

# HOT ROLLING MILLS FROM **ARMECH** THE QUALITY MACHINE BUILDERS



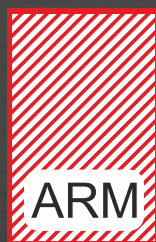
Laying Head – 75 m / sec

## COMPLETE SOLUTION PROVIDERS FOR LONG PRODUCT MILLS

- For high speed Wire Rods and ReBar Mills. Up to 0.40 million tpa, max. 70 tph, with complete engineering & supply.
- Wire Rod Blocks with max. guaranteed speed : 90 m / sec.
- Upgradation / modernisation of existing Bar / Wire Rod / Structural Mills is our specialisation.
- For Re Bar / TMT Mills, high speed finishing Lines including, compact stands, twin channels, continuous types shears, Tail brake Pinch rolls, upto 35 m / sec
- SERVICES : Installation of Bar & Wire Rod Mills, Reconditioning of used Wire Rod Blocks, Laying Heads, Garret Coilers & other precision equipment.

## OUR STRENGTHS

- State-of-the-art technology and a strong emphasis on quality and engineering, results in mills which are efficient and roll with close product tolerances.
- Designs and features adapted to operating conditions.
- Excellent value for money.
- An innovative team that thrives on challenges.



## WIRE ROD LINES



BLOCK UNDER OPERATION  
WORKING AT 75 m/sec.

### SPECIFICATIONS FOR WIRE ROD BLOCKS

- From 2 to 10 stands
- Max. guaranteed speed: 90 m/sec.
- Size range: 5.0 to 16 mm
- Roll size: 210 mm for pre- finishing stands, 170 mm for finishing stands
- Introducing, for the first time in India, a Two stand high speed finishing Block, for superior size control and increased production with guaranteed speed of 110 m/sec.



10 stand Block for Stainless steel



Vertical Coil Compactor, 2000 kg coil

### SPECIAL FEATURES OF OUR WIRE ROD BLOCK

- Delta / V type design with a medium - low reduction of 18%, which enables superior size control (profile and tolerances). This is aided by a small roll size, since it ensures low 'spread'.
- Low reduction implies lower stress on mechanical components along with lower roll wear which ensures that the right size is maintained for a longer period. Less frequent roll changes results in higher productivity.
- All key parts are manufactured on precision CNC machines. All high-speed gears, manufactured to the highest accuracy levels, are imported from Germany.
- Identical Roll units on both sides, enables operators to keep a min. stock of spare roll units, usually only one. These roll units are the most expensive spares of a Wire Rod Block. (Many Block designs have different Roll Units for the right and left side.)
- Identical bevel gears in all stands, again, ensure ease of spares.
- Heavy duty design, with low pass height of app. 1400 mm. Ensures greater stability and negligible vibration levels at high speeds.
- An ultra heavy duty, common base frame.

### COIL FORMING AND COMPACTING LINES

We can offer 2 types of lines, both Vertical Compacting type.

- Upto 1200 kg – A simple and cost-efficient line with manual compacting, evenly spread coils using a ring distributor and Easy Down system, followed by a slat / chain conveyor.
- From 1500 to 2500 kg – A pallet type system with manual binding / automatic tying, depending on the coil weight.

## CANTILEVERED TYPE STANDS

- These stands are similar in design and concept to the stands used in Blocks. They are usually used in Pre-Finishing Mills and run with rolls of high hardness or of Tungsten Carbide. They can be used in H-V or H-H configuration.
- Apart from quick roll changing, one of the main advantages is that unlike housing less stands they do not require expensive stock of spares like cassettes (chock assemblies with screws and bearings).
- They can be used as independently driven stands with loopers or driven by one motor in a group, like a Block.
- Choice of four Roll Sizes 210, 230, 285 & 300 mm.
- They are ideal Pre Finishing stands for
  - a. Locating before a ReBar / TMT Block to enable rolling of bigger sizes, upto 25 mm.
  - b. As entry stands before a Wire Rod Block, it reduces speed in the mill stands preceding these Cantilevered Stands and to enable an accurate size to enter the Block.
  - c. As finishing stands for Garret Coiler lines, for 15 – 25 mm dia



CANTILEVERED STANDS IN H - V CONFIGURATION - 300 mm  
SYNERGY STEELS LTD., ALWAR, INDIA.

## GARRET COILER LINES

- For rounds from 15 - 40 mm dia. in coil form. Used for plain rounds in Stainless and Special steels
- 70 tph capacity, Coil weights up to 2500 kg. The complete line consists of Coilers, a device that extracts the coil from these coilers. Another device then either takes it for further it for thermal processing, depending on the grades being rolled, or places it directly on a slat type cooling conveyor.



GRAB GETTING INTO POSITION  
TO LIFT COIL



SWIVELING ELEVATOR  
CARRYING COIL TO  
QUENCHING TANK

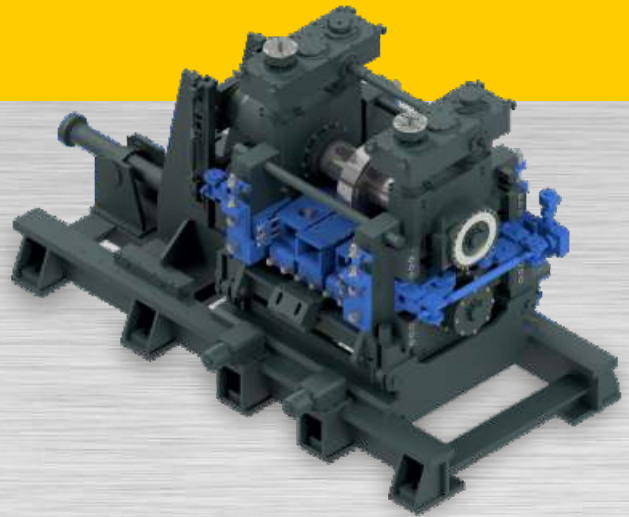


COIL BEING FORMED  
Rimjhim Ispat Ltd., Kanpur, India



# UPGRADATION PROJECTS

- Upgradation of Structural Rolling Mill at Al Jazeera Steel, Oman. We are upgrading an existing Structural mill to roll bigger Beams and narrow Strips. New heavy duty stands are being located on existing foundations with Vertical cassettes and new Gear Boxes.
- This Quasi Stand is an economical method for rolling parallel flange beams and channels in horizontal housingless stands with insertion of vertical roll cassette assemblies.



**Quasi Stands for Structural Rolling**



Housing Less Stands: Standard Roll Neck Sizes:  
160 / 200 / 230 / 260 / 280 / 320 mm



Controlled Cooling Conveyor with Insulated Covers  
for Low Carbon Grades



H – V Mill, Housing less Stands, for Stainless Steel Wire Rods 250,000 tpa



Close – up View of Roll Unit

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**THINK WIRE RODS  
THINK ARMECH**