

Nothing else will do



STRUCTURAL STEEL AT THE CORE OF GROWTH



'India' and 'Growth', today have become synonyms. The world is seeing India as the centre of growth and a rising superpower. It has become a home to inventions and innovations that are not just giving India an edge over others, but also opening the doors to a better future for the whole world.

It all started in 1947 when India saw the light of freedom after a long and dark phase of colonisation. Left with nothing but underdevelopment, poverty, lack of education, unemployment and many such problems, the country realized that it's only industrialisation and development that can improve the nation's situation and help it move on the path of growth.



While each and every Indian takes pride in presenting the growth and development of our country, we, at Mahavir Steel Industries, are extremely honoured to contribute towards it by putting our structural steel offerings to their best use wherein they are at the core of infrastructure development, automobile manufacturing, power generation & distribution, heavy engineering and other industries.

We believe that the core sectors like infrastructure, transportation and energy together form the backbone of every nation and enable it to rise and grow.



The DNA, the core, of every industry is made of structural steel. And as they say 'A strong core is the key to explore endless possibilities'. We, at Mahavir Steel Industries, leave no stone unturned in the process of developing the finest quality structural steel elements that are directly or indirectly going to form the base of future India.

Mahavir Steel Industries Limited was founded in 1968 at Bhosari near Pune to be a part of 'Developing India' and to power the nation to develop and grow even more. Manufacturing and delivering high quality structural steel elements not only helped us win the trust of all our existing clients, but also enabled us to get more and bigger clients spread across various industries.

Thus, helping us to reach the epic milestone of manufacturing more than 100 tonnes of structural steel elements per day in mid 1970s.

The passing time, growing trust and increasing

requirements in the agricultural sector caused the establishment of our second unit at Yawat, near Pune, in 1993. This improved and technologically advanced unit majorly catered to the requirements of the expanding vineyards in the Pune - Solapur region.

Mahavir Steel Industries is the most trusted name in manufacturing Angles, Channels, Flats, Round Bars, Square Bars, I Beams and H Beams. Our approach, goodwill and commitment towards achieving customer satisfaction also makes us the preferred partner of many industries and agricultural units to develop customised products according to their specific requirements.

Combining stringent quality raw materials, innovative technology and years of experience, we deliver the highest quality MS products that meet international standards.

Today, with over 300 metric tonnes of daily & on-time deliveries, an in-house fleet of 15 delivery trucks along with in-house maintenance unit, in-house research & development, quality testing laboratory and an independent wing that develops EOT cranes, the name 'Mahavir Steel' itself has become a mark of quality, trust and confidence for every industry.



FABRICATING... the structure of the nation's dreams

Fabrication is the first and the most important step in the journey of bringing the structure of your dream to life.

From the simplest construction to the most intricate and iconic engineering structure, every project requires a strong core made using world-class structural steel elements.

We, at Mahavir Steel, bring you the finest quality elements manufactured using the best sourced raw materials, state-of-the-art technology and with ultimate precision. Moreover, each of our element is thoroughly checked for quality, seamlessness, strength and durability.

Our experience, expertise, large scale production along with in-house delivery fleet enables us to fulfill even the most complex and customised requirements along with delivering end-to-end project solutions. Our products are widely used in large fabrication, heavy engineering and ship building industries.



DRIVING... the wheels of the nation's dreams

Since the beginning of the transportation revolution, after cast iron, structural steel has been the first choice of every automobile and rail coach manufacturer for the construction of the body material and chassis structure.

Along with being lightweight that helps to improve performance and fuel efficiency, structural steel also ensures ultimate safety of the passengers and goods in the vehicle.

Whether it's an upgrade in the design, performance, safety, economy or any other aspect, the automotive industry today is introducing a new innovation almost every day. The constantly changing needs and requirements have given rise to extremely specific demands by the manufacturers.

Believing in changing with time and constantly upgrading our offerings, we, at Mahavir Steel, guarantee the best variety of angles, channels, flats, bars, beams or any other customised structural steel element made in mild steel of varying sizes, thickness and strength best suited for automobiles and railways.



POWERING... the future of the nation's dreams

Energy is the soul of every operation that directly powers the growth and development of any country.

Whether it is industrialisation or agriculture, the demand for energy is rising each day. With the growing development the need for power generation units, transmission and distribution infrastructure is also increasing.

Understanding this scenario, we at Mahavir Steel are committed to develop and deliver the best quality structural steel elements that effectively and efficiently support the required infrastructure like transmission towers.

Along with successfully meeting the regular requirements for angles, channels, flats, bars and beams, we also offer exclusive customized solutions for specific requirements.



HANDLING... the load of the nation's dreams

Time is money and the constant innovation in technology has enabled us to save both. Today, as the demand for industrial goods and products is constantly rising, the pressure to deliver better quality products at a faster pace is also increasing. So, in order to accelerate the pace of delivery and ensure smooth and safe handling of products, the manufacturers have started to upgrade their production units, workshops and warehouses with technologically advanced EOT Cranes. This upgradation move has not just helped them save time and money, but also the precious lives of the workers along with the goods by radically reducing the amounts of accidents.

Since the introduction our material handling range of structural steel elements that focuses on aiding the development of innovative EOT Cranes, we at Mahavir Steel have been trusted by private as well as public limited companies to deliver the best quality and strong steel of varied shapes and sizes.

The EOT Cranes are mostly custom built to cater to specific requirements of various setups. Our innovative designs and technology enables the EOT Crane manufacturers to choose precise structural products from our size range that perfectly matches their requirements, thus minimize wastage.



BUILDING... the cities of the nation's dreams

As they say 'Infrastructure is what you need to take the overall growth to the next level', India has already started to invest in building better, bigger and more beneficial infrastructure in order to accelerate the pace of the growth of our country.

Developing world-class infrastructure requires worldclass materials that give the construction a strong core and enables it to stand strong for years and years. Committed to contributing towards the growth and development of our country, we at Mahavir Steel develop the finest quality, extremely strong and unbelievably longlasting structural steel elements that help in developing the strongest core and build a landmark that will make our country proud.

Whilst offering the regular elements like angles, channels, flats, rounds and beams, we also develop exclusive customised elements to satisfy the unique requirements of extraordinary projects.



BRIGHTENING UP... the spaces of the nation's dreams

The rising awareness about environment-friendly and renewable substitutes of energy resources has made solar power the most preferred source of clean, green and economical energy.

Supporting the great migration from non-renewable energy to renewable energy, we at Mahavir Steel have designed and developed exceptional structural steel elements for fabricating Solar Module Mounting Systems, that match the environmental conditions of the installation site, minimise labor and enables easy on-site welding or fitting.

These innovative design and application solutions have helped our company to become a trusted supplier for not only Solar Setups manufacturers, but also government recognised urban and rural development authorities.



GROWING... the reach of the nation's dreams

The most important part of the Indian economy, agriculture today is not the same as it was a few years back.

Along with various industries, the trend of growth and development has impacted the agricultural sector too and transformed it into a surplus producing sector from just being self-sufficient.

In order to spread this growth and development in the remotest rural areas and help the smallest farmers enjoy the sweet taste of surplus production, we at Mahavir Steel have developed exclusive structural solutions that effectively solve all their vineyard, dairy, cattle and storage related requirements.

Our innovative and durable structural steel solutions consisting of MS angles, channels, flats and beams have helped us become the largest supplier to grape growers in Solapur and Sangli District.



STRUCTURAL STEEL... the range that Mahavir Steel is proud of

Since inception, Mahavir Steel Industries has always been committed to developing more and more innovative and finest quality structural steel elements that can be used is every industry that strengthens the core industries of our country and helps it's all-round, ecofriendly and long-lasting growth and development.

Our structural steel range is in conformance to IS 2062 Grade A. We also manufacture in EN8, EN8D, EN9 and EN16 on prior sale and advance intimation.

MS ANGLES (EQUAL)					
Size	Average	Weight			
mm	kg/mtr	kg/ft			
25x3	1.10	0.30			
25x5	1.80	0.50			
25x6	2.10	0.60			
30x3	1.40	0.40			
35x3	1.60	0.50			
35x4	2.10	0.60			
35x5	2.60	0.80			
37x3	1.70	0.50			
40x4	2.40	0.70			
40x5	3.00	0.90			
40x6	3.50	1.10			
45x4	2.70	0.80			
45x5	3.40	1.00			
50x4	3.00	0.90			
50x5	3.80	1.20			
50x6	4.50	1.40			
55x4	3.30	1.00			
55x5	4.10	1.30			
60x4	3.70	1.10			
60x5	4.50	1.40			
65x4	4.00	1.20			
65x5	4.90	1.50			
65x6	5.80	1.80			
65x8	7.70	2.40			
65x10	9.40	2.90			
75x5	5.70	1.70			
75x6	6.80	2.10			
75x8	8.90	2.70			
75x10	11.00	3.40			
75x12	13.00	3.94			
90x6	8.20	2.50			
90x7	9.50	2.90			
90x8	10.80	3.30			
90x10	13.40	4.10			
100x6	9.20	2.80			
100x7	10.70	3.30			
		1 - H - H			

MS ANGLES (EQUAL)

Average Weight		
kg/mtr	kg/ft	
12.10	3.70	
14.90	4.50	
17.70	5.40	
13.80	4.18	
16.60	5.03	
20.80	6.30	
19.70	5.97	
23.50	7.12	
	kg/mtr 12.10 14.90 17.70 13.80 16.60 20.80 19.70	

MS ANGLES (UNEQUAL)

ĥ	Size	Average	Weight
	mm	kg/mtr	kg/ft
5	45x30x4	2.20	0.67
3	45x30x5	2.80	0.85

OO MS ANGLES

MS	CHANNEL	S

Size	Average Weight			
mm	kg/mtr	kg/ft		
70x35	4.20	1.30		
75x40 ST	7.10	2.20		
75x40 MD	6.50	2.00		
75x40 LT	5.70	1.70		
100x50 ST	9.60	2.90		
100x50 MD	9.20	2.80		
100x50 MD	8.70	2.60		
100x50 LT	7.90	2.40		
120x55	12.50	3.10		
125x65	13.10	4.00		
150x75	16.80	5.10		
200x75	22.30	6.80		



MS FLATS				MS FLATS		1		MS FLATS		
Size	Average	Weight		Size	Average	Weight	B	Size	Average	Weight
mm	kg/mtr	kg/ft		mm	kg/mtr	kg/ft		mm	kg/mtr	kg/ft
25x4	0.79	0.24		50x25	9.80	3.00	20	125x16	15.70	4.80
25x4.5	0.88	0.27		50x32	12.56	3.81	25	125x20	19.60	6.00
25x5	1.10	0.30		63x6	2.97	0.90		125x25	24.50	7.50
25x6	1.20	0.40		65x6	3.00	0.90	-	125x30	29.44	8.92
25x8	1.60	0.50	80	65x8	4.10	1.20		125x32	31.40	9.52
25x10	2.00	0.60		65x10	5.10	1.60		150x6	7.10	2.20
25x12	2.40	0.70		65x12	6.10	1.90		150x8	9.40	2.90
28x6	1.30	0.40		65x16	8.20	2.50	-	150x10	11.80	3.60
30x4	0.94	0.29	-	65x20	10.20	3.10		150x12	14.10	4.30
30x4.5	5 1.14	0.32	100	65x25	12.80	3.90		150x16	18.80	5.70
30x5	1.20	0.40		65x32	16.33	4.95		150x20	23.60	7.20
30x6	1.40	0.40	-	65x40	20.41	6.18		150x25	29.40	8.90
32x4	1.00	0.30	225	65x50	25.51	7.73		150x32	37.68	11.42
32x5	1.30	0.40		75x6	3.50	1.10		178x6	8.38	2.54
32x6	1.50	0.50		75x8	4.70	1.40	22	178x8	11.18	3.39
32x8	2.00	0.60	-	75x10	5.90	1.80	88	200x6	9.40	2.90
32x10	2.50	0.80		75x12	7.10	2.10	2	200x8	12.60	3.80
32x12	3.00	0.90		75x16	9.40	2.90	B	200x10	15.70	4.80
38x5	1.50	0.50	22	75x20	11.80	3.60	1	200x12	18.80	5.70
38x12	3.60	1.10		75x25	14.70	4.50		200x16	25.10	7.70
40x4	1.26	0.38	100	75x32	18.90	4.50		200x18	28.26	8.56
40x5	1.60	0.50	100	75x40	23.60	7.20	10	200x20	31.40	9.60
40x6	1.90	0.60	100	75x50	29.44	8.92		200x25	39.20	12.00
40x8	2.50	0.80		100x6	4.70	1.40	2	250x6	11.80	3.60
40x10	3.10	1.00		100x8	6.30	1.90		250x8	15.70	4.80
40x12	3.80	1.20		100x10	7.90	2.40		250x10	19.60	6.00
40x16	5.00	1.50	-	100x12	9.40	2.90		250x12	23.60	7.20
40x20	6.30	1.90		100x16	12.60	3.80		250x16	31.40	9.60
40x25	7.90	2.40		100x20	15.70	4.80		250x20	29.20	12.00
50x4	1.60	2.00		100x25	19.60	6.00	-	250x25	49.10	15.00
50x5	2.00	0.60	-	100x32	25.10	7.61		300x6	14.10	4.30
50x6	2.40	0.70	1	100x40	31.40	9.52		300x8	18.80	5.80
50x8	3.10	1.00		100x50	39.30	11.91	-	300x10	23.60	7.20
50x10	3.90	1.20	-	125x6	5.90	1.80		300x12	28.30	8.60
50x12	4.70	1.40	-	125x8	7.90	2.40	1	300x16	37.70	11.50
50x16	6.30	1.90	-	125x10	9.80	3.00			-	The state of
50x20	7.90	2.40		125x12	11.80	3.60		1000	1000	



MS I BEAMS								
Size	Average Weight							
mm	kg/mtr	kg/ft						
125x8	7.90	2.40						
125x10	9.80	3.00						
100x50 st	8.90	2.70						
100x50 мр	7.00	2.10						
100x50 lt	5.30	1.60						
125x70 s⊤	13.30	4.05						
125x70 мр	11.50	3.50						
125x70 lt	9.00	2.70						
150x75 s⊤	15.00	4.60						
150x75 LT	13.50	4.10						
200x100	24.20	7.40						



MS H BEAMS								
Size	Average	Weight						
mm	kg/mtr	kg/ft						
116x100 std	23.00	7.00						
116х100 мр	21.50	6.50						
125x70 st	13.30	4.00						
152x152 STD	37.10	11.30						
152x152 мр	34.00	10.40						
175x85 std	19.60	6.00						

MS H BEAMS

	MS SQUARES BARS							
ŝ	Size	Average Weight						
	mm	kg/mtr	kg/ft					
	10x10	0.80	0.20					
	12x12	1.10	0.30					
	14x14	1.50	0.50					
	16x16	2.00	0.60					
	20x20	3.10	1.00					
	25x25	4.90	1.50					
	32x32	8.00	2.40					
	40x40	12.60	3.80					
	42x42	13.85	4.20					
	50x50	19.60	6.00					
	53x53	22.05	6.68					
	56x56	24.60	7.50					
	63x63	31.20	9.50					



	MS ROUND BARS						
	Size	Average	Weight				
	mm	kg/mtr	kg/ft				
	10	0.62	0.19				
P	12	0.90	0.30				
2	14	1.20	0.40				
	16	1.60	0.50				
1	18	2.00	0.60				
	20	2.50	0.80				
	22	3.00	0.90				
1	25	3.90	1.20				
4	28	4.80	1.50				
	32	6.30	1.90				
	34	7.14	2.16				
	36	8.00	2.42				
	40	9.90	3.00				
	45	12.50	3.79				
	50	15.40	4.70				
	56	19.36	5.87				
	60	22.20	6.80				
	63.5	19.36	7.55				
	65	26.08	7.90				
	70	30.20	9.20				
	73	32.90	9.97				
9	75	34.72	10.52				
	78	37.56	11.38				
9	80	39.50	12.00				
	85	44.60	13.51				
	90	50.00	15.20				
	93	53.39	16.18				
6	95	55.71	16.88				
	100	61.50	18.80				
	105	68.06	20.62				
	110	74.60	22.75				
	115	81.64	24.74				
	125	96.45	29.23				
	and the second						

MS ROUND BARS



Raw Material: Ingot and billets are stocked after QA clearance



Counter & Pusher: Batched ingot or billets are pushed into furnace



25 metre Furnace: Ingot or billets are tempered at 1100°



Ejector: Hot raw material from the furnace ready for rolling



Rolling Mill: Product taking shape on the rolling mill



Rolling: 7 - 14 passes depending on the shape and size as required



Cooling: After the rolling, the final products are set for cooling



Cutting: The rolled products are sized to batch and order



Stacking: The finished products are stored batch-wise

QUALITY... the core of what Mahavir Steel does

Mahavir Steel is trusted for quality, process, system, precision, ethics, punctuality and delivery.

Awarded an ISO 9001:2008 certificate, the company is a proud home to a team of expert and experienced professionals, two plants featuring state-of-the-art technology, in-house delivery fleet and an in-house testing laboratory that tests each and every batch that we manufacture and ensures its quality.

In order to fulfill our commitment to deliver only the finest quality elements, that strengthens our country to grow, we have invested in the latest equipment Universal Testing Machine, Ultrasonic Testing Machine, Spectrometer, Infra Red Gun, Hardness Testing Machine and Impact Testing Machine for our laboratory. Ensuring maximum utilisation of all the state-of-the-art technology, our quality check procedure starts right at the procurement stage wherein the raw material, ingots, billets and every other material used in manufacturing the elements is checked thoroughly for its purity and composition.

Every batch manufactured is thoroughly checked and ensured that it aggressively meets the IS 2062 Grade A production standards along with the customer's requirements. A Mill Test Certificate with an original hologram and a signature in blue ink also endorses the quality of our products. Moreover, all our products except the 'Round & Square Bars' are embossed with 'Mahavir Pune' so that the customers can confirm the authenticity of our products. Our structural steel is manufactured as per IS 2062 Standard (Rev-2006), the set grade for "Steel for General Structural Purposes". Our products adhere to all the quality parameters of this standard to Grade A, commonly known as Fe 410 WA.

Chemical Composition (in % max values)								
Carbon % 0.23	Manganese max % 1.50	e Sulphur max % 0.045	Phosphoru max % 0.045	s Silicon max % 0.40	Carbon Equivalent 0.42			
Toleranc +0.02	e +0.005	+0.005	+0.005	0.003				
Mechanical Properties								
TensileYield Stress% Elongation at BendBendstrengthmin, MPamin, MPamin, MPagauge lengthTestmin, MPa<20 mm								

240



*t is thickness of material

250

410

The IS 2062/2006 Standard also comprises following:

23

• IS 808/1989, IS 1730 and IS 1732 Standards State details on dimensional tolerances for Hot Rolled Steel Section, viz, Angles, Channels and Beams.

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• IS 1852/1985 Standard State details on rolling and cutting tolerances for hot rolled sections. These tolerances are listed below:

Rolling Tolerances

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Angles			Round an	d Square Bars	
Leg length	upto 45mm 50 to 100mm over 100mm	±1.5mm ±2mm ±2%	Size	upto 25mm 25 to 35mm 35 to 50mm	±0.5mm ±0.6mm ±0.8mm
Sectional weight	3mm thick over 3mm	±5% +5%/-3%		50 to 80mm 80 to 100mm 100mm and	±1.0mm ±1.3mm ±1.6% of
Channels Depth		±2.5mm		above	diameter or side width
Flange	upto 100mm	±2mm	Ovality		±75% of
Sectional weight		±2.5mm	Ovanty		total tolerance
Flats Width	upto 50mm	±1.0mm			specified on the size
	50 to 75mm 75 to 100mm 100mm and above	±1.5mm ±2mm ±2% and max not	Weight size	10 to 16mm 16mm and above	±5% ±3%
		exceeding 6mm	l Beams Height		+3mm/ -2mm
Thickness	upto 12mm over 12mm	±0.5mm 4% and max not exceeding	Flange	upto 100mm 100 to 125mm 125 to 200mm	±2mm ±2.5mm ±4mm
Sectional	upto 3mm	1.5mm ±5%	Sectional weight		±2.5%
weight	over 3mm	±3%	In case of f	ixed length suppli	es, tolerance



in length maintained will be +100mm.

ACCREDITATION

- Power Grid Corporation
- Nuclear Power Corporation of India
- Gujarat Urja Vikas Nigam
- Central Organisation for Railways Electrification
- Tamil Nadu Transmission Corporation
- National Highways Authority of India
- MSEDCL
- NTPC
- BHEL
- HAL
- JNPT
- Bureau of Indian Standards (IS 2062 Grade A)
- Certification from BSI (ISO 9001:2008)

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