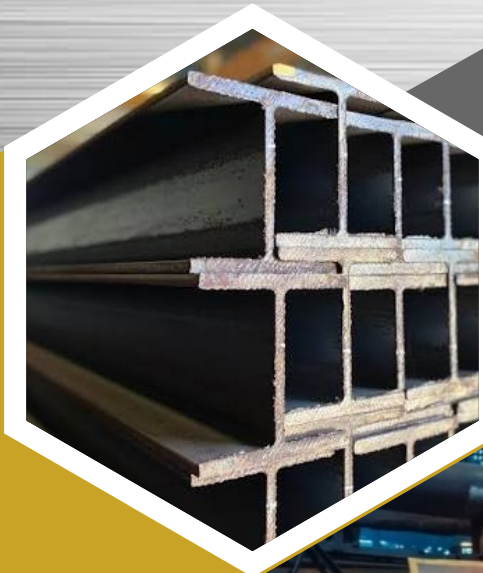




Marboot Steel Marboot Rishtey

MS Structures & Strips | M R Enterprises | Bhilai, Chhattisgarh, India

www.mrenterprises.co.in



About M R Enterprises

M R Enterprises is a leading integrated steel manufacturer based in Bhilai, Chhattisgarh — the steel heartland of India. Founded by **Mr. Anil Agrawal** with an unwavering commitment to quality and reliability, the company today operates under the stewardship of his sons, **Mr. Nirman Agrawal** and **Mr. Tushar Agrawal**, continuing a proud legacy of manufacturing excellence.

Operating under its flagship brand **M R Gold**, the company manufactures premium-grade **MS Structural Steel** and **MS Strips** with a combined installed capacity of **2,49,000 Metric Tonnes Per Annum** — serving customers across India through a strong network of authorised dealers and distributors.

Our state-of-the-art manufacturing facility in Bhilai integrates the complete production chain — from Induction Furnace and Continuous Casting Machine (CCM) to Reheating Furnace to dedicated Rolling Mills for Structures and Strips — ensuring full process control and consistent product quality at every stage.

At M R Enterprises, quality is non-negotiable. Every batch undergoes rigorous testing by our skilled QA teams. Our products conform to applicable **Bureau of Indian Standards (BIS)** specifications, ensuring dimensional accuracy, mechanical reliability, and structural integrity.

We are equally committed to sustainable manufacturing — investing in energy-efficient technologies and process innovations that reduce carbon emissions and minimise environmental impact.

M R Gold. Mazboot Steel. Mazboot Rishtey.

Our Manufacturing Process

M R Enterprises operates a Hot charging as well as a Reheating process for production of MS Strips and MS Structure, giving us complete control over quality, consistency, and cost efficiency at every stage of production



HOT CHARGING PROCESS

STEP 1

INDUCTION FURNACE (SMS)

High-grade steel scrap and sponge iron are melted in our Induction Furnace under controlled temperature and chemistry parameters. Precise heat composition is maintained to meet desired grade specifications before tapping.

STEP 2

CONTINUOUS CASTING MACHINE (CCM)

The molten steel is cast into billets through our Continuous Casting Machine, ensuring uniform cross-section, controlled solidification, and consistent mechanical properties. Each heat is assigned a unique heat number for full traceability.

STEP 3

ROLLING MILLS

Cast billets are transferred hot to either the Strip Rolling Mill (for MS Strips in various widths/thicknesses) or the Structural Rolling Mill (for Channels, Beams,), eliminating reheating losses and improving energy

STEP 4

QUALITY ASSURANCE & DISPATCH

Every finished product undergoes dimensional inspection and mechanical testing before being tagged, bundled, and dispatched. Products are supplied with Mill Test Certificates as per BIS standards.

BILLET REHEATING PROCESS

STEP 1

REHEATING FURNACE

High quality MS Billets are purchased from the market and reheated to a desired temperature in our Reheating Furnace. Each and every batch of incoming billets is tested for mechanical and physical quality and then only used for further steel making.

STEP 2

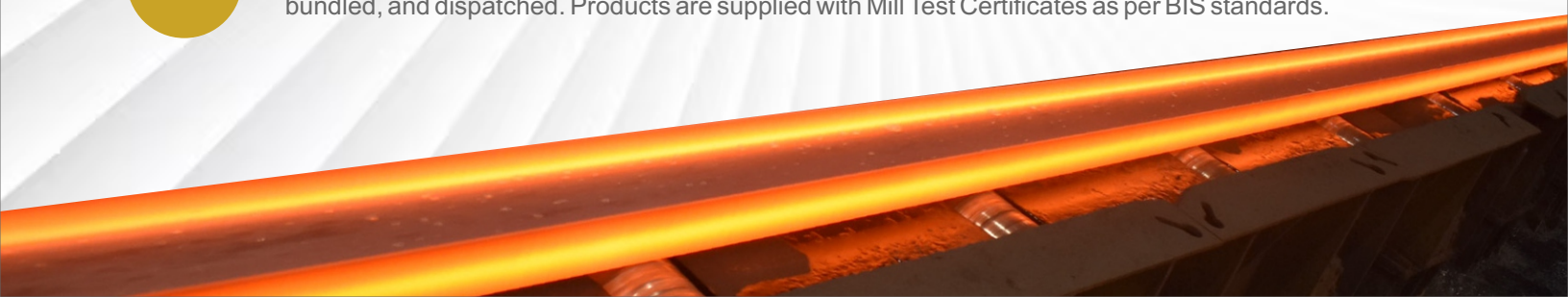
ROLLING MILLS

Hot billets are processed through either the strip rolling mill or Structural rolling mill manufacturing Strips, channels, beams etc.

STEP 3

QUALITY ASSURANCE & DISPATCH

Every finished product undergoes dimensional inspection and mechanical testing before being tagged, bundled, and dispatched. Products are supplied with Mill Test Certificates as per BIS standards.

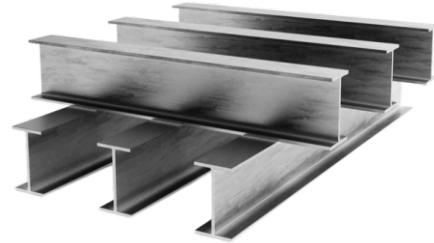


Our Products

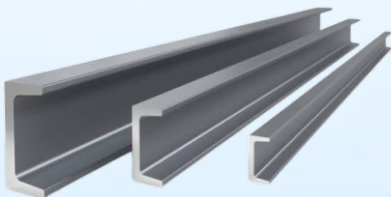
MS BEAM



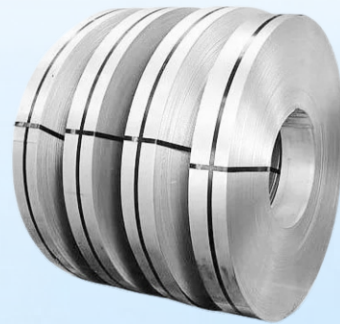
H BEAM



MS CHANNEL



MS STRIPS



Ms Strips

MS Strips are flat-rolled mild steel products manufactured through precision hot rolling and slitting processes, available in a wide range of widths and thicknesses. Conforming to **IS 10748** standards, they are engineered for consistent surface quality, dimensional accuracy, and superior formability.



Key Characteristics

- **High Formability:** Low carbon content ensures excellent ductility — strips can be bent, formed, rolled, and shaped without cracking.
- **Superior Weldability:** Easily welded, cut, drilled, and machined — enabling smooth downstream fabrication and efficient manufacturing cycles.
- **Consistent Surface Quality:** Uniform, smooth surface finish facilitates hassle-free coating, painting, and further processing.
- **Dimensional Accuracy:** Tight tolerance control across width and thickness ensures reliable performance in precision applications.

Applications

1. **Pipes & Tubes:** Primary raw material for ERW and welded pipe manufacturing used in construction, plumbing, and industrial installations.
2. **Automobile Components:** Used in fabrication of body parts, chassis supports, and structural components requiring high formability and durability.
3. **Cable Management Systems:** Forms cable trays, conduits, and electrical support structures for industrial and commercial infrastructure.
4. **Structural Fabrication:** Used in frames, brackets, supports, and general structural assemblies across engineering and construction projects.
5. **General Engineering:** Widely used in machinery parts, equipment housings, and industrial product manufacturing.

Strips Dimensions

S.N.	Width (mm)	Thickness (mm)
1	80	1.20 – 3.20
2	100	1.20 – 3.20
3	128	1.20 – 3.20
4	148	1.20 – 3.20
5	184	1.20 – 3.20
6	200	1.20 – 3.20
7	234	1.60 – 3.20
8	274	1.60 – 3.20

Custom widths available on order as per requirement.

Structural Steel

M R Enterprises manufactures structural steel under the **M R Gold** brand in three primary sections — **Channels, and Beams** — conforming to **IS 2062 Grade E250** and **IS 808** dimensional standards.

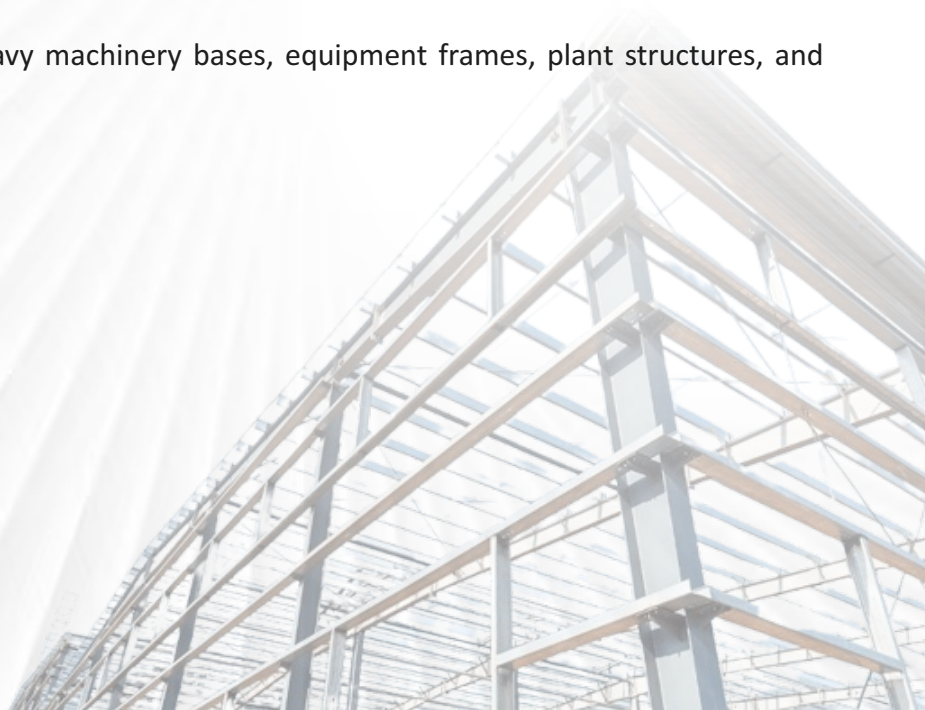


Characteristics

- **High Load-Bearing Strength:** Engineered to withstand high loads.
- **Long Service Life:** Maintains structural integrity and dimensional stability under sustained operational and environmental conditions.
- **Excellent Fabricability:** Can be cut, welded, drilled, and assembled with ease — enabling efficient construction and fabrication workflows.
- **Dimensional Consistency:** Manufactured under strict IS 808 tolerances, ensuring reliability and interchangeability in structural applications.
- **High Strength-to-Weight Ratio:** Delivers superior load performance relative to its weight — reducing foundation loads while maximising structural efficiency.
- **Sustainability:** 100% recyclable and retains mechanical properties through reuse — one of the most environmentally responsible construction materials available.

Applications

1. **Building Construction:** Residential, commercial, and industrial building frameworks — columns, roof trusses, mezzanine floors, and load-bearing supports.
2. **Industrial Sheds & Warehouses:** Pre-engineered buildings, factory sheds, and large-span warehouse structures.
3. **Bridges & Civil Infrastructure:** Bridge girders, flyovers, retaining walls, and large-scale civil infrastructure.
4. **Transmission Towers & Power Structures:** Transmission line towers, substation structures, and solar mounting systems.
5. **Heavy Engineering & Machinery:** Heavy machinery bases, equipment frames, plant structures, and material handling systems.



Ms Channel

M R Gold MS Channels are C-shaped mild steel structural sections conforming to **IS 2062 Grade E250** and **IS 808** standards, available from ISMC 125×65 to ISMC 250×82.



Key Characteristics

- High strength-to-weight ratio — efficient structural performance with reduced material cost
- Excellent ductility for welding, cutting, and on-site fabrication
- Uniform flange and web dimensions ensure consistent structural behaviour
- Corrosion resistance enhanced through galvanising or painting for outdoor applications

Applications

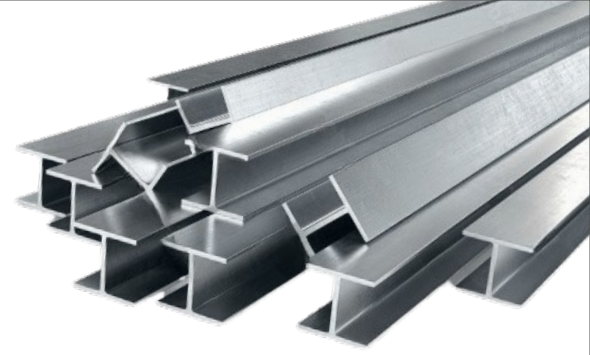
- **Construction Frameworks:** Structural beams, columns, roof purlins, wall framing, and elevator shaft supports.
- **Infrastructure Projects:** Bridge decks, flyover frameworks, platform structures, transmission towers, and civil engineering scaffolding.
- **Industrial & Manufacturing:** Machinery frames, conveyor supports, storage racks, material handling structures, and warehouse systems.
- **Vehicle & Transportation:** Chassis fabrication, trailer frames, radiator supports, and bus body structures.
- **Specialised Applications:** Solar panel mounting frames, wind energy structures, pre-engineered building systems, and railway infrastructure.

Channel Dimensions | IS 2062 / IS 808

S.N.	Section (mm)	Wt. (kg/m)	Depth (mm)	Flange Width (mm)	Flange Thickness (mm)	Web Thickness (mm)	R1 (mm)	R2 (mm)
1	ISMC 125×65	13.1	125	65	8.2	5.3	9.5	2.4
2	ISMC 150×75	16.8	150	75	9.0	5.7	10.5	2.4
3	ISMC 200×75	22.3	200	75	11.4	6.2	11.0	3.2
4	ISMC 250×82	34.2	250	82	14.1	9.0	12.0	4.8
5	ISMC 75×40	7.14	75	40	7.5	4.8	8.5	2.4
6	ISMC 100×50	9.6	100	50	7.7	5.0	9.0	2.4

Ms Beam

MS Beams are primary structural steel members in I-section (ISMB) and H-section (HB) profiles, conforming to **IS 2062 Grade E250** and **IS 808** standards. Available from ISMB 125×70 to ISMB 300×140 and H-Beams HB-116×100 and HB-152×152.



Key Characteristics

- I and H profiles optimised for bending resistance and axial load distribution
- Superior strength, ductility, and weldability for demanding structural applications
- Uniform cross-section ensures predictable and reliable structural behaviour
- Suitable for RCC composite structures, standalone steel frames, and heavy industrial applications

Applications

- **Residential & Commercial Structures:** Long-span beams for open floor plans, mezzanine floors, steel-frame buildings, and high-rise structural frameworks.
- **Industrial Facilities:** Crane girders, warehouse roof structures, factory building frames, equipment supports, and assembly line infrastructure.
- **Infrastructure & Civil Works:** Bridge girders, flyover decks, highway structures, rail infrastructure, and tunnel support systems.
- **Energy Sector:** Wind turbine base structures, transmission tower cross-arms, power plant frameworks, and pipeline support systems.
- **Heavy Engineering:** Elevator frames, heavy machinery bases, trolley ways, and structural supports for large-scale industrial equipment.

ISMB Dimensions | IS 2062 / IS 808

S.N.	Section (mm)	Wt. (kg/mtr)	Sectional Area	Depth (mm)	Flange Width (mm)	Web Thickness (mm)	Flange Thickness (mm)
1	ISMB 125×70	13.3	17.0	125	70	5.0	8.0
2	ISMB 150×75	15.0	19.1	150	75	5.0	8.0
3	ISMB 175×85	19.6	25.0	175	85	5.8	9.0
4	ISMB 200×100	24.2	30.8	200	100	5.7	10.0
5	ISMB 250×125	37.3	47.5	250	125	6.9	12.5
6	ISMB 300×140	46.0	58.6	300	140	7.7	13.1

H-Beam Dimensions | IS 2062 / IS 808

S.N.	Section	Wt. (kg/mtr)	Web Thickness (mm)	Flange Width (mm)	Flange Thickness (mm)	Root Radius (mm)	Toe Radius (mm)
1	HB-116×100	23.0	8.5	100	15	15	3
2	HB-152×152	37.1	7.9	152	11.7	11.7	3

The M R Gold Advantage

Six reasons why people choose M R Gold

Steel is a commodity. Trust is not. At M R Gold, we earn both — by controlling every stage from molten metal to finished dispatch.



1. Fully Integrated Manufacturing

From scrap to finished steel — Induction Furnace, Continuous Casting Machine, and dedicated Rolling Mills all operate under one roof at our Bhilai facility. Tighter quality control, faster turnaround, and consistent chemistry heat after heat.

2. Hot Charging — Energy Efficient, Cost Competitive

Our cast billets are transferred hot directly into the rolling mills — eliminating reheating losses and reducing energy consumption significantly versus conventional re-rollers. The efficiency savings translate into sharper, more stable pricing for our customers.

3. Two Dedicated Rolling Mills

Unlike multi-product mills that compromise on setup, we operate separate dedicated mills — one for Structural Steel (Channels, Beams) and one for Strips. Dedicated tooling means better dimensional accuracy, consistent surface finish, and zero cross-contamination between product lines.

4. BIS-Compliant Quality — Every Batch, Every Time

Every heat conforms to applicable Bureau of Indian Standards — IS 2062 Grade E250, IS 808, IS 1079, IS 10748. Every product undergoes dimensional and mechanical testing by our in-house QA team and ships with a Mill Test Certificate for full assurance.

5. Full Heat Traceability

Every billet, every rolled section, every strip carries a unique heat number. If you ever need to trace a batch back to its chemistry, tapping temperature, or rolling parameters — we can, instantly. Complete transparency, built into our process.

6. A Legacy Built on Relationships

Founded by Mr. Anil Agrawal and now led by the next generation, Mr. Anil Agrawal has been part of Bhilai's steel heartland for decades. Our dealer, fabricator, and project relationships rest on one principle — we deliver what we promise.

2,49,000 MT

Installed Capacity per
Annum

2

Dedicated Rolling Mills

4+

BIS Standards Conformed

100%

Heats Traceable

M R Gold. Mazboot Steel. Mazboot Rishtey.



MS STRIPS



MS STRIPS



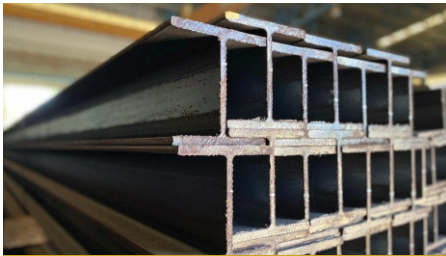
MS BEAM



MS STRIPS



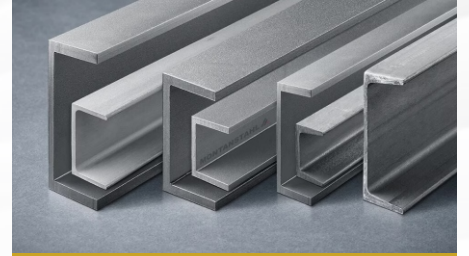
MS BEAM



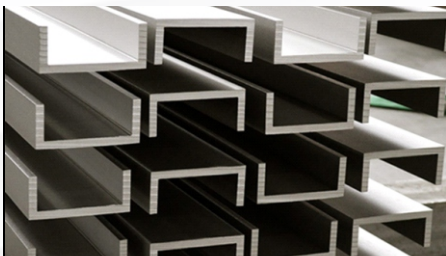
H BEAM



H BEAM



MS CHANNEL



MS CHANNEL



STRIPS RECOILING



ROLLING STANDS



BILLET YARD



HOT COIL



M R ENTERPRISES



M R ENTERPRISES



COOLING BED



ELECTRICAL CONTRAL ROOM



Structure stock yard



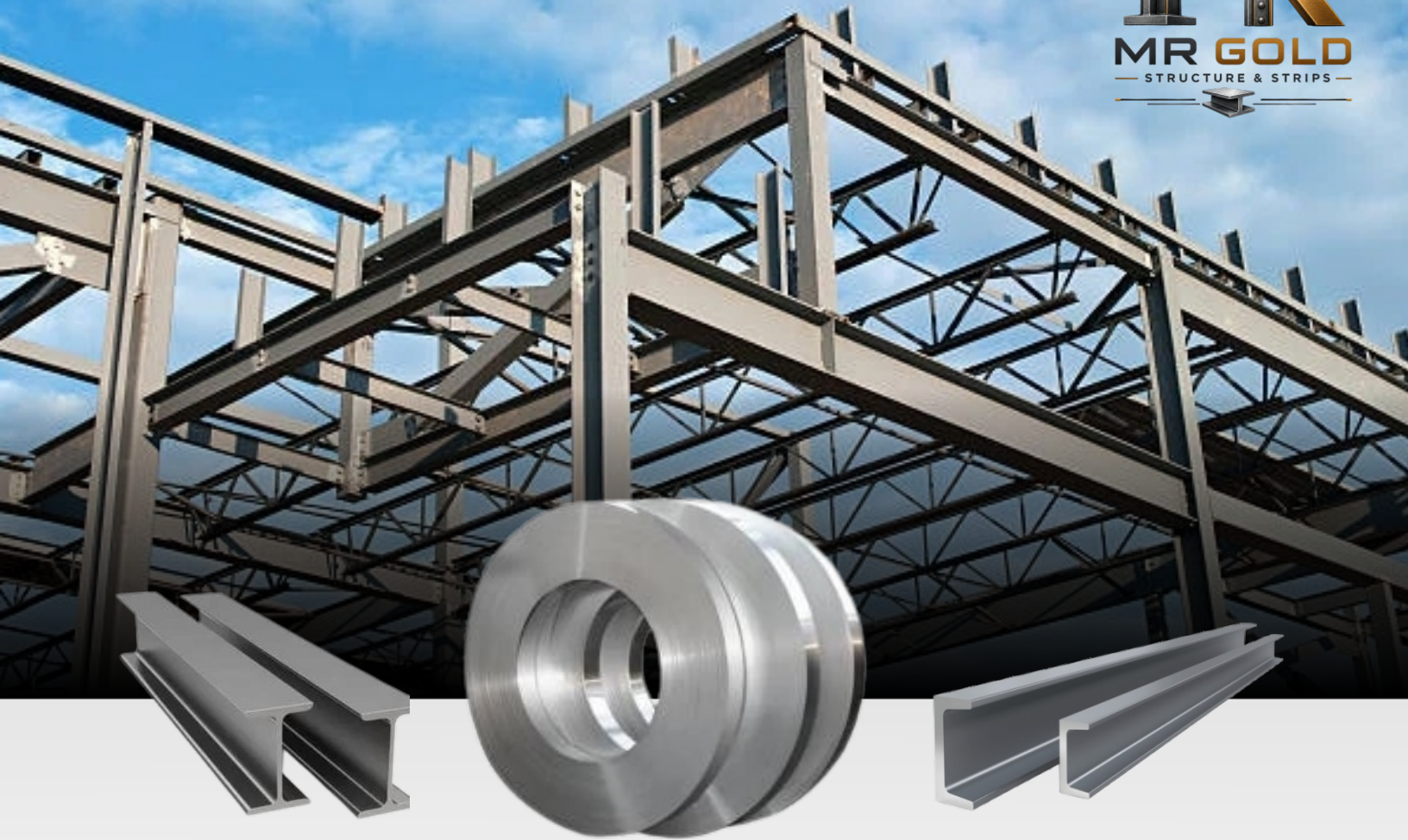
Strips stock yard



Strip rolling mill



Structure rolling mill



M R ENTERPRISES

Manufacturers of M R Gold Structural Steel & MS Strips

REGISTERED OFFICE & PLANT

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