



MADHAV KRG GROUP
JYOTI
 EK KADAM AAGE
HRC 100
 PIPES & TUBES



Madhav KRG Ltd

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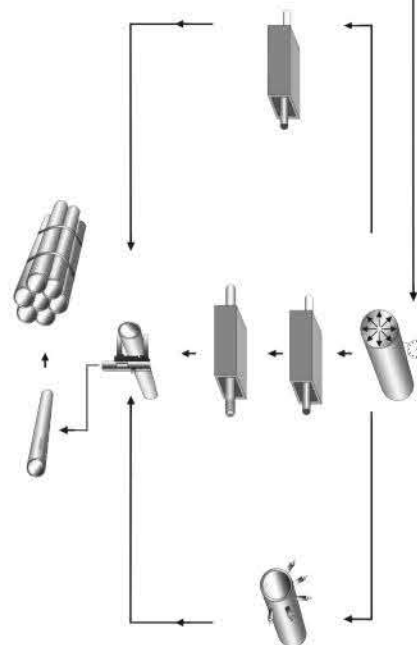
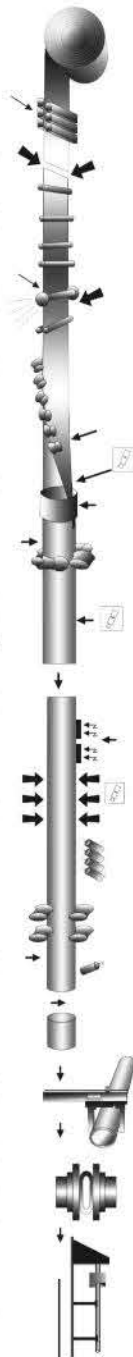
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**PROCESS FLOW CHART
 FOR TUBE & PIPE**

- ARRIVAL OF HR COILS
- SLITTING MACHINE
(Slitting of Hot Rolled coil)
- FEEDING TO TUBE MILL
- FORMING SECTION
OF TUBE MILL
(To make shape of tube)
- H.F. WELDER
(H.F. welder for
welding of seam)
- SIZING SECTION OF TUBE MILL
(To maintain size of tube)
- CUT OF CARRIAGE
(Cutting of tube in
required length)
- DIMENSIONS
MEASUREMENT & TESTING
(To ensure quality
as per Standards)
- HYDRO TESTING
(No leakage at
any point @ 5 Mpa)
- COLLECTOR/ BUNDLING
- STOCK YARD
- DESPATCH
(Despatch to customers
as per requirement)



AN ISO 9001, OHSAS 18001, 14001 COMPANY



MADHAV KRG GROUP
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HRC 100
 PIPES & TUBES



www.madhavkrggroup.com



Pipes & Tubes
 made with **100%**
Hot Rolled Coil



PARAMETERS
RAW MATERIAL
TESTING AND INSPECTION
FINISHING OPERATIONS
SURFACE PROTECTION
PLANT TECHNOLOGY
SIZE RANGE
THICKNESS RANGE
BUNDLE WEIGHT
LENGTH
APPLICATIONS
CHEMICAL PROPERTIES
MECHANICAL PROPERTIES
WEIGHT TOLERANCE (INDIVIDUAL LENGTH)
WEIGHT TOLERANCE (TRUCK LOAD)
THICKNESS TOLERANCE
LENGTH TOLERANCE

PIPE & TUBE (ROUND)
High Quality Hot Rolled Coil
1). Visual Inspection 2). Dimensional Inspection 3). Chemical Testing 4). Mechanical Testing 5). Hydrostatic Testing 6). Flattening Test 7). Drift Expansion Test 8). Crushing Test 9). Bend Test 10). Straightness 11). Workmanship 12). Height of internal weld fin
1). Pipe & Tube Ends 2). Cut Length
1). Black (Self Coloured / uncoated) 2). Outside Protection Coating/Oiling/Varnish
1). High Speed Mill 2). Turkey & German based Technology
OD – 18.1mm to 193.7mm
1.20mm to 6.0mm
1 MT to 3 MT
4 Meter to 12 Meter
1). Liquid Transmission 2). Idlers 3). Mechanical & General Engineering 4). Structural Engineering 5). Water Wells 6). Water and Sewage 7). Fire Protection 8). Fencing C – 0.10% Max. M– 0.40% Min. P– 0.04% Max. S– 0.040% Max.
Steel tubes for Mechanical and General Engineering Purposes
Grades YS (Min) TS (Min) Elongation (Min)
WT-210 210 MPa 330 MPa 20% & 12%(≤33.7mm OD)
WT-240 240 MPa 410 MPa 15% & 10%(≤33.7mm OD)
WT-310 310 MPa 450 MPa 10% & 6%(≤33.7mm OD)
Steel Tubes for Structural Purposes
Grades YS (Min) TS (Min) Elongation (Min)
YST-210 210 MPa 330 MPa 20% & 12%(≤25mm NB)
YST-240 240 MPa 410 MPa 17% & 12%(≤25mm NB)
YST-310 310 MPa 450 MPa 14% & 12%(≤25mm NB)
YST-355 355 MPa 490 MPa 10% & 12%(≤25mm NB)
Steel Tubes, Tubular and other Wrought Steel Fittings
Class TS (Min) Elongation (Min)
L,M,H 320 MPa 20% & 12%(≤25mm NB)
Single tube (Light Series):- +5% -4%
Single Tube (Medium & Heavy Series): ± 5%
For Lot of 10MT Minimum(Light Series) :- +4% -3%
For Lot of 10MT Minimum (Medium & Heavy Series) ± 4%
Light Series:- +5% -4%
Medium & Heavy Series:- ± 5%
± 6 mm

HOLLOW SECTIONS
RHS (RECTANGULAR HOLLOW SECTIONS)
High Quality Hot Rolled Coil
1). Visual Inspection 2). Dimensional Inspection 3). Chemical Testing 4). Mechanical Testing 5). Straightness 6). Concavity/Convexity 7). Squareness of Sides 8). External Corner Radius 9). Twist
1). Pipe & Tube Ends 2). Cut Length
1). Black (Self Coloured / uncoated)
1). High Speed Mill 2). Turkey & German based Technology
CF RHS – 40X20mm to 200X100mm
1.20mm to 6.0mm
1 MT to 3 MT
4 Meter to 12 Meter
1). Construction 2). Machinery 3). Automotive 4). Furniture 5). Storage System 6). Transmission Tower 7). Structural Engineering C – 0.10% Max. M– 0.40% Min. P– 0.04% Max. S– 0.040% Max.
Hollow Steel Sections for Structural use
Grades YS (Min) TS (Min) Elongation (Min)
YST-210 210 MPa 330 MPa 20% & 12%(≤25mm NB)
YST-240 240 MPa 410 MPa 15% & 10%(≤25mm NB)
YST-310 310 MPa 450 MPa 10% & 8%(≤25mm NB)
YST-355 355 MPa 490 MPa
On Individual Length:- +5% -4%
For Lot of 10MT Minimum:- ± 4%
For all Sizes:- ± 5%
± 6 mm

HOLLOW SECTIONS
SHS (SQUARE HOLLOW SECTIONS)
High Quality Hot Rolled Coil
1). Visual Inspection 2). Dimensional Inspection 3). Chemical Testing 4). Mechanical Testing 5). Straightness 6). Concavity/Convexity 7). Squareness of Sides 8). External Corner Radius 9). Twist
1). Pipe & Tube Ends 2). Cut Length
1). Black (Self Coloured / uncoated)
1). High Speed Mill 2). Turkey & German based Technology
CF SHS – 19X19mm to 150X150mm
1.20mm to 6.0mm
1 MT to 3 MT
4 Meter to 12 Meter
1). Construction 2). Machinery 3). Automotive 4). Furniture 5). Storage System 6). Transmission Tower 7). Structural Engineering C – 0.10% Max. M– 0.40% Min. P– 0.04% Max. S– 0.040% Max.
Hollow Steel Sections for Structural use
Grades YS (Min) TS (Min) Elongation (Min)
YST-210 210 MPa 330 MPa 20% & 12%(≤25mm NB)
YST-240 240 MPa 410 MPa 15% & 10%(≤25mm NB)
YST-310 310 MPa 450 MPa 10% & 8%(≤25mm NB)
YST-355 355 MPa 490 MPa
On Individual Length:- +5% -4%
For Lot of 10MT Minimum:- ± 4%
For all Sizes:- ± 5%
± 6 mm