



|| AN ISO 9001:2015 CERTIFIED COMPANY ||

THE BENCHMARK FOR PRECISION & DURABILITY

CHOULDHRY
ROLLS CORPORATION



company profile

"Choudhry Rolls Corporation" was established in 1997 with an aim to serve 'Top Quality' Equipments & Machinery for all types of Hot Steel Re-Rolling Mills to produce TMT Bars, Tor Steel Bars, Light / Medium / Heavy Sections such as Angles, Channels, H-Beams, I-Beams, T-Iron etc. and Rolls for Flour Milling Cereal Processing, Oil Seed Crushing, Rice Flaking, Biscuit, Coffee & Chocolate Industry.

Our basic philosophy revolves around continuous improvement in Quality Standards, due to which we have been able to coincide ourselves with the ever-changing technologies & trends of steel market. This is the only reason why "Choudhry Products" have been used & accepted satisfactorily not only in the Domestic Market but also at many Overseas destinations.



our products

Our vast infrastructure bonded with Highly Dedicated Workforce Possessing Decades of hard work & experience enable us to cater a wide range of Rolling Mill Equipments such as Alloy/Non Alloy Steel & Graded Iron Castings, Forgings, Heavy Duty Flywheels, V-Belt Pulleys, Gears & Gears Boxes, Fibre & Roller Bearing Type Mill Stands, Billet & Scrap Shearing Machines C.I. / Universal / Geared Couplings, Spindles, Bearing Chocks, Alloy / Non Alloy Steel Forged Rolls, Alloy S.G. Iron & Alloy Cast Steel Rolls, I.C.C.I. Solid Rolls, D.P.C.C. Rolls, S.G. Acicular Rolls, Forged Rolls & Shafted Chill Rolls. Also all types of spares available for rolling mills.

The shafts of shafted Rolls are fitted with shrink fitting technology along with M.S. Lock nuts on both sides for annihilating the chances of loosening of shafts. The Chill Rolls produced by centrifugal casting ensure uniform surface & depth hardness which is indispensable for the high quality of Rolls.

Most importantly all the rolls supplied by us remain always free from pinholes & cracks.

ABOUT OUR COMPANY

quality policy

We believe in providing quality products at fair prices with superior customer service. We pledge to conduct business with integrity and to continue developing technology that promotes reliable service from the critical parts we supply on time. The driving force behind "Choudhry Rolls Corporation" has always been the customers. We are committed to help the customers to avoid downtime and increase profits.

Careful selection of High Graded Raw Material combined with strict Physical & Chemical Inspection, ensure to meet the prevailing market demand for international standards, Economic Prices, Enhanced Quality, Extended Life, Correct compositions of the goods supplied by us.

our vision

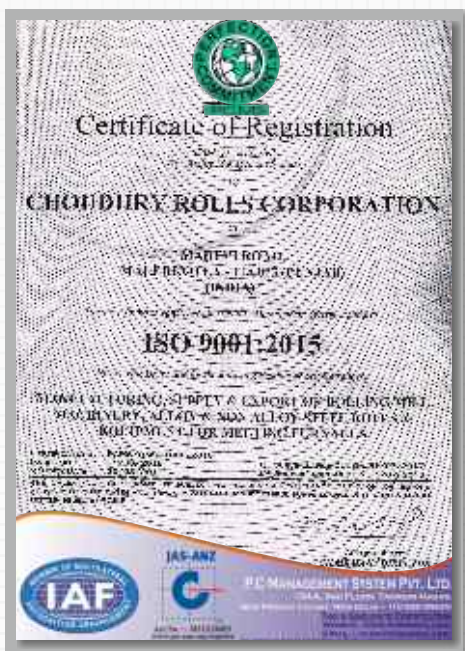
We are working hard to make Choudhry Rolls Corporation globally recognised brand in the field of Rolling Mill Equipments.

certifications.

Being a quality centric & ISO 9001:2015 Company, We always give top most priority to the quality of our products. To provide qualitative products to our esteemed clients, we strictly check the products before dispatching them. We use stringent quality checks starting from the procurement of raw materials to the finished products.



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certification
ISO
9001:2015



certification
INDUCTOTHERM
GROUP INDIA

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ROLLS CORPORATION



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infrastructure:

we have all modern infrastructure in-house, equipped with the modern technology and state-of-the art machineries for our valuable customers "choudhry rolls corporation" will become leading company for enabling user friendly rolling mills solutions for transfer of products from manufacture to consumer.



Values: **INTEGRITY:** We believe in honesty, openness, trust, respect and reliability in all we do. **EXCELLENCE:** We believe we must strive for excellence in everything we do. **INNOVATION:** We believe that innovations drive our future success. **RESPONSIBILITY:** We believe that by taking ownership and acting with commitment we will achieve sustainable success. **TEAMWORK:** We believe that connecting people and working in teams is crucial to achieving our ambitious goals.

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furnace:

We have in house facility of furnace in "Choudhry Rolls Corporation" for better performance & productivity. We brand core less melting furnaces provide superior performance and outstanding durability for all your melt shop needs, regardless of the size of your Plant.



We offer a range of furnace sizes from small induction melting furnace that meet the demanding requirement of investment casters, speciality Rolling Mills and the precious metal industry to heavy steel furnaces designed to provide maximum furnace rigidity and strength for capacities up to 100MT. Induction melting unit with tow 300 lb. hydraulically controlled inductotherm furnaces.



furnace
**IN HOUSE
FACILITY**

**IN
HOUSE
FACILITY**

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PRODUCT PACKAGING & HANDLING



WORKSHOP



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DRONE VIEW OF PLANT
CHOUDHRY ROLLS CORPORATION



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THE QUANTA GOLD+PRO SERIES COMES WITH THE FOLLOWING SALIENT CAPABILITIES



The Quanta Gold+ PRO is a compact desktop spectrometer/Metal Analyzer designed specifically for production applications. The level of short term, medium term and long-term stability achieved is unparalleled. This helps in eliminating frequent standardization and thus is ready for analysis in a jiffy. Quanta-Gold+Pro also has a quick startup feature eliminating the need for long stabilization periods. With a control panel-like software design, even an untrained operator finds it extremely easy to operate the instrument.

LEB HARDNESS TESTER



- USB communication interface
- Automatic identification of impact test direction
- Memory of 270 average testing in 9 group files
- Upper and lower limit setting
- Automatically switch off
- Back light for convenient use in darkness
- Battery capacity display
- AAA1.5V battery
- Integrated calibration function
- TH170: integrated with D impact device for normal hardness testing
- TH172: integrated with C impact device for hardness testing on thin, light and face-hardened work pieces
- TH174: integrated with DL impact device for hardness testing of deep grooves and tooth surface

THE **MARK** FOR
PRECISION & DURABILITY
CHOUDHRY ROLLS CORPORATION
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**METAL
IS WHAT
YOU MAKE
OF IT...**

We are capable of producing rolls weighing up to 6
MT with diameters ranging
from 150 mm to 600 mm
for a wide range of applications. Some of these are :



RANGE OF APPLICATIONS

While we are capable of producing rolls weighing up to 6 MT with diameters ranging from 150mm to 600mm. As per requirement of customer we are increasing our range in feature.

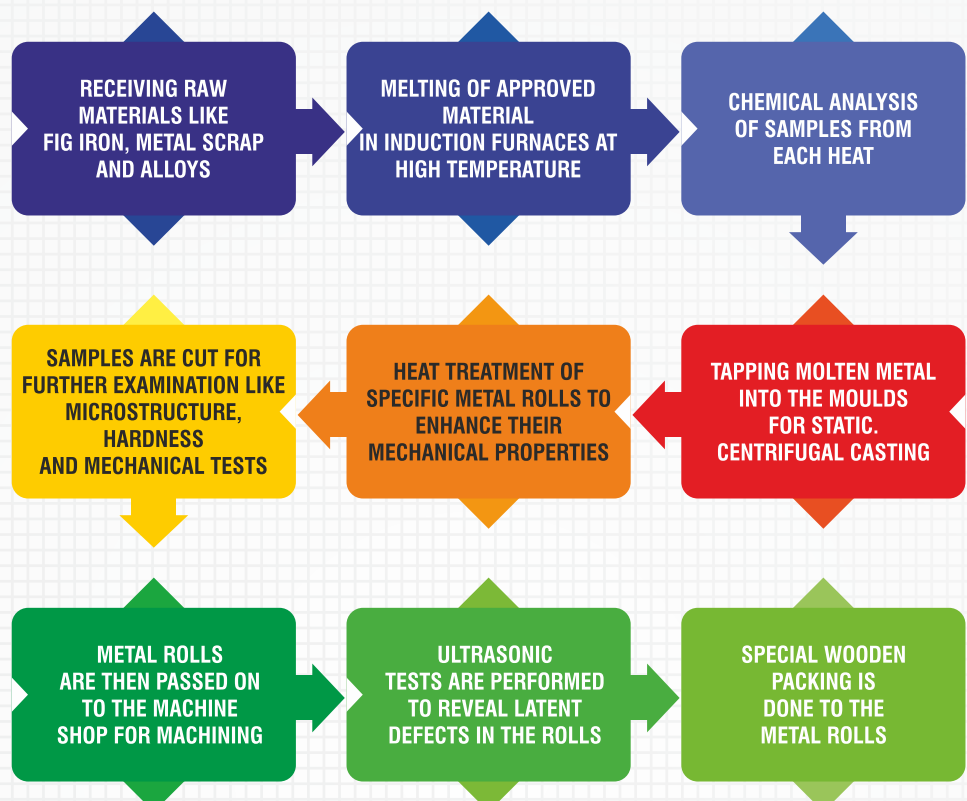
Various qualities of Metal Rolls are cast depending upon the application of these rolls. Some of the qualities are:

- Spheroidal Graphite Pearlitic Iron Roll
- Spheroidal Graphite Accicular Iron Rolls.
- Adamite Rolls (Alloy Steel Base)
- Steel Rolls (Alloy Cast & Alloy Steel Base)
- Indefinite Chill Cast Iron Rolls
- Double Poured Indefinite Chill Rolls.
- Centrifugally Cast Metal Rolls.
- Hollow & Solid Rolls (for non-metallic applications)

These Metal Rolls are made mainly for the following applications.

- Hot Steel Rolling Mills
- Cold Steel Rolling Mills
- Paper Calendering
- Rubber Mixing & Calendering
- Seamless Tube Rolling
- Solvent Extraction Through Cracking & Flaking
- Compound Mixing in Soap, Chocolate, Paint Industries.
- Stem Flattering Machines for Tobacco Industries
- Sugar & Salt Milling
- Textile Calendering.

MANUFACTURING PROCESS



D.P.I.C. ROLLS (DOUBLE POURED Indefinite Chill Cast Iron Rolls)

These Metal Rolls have hard alloy iron on the working layer and the core is either made of soft grey iron or nodular iron as application demands. The matrix generally is bainitic with equal distribution of carbides and graphite on the shell.

Due to the Nodular core and highly alloyed surface these Rolls have excellent mechanical properties, strength, high wear resistance, good surface finish and resistance to shock/thermal/mechanical loads. These Rolls are produced by spin and static cast together.

Product Applications :

- Wire rod finishing rolling.
- Flat products rolling in Hot strip and Plate Mills.
- Cold rolling of non-ferrous sheets.

Size Limitation :

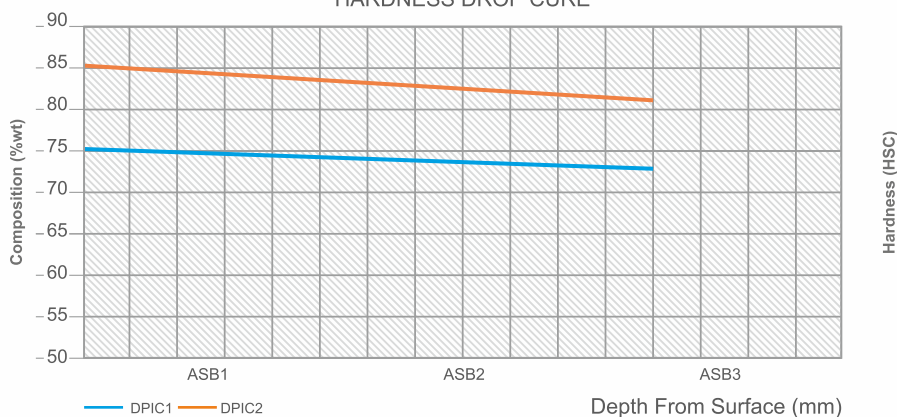
- Maximum : 600 mm diameter
- Minimum : 150 mm diameter



Shell microstructure comprising Bainite
Magnification : 500 X



INDEFINITE CHILL ROLLS HARDNESS DROP CURVE



C	Mn	Si	P	S	Ni	Cr	Mo
3.10-3.50	0.60-0.80	0.80-1.00	0.08	0.03	2.50-3.50	1.00-2.00	0.20-1.00



SPHEROIDAL GRAPHITE CAST IRON ROLLS (Nodular Iron Rolls)

These static cast Rolls are structurally characterized by nodular graphite. High Tensile strength and deep hardness penetration are few properties that nodular graphite gives these Metal Rolls. Because of excellent mechanical & material properties these Metal Rolls are capable of withstanding heavy loads and hence these Rolls are used in various Mills that produce different products. These Rolls are structurally made up of cementite and nodular graphite. Sufficient water cooling is a necessity for satisfactory performance.

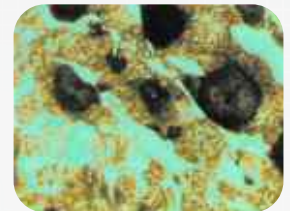
1. Pearlitic and 2. Bainitic Accicular can be made by alloying with nickel, molybdenum and chromium for added strength and deep hardness penetration.

Product Applications :

- Blooming, section and wire rod roughing.
- Wire rod roughing and intermediate rolling.
- Plate intermediate and finish rolling.
- Roughing, intermediate and finishing for Rail and Structural mills.

Size Limitation :

- Maximum : 600 mm diameter
- Minimum : 150 mm diameter

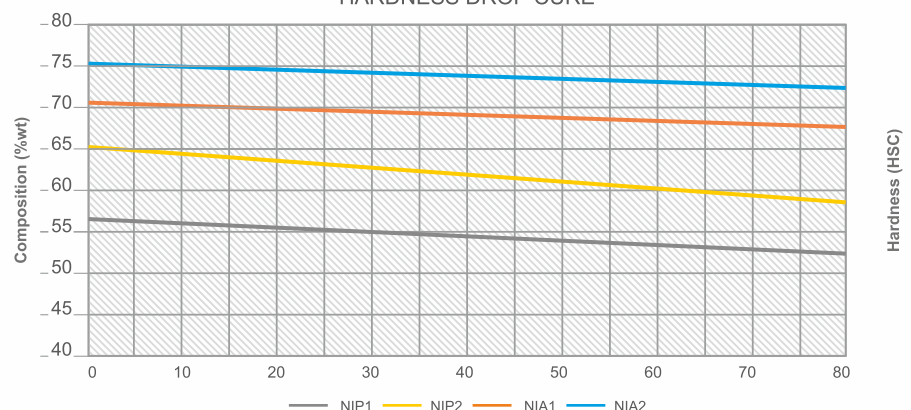


Shell microstructure comprising Bainite
Magnification : 500 X



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SPHEROIDAL GRAPHITE CAST IRON ROLLS (NODULAR IRON) HARDNESS DROP CURVE



C	Mn	Si	P	S	Ni	Cr	Mo
3.10-3.40	0.50-0.80	1.40-1.60	.060Max	0.02Max	1.00-2.00	0.50-0.80	.20-.40

ALLOY CAST STEEL ROLLS

These Metal Rolls have less carbon content but variety of alloy elements are used to strengthen the matrix. The microstructure is primarily pearlite with parts of cementite.

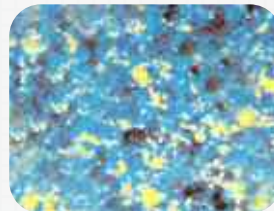
Their properties include high tensile strength and toughness. After the tailored heat treatment process, the micro structure condition improves thereby complimenting good mechanical properties like good thermal cracking resistance, fatigue resistance and wear resistance.

Product Applications :

- Medium and small blooming rolling.
- Section roughing rolling.
- Section strip wire rod rough and intermediate rolling.
- Billets rough rolling mill and rail beams.

Size Limitation :

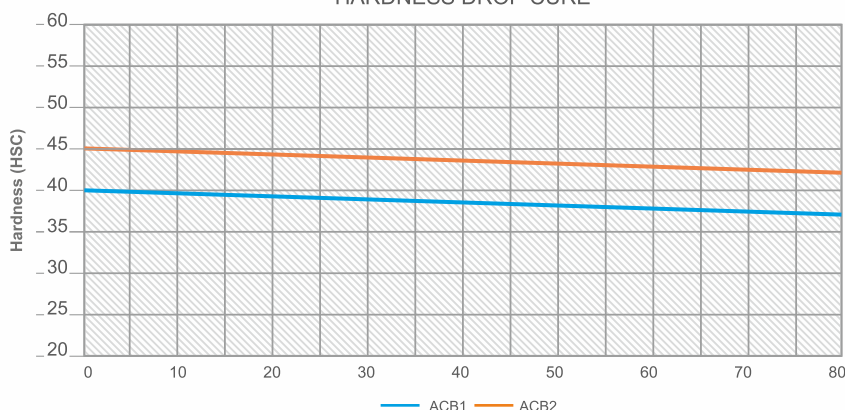
- Maximum : 600 mm diameter
- Minimum : 150 mm diameter



Shell microstructure comprising Bainite
Magnification : 500 X



ALLOY CAST STEEL ROLLS HARDNESS DROP CURVE



C	Mn	Ni	Cr	Mo	Si	Hardness
1.60-1.70	0.80-1.00	0.70-1.00	1.50-1.70	0.20-0.30	0.70-0.90	40-45



I.C.C.I. ROLLS (Indefinite Chilled Cast Iron Rolls)

The surface of these Rolls have Chill with various alloys and are cast iron based. The matrix structure is pearlitic or bainitic depending on the alloys and its percentage. High alloy content gives uniform carbide distribution and fine deposits of graphite on the microstructure.

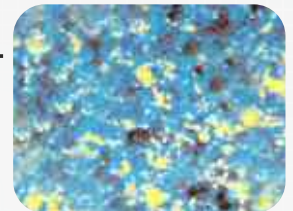
Desired hardness of these Rolls can be obtained by controlling the chemical composition and using different casting method according to the application. These rolls produce excellent results in plate and section finishing.

Product Applications :

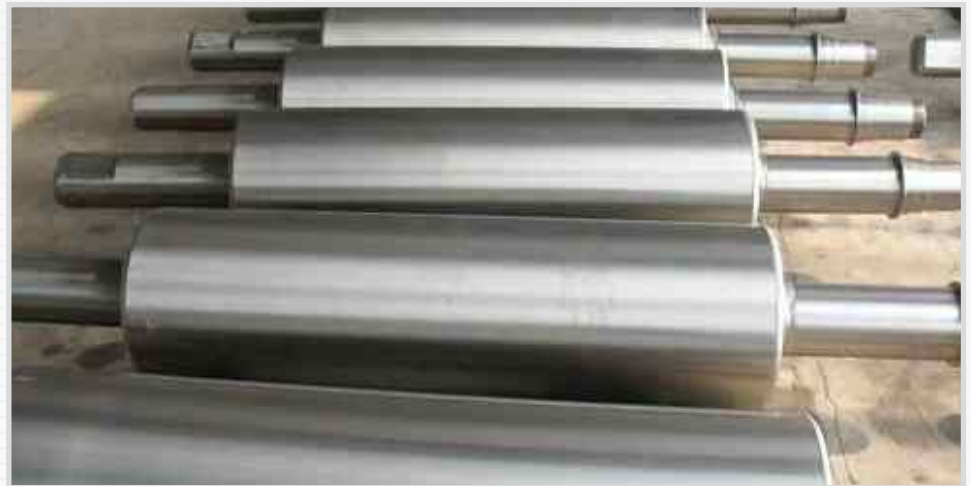
- Sheet, plate and strip finishing rolling.
- Section and bar intermediate and finishing rolling.
- Wire rod intermediate and finishing rolling.
- Can be used in cold rolling mills for sheets.

Size Limitation :

- Maximum : 600 mm diameter
- Minimum : 150 mm diameter



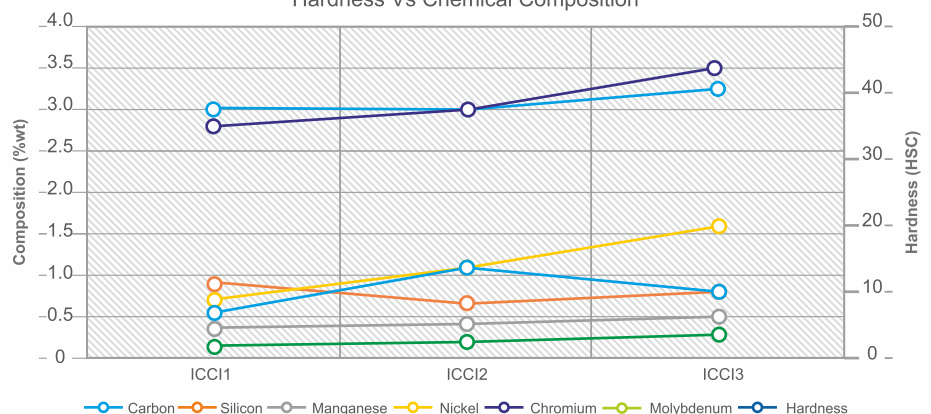
Shell microstructure comprising Bainite
Magnification : 500 X



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I.C.C.I. ROLLS

Hardness Vs Chemical Composition



C	Mn	Ni	Cr	Mo	Si	Hardness
3.20-3.40	0.30-0.60	1.70-2.50	0.55-0.90	0.70-.90	.80-1.10	60-70

ADAMITE STEEL ROLLS

Adamite Steel Rolls are mainly composed of fine pearlitic matrix with some cementite in the structure. The structure consists of well broken up and dispersed carbides in a pearlitic matrix complementing the hardness and wear resistance imparted by highly alloyed matrix.

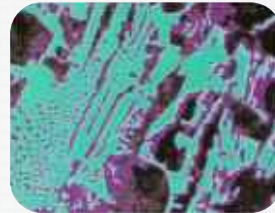
They typically have great strength, good thermal properties and high wear resistance. Unlike other Metal Rolls, these have uniform hardness from the surface to the depth which makes them very special. Hardness of these Rolls is maximum amongst the steel based Rolls. These Rolls are statically cast and go through multi stage heat treatment process (Annealing) followed by Tempering phases in order to develop the combination of hardness, toughness and wear resistance required for heavy duty wear applications.

Product Applications:

- Section finishing, wire rod intermediate rolling.
- Roughing stands of strip mills.
- Medium and small blooming rolling
- Wire rod and bar steel roughing.

Size Limitation:

- Maximum: 600mm diameter
- Minimum: 150mm diameter

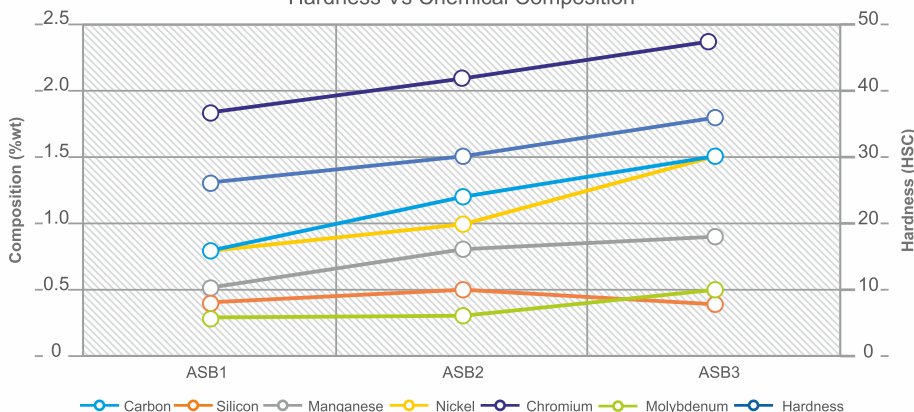


Shell microstructure comprising Bainite
Magnification : 500 X

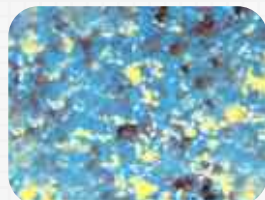


Adamite Rolls (Alloy Steel Base)

Hardness Vs Chemical Composition



C	Mn	Si	Ni	Cr	Mo	Hardness
1.60-1.70	0.80-1.00	0.70-1.00	0.80-1.20	0.20-0.30	0.30-0.50	45-50



Shell microstructure comprising Bainite
 Magnification : 500 X

CHEMICAL COMPOSITION

C	Mn	Ni	Cr	Mo	Si	Hardness
3.20-3.40	0.30-0.60	2.00-2.50	0.55-0.90	.40-.50	1.20-1.50	65-70



S.S.G. IRON ROLLS



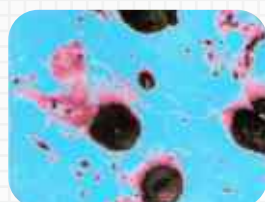
Shell microstructure comprising Bainite
 Magnification : 500 X

CHEMICAL COMPOSITION

C	Mn	Si	Ni	Cr	Mo	Hardness
3.20-3.40	0.70-0.80	1.20-1.50	2.50-3.50	.60-.90	.60-.80	70-75
3.20-3.40	0.70-0.80	1.20-1.50	3.00-4.00	.50-.80	.80-1.10	75-80



S.G. ACCICULAR ROLLS



Shell microstructure comprising Bainite
 Magnification : 500 X

CHEMICAL COMPOSITION

Hardness: 70-75



MULTI BEARING ROLLS

MULTI BEARING ROLLS

There are many kinds of rolling mills for producing long products. Therefore, the selection range of rolling mill type, roll material, and roll size is very wide. At the same time, the rolls selected by different rolling mills are also different, so it is necessary to select rolls according to the production requirements.

ROLLS FOR FOOD INDUSTRY

The main properties required for these Rolls is hardness, crack resistance and long life. Indefinite chilled cast iron Rolls are preferred that have uniform Chill with chill depth between 12-15mm in most applications(Higher Chill also offered depending on application). Roll material selection for the food industry is the Indefinite Chilled Cast Iron Roll.



Roll applications include:

- Cracking
- Crushing
- Milling
- Mixing

Our rolls can also be used for processing items such as:

- Flour
- Cereal
- Salt
- Cattle-feed
- Edible-oil
- Chocolate
- Cocoa

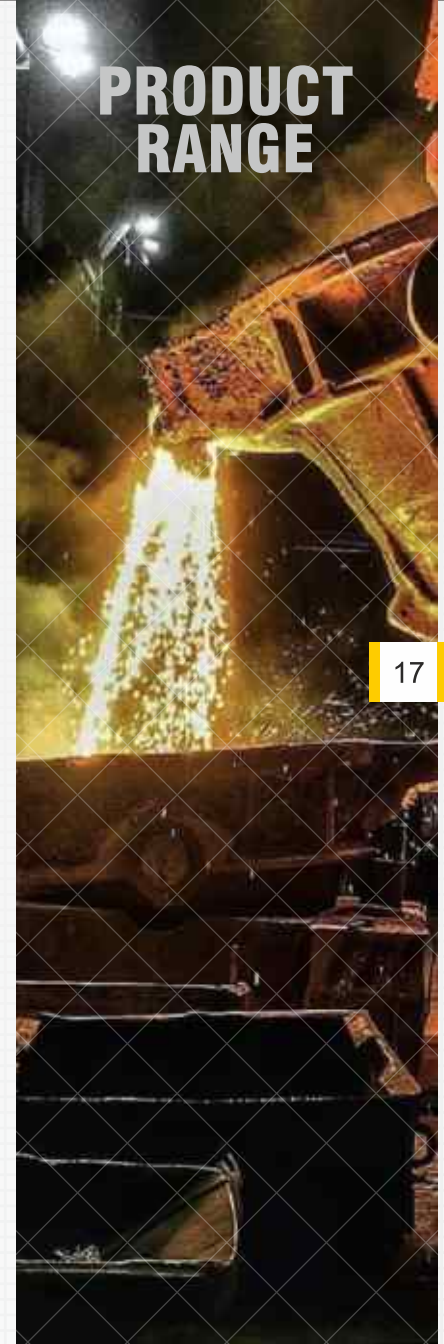
Size Limitations for the above rolls are :

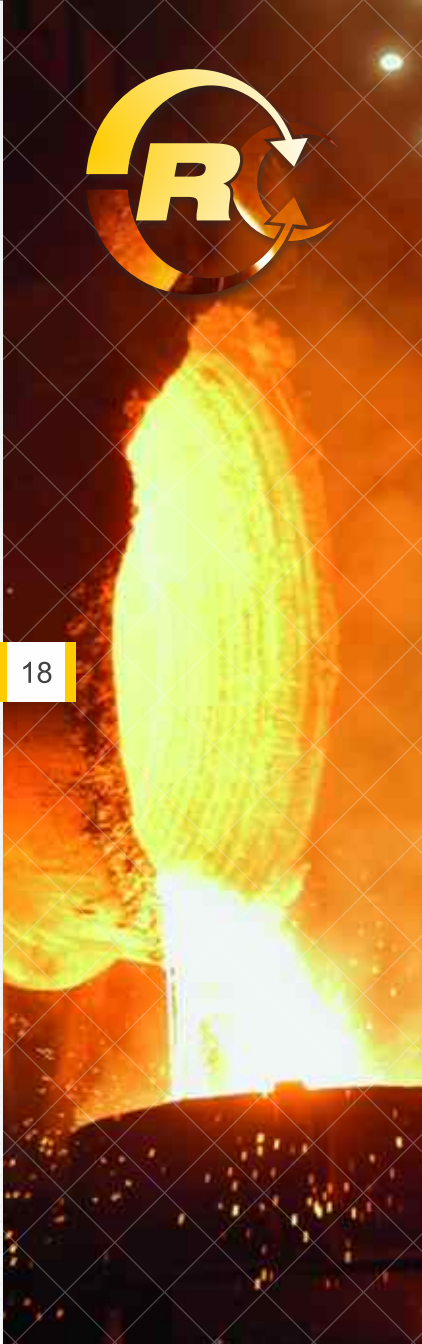
- Maximum : 600 mm diameter
- Minimum : 150 mm diameter

FLOUR MILL ROLLS



Chilled Cast Iron Rolls / Flour Mill Rolls are the most important machinery part of any flour mill. Good quality mill rolls are the key to success for any flour mill. Therefore our flour mill rolls can help you in achieving your success goals.





CRACKER ROLL FOR OIL INDUSTRY



CRACKER
ROLLS

Cracker Rolls for cracking / crushing of Oil Seeds, etc. Cracking Mill Rolls are one of the important machinery parts of oil seed extraction plants (from soyabean, canola, copra, palm kernel), feedlots or breakfast cereals industry, etc. Therefore, they need to be of highest quality standards.

ANIMAL FEED ROLLS



ANIMAL FEED
ROLLS

Customers can buy rolls manufactured by German Technology & Standards from our production facilities. As a result, ensures high performance crumbler rolls for pellet crumbling mills & crushing rolls for other industries. These crumbler rolls can be used in animal feed mills, stockfeed, charcoal, activated carbon.

FLAKER ROLLS

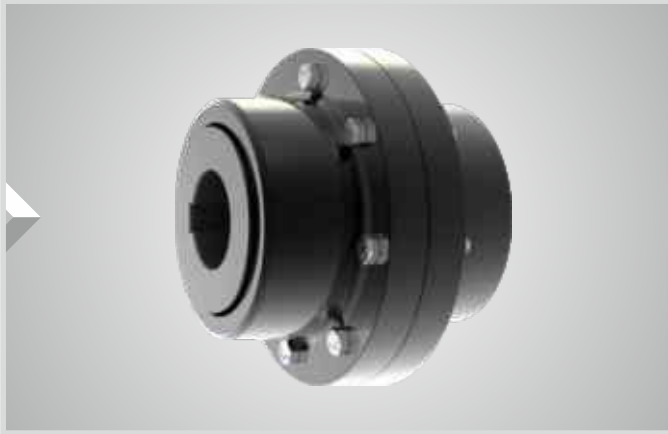


FLAKER
ROLLS

Flaker Rolls for Flaking of Oil Seeds, Feed and Breakfast Cereals etc. Flaking Mill Rolls, called the heart of the oil seed extraction plants. We can use the Flaker Rolls for flaking of soybean, canola, copra, palm kernel, feedlots and breakfast cereals.

GEAR COUPLING

GEAR COUPLING



Gear couplings are made up of hubs which attach to the machinery shafts, and sleeves that span the gap from one hub to the next. Its own sleeve which in turn bolts to the other half or other side of the coupling.

BEARING CHOCKS

BEARING CHOCKS



Good material and high degree of wear resistance. The bearing chock is made from best material guarantee the quality of the finished product. The bearing seat can still keep stable and effective and less loss in high-load and long time operating through the practice of inspection.

GUIDE BOXES

GUIDE BOXES



Choudhry Rolls corporation gives wide range of Roller Guide Box, That can be used for continuous rolling operation, where the stock being rolled is properly twisted between each two adjacent rolling mills. These boxes are offered with heavy duty taper roller bearing for larger sections.





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Head Office

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Factory

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Unit-3

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