Manufacturers & Exporters of:
- Chilled Rolls
- DPIC Rolls
- Alloy Steel Rolls
- Adamite Rolls & Rings
- S.G. Iron Rolls
- S.G. Acicular Rolls
- Forging Rolls
- Rolling Mill Machineries
- Pig Iron

“We bring quality Rolls & Rolling Mill Machineries to industries Since 1988”

Contact Us:
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Our Sister Concern
Tirupati Steels
Deals in Pig Iron & Chilled Rolls Raw Materials

We are always ready to assist you Call: +91-98726-69137
Company Profile

WELCOME TO THE LEADING MANUFACTURERS & EXPORTERS OF HIGH QUALITY ROLLS.

Tirupati Rolls (India) was founded by Mr. Nand Lal Chawla and committed to total quality management since 1998. We feel pleasure that we are one of the leading manufacturers and suppliers of High Class Chilled Rolls, Forging Rolls, Rings, Shafts, Straightening Rolls, Adamite Rolls, and SH Iron Rolls for manual, Semi Automatic and Fully automatic TMT Plants, Structure Mills, Floor Mills and Various other industries. We also supply rolling mill machinery in accordance with our clients' requirements. The offered products are known for features like superior functionality, long service life, optimum tensile strength and rugged construction.

We have installed technology advanced machinery which help us to attain a massive installation capacity that meet the bulk requirements of clients. Our clients can avail a customized product range at market leading prices which results in their optimum satisfaction. We also work in close coordination of clients to provide them superior quality products.

Under the able guidance of our mentor we have emerged as a leading name in the industry. His sharp business acumen and rich industry experience has also helped us in meeting clients requirements in stipulated time frame.

Our aim is to be recognized by our customers as a preferred supplier of quality products and services that consistently meet their evolving needs.

MISSION

Our Mission is to provide High Quality Rolls at competitive Prices, through Market-Focused & Process-Centered Approach, to develop and deliver innovative solutions to Global customers.

VISION

Our long-term vision is to become the world’s leading High Quality Rolls Solution Provider Company. Our integrated and flexible process guides brings our employees to success.

VALUES

Safe, Ethical, Innovative, Responsive, Quality and cost conscious, Driven to deliver.

Quality Assurance

Our quality controllers vigilantly inspect the entire range of our products at various stages during manufacturing to ensure a superior product. We adhere to all quality norms to offer an international standards product range to our clients. The offered products are tested in our in-house quality testing facility using advanced technology and machines. We also ensure that the procured basic material is fit to use in manufacturing process through rigorous tests. Only after the approval from quality controllers, we use it in manufacturing process. Through our total quality management system we are able to offer a superior quality range of products to our clients.

Our specialized team of quality control takes total care of standard of quality at every stage from designing to production. Latest technology is used to conduct exhaustive physical and chemical tests of the machineries so that better quality and enhanced performance can be assured.

Our Infrastructure

We have all the facilities for normalizing, annealing and heat treatment and also we are fully equipped with all testing facilities for physical, chemical and ultrasonic testing. Each of the product undergoes rigid testing and inspection at various stages from raw material to finished one. Forgings are done in controlled temperature conditions.

The machine shop is equipped with precision machine tools for dimensional accuracy to cover a wide range of products. We have 30 plus lathe machines, grinders, shapers & many more for the proper machining, grinding & boring machine etc.

The casting plant is having all the modern facilities for the production of High Graded chill roll Casting. We have 4 pit furnace and 2 rotary furnace. The company has installed latest measuring instruments. Through quality management and process of continuous improvement the company have delivered best to the market.

We have established a state-of-the-art infrastructure in a sprawling area to manufacture a superior quality range of Industrial Castings. This facility enables us achieve an installation capacity to fulfill clients' bulk and urgent requirements in a timely manner. Owing to their skills, we have channelized each process at our infrastructure to suit clients preferences.
Our Product Range

**CHILLED ROLLS SHAFTED / ICCI ROLLS / AICCI ROLLS**

Chilled Rolls Barrels are manufactured by centrifugal casting method, In this casting rolls remain free from pinholes and cracks.

The steel shafts are fitted in the Barrels with shrink fitting technology along with M.S lock nuts on both sides of the Barrels. This method annihilates the chances of loosening the shafts. We are specialist in manufacturing chilled rolls barrels for TMT, TOR, FLAT BARS, ROUNDS, SQUARE MILLS, Etc.

Whether mill is manual, automatic or semi-automatic. Proper chemical composition will be done according to the stand nos and material which have to be produce from our rolls, order and be tension free.

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Our Product Range

**DPIC / DPCC ROLLS**

DPIC Rolls are having very hard Shell and Tough Core to have high wear resistance and toughness.

DPIC Rolls are manufactured in Static Casting by Double Poured Pouring Process. In this process first shell metal is poured in the Chill Mould from bottom to top and after that core metal is poured in mould from bottom to top. The rest of molten material is passes throughout.

As per the requirement of party, Shell and Core Iron Compositions are adjusted depending upon the hardness. In these rolls drop of hardness is very small up to the Shell depth. These rolls are available in hardness range up to 70 – 85 at Shore. Especially these rolls are used in Finishing and Continuous Stand of the Rolling Mills.

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**Chemical Composition**

<table>
<thead>
<tr>
<th>Hardness</th>
<th>C%</th>
<th>Mn%</th>
<th>Si%</th>
<th>Cr%</th>
<th>Ni%</th>
<th>Mo%</th>
<th>S%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>65-70</td>
<td>3.30-3.20</td>
<td>0.60-0.80</td>
<td>0.80-1.60</td>
<td>0.80-1.20</td>
<td>1.50-2.70</td>
<td>0.25-0.40</td>
<td>0.11 MAX</td>
<td>0.11 MAX</td>
</tr>
<tr>
<td>70-75</td>
<td>3.30-3.20</td>
<td>0.60-0.90</td>
<td>1.00-1.60</td>
<td>0.80-1.20</td>
<td>2.00-3.00</td>
<td>0.35-0.50</td>
<td>0.11 MAX</td>
<td>0.11 MAX</td>
</tr>
<tr>
<td>75-80</td>
<td>3.25-3.50</td>
<td>0.60-0.90</td>
<td>0.70-1.10</td>
<td>1.60-1.90</td>
<td>4.00-4.50</td>
<td>0.40-0.60</td>
<td>0.50 MAX</td>
<td>0.10 MAX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hardness</th>
<th>C%</th>
<th>Mn%</th>
<th>Si%</th>
<th>Cr%</th>
<th>Ni%</th>
<th>Mo%</th>
<th>S%</th>
<th>P%</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-75</td>
<td>3.10-3.40</td>
<td>0.60-0.90</td>
<td>0.70-1.10</td>
<td>1.20-1.60</td>
<td>2.50-4.00</td>
<td>0.25-0.40</td>
<td>0.05 MAX</td>
<td>0.10 MAX</td>
</tr>
<tr>
<td>75-80</td>
<td>3.15-3.60</td>
<td>0.60-0.90</td>
<td>0.70-1.10</td>
<td>1.40-1.80</td>
<td>2.50-4.50</td>
<td>0.35-0.50</td>
<td>0.05 MAX</td>
<td>0.10 MAX</td>
</tr>
<tr>
<td>80-85</td>
<td>3.20-3.50</td>
<td>0.60-0.90</td>
<td>0.70-1.10</td>
<td>1.60-1.90</td>
<td>4.00-4.50</td>
<td>0.40-0.60</td>
<td>0.05 MAX</td>
<td>0.10 MAX</td>
</tr>
</tbody>
</table>
Our Product Range

**S.G. IRON (PEARLITIC ROLLS)**

Modular Pearlitc Rolls are widely used for hot rolling applications in different type of Roughing, Intermediate & finishing stands. The material consists of modular graphite and carbides in pearlitic matrix.

Depending on the primary requirements (Whether thermal shocks/cracks, crack penetrations or wear resistance etc..) there are variety of Cr, Ni, Mo alloyed grades used considering the rolling mill operational conditions and groove / caliber design. The carbide is relatively higher in alloyed compared with standard grades. Heat treatment improves the resistance to thermal cracks as well.

![Image of S.G. Iron Rolls with chemical composition table]

**Chemical Composition**

<table>
<thead>
<tr>
<th>Material (Pearlitic)</th>
<th>S.G.P</th>
<th>C%</th>
<th>Mo%</th>
<th>Si%</th>
<th>P%</th>
<th>Cr%</th>
<th>Ni%</th>
<th>Mo%</th>
<th>Mg%</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.G. (Pearlitic)</td>
<td>SGP-50</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>1.50-1.70</td>
<td>0.20-0.30</td>
<td>0.05-0.075</td>
</tr>
<tr>
<td>S.G. (Pearlitic)</td>
<td>SGP-60</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>1.60-1.80</td>
<td>0.20-0.30</td>
<td>0.05-0.075</td>
</tr>
<tr>
<td>S.G. (Pearlitic)</td>
<td>SGP-65</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>1.70-2.00</td>
<td>0.30-0.40</td>
<td>0.05-0.075</td>
</tr>
<tr>
<td>S.G. (Pearlitic)</td>
<td>SGP-70</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>2.00-2.50</td>
<td>0.40-0.80</td>
<td>0.05-0.075</td>
</tr>
</tbody>
</table>

![Image of S.G. Acicular Rolls with chemical composition table]

**Chemical Composition**

<table>
<thead>
<tr>
<th>Material (Acicular)</th>
<th>S.G.A</th>
<th>C%</th>
<th>Mo%</th>
<th>Si%</th>
<th>P%</th>
<th>Cr%</th>
<th>Ni%</th>
<th>Mo%</th>
<th>Mg%</th>
</tr>
</thead>
<tbody>
<tr>
<td>S.G. (Acicular)</td>
<td>SGP-65</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>1.20-1.40</td>
<td>0.09-1.10</td>
<td>2.30-2.70</td>
</tr>
<tr>
<td>S.G. (Acicular)</td>
<td>SGP-70</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>1.20-1.40</td>
<td>0.09-1.10</td>
<td>2.30-2.70</td>
</tr>
<tr>
<td>S.G. (Acicular)</td>
<td>SGP-75</td>
<td>0.30-0.60</td>
<td>0.10-0.17</td>
<td>0.015</td>
<td>0.040</td>
<td>0.40-0.60</td>
<td>1.10-1.50</td>
<td>0.09-1.10</td>
<td>2.70-3.00</td>
</tr>
</tbody>
</table>

![Contact Information]

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Our Product Range

**S.G. IRON ACICULAR ROLLS**

Modular Acicular Rolls are widely used for hot rolling applications in different type of intermediate, pre finishing and finishing group stands. The material consists of modular graphite and carbides in martensitic and bainitic matrix. SAGC Rolls are more wear resistant than modular pearlitic rolls.

Depending on the primary requirements there are variety of standard and also more alloyed used considering rolling mill operational conditions and specially wear resistance which is increasing with hardness drop if compared with standard grades considering the type of groove / caliber.
Our Product Range

**ADAMITE ROLLS & RINGS / ALLOY STEEL ROLLS**

Adamite Rolls are basically alloy steel rolls (a kind of high carbon steel) having hardness ranging from 40 degrees shore C to 55 degrees shore C with carbon percentage ranging from 1.35% to 2%. These rolls are primarily supplied for initial stands, where wear resistance is important along with considerable strength and toughness. Adequate heat treatment is very much necessary to achieve requisite wear resistance along with strength and toughness, the roll contains carbides, and therefore the wear resistance is obviously improved comparing with hypo-eutectoid and eutectoid steel, to obtain excellent comprehensive properties modification is conducted with special rare-earth or other powerful agent, then through a multi-stages heat-treatment process, that consists of briquette carbides dispersed in the matrix of pallittedized pearlitic can be gained, which perform well on strength, toughness and hot crack resistance. Full range of rolls and rings are available for structure mills, Adamite bars are also available.

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**FORGED ROLLS**

Forging wherein the material is hammered according to the customers’ sizes & requirements, is a process in which the ingot is heated in the furnace & then forged. The forging process help in cohesion and strength by elongation of the grain structure, which results in material having much higher load bearing capacities as compare to cast material. Thus these rolls being so superior in wear resistance to that of Cast Steel Rolls are specially adapted for roughing and intermediate plate mills and rod or bar mill rougher.

As such, these rolls are particularly suitable for Cold Rolling Mills, Forged Reduction/Phloxia Gears, Large Diameter Forged Shafts, All Grade Forged Cylinders, Forged Back-Up Rolls, Forged Autamobile & Crane Parts, Forged Blanks / Cranks, Roughing Stand Forged Rolls, Forged Large Diameter Pipes, Forged Rolls for Stainless Steel Mills, Forged Wheels, Forged Roll for Hot Steel Rolling Mills, Etc.

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**Microstructure of Adamite roll, 45/50 Sh Chilling spheroidised pearlitic matrix.**

<table>
<thead>
<tr>
<th>Chemical Composition</th>
<th>Grade</th>
<th>C%</th>
<th>Mn%</th>
<th>Si%</th>
<th>Cr%</th>
<th>Ni%</th>
</tr>
</thead>
<tbody>
<tr>
<td>E38</td>
<td>0.35-0.45</td>
<td>0.1-0.4</td>
<td>0.05-0.25</td>
<td>0.06</td>
<td>0.06</td>
<td>-</td>
</tr>
<tr>
<td>E39</td>
<td>0.5-0.6</td>
<td>0.1-0.4</td>
<td>0.05-0.35</td>
<td>0.06</td>
<td>0.06</td>
<td>-</td>
</tr>
<tr>
<td>E42</td>
<td>0.70-0.85</td>
<td>0.5-0.75</td>
<td>0.1-0.4</td>
<td>0.05</td>
<td>0.05</td>
<td>0.9-1.5</td>
</tr>
<tr>
<td>E49</td>
<td>0.35-0.45</td>
<td>0.5-0.8</td>
<td>0.1-0.35</td>
<td>0.05</td>
<td>0.05</td>
<td>1.0-1.6</td>
</tr>
<tr>
<td>E31</td>
<td>0.9-1.2</td>
<td>0.3-0.75</td>
<td>0.1-0.35</td>
<td>0.05</td>
<td>0.05</td>
<td>1.0-1.6</td>
</tr>
<tr>
<td>E44</td>
<td>0.35-0.45</td>
<td>0.45-0.70</td>
<td>0.1-0.35</td>
<td>0.05</td>
<td>0.05</td>
<td>0.9-1.4</td>
</tr>
</tbody>
</table>

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**FLOUR MILL ROLLS**

We have come up with wide range of Flour Mill Rolls to cater the demands of our clients. Flour mill rolls are hollow with straight bores by the centrifugal cast process to bifitted with steel spindles or complete with shrunk fit spindles. The Flour Mill Rolls are used in the grinding, breaking, cracking, rolling, reducing, flaking, crushing to make flour from: Wheat, Corn, Maize, Grains, Etc.
Our Product Range

ROLLING MILL MACHINERIES & ACCESSORIES

MILL STAND
Salient Features:
- Available in C.I. Casted
- M.S. Casted & Steel Fabricated
- Compact and simple design ensures quick roll change

Specifications:
- 3-Hi & 2-Hi stands
- Centre roll fix fibre type

FLYWHEEL
Specifications:
- C.I. or Steel Casted
- Flywheel up to 20 Dia
- Turned to Zero Eccentricity
- Dynamically Balanced

PINION STAND
Salient Features:
- Available in stress relieved steel fabricated body
- Case hardened & Ground helical Gears
- Main gears from Casted tested En Steel

Specifications:
- 3-Hi & 2 Hi pinion stands
- Ranging between 4” to 30” PCD

REDUCTION GEAR BOX
Specifications:
- Single, Double & Multi Stage reduction gear boxes as per requirement.
- Gear Box for 100HP tp 4000HP

Technical Specifications:
- Available in 130 mm roll centres to 600 mm roll centres
- Number of rolls can be 10/8 and are suitable for all types of sections.
- Straightening Machine offered by iron/Admite Rolls

COAL PULVERISERS
Specifications:
- Facilitates quick roll changing.
- Easy to install and requires minimum maintenance.

PLATE CUTTING SHEARING MACHINE
Specifications:
- Available in rigid steel fabricated body
- Gears from forged & Casted tested En steel
- Heavy duty Spherical Roller Bearings
- Strokes per minute 12-45

PINCH ROLL

Saein Pipe are developed by our highly skilled professionals using best quality material and sophisticated technology.

Salient Features:
- Cost effective, Fine finish, Quality approved
- Made from tested En 9 steel
- Complete size range

With a firm commitment to quality, our organization is engaged in offering a wide ambit of Coal Pulversers Machine.

Salient Features:
- Less maintenance
- Excellent functionality
- Simplicity

Entry Guides is available in various sizes of stainless steel to meet the requirements of engineering industries.

Salient Features:
- Durable
- Corrosion resistance
- Dimensional accuracy
- Excellent finish
- Heavyweight

PIG IRON
We are engaged in distributing, supplying and trading of Great Quality Pig Iron in Malerkaotlo, Punjab, India. Pig iron is the basic raw material for rolls. Being one of the reputed organizations in the marketplace, and backed by more than two decades of experience, we strive to provide the best in Pig iron to our prestigious clients. The assurance of our knowledgeable great quality analyst guarantees us that we make use of great quality recyclables for the production of our entire variety. Therefore, our buyers enjoy flawless items.

Saein Features:
- Precision in designing
- High tolerance power
- Extremely Efficient
- Hard wearing
- Handling heavy loads
- Low maintenance
- Made in India
- Very well tested

UNIVERSAL COUPLINGS

BEARING CHOCKS

GEAR COUPLINGS

ENTRY GUIDES

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