



KAMDHENU STRUCTURAL STEEL



STEEL TUBES & PIPES

KAMDHENU

A TRUE GLOBAL BRAND HAVING INDIAN ROOTS

Kamdhenu Limited is a dynamic business entity, growing with commendable rate in different business vertical, representing a creditable market size in a number of product categories including TMT Rebars, Structural Steel Products, MS Pipes & Tubes, Wirebond, Decorative Paints, Color Coated Roofing Sheets etc. Driven growth with greater consumer satisfaction on the basis of the core values of trust, transparency and integrity, Kamdhenu is the name of quality and innovation.

Striding on a continued growth trajectory since its inception over two decades ago, Kamdhenu is relentlessly serving an extensive segment of the markets and contribute towards stronger infrastructures, beautiful landscapes and public good.

A frontrunner Infrastructure company and most selling TMT Brand of India, Kamdhenu is engaged in the manufacturing, marketing, branding and distribution of a broad spectrum of construction products, with overall brand turnover of more than Rs. 16000 crores. The company is an ISO 9001 : 2015 certified entity, having more than 80 franchisee manufacturing units and 11500 dealers and distributors spread across the country.

Conferred with prestigious awards such as World's Greatest Brands 2015 amongst Asia & GCC | Asia's Most Promising Brands 2015-16 by World Consulting & Research Corporation | Indian Power Brand 2016 & 2019-20 | World's Greatest Brands 2017-18 amongst Asia & GCC | Icon of Trust Extraordinaire Brand 2020-22.



KAMDHENU Nxt



KAMDHENU PAS 10000



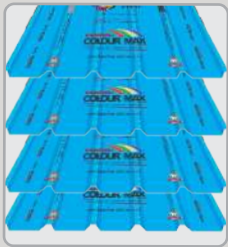
KAMDHENU WIREBOND



KAMDHENU NXT PIPES



KAMDHENU STRUCTURAL STEEL



COLOUR MAX COLOUR COATED SHEETS



KAMDHENU SHRESTH



KAMDHENU K+ SCREW



PRE ENGINEERED BUILDING



KAMDHENU PAINTS



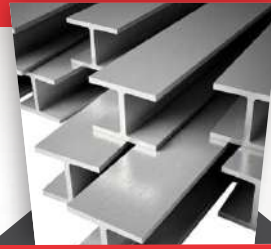
KAMDHENU STRUCTURAL PRODUCTS



ANGLES



CHANNELS



BEAMS



FLATS

CHEMICAL COMPOSITION

Kamdhenu structural products are produced in E250 (Fe 410W) A grade as per IS 2062 : 2011. Carbon & Manganese levels are restricted to lower than the specification, which results in excellent ductility, high bendability and superior weldability.

CHEMICAL PROPERTIES

| Chemistry | Unit | IS 2062, E250 (Fe 410W) A | Kamdhenu |
|------------|------|---------------------------|-----------|
| Carbon | % | 0.23 Max | 0.22 Max |
| Manganese | % | 1.50 Max | 1.00 Max |
| Sulphur | % | 0.045 Max | 0.045 Max |
| Phosphorus | % | 0.045 Max | 0.045 Max |
| Silicon | % | 0.40 Max | 0.35 Max |
| CE | % | 0.42 Max | 0.40 Max |

MECHANICAL PROPERTIES

Because of their unique method of manufacturer, Kamdhenu structural products possess a combination of strength and ductility that is far in excess of minimum limits specified in the standard.

MECHANICAL PROPERTIES

| Mechanical Properties | Unit | Dia/Thickness (mm) | IS 2062, E250 (Fe 410W) A | KAMDHENU |
|-----------------------|-------------------|--------------------|---------------------------|----------|
| Yield Stress | N/mm ² | <20 | 250 min | 270 min |
| | | 20-40 | 240 min | 260 min |
| | | >40 | 230 min | 250 min |
| Tensile Strength | N/mm ² | | 410 min | 440 min |
| Elongation | % | | 23 min | 24 min |

Advantage of Kamdhenu Structural Products

High Strength and High Ductility: This combination results in added safety of structure.

Superior Bendability, Weldability and Straightness: The superior bendability, Weldability & Straightness of Kamdhenu structural product compared to others, the Kamdhenu structural product is easy to fabricate with.

Economic in Application: Steel saving due to lower sectional weight and higher strength technique, Adopted by Kamdhenu Engineers.

DIMENSIONAL TOLERANCES

As Per Specification IS: 2062 - 2011

Kamdhenu structural product is supplied with section Weight & dimension lower than the nominal, Section Weight lower than the nominal up to 3% .

EQUAL LEG ANGLES

| Designation | Mass (kg/m) | Dimension (mm) | | | |
|--------------|-------------|----------------|------|-----|----|
| | | AXB | t | R1 | R2 |
| ∟ 20X20X3 | 0.9 | 20X20 | 3.0 | 4.0 | |
| ∟ 20X20X4 | 1.1 | 20X20 | 4.0 | 4.0 | |
| ∟ 25X25X3 | 1.1 | 25X25 | 3.0 | 4.5 | |
| ∟ 25X25X4 | 1.4 | 25X25 | 4.0 | 4.5 | |
| ∟ 25X25X5 | 1.8 | 25X25 | 5.0 | 4.5 | |
| ∟ 30X30X3 | 1.4 | 30X30 | 3.0 | 5.0 | |
| ∟ 30X30X4 | 1.8 | 30X30 | 4.0 | 5.0 | |
| ∟ 30X30X5 | 2.2 | 30X30 | 5.0 | 5.0 | |
| ∟ 35X35X4 | 2.1 | 35X35 | 4.0 | 5.0 | |
| ∟ 35X35X5 | 2.6 | 35X35 | 5.0 | 5.0 | |
| ∟ 35X35X6 | 3.0 | 35X35 | 6.0 | 5.0 | |
| ∟ 40X40X4 | 2.4 | 40X40 | 4.0 | 5.5 | |
| ∟ 40X40X5 | 3.0 | 40X40 | 5.0 | 5.5 | |
| ∟ 40X40X6 | 3.5 | 40X40 | 6.0 | 5.5 | |
| ∟ 45X45X4 | 2.7 | 45X45 | 4.0 | 5.5 | |
| ∟ 45X45X5 | 3.4 | 45X45 | 5.0 | 5.5 | |
| ∟ 45X45X6 | 4.0 | 45X45 | 6.0 | 5.5 | |
| ∟ 50X50X4 | 3.0 | 50X50 | 4.0 | 6.0 | |
| ∟ 50X50X5 | 3.8 | 50X50 | 5.0 | 6.0 | |
| ∟ 50X50X6 | 4.5 | 50X50 | 6.0 | 6.0 | |
| ∟ 55X55X5 | 4.1 | 55X55 | 5.0 | 6.5 | |
| ∟ 55X55X6 | 4.9 | 55X55 | 6.0 | 6.5 | |
| ∟ 55X55X8 | 6.4 | 55X55 | 8.0 | 6.5 | |
| ∟ 55X55X10 | 7.9 | 55X55 | 10.0 | 6.5 | |
| ∟ 60X60X5 | 4.5 | 60X60 | 5.0 | 6.5 | |
| ∟ 60X60X6 | 5.4 | 60X60 | 6.0 | 6.5 | |
| ∟ 60X60X8 | 7.0 | 60X60 | 8.0 | 6.5 | |
| ∟ 60X60X10 | 8.6 | 60X60 | 10.0 | 6.5 | |
| ∟ 65X65X5 | 4.9 | 65X65 | 5.0 | 6.5 | |
| ∟ 65X65X6 | 5.8 | 65X65 | 6.0 | 6.5 | |
| ∟ 65X65X8 | 7.7 | 65X65 | 8.0 | 6.5 | |
| ∟ 65X65X10 | 9.4 | 65X65 | 10.0 | 6.5 | |
| ∟ 70X70X5 | 5.3 | 70X70 | 5.0 | 7.0 | |
| ∟ 70X70X6 | 6.3 | 70X70 | 6.0 | 7.0 | |
| ∟ 70X70X8 | 8.3 | 70X70 | 8.0 | 7.0 | |
| ∟ 70X70X10 | 10.2 | 70X70 | 10.0 | 7.0 | |
| ∟ 75X75X5 | 5.7 | 75X75 | 5.0 | 7.0 | |
| ∟ 75X75X6 | 6.8 | 75X75 | 6.0 | 7.0 | |
| ∟ 75X75X8 | 8.9 | 75X75 | 8.0 | 7.0 | |
| ∟ 75X75X10 | 11.0 | 75X75 | 10.0 | 7.0 | |
| ∟ 90X90X6 | 8.2 | 90X90 | 6.0 | 8.5 | |
| ∟ 90X90X8 | 10.8 | 90X90 | 8.0 | 8.5 | |
| ∟ 90X90X10 | 13.4 | 90X90 | 10.0 | 8.5 | |
| ∟ 90X90X12 | 15.8 | 90X90 | 12.0 | 8.5 | |
| ∟ 100X100X6 | 9.2 | 100X100 | 6.0 | 8.5 | |
| ∟ 100X100X8 | 12.1 | 100X100 | 8.0 | 8.5 | |
| ∟ 100X100X10 | 14.9 | 100X100 | 10.0 | 8.5 | |
| ∟ 100X100X12 | 17.7 | 100X100 | 12.0 | 8.5 | |

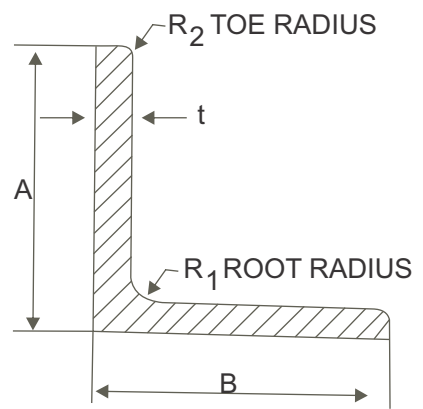
Should be Reasonably Square

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.



Angles... The promise of reliability

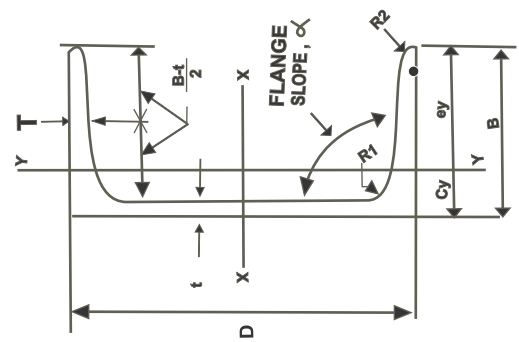
Kamdhenu Limited is Manufacturing all high Quality angles with the finest raw materials usage.



CHANNEL SECTION

CHANNEL... The assurance of trust

Channels Are The Most Widely Used Structural Steel In any Construction Activity.
Channels Form the Basis Every Structural Development.



As Per Specification IS: 2062 - 2011

| Designation | Mass (kg/m) | Dimension (mm) | | | | | | |
|-------------|----------------|----------------|----|-----|-----|--------|------|-----|
| | | D | B | t | T | α, deg | R1 | R2 |
| JC 100 | 5.8 | 100 | 45 | 3.0 | 5.1 | 91.5 | 6.0 | 2.0 |
| JC 125 | 7.9 | 125 | 50 | 3.0 | 6.6 | 91.5 | 6.0 | 2.4 |
| JC150 | 9.9 | 150 | 55 | 3.6 | 6.9 | 91.5 | 7.0 | 2.4 |
| LC 75 | 5.7 | 75 | 40 | 3.7 | 6.0 | 91.5 | 6.0 | 2.0 |
| LC100 | 7.9 | 100 | 50 | 4.0 | 6.4 | 91.5 | 6.0 | 2.0 |
| LC125 | 10.7 | 125 | 65 | 4.4 | 6.6 | 91.5 | 7.0 | 2.4 |
| LC150 | 14.4 | 150 | 75 | 4.8 | 7.8 | 91.5 | 8.0 | 2.4 |
| MC 75 | 7.14 | 75 | 40 | 4.8 | 7.5 | 96.0 | 8.5 | 2.4 |
| MC 100 | 9.56 | 100 | 50 | 5.0 | 7.7 | 96.0 | 9.0 | 2.4 |
| MC 125 | 13.1 | 125 | 65 | 5.3 | 8.2 | 96.0 | 9.5 | 2.4 |
| MC150 | 16.8 | 150 | 75 | 5.7 | 9.0 | 96.0 | 10.0 | 2.4 |

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.



As Per Specification IS: 3954 - 1991

| Designation | Mass (kg/m) | Dimension for Gate channel (mm) | | | | | | | Length (ft) |
|-------------|----------------|---------------------------------|----|-----|-----|----------------|-----|-----|------------------------|
| | | D | B | t | T | α , deg | R1 | R2 | |
| CHG16 | 0.76 | 16 | 10 | 3.2 | 3.2 | 95 | 3.0 | 1.5 | 12, 13, 14, 15, 16, 18 |
| CHG20 | 0.86 | 20 | 10 | 3.2 | 3.2 | 95 | 3.0 | 1.5 | |
| CHG40 | 4.82 | 40 | 32 | 5.0 | 7.5 | 95 | 6.0 | 3.0 | |

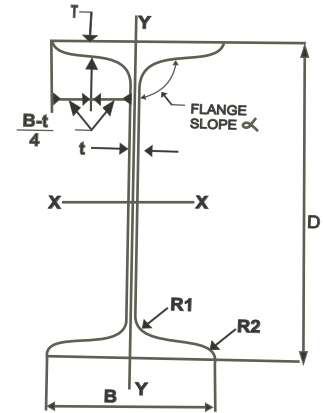
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BEAM SECTIONS

BEAMS...

The Advantage Dependability

Beams form an essential part of every high end establishment. It is the primary structure used in various set ups. Kamdhenu Beams are perfectly elongated and they undergo various strength determination tests.



As Per Specification IS: 2062 - 2011

| DESIGNATION | Mass (kg/m) | Dimensions (mm) | | | | | | |
|-------------|----------------|-----------------|----|-----|-----|------------------------|-----|-----|
| | | D | B | t | T | α , deg Max. | R1 | R2 |
| JB 150 | 7.1 | 150 | 50 | 3.0 | 4.6 | 91.5 | 5.0 | 1.5 |
| LB 75 | 6.1 | 75 | 50 | 3.7 | 5.0 | 91.5 | 6.5 | 2.0 |
| LB 100 | 8.0 | 100 | 50 | 4.0 | 6.4 | 91.5 | 7.0 | 3.0 |
| LB 125 | 11.9 | 125 | 75 | 4.4 | 6.5 | 91.5 | 8.0 | 3.0 |
| LB 150 | 14.2 | 150 | 80 | 4.8 | 6.8 | 91.5 | 9.5 | 3.0 |
| MB 100 | 8.9 | 100 | 50 | 4.7 | 7.0 | 98.0 | 9.0 | 4.5 |
| MB 125 | 13.3 | 125 | 70 | 5.0 | 8.0 | 98.0 | 9.0 | 4.5 |
| MB 150 | 15.0 | 150 | 75 | 5.0 | 8.0 | 98.0 | 9.0 | 4.5 |

Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.

DIMENSIONS, SECTIONAL AREAS AND MASS OF HOT-ROLLED SQUARE STEEL BARS

As Per Specification IS: 1732 - 1989

| Designation | Side Width | Sectional Area | Mass per Metre |
|-------------|------------|--------------------|----------------|
| (mm) | (mm) | (cm ²) | (kg) |
| ISSQ 8 | 8.0 | 0.64 | 0.502 |
| ISSQ 10 | 10.0 | 1.00 | 0.785 |
| ISSQ 12 | 12.0 | 1.44 | 1.13 |
| ISSQ 16 | 16.0 | 2.56 | 2.01 |

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.

FLAT SECTION

Kamdhenu also offers best quality of flat product ranges from 10 mm to 150 mm width & thickness from 3 mm to 25 mm.

FLAT

As Per Specification IS: 1730 - 1989

| WIDTH (mm) | MASS, kg/m FOR VARYING (mm) THICKNESS | | | | | | | | | |
|---------------|---------------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 20 | 25 |
| 10 | 0.236 | 0.314 | 0.393 | 0.471 | - | - | - | - | - | - |
| 16 | 0.377 | 0.502 | 0.628 | 0.754 | 1.000 | 1.100 | 1.510 | - | - | - |
| 20 | 0.471 | 0.628 | 0.785 | 0.942 | 1.260 | 1.570 | 1.880 | 2.300 | - | - |
| 25 | 0.589 | 0.785 | 0.981 | 1.180 | 1.570 | 1.960 | 2.360 | 2.940 | - | - |
| 30 | 0.707 | 0.942 | 1.180 | 1.410 | 1.880 | 2.360 | 2.830 | 3.530 | 4.710 | - |
| 35 | 0.824 | 1.100 | 1.370 | 1.650 | 2.200 | 2.750 | 3.300 | 4.120 | 5.500 | - |
| 40 | 0.942 | 1.260 | 1.570 | 1.880 | 2.510 | 3.140 | 3.770 | 4.710 | 6.280 | 7.850 |
| 45 | 1.060 | 1.410 | 1.770 | 2.120 | 2.830 | 3.530 | 4.240 | 5.300 | 7.070 | 8.830 |
| 50 | 1.180 | 1.570 | 1.960 | 2.360 | 3.140 | 3.930 | 4.710 | 5.890 | 7.850 | 9.810 |
| 60 | 1.410 | 1.880 | 2.360 | 2.830 | 3.770 | 4.710 | 5.650 | 7.070 | 9.420 | 11.800 |
| 65 | - | 2.040 | 2.550 | 3.060 | 4.080 | 5.100 | 6.120 | 7.650 | 10.200 | 12.800 |
| 70 | - | 2.200 | 2.750 | 3.300 | 4.400 | 5.500 | 6.590 | 8.240 | 11.000 | 13.700 |
| 75 | - | 2.360 | 2.940 | 3.530 | 4.710 | 5.890 | 7.070 | 8.830 | 11.800 | 14.700 |
| 80 | - | 2.510 | 3.140 | 3.770 | 5.020 | 6.280 | 7.540 | 9.420 | 12.600 | 15.700 |
| 90 | - | - | 3.530 | 4.240 | 5.650 | 7.070 | 8.480 | 10.600 | 14.100 | 17.700 |
| 100 | - | - | 3.930 | 4.710 | 6.280 | 7.850 | 9.420 | 11.800 | 15.700 | 19.600 |
| 120 | - | - | - | 5.650 | 7.540 | 9.420 | 11.300 | 14.100 | 18.800 | 23.600 |
| 130 | - | - | - | 6.120 | 8.160 | 10.200 | 12.200 | 15.300 | 20.400 | 25.600 |
| 140 | - | - | - | 6.590 | 8.790 | 11.000 | 13.200 | 16.500 | 22.000 | 27.500 |
| 150 | - | - | - | 7.070 | 9.420 | 11.800 | 14.100 | 17.700 | 23.600 | 29.400 |

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KAMDHENU NXT STEEL TUBES & PIPES

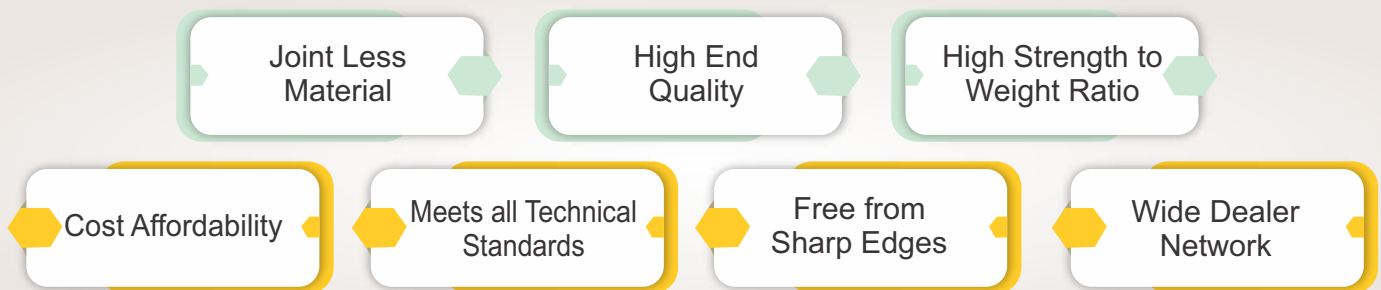
Kamdhenu Limited is manufactured conforming to IS:4923 and IS:1161 standards for Square, Rectangular and Circular Hollow Sections respectively with brand name **Kamdhenu Nxt**. Kamdhenu can be manufactured up to a maximum size of 91.5X91.5 mm for square sections, 122X61 mm for rectangular sections and 100 mm NB for circular sections. The thickness can vary from 2 mm to 5.4 mm.



Raw Material - Sulphur content : 0.05% max, phosphorus content : 0.05% max, carbon equivalent percentage well within specified weldability limits with matching physical properties.

STEEL TUBES & PIPES

| Section Type | Grade | Mechanical Properties | | | | Dimensional Tolerance | | | | | |
|----------------------|---------|-----------------------|------------|-----------------|-----------|---|--------------------|----------------------|---------------|--------------------|------------------|
| | | YST MPa | UTS MPa | % of Elongation | | Outside dimension | Thickness | Squareness | Corner radius | Weight | |
| | | | | < 25.4 mm | > 25.4 mm | | | | | Individual Lengths | On lot of 10 MT |
| RHS/SHS IS : 4923 | YST 210 | 210 | 330 | 12 | 20 | +/-1% with a minimum of +/-0.50 mm | +/-10% | 90 deg. +/-2 deg. | 3t max | 10% -8% | +/-7.5% |
| | YST 240 | 240 | 410 | 10 | 15 | | | | | | |
| | YST 310 | 310 | 450 | 8 | 10 | | | | | | |
| CHS IS : 1161 | YST 210 | 210 | 330 | 12 | 20 | OD upto and incl 48.3+0.4/-0.8mm. Over 48.3 mm +/-1.0% | + no limit -10% | NA | NA | L +10%, -8% | L +/-5% |
| | YST 240 | 240 | 410 | 12 | 17 | | | | | M & H +/-10% | M & H +/-7.5% |
| | YST 310 | 310 | 450 | 12 | 14 | | | | | | |



Trusted Name For Assured Quality

Offering superior quality backed with trusted name of Kamdhenu Limited, our Circular, Square and Rectangular Hollow Sections are preferred structural steel products across the country among bulk as well as retail consumers.

Many Advantages For Many Applications

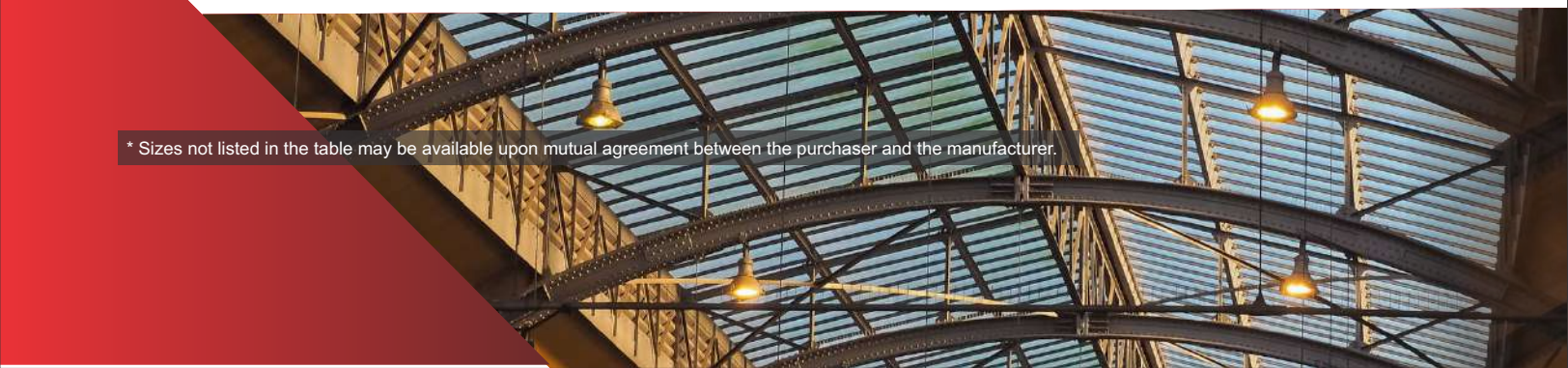
Kamdhenu Nxt Circular Hollow Section (CHS) & Square Hollow Section (SHS) leverage very efficient multiple-axis loading as they have uniform geometry along two or more cross-sectional axes, and thus uniform strength characteristics. This makes them good choices for columns. They also have excellent resistance to torsion.

Kamdhenu Nxt Hollow Structural Section (HSS) can also be used as beams, having superior resistance to lateral torsional buckling.

Kamdhenu Nxt Hollow Structural Sections, especially Rectangular Hollow Section (RHS), are commonly used in welded steel frames ideal to lend support to loading in multiple directions. The flat square surfaces of RHS ease construction, and they are also preferred for architectural aesthetics in exposed structures.

Kamdhenu Nxt Hollow Structural Sections are also ideal to be filling with concrete to make "Lally column" with improved fire rating, as well as robustness.

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.



Wide-range of Product Variants

Designated by their nominal bore and classified as 'Light', 'Medium' and 'Heavy' depending on the wall thickness Kamdhenu Nxt under its range of Circular Hollow Sections as well as Square & Rectangular Hollow Sections offers over 60 product variants suitable to varied requirement of its consumers.

These Variants include;

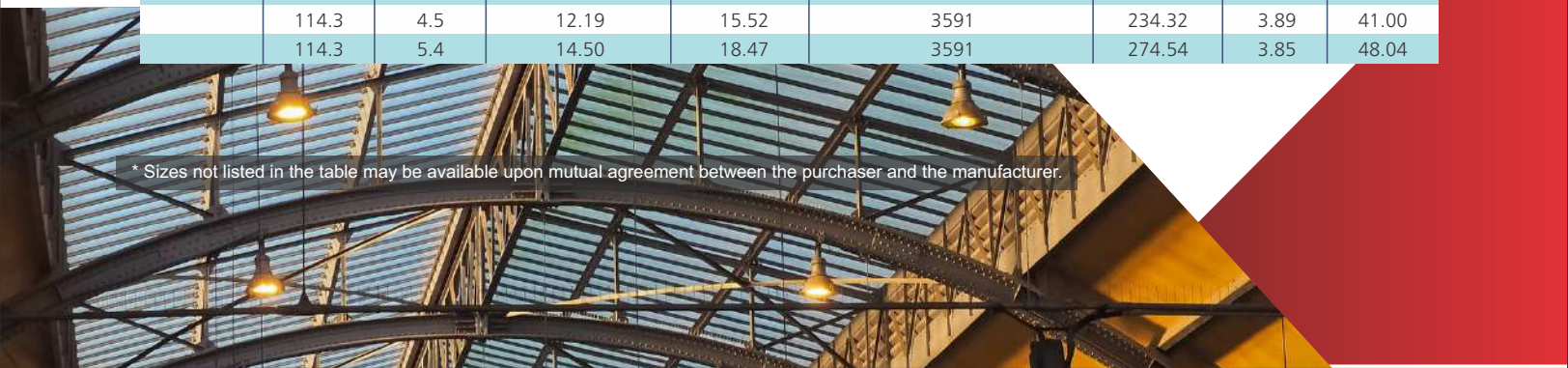
- 9 Bore Variants of CHS ranging from 15 mm to 100 mm having wall thickness in all the three classification of Light (L), Medium (M) as well as Heavy (H)
- 8 size Variants of SHS ranging from 25 mm to 92 mm in all the three classification of Light (L), Medium (M) as well as Heavy (H)
- 6 size Variants of RHS in all the three classification of Light (L), Medium (M) as well as Heavy (H)

DIMENSIONS & PROPERTIES OF CIRCULAR HOLLOW SECTION

AS PER SPECIFICATION IS:1161 - 2004

| NB (mm) | D (mm) | T (mm) | WEIGHT (Kg/m) | X-AREA (cm ²) | OUTER SURFACE AREA/METER (cm ² /m) | I _x (cm ⁴ /m) | R _x (cm) | Z _x (cm ³) |
|---------|--------|--------|---------------|---------------------------|---|-------------------------------------|---------------------|-----------------------------------|
| 15 | 21.3 | 2 | 0.952 | 1.21 | 669 | 0.57 | 0.69 | 0.54 |
| | 21.3 | 2.6 | 1.2 | 1.53 | 669 | 0.68 | 0.67 | 0.64 |
| | 21.3 | 3.2 | 1.43 | 1.82 | 699 | 0.77 | 0.65 | 0.72 |
| 20 | 26.9 | 2.3 | 1.4 | 1.78 | 845 | 1.36 | 0.87 | 1.01 |
| | 26.9 | 2.6 | 1.56 | 1.98 | 845 | 1.48 | 0.86 | 1.1 |
| | 26.9 | 3.2 | 1.87 | 2.38 | 845 | 1.7 | 0.85 | 1.27 |
| 25 | 33.7 | 2 | 1.56 | 1.99 | 1059 | 2.51 | 1.12 | 1.49 |
| | 33.7 | 2.6 | 1.99 | 2.54 | 1059 | 3.09 | 1.1 | 1.84 |
| | 33.7 | 3.2 | 2.41 | 3.07 | 1059 | 3.6 | 1.08 | 2.14 |
| | 33.7 | 4 | 2.93 | 3.73 | 1059 | 4.19 | 1.06 | 2.49 |
| 32 | 42.4 | 2 | 1.99 | 2.54 | 1332 | 5.19 | 1.43 | 2.45 |
| | 42.4 | 2.6 | 2.55 | 3.25 | 1332 | 6.46 | 1.41 | 3.05 |
| | 42.4 | 3.2 | 3.09 | 3.94 | 1332 | 7.62 | 1.39 | 3.59 |
| | 42.4 | 4 | 3.79 | 4.83 | 1332 | 8.99 | 1.36 | 4.24 |
| 40 | 48.3 | 2 | 2.28 | 2.91 | 1517 | 7.81 | 1.64 | 3.23 |
| | 48.3 | 2.9 | 3.25 | 4.14 | 1517 | 10.7 | 1.61 | 4.43 |
| | 48.3 | 3.2 | 3.56 | 4.53 | 1517 | 11.59 | 1.6 | 4.48 |
| | 48.3 | 4 | 4.37 | 5.57 | 1517 | 13.77 | 1.57 | 5.7 |
| 50 | 60.3 | 2 | 2.88 | 3.66 | 1894 | 15.58 | 2.06 | 5.17 |
| | 60.3 | 2.9 | 4.11 | 5.23 | 1894 | 21.59 | 2.03 | 7.16 |
| | 60.3 | 3.6 | 5.03 | 6.41 | 1894 | 25.87 | 2.01 | 8.58 |
| | 60.3 | 4.5 | 6.19 | 7.89 | 1894 | 30.9 | 1.98 | 10.25 |
| 65 | 76.1 | 2 | 3.65 | 4.66 | 2391 | 31.98 | 2.62 | 8.4 |
| | 76.1 | 2.9 | 5.24 | 6.67 | 2391 | 44.74 | 2.59 | 11.76 |
| | 76.1 | 3.6 | 6.44 | 8.2 | 2391 | 54.01 | 2.57 | 14.19 |
| | 76.1 | 4.5 | 7.95 | 10.12 | 2391 | 65.12 | 2.54 | 17.11 |
| 80 | 88.9 | 2.6 | 5.53 | 7.05 | 2793 | 65.68 | 3.05 | 14.78 |
| | 88.9 | 3.2 | 6.76 | 8.62 | 2793 | 79.21 | 3.03 | 17.82 |
| | 88.9 | 4 | 8.38 | 10.67 | 2793 | 96.34 | 3 | 21.67 |
| | 88.9 | 4.8 | 9.96 | 12.68 | 2793 | 112.49 | 2.98 | 25.31 |
| 100 | 114.3 | 2.6 | 7.16 | 9.12 | 3591 | 142.37 | 3.95 | 24.91 |
| | 114.3 | 3.6 | 9.83 | 12.52 | 3591 | 191.98 | 3.92 | 33.59 |
| | 114.3 | 4.5 | 12.19 | 15.52 | 3591 | 234.32 | 3.89 | 41.00 |
| | 114.3 | 5.4 | 14.50 | 18.47 | 3591 | 274.54 | 3.85 | 48.04 |

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.



TOLERANCE

A) OUT SIDE DIAMETER :-

1. UPTO & INCLUDING 48.3 MM
= +0.4 MM/ -0.8 MM
2. OVER 48.3 MM = ± 1.0 %

B) THICKNESS (FOR ALL SIZES) :-

1. WELDED TUBES : ± 10 %

C) WEIGHT :-

1. SINGLE TUBE : ± 10 %
2. 10 TONNE LOTS : ± 7.5 %

TENSILE PROPERTIES :-

| S.NO. | GRADE | Y.S (Min.) MPa | T.S (Min.) MPa | ELONGATION % |
|-------|---------|-------------------|-------------------|-----------------|
| 1) | Yst 210 | 210 | 330 | 20 |
| 2) | YSt 240 | 240 | 410 | 17 |
| 3) | YSt310 | 310 | 450 | 14 |
| 4) | Yst355 | 355 | 490 | 10 |

DIMENSIONS & PROPERTIES OF SQUARE HOLLOW SECTION

AS PER IS:4923 - 97

| SHS (DXB) (mm) | T (mm) | WEIGHT (kg/m) | AREA (cm ²) | I _x (cm ⁴) | R _x (cm) | Z _x (cm ³) | I _y (cm ⁴) | R _y (cm) | Z _y (cm ³) |
|-------------------|-----------|------------------|----------------------------|--------------------------------------|------------------------|--------------------------------------|--------------------------------------|------------------------|--------------------------------------|
| 25X25 | 2 | 1.36 | 1.74 | 1.48 | 0.92 | 1.19 | 1.48 | 0.92 | 1.19 |
| 25X25 | 2.6 | 1.69 | 2.16 | 1.72 | 0.89 | 1.38 | 1.72 | 0.89 | 1.38 |
| 25X25 | 3.2 | 1.98 | 2.53 | 1.89 | 0.86 | 1.51 | 1.89 | 0.86 | 1.51 |
| 32X32 | 2 | 1.8 | 2.3 | 3.36 | 1.21 | 2.1 | 3.36 | 1.21 | 2.1 |
| 32X32 | 2.6 | 2.26 | 2.88 | 4.02 | 1.18 | 2.51 | 4.02 | 1.18 | 2.51 |
| 32X32 | 3.2 | 2.69 | 3.42 | 4.54 | 1.15 | 2.84 | 4.54 | 1.15 | 2.84 |
| 38X38 | 2.6 | 2.75 | 3.51 | 7.14 | 1.43 | 3.76 | 7.14 | 1.43 | 3.76 |
| 38X38 | 3.2 | 3.29 | 4.19 | 8.18 | 1.4 | 4.3 | 8.18 | 1.4 | 4.3 |
| 38X38 | 4 | 3.95 | 5.03 | 9.26 | 1.36 | 4.87 | 9.26 | 1.36 | 4.87 |
| 40X40 | 2 | 2.31 | 2.94 | 6.94 | 1.54 | 3.47 | 6.94 | 1.54 | 3.47 |
| 40X40 | 2.6 | 2.92 | 3.72 | 8.45 | 1.51 | 4.22 | 8.45 | 1.51 | 4.22 |
| 40X40 | 3.2 | 3.49 | 4.45 | 9.72 | 1.48 | 4.86 | 9.72 | 1.48 | 4.86 |
| 40X40 | 3.6 | 3.85 | 4.91 | 10.45 | 1.46 | 5.22 | 10.45 | 1.46 | 5.22 |
| 40X40 | 4 | 4.2 | 5.35 | 11.07 | 1.44 | 5.54 | 11.07 | 1.44 | 5.54 |
| 49.5X49.5 | 2.6 | 3.69 | 4.7 | 16.91 | 1.9 | 6.83 | 16.91 | 1.9 | 6.83 |
| 49.5X49.5 | 2.9 | 4.07 | 5.19 | 18.37 | 1.88 | 7.42 | 18.37 | 1.88 | 7.42 |
| 49.5X49.5 | 3.6 | 4.93 | 6.28 | 21.42 | 1.85 | 8.66 | 21.42 | 1.85 | 8.66 |
| 49.5X49.5 | 4.5 | 5.95 | 7.58 | 24.64 | 1.8 | 9.96 | 24.64 | 1.8 | 9.96 |
| 60X60 | 2 | 3.56 | 4.54 | 25.14 | 2.35 | 8.38 | 25.14 | 2.35 | 8.38 |
| 60X60 | 2.6 | 4.55 | 5.8 | 31.33 | 2.33 | 10.44 | 31.33 | 2.33 | 10.44 |
| 60X60 | 3.2 | 5.5 | 7.01 | 36.94 | 2.3 | 12.31 | 36.94 | 2.3 | 12.31 |
| 60X60 | 4 | 6.71 | 8.55 | 43.55 | 2.26 | 14.52 | 43.55 | 2.26 | 14.52 |
| 60X60 | 4.8 | 7.85 | 10 | 49.21 | 2.22 | 16.4 | 49.21 | 2.22 | 16.4 |
| 72X72 | 2.6 | 5.53 | 7.04 | 55.82 | 2.82 | 15.51 | 55.82 | 2.82 | 15.51 |
| 72X72 | 3.2 | 6.71 | 8.54 | 66.32 | 2.79 | 18.42 | 66.32 | 2.79 | 18.42 |
| 72X72 | 4 | 8.22 | 10.47 | 79.03 | 2.75 | 21.95 | 79.03 | 2.75 | 21.95 |
| 72X72 | 4.8 | 9.66 | 12.31 | 90.31 | 2.71 | 25.09 | 90.31 | 2.71 | 25.09 |
| 91.5X91.5 | 2.6 | 7.12 | 9.07 | 118.32 | 3.61 | 25.86 | 118.32 | 3.61 | 25.86 |
| 91.5X91.5 | 3.6 | 9.67 | 12.32 | 156.48 | 3.56 | 34.20 | 156.48 | 3.56 | 34.20 |
| 91.5X91.5 | 4.5 | 11.88 | 15.14 | 187.56 | 3.52 | 41.00 | 187.56 | 3.52 | 41.00 |

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.

MECHANICAL PROPERTIES :-

| S.NO. | GRADE | Y.S (Min.) MPa | T.S (Min.) MPA | ELONGATION % | OUTSIDE DIMENSION | THICKNESS | SQUARENESS | CORNER RADIUS | DIMENSIONAL TOLERANCE | WEIGHT |
|-------|---------|----------------|----------------|--------------|---------------------------------|-----------|------------------------|---------------|-------------------------------|-------------------------|
| 1) | Yst 210 | 210 | 330 | 20 | +/- 1% WITH A MIN. OF +/- 0.50% | +/- 10% | 90 Degree +/- 2 Degree | 3t Max. | INDIVIDUAL LENGTH 10% - 8% | LOT OF 10 MT +/-7.5% |
| 2) | YSt 240 | 240 | 410 | 15 | | | | | | |
| 3) | Yst310 | 310 | 450 | 10 | | | | | | |

DIMENSIONS & PROPERTIES OF RECTANGULAR HOLLOW SECTION AS PER IS:4923-97

| RHS (DXB) (mm) | T (mm) | WEIGHT (kg/m) | AREA (cm ²) | Ix-x (cm ⁴) | Iy-y (cm ⁴) | Rx-x (cm) | Ry-y (cm) | Zx-x (cm ³) | Zy-y (cm ³) |
|----------------|--------|---------------|-------------------------|-------------------------|-------------------------|-----------|-----------|-------------------------|-------------------------|
| 50X25 | 2 | 2.15 | 2.74 | 8.38 | 2.81 | 1.75 | 1.01 | 3.35 | 2.25 |
| 50X25 | 2.6 | 2.71 | 3.46 | 10.16 | 3.36 | 1.71 | 0.99 | 4.06 | 2.69 |
| 50X25 | 3.2 | 3.24 | 4.13 | 11.63 | 3.8 | 1.68 | 0.96 | 4.65 | 3.04 |
| 60X40 | 2.6 | 3.73 | 4.76 | 22.76 | 12.09 | 2.19 | 1.59 | 7.59 | 6.05 |
| 60X40 | 2.9 | 4.12 | 5.25 | 24.74 | 13.11 | 2.17 | 1.58 | 8.25 | 6.56 |
| 60X40 | 3.6 | 4.98 | 6.35 | 28.9 | 15.23 | 2.13 | 1.55 | 9.63 | 7.62 |
| 66X33 | 2.6 | 3.69 | 4.7 | 25.15 | 8.43 | 2.31 | 1.34 | 7.62 | 5.11 |
| 66X33 | 2.9 | 4.07 | 5.19 | 27.33 | 9.12 | 2.29 | 1.33 | 8.28 | 5.53 |
| 66X33 | 3.6 | 4.93 | 6.28 | 31.87 | 10.52 | 2.25 | 1.29 | 9.66 | 6.37 |
| 80X40 | 2.6 | 4.55 | 5.8 | 46.58 | 15.74 | 2.84 | 1.65 | 11.65 | 7.87 |
| 80X40 | 2.9 | 5.03 | 6.41 | 50.87 | 17.11 | 2.82 | 1.63 | 12.72 | 8.56 |
| 80X40 | 3.2 | 5.5 | 7.01 | 54.94 | 18.41 | 2.8 | 1.62 | 13.74 | 9.21 |
| 80X40 | 4 | 6.71 | 8.55 | 64.79 | 21.49 | 2.75 | 1.59 | 16.2 | 10.74 |
| 96X48 | 2.6 | 5.53 | 7.04 | 82.95 | 28.19 | 3.43 | 2 | 17.28 | 11.74 |
| 96X48 | 3.2 | 6.71 | 8.54 | 98.61 | 33.28 | 3.4 | 1.97 | 20.54 | 13.87 |
| 96X48 | 4 | 8.22 | 10.47 | 117.54 | 39.32 | 3.35 | 1.94 | 24.49 | 16.38 |
| 122X61 | 3.6 | 9.67 | 12.32 | 232.61 | 78.83 | 4.34 | 2.35 | 38.13 | 25.84 |
| 122X61 | 4.5 | 11.88 | 15.14 | 278.94 | 93.78 | 4.29 | 2.49 | 45.73 | 30.75 |
| 122X61 | 5.4 | 14.01 | 17.85 | 320.83 | 107.03 | 4.24 | 2.45 | 52.60 | 35.09 |

* Sizes not listed in the table may be available upon mutual agreement between the purchaser and the manufacturer.

MECHANICAL PROPERTIES :-

| Section Type | GRADE | Mechanical Properties | | | | OUTSIDE DIMENSION | DIMENSIONAL TOLERANCE | | | | |
|------------------|---------|-----------------------|---------|--------------|---------|-----------------------------------|-----------------------|------------------------|---------------|--------------------|--------------|
| | | YST Mpa | UTS Mpa | % ELONGATION | | | THICKNESS | SQUARENESS | CORNER RADIUS | WEIGHT | |
| | | | | <25.4mm | >25.4mm | | | | | INDIVIDUAL LENGTHS | LOT OF 10 MT |
| *RHS/SHS IS:4923 | YST 355 | 355 | 490 | 8 | 10 | +/- 1% WITH A MIN. OF +/- 0.50 mm | +/- 10% | 90 Degree +/- 2 Degree | 3t Max. | 10% -8% | +/-7.5% |



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