



NYKA STEEL INDUSTRIES LLP

PIPES/HOLLOW SECTION & SPECIAL FABRICATION

Pipes: -

1. Square Pipe

M.S. square pipe refers to square pipes made from mild steel (M.S.), which is a common material in the construction industry. M.S. square pipes have a square cross-section and are widely used for various structural and engineering applications. They are known for their strength, durability, and versatility, making them suitable for a range of uses such as building frames, supports, fabrication works, and infrastructure projects. M.S. square pipes offer excellent load-bearing capabilities and are often preferred for their cost-effectiveness and ease of fabrication. With their straight edges and uniform shape, square pipes are ideal for constructing frameworks, supports, and other structures where stability and durability are crucial. Whether it's in construction, manufacturing, or other, square pipes are a reliable choice for many applications.

2. Circular pipe

M.S. circular pipe refers to circular pipes made from mild steel (M.S.), a popular material in the construction and manufacturing industries. M.S. circular pipes have a circular cross-section and are widely used for fluid and gas transportation, as well as in structural applications. They are known for their strength, durability, and resistance to corrosion, making them suitable for various environments and conditions. M.S. circular pipes are commonly utilized in plumbing systems, irrigation networks, drainage systems, and industrial processes where the efficient and reliable transport of fluids or gases is required. Their circular shape provides structural stability and allows for smooth flow, making them a preferred choice for many applications.

3. Rectangular pipe

M.S. rectangular refers to rectangular pipes made from mild steel (M.S.), which is a commonly used material in the construction industry. M.S. rectangular pipes have a rectangular cross-section and are typically used in various structural and engineering applications. They are known for their strength, durability, and versatility, making them suitable for a wide range of uses, including building frames, supports, infrastructure projects, and fabrication works. M.S. rectangular pipes offer excellent load-bearing capabilities and are often preferred for their cost-effectiveness and ease of fabrication. Their versatility and structural integrity make them a preferred choice in many industries where specific flow requirements or space limitations need to be addressed.

Hollow Section: -

1. Circular Hollow Sections (CHS)

CHS are a popular type of structural steel section used in a wide range of construction and engineering applications. They are characterized by their circular shape, with a hollow interior and uniform wall thickness. Here are some key features and applications of circular hollow sections:



Features:

1. **Circular Shape:** CHS have a circular cross-section, which provides excellent structural stability and resistance to torsion, making them suitable for various load-bearing applications.
2. **Hollow Interior:** The hollow interior of CHS reduces weight while maintaining strength, making them more cost-effective and efficient compared to solid sections.
3. **Uniform Wall Thickness:** CHS typically have a consistent wall thickness throughout their circumference, ensuring uniform strength distribution.

Applications:

1. **Structural Applications:** CHS are widely used in structural steel frameworks, such as columns, beams, and trusses, in buildings, bridges, and infrastructure projects. Their circular shape offers better aesthetics and ease of integration into architectural designs.
2. **Construction:** CHS are commonly employed in construction projects for scaffolding, temporary structures, and formwork systems due to their strength, stability, and ease of assembly.
3. **Machinery and Equipment:** Circular hollow sections are utilized in the fabrication of machinery, equipment frames, and supports. Their robustness and torsional resistance make them suitable for applications where stability and structural integrity are critical.

4. Automotive and Transportation: CHS are used in the manufacturing of automotive chassis, roll cages, and other components due to their lightweight nature, high strength-to-weight ratio, and ability to withstand dynamic loads.

5. Furniture and Decorative Applications: Circular hollow sections are also employed in the production of furniture, railings, handrails, and decorative structures. Their rounded shape adds aesthetic appeal and a modern look to these applications.

Circular hollow sections are available in various sizes, dimensions, and grades of steel to meet specific project requirements. They are typically manufactured through processes like hot rolling or cold forming and comply with industry standards and specifications to ensure quality and performance.

Circular Hollow Sections (CHS) are available in a wide range of sizes to cater to various construction and engineering applications. The sizes of CHS are typically specified by their outer diameter (OD) and wall thickness.

Additionally, these sizes are provided as examples and may not encompass the complete range of CHS sizes available in the market. The specific sizes and dimensions required for a project should be determined based on structural engineering calculations, load requirements, and applicable design codes and standards.

21.3 OD X 3.2MM (1.43 KG/M)	26.9 OD X 3.2MM (1.87 KG/M)	33.7 OD X 2.6MM (1.99 KG/M)
33.7 OD X 3.2MM (2.41 KG/M)	33.7 OD X 4MM (2.93 KG/M)	42.4 OD X 2.6MM (2.55 KG/M)
42.4 OD X 3.2MM (3.09 KG/M)	42.4 OD X 4MM (3.79 KG/M)	48.3 OD X 2.5MM (2.82 KG/M)
48.3 OD X 3.2MM (3.56 KG/M)	48.3 OD X 4MM (4.37 KG/M)	48.3 OD X 5MM (5.34 KG/M)
60.3 OD X 3.2MM (4.51 KG/M)	60.3 OD X 4MM (5.55 KG/M)	60.3 OD X 5MM (6.82 KG/M)
76.2 OD X 3.2MM (5.75 KG/M)	76.2 OD X 4MM (7.11 KG/M)	76.2 OD X 5MM (8.77 KG/M)
88.9 OD X 3.2MM (6.76 KG/M)	88.9 OD X 4MM (8.38 KG/M)	88.9 OD X 5MM (10.30 KG/M)
114.3 OD X 3MM (8.23 KG/M)	114.3 OD X 3.6MM (9.83 KG/M)	114.3 OD X 5MM (13.50 KG/M)
114.3 OD X 6.3MM (16.80 KG/M)	127 OD X 3MM (9.17 KG/M)	127 OD X 5MM (15.04 KG/M)
139.7 OD X 3MM (10.12 KG/M)	139.7 OD X 3.6MM (12.10 KG/M)	139.7 OD X 5MM (16.60 KG/M)
139.7 OD X 6.3MM (20.70 KG/M)	139.7 OD X 8MM (26.00 KG/M)	139.7 OD X 10MM (32.00 KG/M)
168.3 OD X 5MM (20.10 KG/M)	168.3 OD X 6.3MM (25.20 KG/M)	168.3 OD X 8MM (31.60 KG/M)

168.3 OD X 10MM (39.00 KG/M)	193.7 OD X 5MM (23.30 KG/M)	193.7 OD X 6.3MM (29.10 KG/M)
193.7 OD X 8MM (36.60 KG/M)	193.7 OD X 10MM (45.30 KG/M)	219.1 OD X 5MM (26.40 KG/M)
219.1 OD X 6.3MM (33.10 KG/M)	219.1 OD X 8MM (41.60 KG/M)	219.1 OD X 10MM (51.60 KG/M)
219.1 OD X 12.5MM (63.70 KG/M)	244.5 OD X 6.3MM (37.00 KG/M)	244.5 OD X 8MM (46.70 KG/M)
244.5 OD X 10MM (57.80 KG/M)	244.5 OD X 12.5MM (71.50 KG/M)	244.5 OD X 16MM (90.20 KG/M)
273 OD X 6.3MM (41.40 KG/M)	273 OD X 8MM (52.30 KG/M)	273 OD X 10MM (64.90 KG/M)
273 OD X 12.5MM (80.30 KG/M)	273 OD X 16MM (101.00 KG/M)	323.9 OD X 6.3MM (49.30 KG/M)
323.9 OD X 8MM (62.30 KG/M)	323.9 OD X 10MM (77.40 KG/M)	323.9 OD X 12.5MM (96.00 KG/M)
323.9 OD X 16MM (121.00 KG/M)	355.6 OD X 8MM (68.60 KG/M)	355.6 OD X 10MM (85.20 KG/M)
355.6 OD X 12.5MM (106.00 KG/M)	355.6 OD X 16MM (134.00 KG/M)	406.4 OD X 10MM (97.80 KG/M)
406.4 OD X 12.5MM (121.00 KG/M)	406.4 OD X 16MM (154.00 KG/M)	457 OD X 10MM (110.00 KG/M)
457 OD X 12.5MM (137.00 KG/M)	457 OD X 16MM (154.00 KG/M)	508 OD X 10MM (123.00 KG/M)
508 OD X 12.5MM (153.00 KG/M)	508 OD X 16MM (194.00 KG/M)	

When selecting CHS sizes, it is essential to consult the relevant specifications and standards applicable to your region and project to ensure compliance and optimal performance. These are just some common size ranges, and there may be other sizes available as well. It's always recommended to consult the specific standard or manufacturer for accurate and detailed information on the available sizes of circular hollow sections.

2. Square Hollow Sections (SHS)

(SHS) are a type of structural steel section characterized by their square shape and hollow interior. They are widely used in construction, engineering, and architectural applications. Here are some key features and applications of square hollow sections:



Features:

1. **Square Shape:** SHS have a square cross-section, offering symmetrical properties and providing enhanced aesthetic appeal in architectural designs.
2. **Hollow Interior:** The hollow interior of SHS reduces weight while maintaining strength, making them a cost-effective choice for various structural applications.
3. **Uniform Wall Thickness:** SHS typically have a consistent wall thickness throughout their sides, ensuring uniform strength distribution.

Applications:

1. **Building and Construction:** SHS are commonly used in the construction industry for structural applications such as columns, beams, and frames. They provide strength and stability to buildings, bridges, and other infrastructure projects.
2. **Industrial Applications:** Square hollow sections are used in industrial settings for the construction of machinery frames, supports, and equipment. Their robustness and versatility make them suitable for various load-bearing applications.
3. **Architectural and Design:** SHS are popular in architectural and design applications due to their aesthetic appeal and versatility. They are utilized in building facades, balustrades, decorative structures, and other design elements.
4. **Furniture and Shelving:** Square hollow sections are often employed in the manufacturing of furniture and shelving systems. Their square shape allows for easy integration into designs and provides structural stability.
5. **Material Handling and Storage:** SHS are used in the fabrication of material handling equipment, storage racks, and pallets due to their strength and durability. They provide a sturdy framework for storing and transporting goods.

Square hollow sections are available in various sizes, dimensions, and grades of steel to meet specific project requirements. They are typically manufactured through processes like hot rolling or cold forming and comply with industry standards and specifications to ensure quality and performance. The following Square Hollow Sections (SHS) come in various sizes, and the specific dimensions can vary depending on the standard or specification being

followed. However, I can provide you with some common sizes for rectangular hollow sections. Please note that the sizes mentioned below are approximate and can vary:

20 X 20 X 2MM (1.12 KG/M)	20 X 20 X 2.5MM (1.35 KG/M)	25 X 25 X 2MM (1.43 KG/M)
25 X 25 X 2.5MM (1.74 KG/M)	25 X 25 X 3MM (2.04 KG/M)	30 X 30 X 2MM (1.68 KG/M)
30 X 30 X 2.5MM (2.14 KG/M)	30 X 30 X 3MM (2.51 KG/M)	40 X 40 X 2MM (2.31 KG/M)
40 X 40 X 2.5MM (2.92 KG/M)	40 X 40 X 3MM (3.45 KG/M)	40 X 40 X 4MM (4.46 KG/M)
40 X 40 X 5MM (5.40 KG/M)	50 X 50 X 2.5MM (3.71 KG/M)	50 X 50 X 3MM (4.39 KG/M)
50 X 50 X 4MM (5.72 KG/M)	50 X 50 X 5MM (6.97 KG/M)	60 X 60 X 3MM (5.34 KG/M)
60 X 60 X 4MM (6.97 KG/M)	60 X 60 X 5MM (8.54 KG/M)	70 X 70 X 3MM (6.28 KG/M)
70 X 70 X 3.6MM (7.46 KG/M)	70 X 70 X 5MM (10.11 KG/M)	70 X 70 X 6.3MM (12.50 KG/M)
70 X 70 X 8MM (15.30 KG/M)	80 X 80 X 3MM (7.22 KG/M)	80 X 80 X 3.6MM (8.59 KG/M)
80 X 80 X 5MM (11.70 KG/M)	80 X 80 X 6.3MM (14.40 KG/M)	80 X 80 X 8MM (17.80 KG/M)
90 X 90 X 3.6MM (9.72 KG/M)	90 X 90 X 5MM (13.30 KG/M)	90 X 90 X 6.3MM (16.40 KG/M)
90 X 90 X 8MM (20.40 KG/M)	100 X 100 X 3MM (8.69 KG/M)	100 X 100 X 4MM (12.00 KG/M)
100 X 100 X 5MM (14.80 KG/M)	100 X 100 X 6.3MM (18.40 KG/M)	100 X 100 X 8MM (22.90 KG/M)
100 X 100 X 10MM (27.90 KG/M)	120 X 120 X 5MM (18.00 KG/M)	120 X 120 X 6.3MM (22.30 KG/M)
120 X 120 X 8MM (27.90 KG/M)	120 X 120 X 10MM (34.20 KG/M)	120 X 120 X 12.5MM (41.60 KG/M)
140 X 140 X 5MM (21.10 KG/M)	140 X 140 X 6.3MM (26.30 KG/M)	140 X 140 X 8MM (32.90 KG/M)

140 X 140 X 10MM (40.40 KG/M)	140 X 140 X 12.5MM (49.50 KG/M)	150 X 150 X 5MM (22.70 KG/M)
150 X 150 X 6.3MM (28.30 KG/M)	150 X 150 X 8MM (35.40 KG/M)	150 X 150 X 10MM (43.60 KG/M)
150 X 150 X 12.5MM (53.40 KG/M)	150 X 150 X 16MM (66.40 KG/M)	180 X 180 X 5MM (27.40 KG/M)
180 X 180 X 6.3MM (34.20 KG/M)	180 X 180 X 8MM (43.00 KG/M)	180 X 180 X 10MM (53.00 KG/M)
180 X 180 X 12.5MM (65.20 KG/M)	180 X 180 X 16MM (81.40 KG/M)	200 X 200 X 5MM (30.50 KG/M)
200 X 200 X 6.3MM (38.20 KG/M)	200 X 200 X 8MM (48.00 KG/M)	200 X 200 X 10MM (59.30 KG/M)
200 X 200 X 12.5MM (73.00 KG/M)	200 X 200 X 16MM (91.50 KG/M)	250 X 250 X 6.3MM (48.10 KG/M)
250 X 250 X 8MM (60.50 KG/M)	250 X 250 X 10MM (75.00 KG/M)	250 X 250 X 12.5MM (92.60 KG/M)
250 X 250 X 16MM (117.00 KG/M)	300 X 300 X 6.3MM (57.90 KG/M)	300 X 300 X 8MM (73.10 KG/M)
300 X 300 X 10MM (90.70 KG/M)	300 X 300 X 12.5MM (112.00 KG/M)	300 X 300 X 16MM (142.00 KG/M)
350 X 350 X 8MM (85.70 KG/M)	350 X 350 X 10MM (106.00 KG/M)	350 X 350 X 12.5MM (132.00 KG/M)
350 X 350 X 16MM (167.00 KG/M)	400 X 400 X 10MM (122.00 KG/M)	400 X 400 X 12.5MM (152.00 KG/M)
400 X 400 X 16MM (192.00 KG/M)		

These are just some common size ranges, and there may be other sizes available as well. It's always recommended to consult the specific standard or manufacturer for accurate and detailed information on the available sizes of square hollow sections.

3. Rectangular Hollow Sections (RHS)

(RHS) are a type of structural steel section characterized by their rectangular shape and hollow interior. They are widely used in construction, engineering, and architectural applications. Here are some key features and applications of rectangular hollow sections:



Features:

1. **Rectangular Shape:** RHS have a rectangular cross-section, providing versatility and ease of integration into various structural designs and architectural applications.
2. **Hollow Interior:** The hollow interior of RHS reduces weight while maintaining strength, making them a cost-effective choice for structural applications.
3. **Uniform Wall Thickness:** RHS typically have a consistent wall thickness throughout their sides, ensuring uniform strength distribution.

Applications:

1. **Building and Construction:** RHS are commonly used in building and construction projects for structural applications such as columns, beams, and frames. They provide strength and stability to buildings, bridges, and other infrastructure projects.
2. **Industrial Applications:** Rectangular hollow sections are used in various industrial applications for the construction of machinery frames, supports, and equipment. They offer robustness and versatility in load-bearing applications.
3. **Architectural and Design:** RHS are popular in architectural and design applications due to their clean lines and versatility. They are utilized in building facades, architectural frameworks, window frames, and other design elements.
4. **Material Handling and Storage:** Rectangular hollow sections are used in material handling equipment, storage racks, and pallets. Their rectangular shape provides a sturdy framework for storing and transporting goods efficiently.
5. **Furniture and Shelving:** RHS are commonly employed in the manufacturing of furniture and shelving systems. Their rectangular shape allows for easy integration into furniture designs, providing stability and structural support.

Rectangular hollow sections are available in various sizes, dimensions, and grades of steel to meet specific project requirements. They are typically manufactured through processes like hot rolling or cold forming and comply with industry standards and specifications to ensure quality and performance. The following Rectangular Hollow Sections (RHS) come in various sizes, and the specific dimensions can vary depending on the standard or specification being followed. However, I can provide you with some common sizes for rectangular hollow sections. Please note that the sizes mentioned below are approximate and can vary:

40 X 25 X 2MM (1.83 KG/M)	40 X 25 X 2.5MM (2.23 KG/M)	50 X 20 X 2MM (1.96 KG/M)
50 X 25 X 2.5MM (2.62 KG/M)	50 X 25 X 3MM (3.07 KG/M)	50 X 30 X 2.5MM (2.92 KG/M)
50 X 30 X 3MM (3.45 KG/M)	50 X 40 X 3MM (3.77 KG/M)	60 X 30 X 3MM (3.77 KG/M)
60 X 40 X 2.5MM (3.71 KG/M)	60 X 40 X 3.2MM (4.66 KG/M)	60 X 40 X 4MM (5.72 KG/M)
60 X 40 X 5MM (6.97 KG/M)	60 X 40 X 6.3MM (8.49 KG/M)	75 X 50 X 3MM (5.19 KG/M)
80 X 40 X 2.5MM (5.34 KG/M)	80 X 40 X 3MM (5.19 KG/M)	80 X 40 X 4MM (6.71 KG/M)
80 X 40 X 5MM (8.13 KG/M)	80 X 40 X 6.3MM (12.80 KG/M)	80 X 50 X 3MM (5.66 KG/M)
80 X 50 X 4MM (7.34 KG/M)	90 X 50 X 3MM (6.13 KG/M)	90 X 50 X 3.6MM (7.24 KG/M)
90 X 50 X 5MM (9.70 KG/M)	100 X 50 X 3MM (6.60 KG/M)	100 X 50 X 4MM (8.86 KG/M)
100 X 50 X 5MM (10.90 KG/M)	100 X 50 X 6.3MM (13.40 KG/M)	100 X 50 X 8MM (16.60 KG/M)
100 X 60 X 3MM (7.22 KG/M)	100 X 60 X 3.6MM (8.59 KG/M)	100 X 60 X 5MM (11.70 KG/M)
100 X 60 X 6.3MM (14.40 KG/M)	100 X 60 X 8MM (17.80 KG/M)	120 X 60 X 3MM (8.01 KG/M)
120 X 60 X 3.6MM (9.72 KG/M)	120 X 60 X 5MM (13.30 KG/M)	120 X 60 X 6.3MM (16.40 KG/M)
120 X 80 X 5MM (14.80 KG/M)	120 X 80 X 6.3MM (18.40 KG/M)	120 X 80 X 8MM (22.9 KG/M)
120 X 80 X 10MM (27.9 KG/M)	150 X 75 X 5MM (16.37 KG/M)	150 X 75 X 6MM (19.34 KG/M)
150 X 100 X 5MM (18.70 KG/M)	150 X 100 X 6.3MM (23.30 KG/M)	150 X 100 X 8MM (29.10 KG/M)
150 X 100 X 10MM (35.70 KG/M)	150 X 100 X 12.5MM (43.60 KG/M)	160 X 80 X 5MM (18.00 KG/M)
160 X 80 X 6.3MM (22.30 KG/M)	160 X 80 X 8MM (27.90 KG/M)	160 X 80 X 10MM (34.20 KG/M)
200 X 100 X 5MM (22.70 KG/M)	200 X 100 X 6.3MM (28.30 KG/M)	200 X 100 X 8MM (35.40 KG/M)
200 X 100 X 10MM (43.60 KG/M)	200 X 100 X 12.5MM (53.40 KG/M)	200 X 100 X 16MM (66.40 KG/M)
250 X 150 X 5MM (30.50 KG/M)	250 X 150 X 6.3MM (38.20 KG/M)	250 X 150 X 8MM (48.00 KG/M)
250 X 150 X 10MM (59.30 KG/M)	250 X 150 X 12.5MM (73.00 KG/M)	250 X 150 X 16MM (91.50 KG/M)
300 X 200 X 6.3MM(48.10 KG/M)	300 X 200 X 8MM (60.50 KG/M)	300 X 200 X 10MM (75.00 KG/M)
300 X 200 X 12.5MM (92.60 KG/M)	300 X 200 X 16MM (117.00 KG/M)	400 X 200 X 8MM (73.10 KG/M)

400 X 200 X 10MM (90.70 KG/M)	400 X 200 X 12.5MM (112.00 KG/M)	400 X 200 X 16MM (142.00 KG/M)
450 X 250 X 8MM (85.70 KG/M)	450 X 250 X 10MM (106.00 KG/M)	450 X 250 X 12.5MM (132.00 KG/M)
450 X 250 X 16MM (167.00 KG/M)	500 X 200 X 8MM (85.70 KG/M)	500 X 200 X 10MM (106.00 KG/M)
500 X 200 X 12.5MM (132.00 KG/M)	500 X 200 X 16MM (167.00 KG/M)	500 X 300 X 10MM (122.00 KG/M)
500 X 300 X 12.5MM (152.00 KG/M)	500 X 300 X 16MM (192.00 KG/M)	

These are just some common size ranges, and there may be other sizes available as well. It's always recommended to consult the specific standard or manufacturer for accurate and detailed information on the available sizes of rectangular hollow sections.

Special Fabrication: -

We have a team of industrial engineers and certified welders to undertake all types of light mild steel fabrication as per client's specification.

To name some of the products which we can fabricate are Industrial bins, Tipper bodies, Solar panel frame, Windmills, Wind turbines, Street poles, Industrial shed etc.

We can do on-site as well as off-site fabrication.