

QUALITY ASSURANCE

Using virgin raw material from its captive iron ore mines and with an automated production facility, from the raw material stage to the final product delivered to customers, JSPL Sections assures consistent quality at every step and full compliance to desired specifications. With an automated production facility stationed with continuous checkpoints at every level, JSPL has been able to produce best quality structural sections and rails and establish a great reputation in the country, as well as, its overseas customers. Its strong quality and control assurance systems are equipped with modern testing facilities, which conform to stringent quality standards and are manned by well-qualified personnel.

QUALITY CONTROL FACILITIES AT JSPL

- ◀ Prestigious NABL Accredited lab
- ◀ Fully equipped mechanical testing laboratory
- ◀ Universal Testing Machines (load capacity up to 1000KN)
- ◀ Impact Testing Machine (to carry out both Charpy as well as IZOD test)
- ◀ Bend Testing Machine
- ◀ Brinell cum Rockwell Hardness Tester
- ◀ CNC Wirecut Machine – To cut complex notches for tests like fracture toughness etc.
- ◀ Profile check

PACKING & DELIVERY

Packing: All the sections are supplied bare and either loose and/or in mill standard packing of maximum 5MT weight, each.

Marking: All of the above sections are supplied with details of size/ length/ steel/ heat number marked with indelible white paint on pieces and on the bundles, with bundle number additionally appearing on the bundle. Embossing on the sections are also done as per customer requirement.



ANGLES

JSPL is the manufacturer of hot rolled equal leg angles which are available in a variety of grades and sizes, making it ideal for structural applications, general fabrication, machining and repairs. Keeping in view the requirements of the transmission line tower segment, angle sections by JSPL offer various characteristic features which gives it a distinction over other suppliers.

ADVANTAGES:

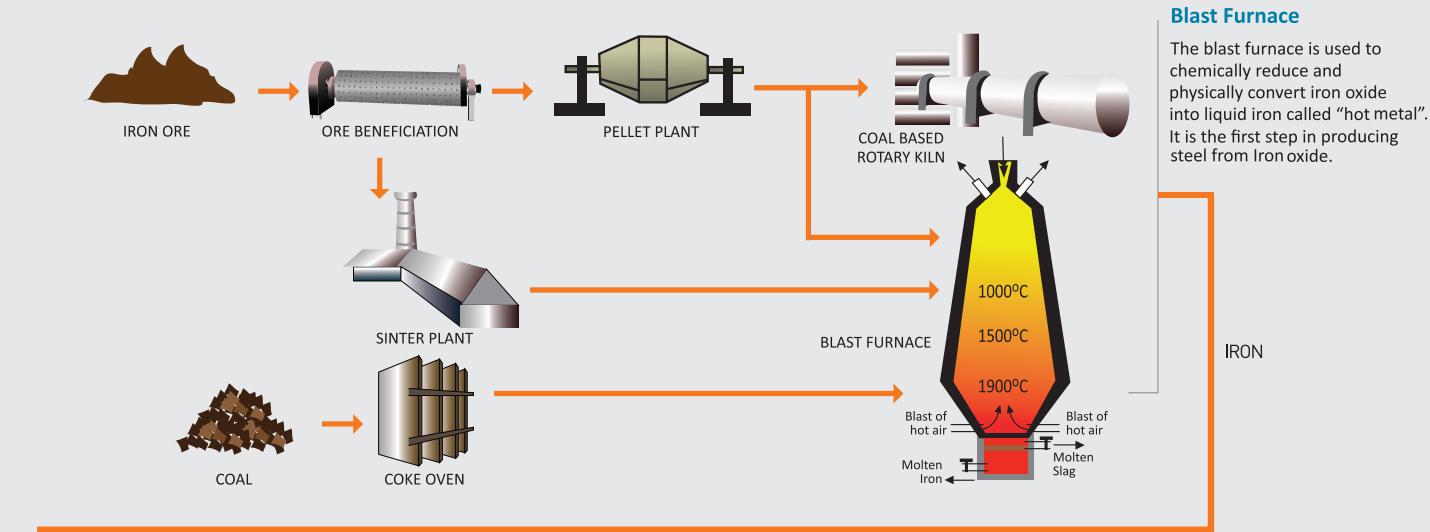
- ◀ Wide dimensional range
- ◀ Excellent surface finish
- ◀ Close dimensional tolerance
- ◀ Formable and machinable
- ◀ Superior weldability
- ◀ Mild to high strength steel availability
- ◀ Superior mechanical and chemical properties

JINDAL STEEL & POWER LIMITED

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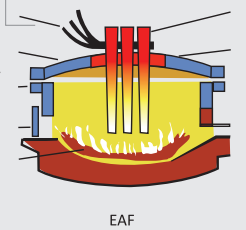
INTEGRATED STEEL MAKING PROCESS



EAF

An electric arc furnace used for steelmaking consists of a refractory-lined vessel, usually water-cooled in larger sizes, covered with a retractable roof, and through which one or more graphite electrodes enter the furnace.

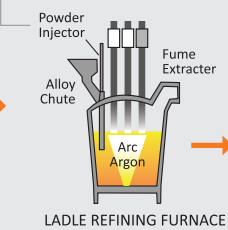
Eccentric bottom tapping leads to slag free tapping and shorter tap to tap times.



DRI FROM KILN

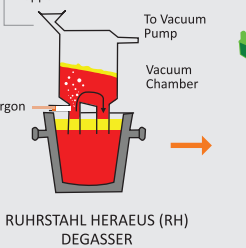
LF

Ladle refining refers to the metallurgical processes that occur in the ladle. These include alloying, deoxidizing, degassing, and the reheating and stirring of the bath. Ladle refining affords the steel maker with the flexibility to control the processing of heats in order to achieve greater production efficiencies and superior metallurgical traits.



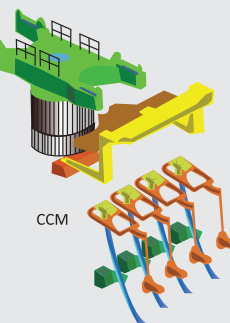
Ruhrstahl Heraeus (RH) Degasser

The Ruhrstahl Heraeus (RH) degasser comprises a pair of 'snorkels' which are lowered into the liquid steel. Argon is injected through tuyeres in one of the snorkels, forcing the steel up into the unit and out again through the other snorkel exposing it through Vacuum. In some units, oxygen is injected through a lance in order to assist decarburization.

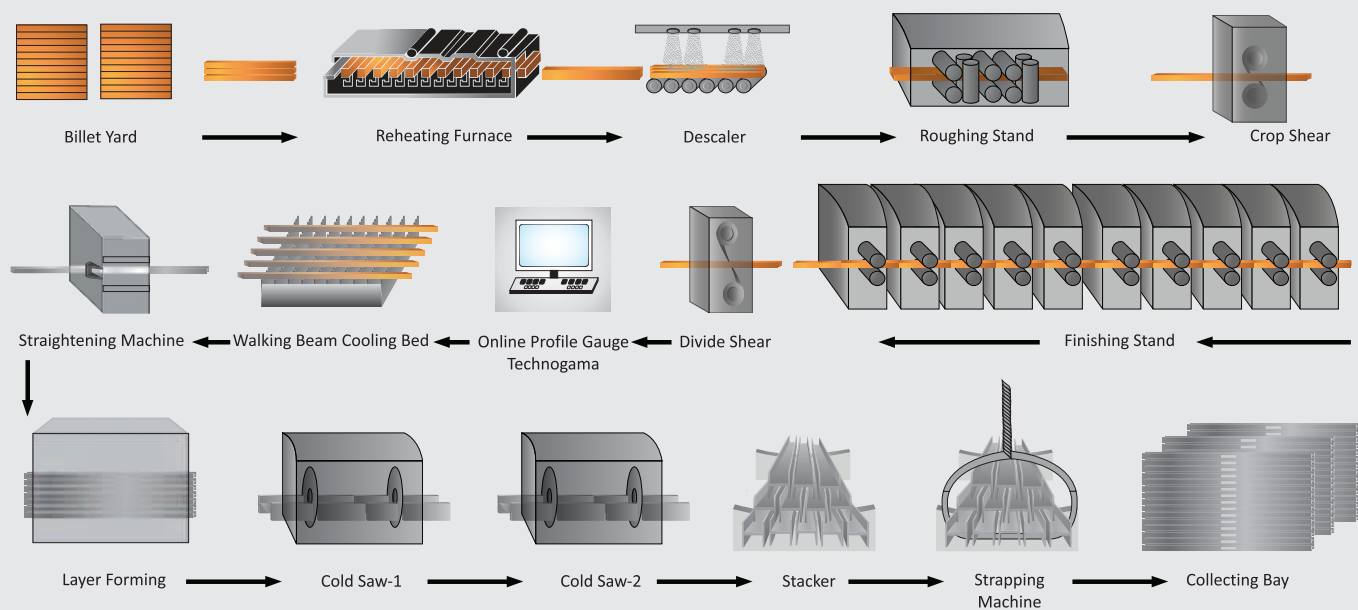


Continuous Casting Machine

Continuous casting transforms molten metal into solid on a continuous basis. It is the most cost and energy efficient way to mass produce semi efficient metal products with consistent quality in a variety of sizes and shapes.



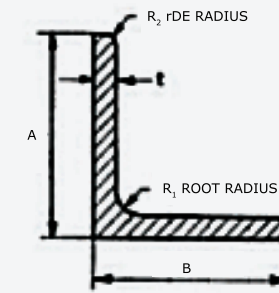
Medium & Light Structural Mill – Process Flow



SPECIFICATIONS

DIMENSIONAL RANGE

ANGLES	
IS2062E250/E300/E350/E410/E450	
Dimension: As per IS 808	
Tolerance as per IS 1852	
A(mm)xB(mm)xt(mm)	
75 X 75 X 5/6/8/10	
80 X 80 X 6/8/10	
90 X 90 X 6/7/8/10/12	
100 X 100 X 6/7/8/10/11/12	
110 X 110 X 7/8/10/11/12/15/16	
120 X 120 X 8/9/10/12	
130 X 130 X 8/9/10/12/16	
150 X 150 X 10/12/13/14/15/16/18/20	
200 X 200 X 12/15/16/18/20/24/25	
250 X 250 X 22/25/28/32/35	



GRADES

The angles produced by JSPL comply to various Indian and International standards in both Mild Steel and High Tensile grades

APPLICATIONS

- Angles are used in a range of industrial applications, including:
- Transmission towers & lines
- Building, Bridges and other structures for support
- General structural use in construction
- Transportation frames and corners
- Support frames that require welding, riveting or bolting on bridges & buildings
- Machinery and equipment frames, braces and corners
- Precipitators
- Border Fencing



BORDER FENCING

SOME OF OUR VALUED CUSTOMERS





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BEND TESTING MACHINE

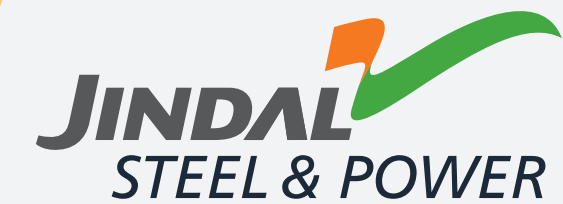
IMPACT TESTING MACHINE

ROBOTIC UNIVERSAL TESTING MACHINE

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CHANNEL

One of the hot rolled structural shapes which JSPL offers is the Indian Standard Medium Weight Channels (ISMC) which are available in a wide range of sizes and thicknesses. The shape provides superior structural support, making it an ideal product for frames and braces used for machinery, enclosure, vehicle, building and structural support applications.

CHARACTERISTICS

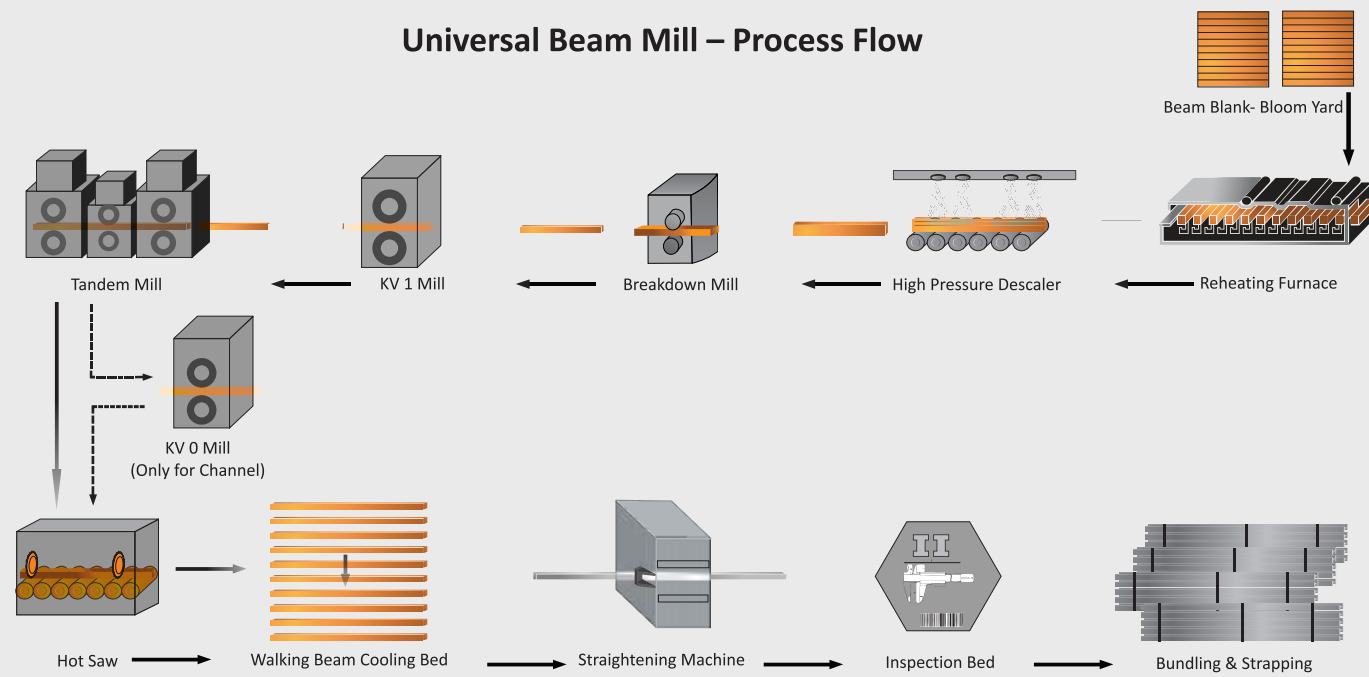
JSPL channel offers various characteristics which make it suitable for use in various industrial segments and as a support structure

- ◀ Mild to High tensile strength
- ◀ Superior weldability
- ◀ Atmospheric corrosion resistance
- ◀ Wide dimensional range

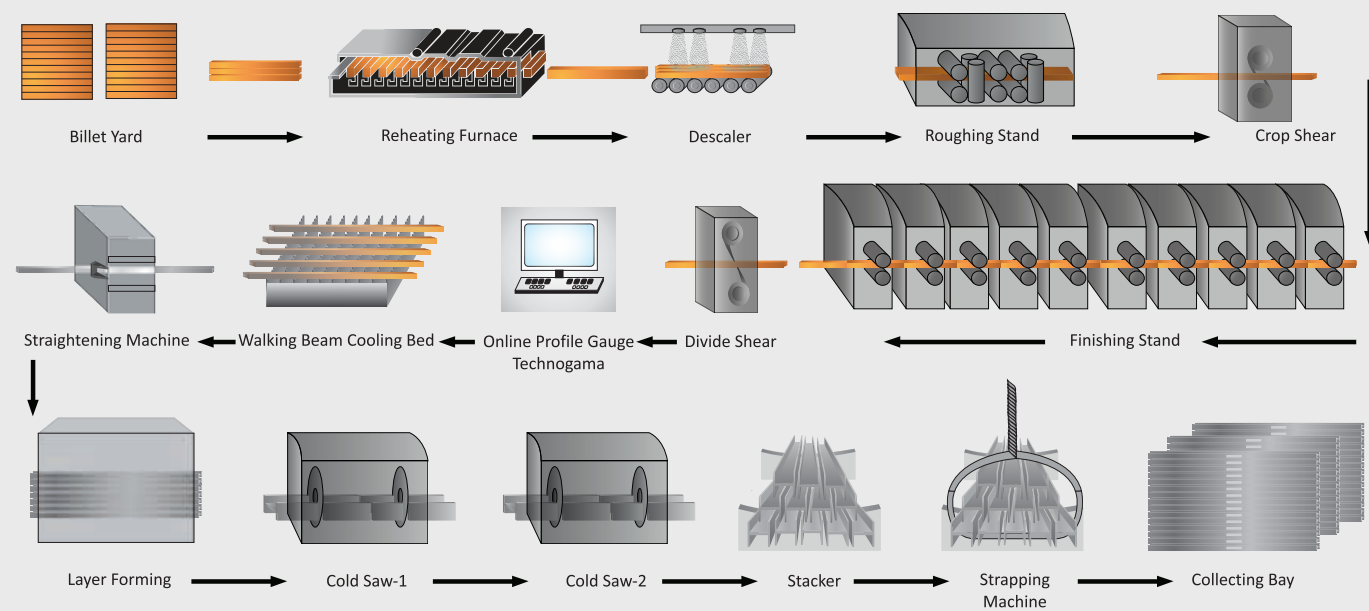


PROCESS FLOWS

Universal Beam Mill – Process Flow



Medium & Light Structural Mill – Process Flow



APPLICATIONS

Indian Standard Medium Weight channel sections from JSPL find application in a wide range of segments. The various applications of Channel sections include the following

- ◀ Truck & trailer frame supports (Chasis Member)
- ◀ Equipment & machinery frames & supports
- ◀ Building frames & other support components.
- ◀ Bridges
- ◀ Freight cars
- ◀ Poles

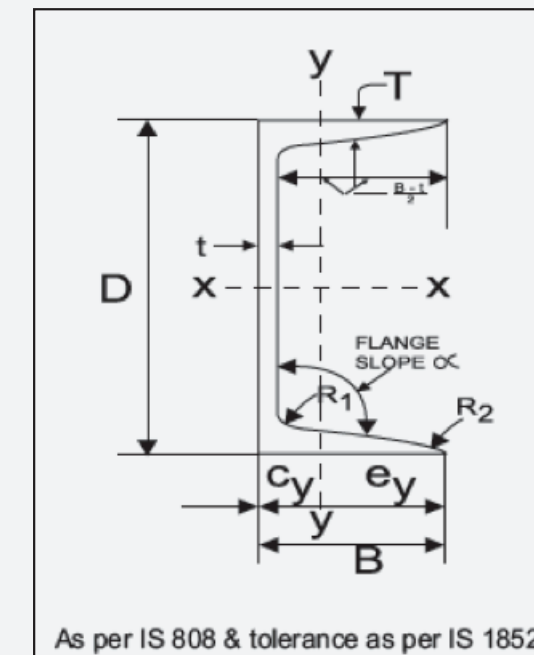


DIMENSIONAL RANGE

In order to meet the requirements of different segments, the channels (ISMC) from JSPL are available as per Indian (IS 808) and various international standards.

- ◀ ISMC 75x40 to 400x100mm

CHANNELS IS2062E250/E300/E350/ E410/E450
Dimension: As per IS 852
Tolerance as per IS 1852
Depth(mm) x Flange Width(mm) x Sectional Weight(Kg/m)
ISMC 75 X 40 X 7.14*
ISMC 100 X 50 X 9.56/10.6
ISMC 125 X 65 X 13.1
ISMC 150 X 75 X 16.8
ISMC 175 X 75 X 19.6
ISMC 200 X 100 X 22.3
ISMC 250 X 80 X 30.6
ISMC 250 X 82 X 34.2
ISMC 300 X 90 X 36.3
ISMC 300 X 92 X 41.5
ISMC 400 X 100 X 50.1



SOME OF OUR VALUED CUSTOMERS

