

Mahabir GI Pipes

Pipes & Hollow Steel Sections

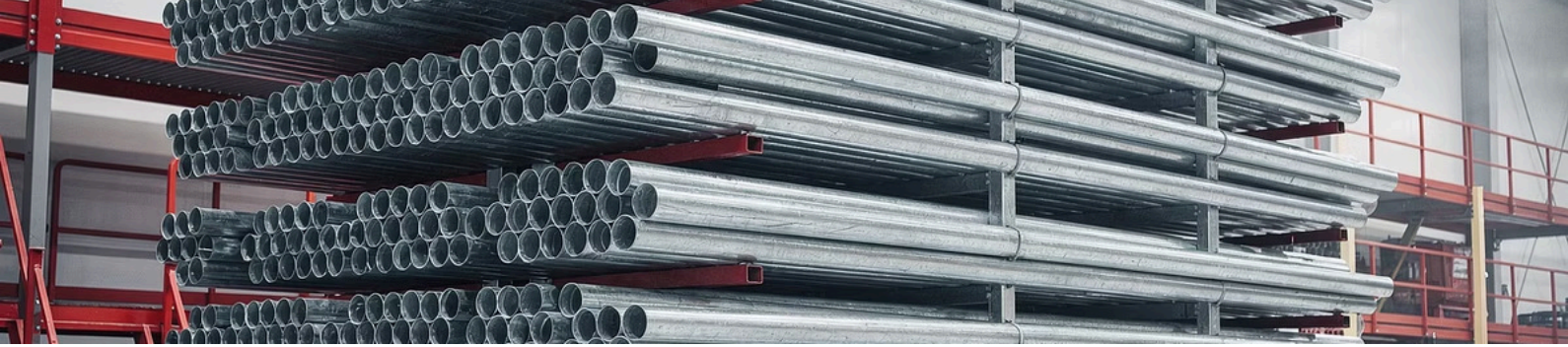
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Transmission Towers • Machine Manufacturers & Green Field Project Exports • International Tenders

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Bank ALFalah



About Us

Mahabir Industries is an ISO-certified, diversified manufacturing company with a strong operational presence across India and Africa, and a proven track record recognized through multiple Government of India awards. Backed by state-of-the-art fabrication and galvanizing facilities, we deliver products engineered for performance, longevity, and export compliance.

Established with a clear vision to support growing infrastructure and industrial demands, Mahabir Industries specializes in the manufacture and supply of high-quality Galvanized Iron (GI) Pipes for a wide range of applications including water transmission, power, telecom, infrastructure, industrial, and utility projects.

With deep manufacturing expertise and a continuous improvement mindset, we focus on process optimization, stringent quality control, and cost efficiency, ensuring our GI pipes meet both national and international standards. Our products are designed to deliver excellent corrosion resistance, structural strength, dimensional accuracy, and long service life, even in demanding environments.

Our advanced galvanizing processes ensure uniform zinc coating and superior surface finish, enhancing durability and reducing lifecycle maintenance costs. Every pipe undergoes rigorous inspection to ensure consistency, reliability, and compliance with project specifications.

Driven by a quality-first philosophy and customer-centric approach, Mahabir Industries has emerged as a trusted supplier of GI pipe solutions for government bodies, EPC contractors, utilities, and private sector enterprises.

At Mahabir Industries, we don't just manufacture GI pipes — we deliver dependable infrastructure solutions built to last.



Application

A wide range of application is found in almost every sector

1

WATER PIPE LINES

WATER MAINS,
INDUSTRIAL WATER LINES,
PLANT PIPING, DOMESTIC
WATER SUPPLY etc.

2

GAS PIPE LINES

PIPE LINES FOR NATURAL
GAS, LPG & OTHER NON-
TOXIC GASES.

3

AGRICULTURE & IRRIGATION

DEEP TUBE-WELLS &
CASING PIPES.

4

TRANSPORTATION INDUSTRIES

CONVEYING OF
CHEMICALS &
STRUCTURAL SUPPORT OF
CONVEYING SYSTEM.

5

FIRE FIGHTING SYSTEM AND AIR-CONDITIONING

ASH HANDLING SYSTEM,
LP PIPING.

6

CONSTRUCTION INDUSTRIES

SCAFFOLDING &
STRUCTURAL PURPOSES.

7

OTHER PURPOSES

EXHAUST PIPING, STEEL
TUBE IDLERS & TROUGHS
BELT CONVEYORS, COLD
STORAGE, SUGAR
INDUSTRY APPLICATIONS
etc.

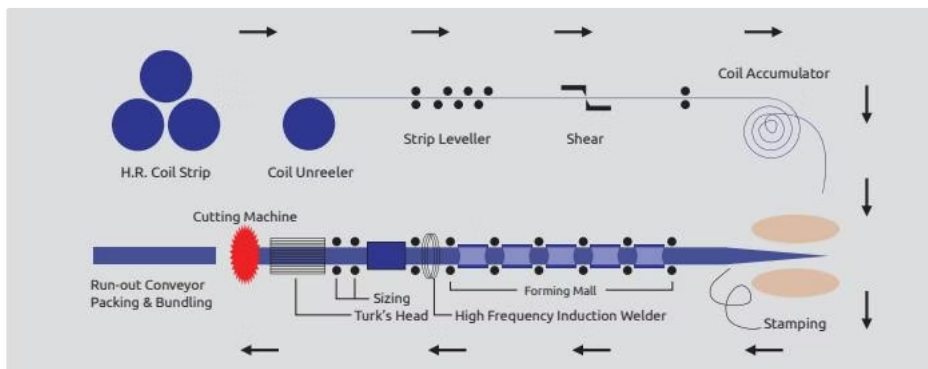
THE PROCESS CHART

MANUFACTURING PROCESS PIPES

The manufacturing process of Mahabir Pipes involves uncoiling & levelling of coils and processing the same. The lead end of each coil is squared by shearing operation into the mill. Then this end is joined with the coil end of outgoing coil to maintain continuity in production and reduce losses.

Subsequently the pipe string passes through sizing stands to obtain perfect roundness and diameter. Then pipes are cut to the desired length as per requirement.

Tubes are created for forming into square and rectangular forms, manufactured by Electric Resistance Welding.



QUALITY CONTROL

Random inspections are carried out during production, for surface defects, diameter accuracy, quality and weld bead shape.

Required sample rings as per specification are cut to carry out mechanical testing of weld and body e.g., flattening test, bend test etc.

All pipes & hollow steel sections are then processed in finishing and testing area for pipe end preparation i.e., facing/bevelling followed by hydrostatic pressure testing as per specification.



MAHABIR HOLLOW STEEL SECTIONS

Hollow steel sections are the most versatile and efficient option for construction and mechanical applications.

MSP hollow steel sections have a wide range of industrial & commercial applications - water & gas pipelines, chemical industries, structural and infrastructural engineering etc.



The benefits of choosing MSP steel hollow sections over other brands are:

- Manufactured from world-class coils.
- Lesser surface exposure acts as formidable barrier to rust.
- Lesser painting and maintenance cost.
- Lower dead weight helps in reducing the design loads on earthquake resistant structures, thereby reducing the material cost of foundation.

PRODUCT RANGE



BLACK/GALVANISED STEEL PIPES

For ordinary use in Water, Gas and Air Lines

Range

15 mm NB - 150 mm NB

Standard

IS: 1239 (Part-I) - 2004



STEEL PIPES

For Water and Sewage Purposes

Range

168.3 mm x 2.6 mm to 323.9 mm x 7.10 mm

Standard

IS: 3589 - 2001



BLACK/GALVANISED/ PRE-GALVANISED

For General Engineering Structural Purpose

Black, GI Range & GP Range

15 mm NB to 200 mm NB

Standard

IS: 1161 - 2014



STEEL TUBES

For Mechanical and General Engineering

Range

42.4 mm O/D to 406.4 mm O/D

Standard

IS: 3601 - 2006



SQUARE HOLLOW SECTIONS BLACK & GP

For Structural Purpose

Black Square Range

25 mm x 25 mm up to 150 mm x 150 mm

Black Square Range & GP Square Range

Standard

IS: 4923 - 2017



RECTANGULAR SECTIONS BLACK & GP

For Structural Purpose

Black Rectangular Range

50 mm x 25 mm up to 500 mm x 300 mm

Black Rectangular Range & GP Rectangular Range

Standard

IS: 4923 - 2017

The applications of these sections in the structural domain are as follows

2. Industrial Applications

- **Conveyor Systems:** Frameworks for conveyor belts & systems
- **Storage Systems:** Racking systems and warehouse shelving
- **Pipe Supports:** Structures to hold pipelines

3. Industrial Applications Transportation

- **Automotive Industry:** Frames, chassis, and crash barriers for vehicles
- **Railway Applications:** Components for wagons, coaches, & overhead electric supports

4. Energy Sector

- **Transmission Towers:** Lightweight but strong components for power line supports
- **Wind Turbines:** Structural supports for turbine blades
- **Solar Panel Mounting Structures:** Frameworks for mounting solar panels

5. Agriculture and Rural Development

- **Greenhouses:** Frames for agricultural greenhouses
- **Fencing:** As posts and rails for fencing solutions
- **Irrigation Structures:** Frameworks for water storage and distribution

6. Urban and Landscape Design

- **Signage:** Supporting poles for boards and street signs
- **Street Furniture:** Benches, shelters, and bike racks
- **Playgrounds:** Frameworks for play equipment

7. Sports and Recreational Structures

- **Stadiums:** Roofs, spectator stands, and light towers
- **Gym Equipment:** Lightweight structures for fitness machines

8. Architectural Applications

- **Aesthetic Structures:** Used in modern designs for bridges, facades, and building exteriors
- **Skylights and Canopies:** Providing strength and style

9. Offshore and Marine

- **Oil and Gas Platforms:** Used in offshore drilling structures

Steel Tubes For Ordinary Uses In Water, Gas And Air Lines Conforming to IS:1239, Part I - 2004

Thickness and Mass are applicable for Black and Galvanised Steel Tubes

Normal Bore & Series	Outside Diameter		Wall Thickness		Normal Mass of Steel Tube Plain End		Screwed & Socketed	
	Max. mm	Min. mm	mm	SWG	Kg/M	Mtrs/Tonne	Kg/M	Mtrs/Tonne
15 L	21.4	21.0	2.0	14	0.947	1056	0.956	1046
15 M		21.8	2.6	12	1.21	826	1.22	820
15 H		21.0	3.2	10	1.44	694	1.45	690
20 L	26.9	26.4	2.3	13	1.38	725	1.39	719
20 M		26.5	2.6	12	1.56	641	1.57	637
20 H		26.5	3.2	10	1.87	535	1.88	532
25 L	33.8	33.2	2.6	12	1.98	505	2.00	500
25 M		33.3	3.2	10	2.41	415	2.43	412
25 H		33.3	4.0	8	2.93	341	2.95	339
32 L	42.5	41.9	2.6	12	2.54	394	2.57	389
32 M		42.0	3.2	10	3.10	323	3.13	319
32 H		42.0	4.0	8	3.79	264	3.82	262
40 L	48.4	47.8	2.9	11	3.23	310	3.27	306
40 M		47.9	3.2	10	3.56	281	3.60	278
40 H		47.9	4.0	8	4.37	229	4.41	227

Normal Bore & Series	Outside Diameter		Wall Thickness		Normal Mass of Steel Tube Plain End		Screwed & Socketed	
	Max. mm	Min. mm	mm	SWG	Kg/M	Mtrs/Tonne	Kg/M	Mtrs/Tonne
50 L	60.2	59.6	2.9	11	4.08	245	4.15	241
50 M		60.8	3.6	9	5.03	199	5.10	196
50 H		60.8	4.5	7	6.19	162	6.26	160
65 L	76.0	75.2	3.2	10	5.71	175	5.83	172
65 M		76.6	3.6	9	6.42	156	6.54	153
65 H		76.6	4.5	7	7.93	126	8.05	124
80 L	88.7	87.9	3.2	10	6.72	149	6.89	145
80 M		89.5	4.0	8	8.36	120	8.53	117
80 H		89.5	4.8	6	9.90	101	10.10	99
100 L	113.9	113.0	3.6	9	9.75	103	10.00	100
100 M		115.0	4.5	7	12.20	82	12.50	80
100 H		115.0	5.4	5	14.50	69	14.80	68
125 M	140.8	138.5	4.8	6	15.90	63	16.40	61
125 H		140.8	5.4	5	17.90	56	18.40	54
150 M	166.5	163.9	4.8	6	18.90	53	19.50	51
150 H		166.5	5.4	5	21.30	47	21.90	46

Sizes & thickness other than listed above can be supplied on mutual understanding of the manufacturer and buyer

TOLERANCE

THICKNESS	TOLERANCE
1. Light Tube	+ not limited-8%
2. Medium and Heavy Tube	+ not limited-10%

WEIGHT	TOLERANCE
1. Single Tube Light Series)	+ 10%-8%
3. Single Tube (Medium and Heavy Series)	± 10%
4. For quantities per load of 10 tonnes minimum (Light Series)	+ 7.5%-5%
5. For quantities per load of 10 tonnes minimum (Medium and heavy Series)	± 7.5%

LENGTH TOLERANCE

Unless otherwise specified 4 to 7 mtrs. can also be supplied in fix lengths.

OTHER ALLOWABLE STRESS VALUES (IN MPa)

Steel Grade	Minimum Yield Stress	Minimum UTS
Yst 210	210	330
Yst 240	240	410
Yst 310	310	450

Note 1 Minimum % Elongation: 10% for GR, Yst 310, 15% for GR, Yst 240 & 20% for GR Yst 210

Note 2 We also manufacture & supply all kind of section in accordance with EN 10219 & ASTM-A 500

Large Dia ERW Pipes

Steel tubes for water and sewage purposes conforming to IS:3589:2001

(Grade FE 330, FE 410 & FE 450)

A - PHYSICAL PROPERTIES

T.S. (min)	YS. (min)	Elongation %
195	FE 330	20
235	FE 410	18
275	FE 450	15

Note Elongation percent for tubes up to and including 25 mm NB for all grades shall be 12 minimum

B - TOLERANCE

1. Outside diameter of ERW pipe $\pm 0.75\%$
2. Thickness $\pm 10\%$
3. Unless otherwise specified, lengths are in single random lengths from 4 to 7 metres and double random lengths from 7 to 14 metres.

Note Sizes other than specified above may be supplied as per the customer requirement.

Outside diameter mm	Wall thickness mm	Weight (Plain End)	
		Kg/m	m/tonne
168.3	2.6	10.6	94
	3.2	12.0	83
	4.0	16.2	62
219.1	4.5	18.2	55
	2.6	13.9	72
	3.6	19.1	52

	4.5	23.8	42
	6.3	33.1	30
273	3.6	23.9	42
	4.0	26.5	38
	5.6	33	30
	6.3	41.1	24
323.9	4.0	31.8	31
	4.5	35.4	28
	5.6	44	23
	7.1	55.5	18
355.6	4.0	34.7	29
	5.0	43.2	23
	5.6	48.3	21
	8.0	68.6	15

MAHABIR STRUCTURAL TUBES

Steel Tubes for Structural Purposes

Conforming to IS : 1161 : 2014

Grade YST 210, YST 240, YST 310

N.B. and Series	Outside Diameter		Thickness	Nominal Weight Black Tubes Plain End
	mm	mm	kg/m	m/tonne
L 15 M H	21.3	2.0 2.6 3.2	0.947 1.21 1.44	1056 826 694
L 20 M H	26.9	2.3 2.6 3.2	1.38 1.56 1.87	725 641 535
L 25 M H	33.7	2.6 3.2 4.0	1.98 2.41 2.93	505 415 341
L 32 M H	42.4	2.6 3.2 4.0	2.54 3.10 3.79	394 323 264
L 40 M H	48.3	2.9 3.2 4.0	3.23 3.56 4.37	310 281 229
L 50 M H	60.3	2.9 3.6 4.5	4.08 5.03 6.19	245 199 162
L 65 M H	76.1	2.9 3.6 4.5	5.24 6.42 7.93	175 156 126
L 80 M H	88.9	3.2 4.0 4.8	6.72 8.36 9.90	149 120 101

N.B. and Series	Outside Diameter		Thickness	Nominal Weight Black Tubes Plain End
	mm	mm	kg/m	m/tonne
L 90 M H	101.6	3.6 4.0 4.8	8.70 9.63 11.50	115 144 87

L 100M H	114.3	3.6 4.5 5.4	9.75 12.20 14.50	103 82 69
L 110M H	127.0	4.5 4.8 5.4	13.60 14.50 16.20	74 69 62
125M H	139.7	4.8 5.4	15.90 17.90	63 56
135M H	152.4	4.8 5.4	17.50 19.60	57 51
150M H	165.1	4.8 5.4	19.4 21.7	52 46
175M H	193.7	5.4 5.9	25.10 27.30	40 37
200	219.1	5.6 5.9	29.50 31.00	34 32
225	244.5	5.9	34.70	29

A – Physical Properties

Grade	YS. (min) (Mpa)	T.S. (min) (Mpa)	Elongation % (Min.)
YST-210	210	330	20
YST-240	240	410	17
YST-310	310	450	14



Your Reliable Partner in GI Pipe Solutions

From manufacturing to delivery, Mahabir Industries supports infrastructure projects with precision-engineered GI pipes you can trust.

Get in touch to explore collaboration opportunities.

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