm)	Thickness	Weight (kg/m)
15	21.3	2.0	0.95
		2.6	1.21
		3.2	1.44
20	26.9	2.0	1.38
		2.6	1.56
		3.2	1.87
25	33.7	2.0	1.59
		2.6	1.98
		3.2	2.41
32	42.4	2.0	2.03
		2.6	2.54
		3.2	3.01
		4.0	3.79
40	48.3	2.0	2.33
		2.6	2.89
		2.9	3.23
		3.2	3.56
		4.0	4.37
50	60.3	2.0	2.92
		2.6	3.72
		2.9	4.08
		3.6	5.03
		4.0	5.56
65	76.1	2.0	3.66
		2.6	4.54
		3.2	5.71
		4.0	7.12
80	88.9	2.6	5.4
		3.2	6.72
		4.0	8.36
100	114.3	3.2	8.64
		4.0	10.88
		4.5	12.2
110	127.5	3.2	9.65
		4.0	12.08
		4.5	13.6

All figures are shown subject to BIS Tolerance • Other commercial sizes & Thicknesses also available. • Standard length 6.0 Mtrs

SCAFFOLDING PRODUCTS

TELESCOPIC PROPS/ ADJUSTABLE PROPS/ JACKS/PROPS

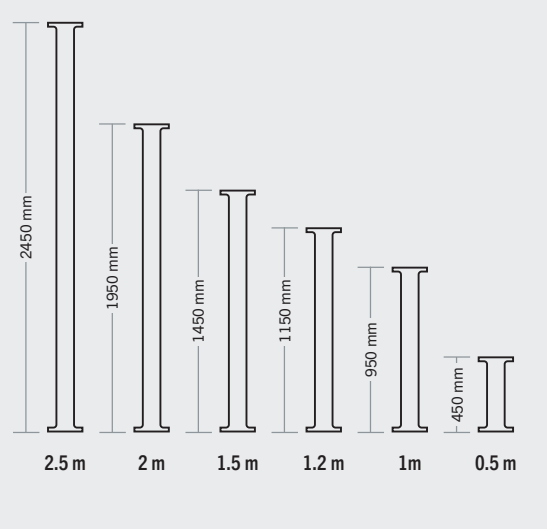
Props consist of an outer – made from an NB 50mm MS 'B' Class Pipe – and an inner – made from an NB 40mm MS 'B' Class Pipe. The inner slides in and out, adjusting the height as required, with support from a malleable cast iron nut. On both the ends, it is welded with an MS Base Plate of size 150x150x6mm, using CO_2 MIG. The Top Head is available in: L-Type, Beam Head, U-Head and Standard Flat Type.



CUPLOCK HORIZONTAL/ LEDGERS

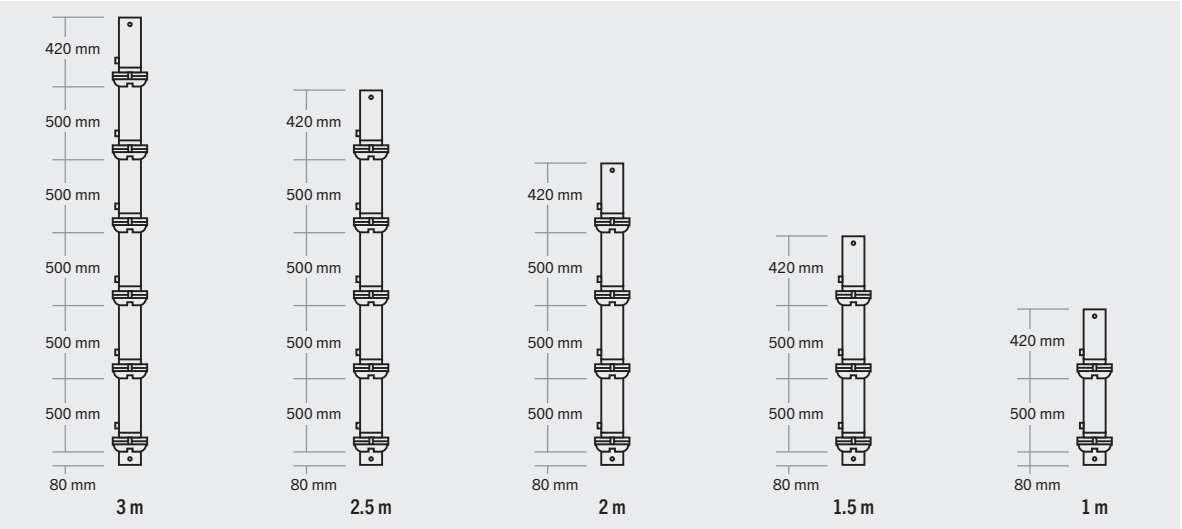
Cuplock Horizontals/Ledgers are made from an NB 40mm 'B' Class Pipe with CO_2 MIG-welded Ledger blades on both ends.

Cuplock Horizontals/Ledgers are made from a 48 OD 'B' Class Pipe with CO_2 MIG-welded Ledger blades on both ends.



CUPLOCK VERTICALS

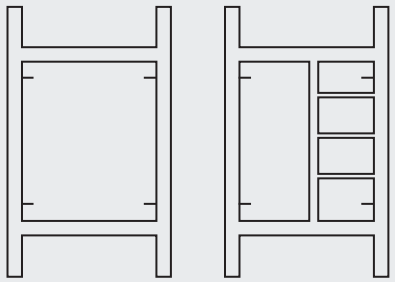
Cuplock Verticals are made from an NB 40mm MS 'B' Class Pipe with a malleable cast iron top cup and bottom cup. CO_2 MIG is used to weld both, at intervals of 500mm, centre to centre.



H FRAME SYSTEM

(Note: To make an H Frame set, we require two H Frames and two Cross Bracings)

H Frame Ladder types consist of a main structure – made from an NB 40mm MS 'B' Class Pipe – with an NB 20mm 'B' Class Pipe ladder structure that is arranged at equal distances.

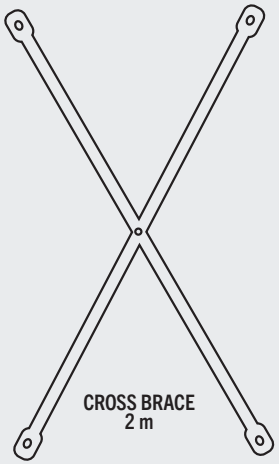


H-FRAME
2 x 1 m

H-FRAME
WITH LADDER

Cross Bracings are made from NB 25mm MS 'B' Class Pipes.

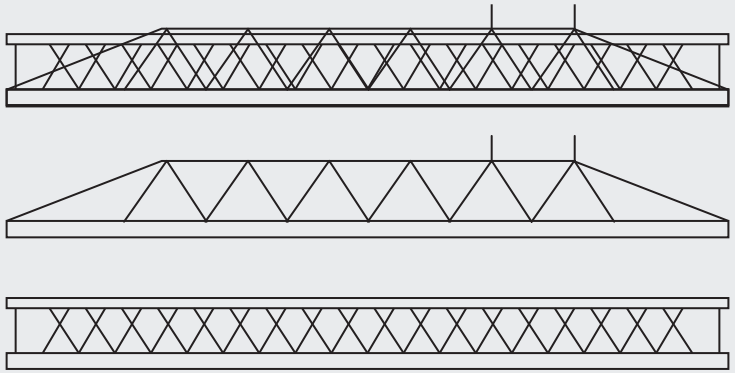
(Note: Two units of NB 25mm MS 'B' Class Pipes together with nut bolts make one Cross Bracing)



CROSS BRACE
2 m

SPAN/ACRO SPAN/TELESCOPIC SPAN/ADJUSTABLE SPAN

Adjustable Spans are CO_2 MIG welded and made from 2mm thick HR Sheet and 8mm MS Rod. The outer span has a fixed length while the inner span slides in and out, adjusting the width as required.

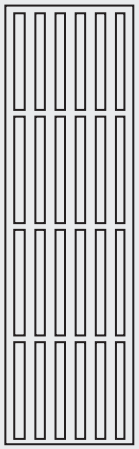


Size: 2.3 m + 2.3 m

OTHER SCAFFOLDING PRODUCTS

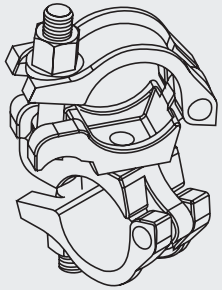
JALLI (PLANK)

Jalli (Plank) is CO_2 MIG welded and made from 25x25x2mm thick MS Square Pipes, available in widths of 300mm and 400mm and lengths of 1.5m, 1.8m, 2m and 2.5m with a load bearing capacity of 220kg.

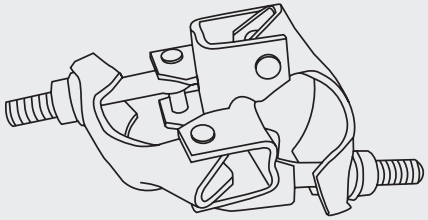


CLAMPS/COUPLERS

Swivel Coupler/Rotational Couplers are suitable for 40 NB Pipes.



Fixed Coupler/Right Angle Clamps are suitable for 40 NB Pipes.

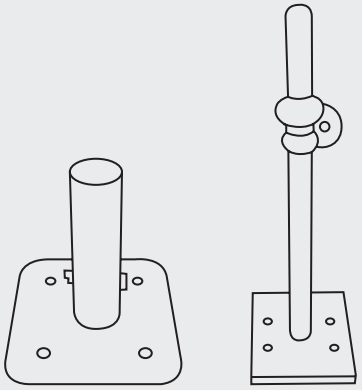


FIXED BASE PLATES

1. Fixed Base Plates are made from a 38 OD MS 'B' Class Pipe and are CO_2 MIG-welded with a 150x150x6mm sized Base Plate.

ADJUSTABLE BASE PLATES

2. Adjustable Base Plates are made from a 32 OD Solid Rod that is hydraulically threaded and CO_2 MIG-welded with a 150x150x6 mm sized Base Plate; also includes a malleable cast iron jack nut.

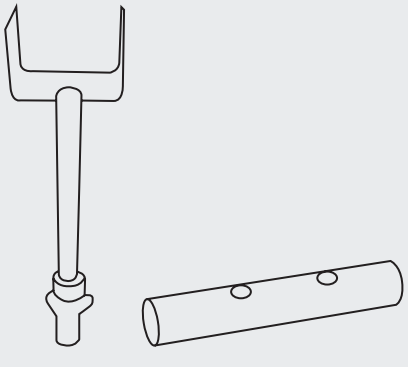


ADJUSTABLE U JACKS

3. Adjustable U Jacks are made from a 32 OD Solid Rod that is hydraulically threaded; the top is CO_2 MIG welded with a 75x75x125x6mm U Jack and also includes a malleable cast iron jack nut

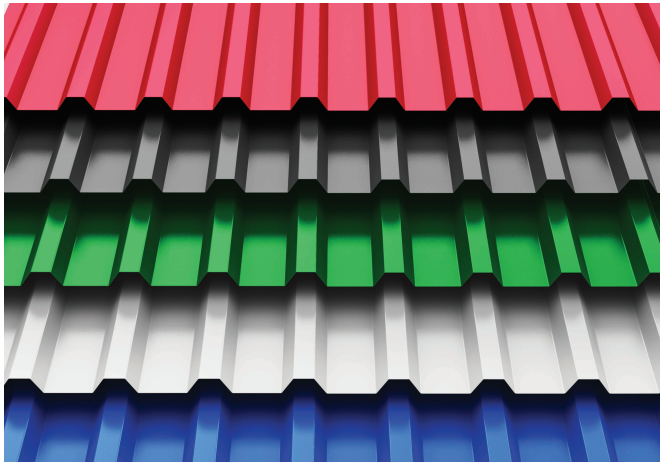
SPIGOT PIN/JOINT PINS

4. Spigot Pin/Joint Pins made from 38 OD MS Round Hollow 'B' Class Pipes with holes on both ends.



Note: We also supply customized products as per client requirements.

ROOFING SHEETS



Roofing sheets offer a large range of geometric designs which make them suitable for multiple purposes. We manufacture them in varied standard and customised specifications, thickness and dimensions. These sheets offer high resistance to corrosion and are highly durable. These sheets are made using high quality inputs and best-in-class technology.

Applications

- Wall panels
- Industrial sheds
- Construction industry

HARIOM

PIPES | SCAFFOLDING | COILS

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