

HANSCO[®]

IRON & STEELS PVT. LTD.

An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Co.



Consistent Impeccable Quality

- **ALLOY STEEL (ADAMITE) ROLLS**
- **SGI / NODULAR ROLLS**
- **STEEL CASTINGS**
- **SS CASTINGS IN ALL GRADES**

About us

The promoters of the company has more than three decades of experience in the field of manufacturing Rolling Mill Rolls in Alloy Steel Adamite and SG Iron for rolling different shapes, sections Rounds, Bars Strips, Flats, TMT (Thermo Mechanically Treated) Bars etc.

Under the dynamic leadership of Sh. Subhash Bansal alongwith the next generation Manu Bansal (B.E., Mech.) and Vivek Bansal (M.B.A., Finance) who are technically qualified and experienced, have come with a new manufacturing unit with latest technology and infrastructure to cater to the growing demands of all types of rolling mills which include Fully Automatic, Semi and conventional units.

Quality & Infrastructure

The unit is installed in an area of 52000sq.yards which houses the latest technology and equipment which includes

1. Two Induction Furnaces of 7 Ton and 1 Ton capacity capable of manufacturing upto 50 MT single piece casting.
2. Complete chemical Lab and In house Spectrometer (Thermo ARL) with 25 channels along with capability to test NITROGEN.
3. In house Heat Treatment facility equipped with most modern temperature control equipment to ensure proper Heat Treatment (Stress Relieving, Normalising, Annealing and Tempering) for different grades of Rolls, Castings and Forgings.
4. In house machine shop which includes Lathes, VTL's and Gear Hobber for supply of Rolls and Castings in Proof machined and Finish machined condition.
5. Physical testing lab with Electronic Tensile Testing Machine, Impact Testing Machine, Hardness Testing Equipment and Ultrasonic Flaw Detector.
6. In house pattern shop with Planer and band saw to ensure proper and in time manufacture of patterns in the factory premises.

With wide range of manufacturing capabilities, we serve to the following industries:

- Rolling Mills
- Sugar Mills
- Cement Plants
- Rubber Mills
- Power Plants
- Hand Tools Industry

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SPECTROMETER



Rolls

(Alloy steel (Adamite) and S.G.Iron/Nodular)

We are one of the most experienced and technically sound in understanding the requirements of rolls for different rolling mills, we can suggest, manufacture and supply Quality rolls as per requirements for today's modern rolling mills and meet stringent demands in quality and stability.

High Quality liquid metal with precise chemical composition (Treated with Argon Gas) and different heat treatment cycles ensures the manufacture of quality rolls.

Alloy Steel (Adamite)

Cr-Ni-Mo Alloyed Rolls and Rings/Reels

This is one of the most commonly used grade in Re-Rolling Mills for rolling of various sections in different stands.

The strength of these Rolls is enhanced with addition of various alloys like Nickel, Chromium and Molybdenum.

Further these rolls undergo various heat treatment cycles which adds to their strength, results in high resistance to abrasion and thermal fatigue.

Being casted in single piece with uniform chemical composition and proper heat treatment cycle, these rolls have an important feature that the 'hardness' is almost uniform throughout the working life which ensures roll gap consistency and results in complete flexibility during operations.

Applications: These rolls are widely used in today's challenging rolling conditions in different types of Automatic, Semi Automatic and Conventional Re-Rolling mills rolling different shapes and sections which include Angles, Channels, Girders, H-Beams, Bars, Rounds TMT Bars etc.

These are ideal for Roughing, Intermediate and Finishing Stands of heavy to light Section Mills and Roughing and Intermediate Stands of Bar and Rod mills.

Constant hardness profile is the reason these rolls are ideal where deep grooves exist and thus ensure roll gap consistency and reducing the down time considerably.

Adamite Rolls for Roughing Stands (Grade 35-40)

To reduce the increasing costs of labour and down time we have developed a special Alloy Steel (Adamite) grade for Roughing Stands for Rolling of different sections. The grade developed with continuous research and special heat treatments can give life as much as 4 times and even more than the conventional forged rolls and hence costs even less than half the price of the Forged Rolls thus results in reduction in downtime and saving of precious man hours.

It is due to the above that we are receiving repeated orders from our customers who use these rolls.



Spheroidal Graphite Iron Rolls (Nodular Pearlitic/ Bainitic Acicular)

Description : In these Rolls the graphite is in the form of Spheroids produced by suitable inoculation.

Most nodular iron rolls are chill cast resulting with a hard working layer and softer necks.

The alloy content is accurately controlled to give fine and well distributed graphite nodules and refined carbide in generally pearlitic or bainitic /martensitic matrix. The higher alloy content Cr-Ni-Mo makes the Rolls tougher and wear resistant.

Applications :

PEARLITIC : Excellent combination of neck strength and wear resistance in this grade of rolls has been standard choice for roughing to intermediate and prefinishing stands in bar and rod mills and light to medium section mills

ACICULAR : High Alloy content makes this grade better in quality & the superior wear resistance and toughness makes it ideal for Finishing Stands in almost all application of Bar, Rod and Light to Medium Section Mills.



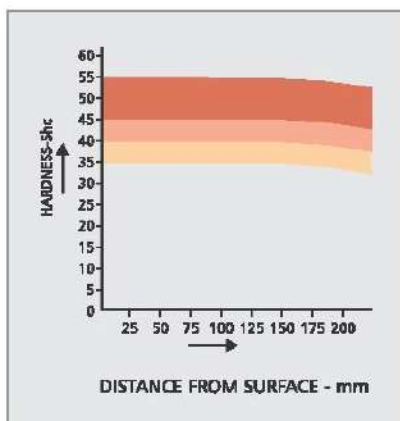
Indefinite Chill Alloy Cast Iron

These are cast iron based rolls alloyed with Nickel, Chromium and Molybdenum.

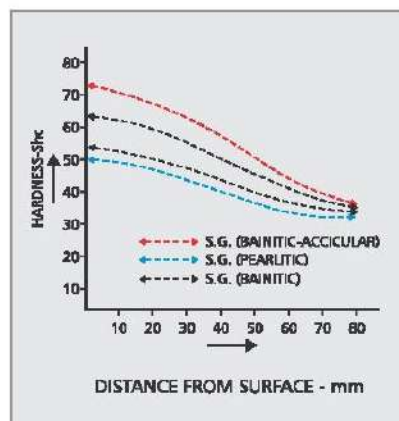
These have very good thermal properties and provide a better surface finish to the material.

Applications : These are mainly used in Finishing Stands of Bar, Rod and TMT Mills.

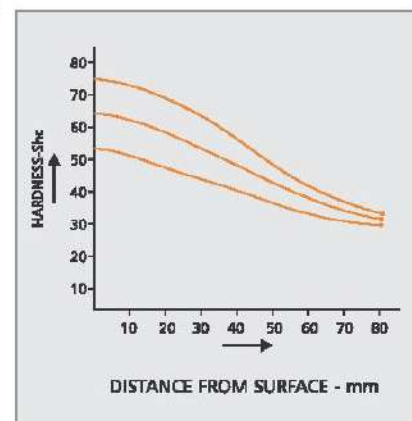
Hardness profile of various grades



Alloy Steel (Adamite)



Spheroidal Graphite Iron



Indefinite Chill Alloy Cast Iron

Steel Castings

We manufacture steel castings in as cast, proof machined and finish machined condition for various heavy engineering applications which include :-

- **Steel Plants** : Chocks, Entry Traverse, Table Frame, Yokes, Extractor Head, Slag Ladle Cups & Paw Castings etc.
- **Sugar Industry** : Pinions (IS1030, IS2708 (Gr I, II, III, IIIB), IS2644 etc., Blank Gears, Trash Plates, Couplings, Trash Beams and Sprockets, Bearing Housing etc.
- **Rolling Mill Industry** : Alloy Steel Adamite & SGI Rolls, Mill Stands, Caps, Rest Bars, Fly Wheels (Running at high rpm (700 rpm), Couplings, Gear Couplings, Boxes, Pinions for Reduction Gear Boxes, Conveyor Rolls.
- **Cement Mill Industry** : Mill Heads, Tyres, Girth Gears etc. in all grades.
- **Sponge Iron Industry** : Girth Gears, Kiln Tyres, Cooler Tyres, Support Rollers etc.
- **Material Handling Industry** : All types of Gears, Pinions and other steel castings as per specifications.
- **Hand Tools Industry** : Shaker Hearth Trays
- **Rubber Industry** : Casted Screws, Gears, Mill Stands, Housings, Bearings (Water Cooled) .

Bridge bearings and plates for Flyovers, Bridges and Ship Bollards.

And any other Steel Castings, Forgings & machinery parts as per requirement and specifications.

We also undertake refurbishing heat treatment and repair of runners (Francis & Pelton), Gears, Pinions and other spares which include welding heat treatment & further machining.

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Steel Castings for Paper Industry

HANSCO is one of the leading manufacturer of Steel Castings for Paper Mill Industry (Press Rolls / Pipes) in various Grades like IS 1030, IS 2708 and many other grades as per requirement of customers.

With in-house complete Machine Shop we are capable of supplying the Steel Castings in As Cast, Proof Machined as well as Finish Machined Condition.

We are manufacturing Steel Casting of Paper Mill Rolls for various Paper Machinery Manufacturers located all over the country in various Lengths & Diameter weighing upto 50 MT Single Piece.



Infrastructure & Facilities :

- TWO INDUCTION FURNACES
 - ONE 7 MT FURNACE
 - ONE 1000 KG FURNACE FOR SPECIAL CASTINGS
- SINGLE PIECE CASTING FROM 10 KG TO 50 MT
- IN HOUSE COMPLETE CHEMICAL & PHYSICAL LABS
- INSTALLED IN 52000 SQ. YARD AREA
- IN HOUSE MACHINE SHOP.
- IN HOUSE PATTERN SHOP.
- TWO HEAT TREATMENT FURNACES FOR STRESS RELIEVING, NORMALIZING, ANNEALING, TEMPERING & WATER QUENCHING FACILITIES.



Quality Control :

- ARL Spectrometer (Swiss-Technology)
- COMPUTERIZED TENSILE TESTING MACHINE
- IMPACT TEST MACHINE
- HARDNESS TESTING EQUIPMENT
- ULTRASONIC FLAW DETECTOR
- MPI (MAGNETIC PARTICLE FLAW DETECTOR)

Industries Served :

- | | |
|------------------------------|-----------------------|
| • MATERIAL HANDLING INDUSTRY | • AUTOMOBILE INDUSTRY |
| • ROLLING MILLS | • SUGAR MILLS |
| • SPONGE IRON INDUSTRY | • CEMENT MILL PLANTS |
| • HAND TOOLS INDUSTRY | • RUBBER PLANTS |
| • THERMAL PLANTS | • POWER PLANTS |
| • STEEL PLANTS | • PAPER MILLS |

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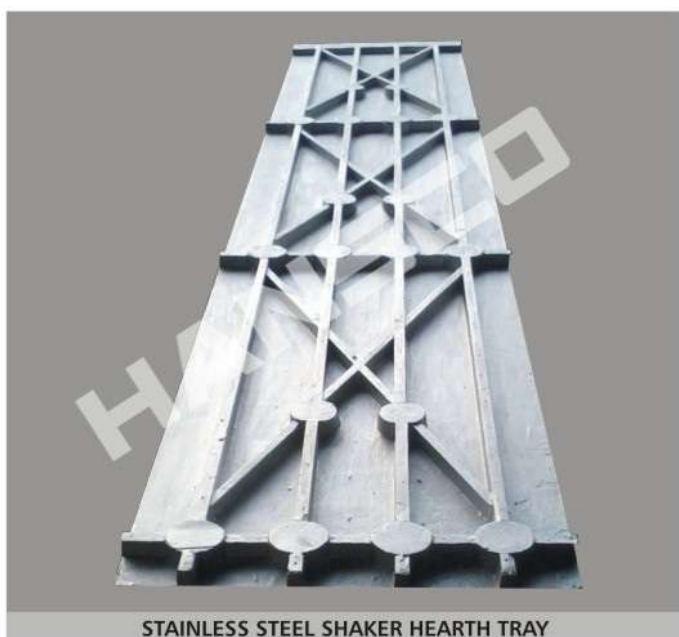
Mfrs. of : Alloy Steel Ingots, Alloy Steels (Adamite) Rolls, S.G. Iron Rolls, Steel Castings & S.S. Castings in all grades

Stainless Steel Castings for Hand Tool Industry / Forging / Automobile Industry

Stainless Steel Castings & Shaker Hearth Trays

Along with manufacturing of various Alloy Steel Castings & Rolls we also manufacture a wide range of Stainless Steel Castings which include Shaker Hearth Trays & Quenching Trays in different grades like **ASTM 309, 310, 316, 304, CA6NM, 401, 402 etc. and HN, HH, HK, HU Alloys & High Carbon (C) High Chrome (Cr) Steel Castings.**

Various other type of Stainless Steel Castings include SS Turbine, Rotors for Hydraulic Turbines (which include Francis Runner, Pelton Wheel etc.)



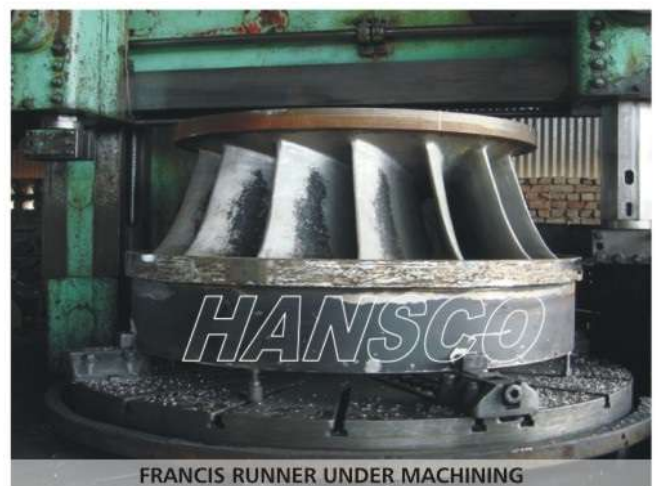
STAINLESS STEEL SHAKER HEARTH TRAY



STAINLESS STEEL SHAKER HEARTH TRAY



STAINLESS STEEL QUENCHING TRAY



FRANCIS RUNNER UNDER MACHINING



STAINLESS STEEL PELTON WHEEL UNDER HEAT TREATMENT

Infrastructure & Facilities :

- TWO INDUCTION FURNACES
 - ONE 7 MT FURNACE
 - ONE 1000 KG FURNACE FOR SPECIAL CASTINGS
- SINGLE PIECE CASTING FROM 10 KG TO 50 M.T.
- IN HOUSE COMPLETE CHEMICAL & PHYSICAL LABS
- INSTALLED IN 52000 SQ. YARD AREA
- IN HOUSE MACHINE SHOP.
- IN HOUSE PATTERN SHOP.
- TWO HEAT TREATMENT FURNACES FOR STRESS RELIEVING, NORMALIZING, ANNEALING, TEMPERING & WATER QUENCHING FACILITIES.

Quality Control :

- ARL Spectrometer (Swiss-Technology)
- COMPUTERIZED TENSILE TESTING MACHINE
- IMPACT TEST MACHINE
- HARDNESS TESTING EQUIPMENT
- ULTRASONIC FLAW DETECTOR
- MPI (MAGNETIC PARTICLE FLAW DETECTOR)

Industries Served :

- | | |
|------------------------------|-----------------------|
| • MATERIAL HANDLING INDUSTRY | • AUTOMOBILE INDUSTRY |
| • ROLLING MILLS | • SUGAR MILLS |
| • SPONGE IRON INDUSTRY | • CEMENT MILL PLANTS |
| • HAND TOOLS INDUSTRY | • RUBBER PLANTS |
| • THERMAL PLANTS | • POWER PLANTS |
| • STEEL PLANTS | • PAPER MILLS |



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Mfrs. of : Alloy Steel Ingots, Alloy Steels (Adamite) Rolls, S.G. Iron Rolls, Steel Castings & S.S. Castings in all grades

Steel Castings for Cement Mill Plants & other Smelters and Mining Industries:-

HANSCO is one of the leading manufacturer of Steel Castings for Cement Mills.

We manufacture Steel Casting in various Grades for Cement Mill Machinery Parts like IS:2708 , IS 2644, IS:1030, EN-8, EN-9, EN-19 ,EN-24 DIN 1681 - GS-52, EN 10293 -GE260 , GS-24Mn5, GS30CrMo4 , GS 34CrMo4 which include Kiln Tyres, Support Roller, Girth Gears, Thrust Roller, Ball Mill Heads etc.

With our Well Qualified & Experienced Engineers, we are ready catering to various Cement Mill manufacturing all over the country.

HANSCO[®]
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KILN TYRE



BALL MILL HEAD

CONSISTENT IMPECCABLE QUALITY

Infrastructure & Facilities:

- ▶ TWO INDUCTION FURNACES
 - » ONE 7 MT FURNACE
 - » ONE 1000 KG FURNACE FOR SPECIAL CASTINGS
 - » ONE 25MT HOLDING FURNACE
- ▶ SINGLE PIECE CASTING FROM 10 KG TO 50000 KG (50MT)
- ▶ IN HOUSE COMPLETE CHEMICAL & PHYSICAL LABS (WHICH INCLUDE ULTRASONIC , MPI , UTM , IMPACT ETC).
- ▶ INSTALLED IN 52000 SQ. YARD AREA
- ▶ IN HOUSE MACHINE SHOP.
- ▶ TWO HEAT TREATMENT FURNACES FOR STRESS RELIEVING, NORMALIZING, ANNEALING, TEMPERING & WATER QUENCHING FACILITIES.
- ▶ NINE OVERHEAD CRANES OF 50 MT ,25MT, 20MT x 3 NOS, 15MT , 10MT & 2 NOS 5MT WITH MAGNETS.

Quality Control:

- ▶ ARL Spectrometer (Swiss-Technology)
- ▶ COMPUTERIZED TENSILE TESTING MACHINE
- ▶ IMPACT TEST MACHINE
- ▶ HARDNESS TESTING EQUIPMENT
- ▶ ULTRASONIC FLAW DETECTOR
- ▶ MPI (MAGNETIC PARTICLE FLAW DETECTOR)



MILL HEAD

Other Industries Served:

- | | |
|------------------------------|---------------------|
| • MATERIAL HANDLING INDUSTRY | AUTOMOBILE INDUSTRY |
| ▶ ROLLING MILLS | SUGAR MILLS |
| ▶ SPONGE IRON INDUSTRY | CEMENT MILL PLANTS |
| ▶ HAND TOOLS INDUSTRY | RUBBER PLANTS |
| ▶ THERMAL PLANTS | POWER PLANT |
| ▶ STEEL PLANTS | PAPER MILLS |
| • PRESSES | CRUSHING MACHINERY |

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Mfrs. of : Alloy Steel Ingots, Alloy Steels (Adamite) Rolls, S.G. Iron Rolls, Steel Castings & S.S. Castings in all grades

Steel Castings for Crushing & Mining Industries:-

HANSCO is one of the leading manufacturer of Steel Castings for Crushing & Mining Industries.

We also manufacture Steel Casting in various Grades for Crushing Machinery Parts like IS:2708 , IS 2644, IS:1030, EN-8, EN-9, EN-19 ,EN-24, WCB, DIN 1681 - GS-52, EN 10293 - GE260 , GS-24Mn5, GS30CrMo4 , GS 34CrMo4 etc which include Lower Body , Upper Body, Mantle Head, Pitman, Gears ,Pulley for conveyer , flywheel etc.

With our Well Qualified & Experienced Engineers, we are ready catering to various Crushing Machinery manufacturing all over the country.



Infrastructure & Facilities:

- ▶ TWO INDUCTION FURNACES
 - » ONE 7 MT FURNACE
 - » ONE 1000 KG FURNACE FOR SPECIAL CASTINGS
 - » ONE 25 MT HOLDING FURNACE
- ▶ SINGLE PIECE CASTING FROM 10 KG TO 50000 KG (50MT)
- ▶ IN HOUSE COMPLETE CHEMICAL & PHYSICAL LABS (WHICH INCLUDE ULTRASONIC , MPI , UTM , IMPACT ETC).
- ▶ INSTALLED IN 52000 SQ. YARD AREA
- ▶ IN HOUSE MACHINE SHOP.
- ▶ TWO HEAT TREATMENT FURNACES FOR STRESS RELIEVING, NORMALIZING, ANNEALING, TEMPERING & WATER QUENCHING FACILITIES.
- ▶ NINE OVERHEAD CRANES OF 50 MT ,25MT, 20MT x 3 NOS, 15MT , 10MT & 2 NOS 5MT WITH MAGNETS.

Quality Control:

- ▶ ARL Spectrometer (Swiss-Technology)
- ▶ COMPUTERIZED TENSILE TESTING MACHINE
- ▶ IMPACT TEST MACHINE
- ▶ HARDNESS TESTING EQUIPMENT
- ▶ ULTRASONIC FLAW DETECTOR
- ▶ MPI (MAGNETIC PARTICLE FLAW DETECTOR)



FRAME

Other Industries Served:

- | | |
|---|---|
| <ul style="list-style-type: none"> • MATERIAL HANDLING INDUSTRY <ul style="list-style-type: none"> ▶ ROLLING MILLS ▶ SPONGE IRON INDUSTRY ▶ HAND TOOLS INDUSTRY ▶ THERMAL PLANTS ▶ STEEL PLANTS • PRESSES | <ul style="list-style-type: none"> AUTOMOBILE INDUSTRY SUGAR MILLS CEMENT MILL PLANTS RUBBER PLANTS POWER PLANT PAPER MILLS CRUSHING MACHINERY |
|---|---|

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Mfrs. of : Alloy Steel Ingots, Alloy Steels (Adamite) Rolls, S.G. Iron Rolls, Steel Castings & S.S. Castings in all grades

Steel Castings for Pneumatic , Hydraulic & Mechanical Presses:-

HANSCO is one of the leading manufacturer of Steel Castings for Pneumatic, Hydraulic & Mechanical Presses.

We manufacture Steel Casting in various Grades for Pneumatic, Hydraulic & Mechanical Presses Parts like IS:2708 , IS 2644, IS:1030, EN-8, EN-9, EN-19 ,EN-24 DIN 1681 - GS-52, EN 10293 -GE260 , GS-24Mn5, GS30CrMo4 , GS 34CrMo4 etc which include Toggle Shaft, Connecting Rod ,Gears, Bed , slides & Eccentric Gears etc.

With our Well Qualified & Experienced Engineers, we are ready catering to various Pneumatic, Hydraulic & Mechanical Presses manufacturing all over the country.



FRAME



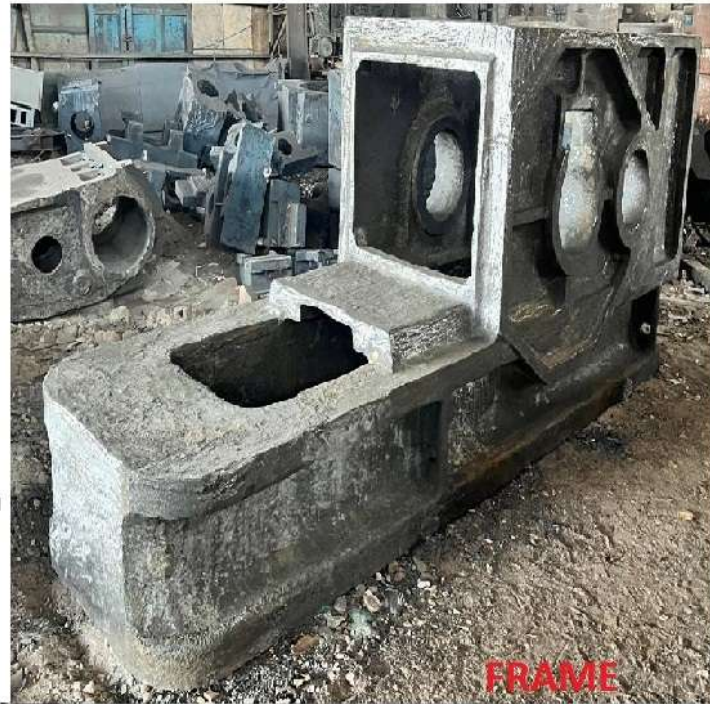
GEAR

Infrastructure & Facilities:

- TWO INDUCTION FURNACES
 - » ONE 7 MT FURNACE
 - » ONE 1000 KG FURNACE FOR SPECIAL CASTINGS
 - » ONE 25 MT HOLDING FURNACE
- SINGLE PIECE CASTING FROM 10 KG TO 50000 KG (50MT)
- IN HOUSE COMPLETE CHEMICAL & PHYSICAL LABS (WHICH INCLUDE ULTRASONIC , MPI , UTM , IMPACT ETC).
- INSTALLED IN 52000 SQ. YARD AREA
- IN HOUSE MACHINE SHOP.
- TWO HEAT TREATMENT FURNACES FOR STRESS RELIEVING, NORMALIZING, ANNEALING, TEMPERING & WATER QUENCHING FACILITIES.
- NINE OVERHEAD CRANES OF 50 MT ,25MT, 20MT x 3 NOS, 15MT , 10MT & 2 NOS 5MT WITH MAGNETS.

Quality Control:

- ARL Spectrometer (Swiss-Technology)
- COMPUTERIZED TENSILE TESTING MACHINE
- IMPACT TEST MACHINE
- HARDNESS TESTING EQUIPMENT
- ULTRASONIC FLAW DETECTOR
- MPI (MAGNETIC PARTICLE FLAW DETECTOR)



Other Industries Served:

- | | |
|---|---|
| <ul style="list-style-type: none"> • MATERIAL HANDLING INDUSTRY <ul style="list-style-type: none"> ▶ ROLLING MILLS ▶ SPONGE IRON INDUSTRY ▶ HAND TOOLS INDUSTRY ▶ THERMAL PLANTS ▶ STEEL PLANTS • PRESSES | <ul style="list-style-type: none"> AUTOMOBILE INDUSTRY SUGAR MILLS CEMENT MILL PLANTS RUBBER PLANTS POWER PLANT PAPER MILLS CRUSHING MACHINERY |
|---|---|

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Steel Castings for Dams:-

HANSCO is one of the leading manufacturer of Steel Castings for Fluid Dams.

We manufacture Steel Casting in various Grades for Fluid Dams Parts like IS:2708 , IS 2644, IS:1030, IS-1570 20CR13,EN-8, EN-9, EN-19 ,EN-24 DIN 1681 - GS-52, EN 10293 -GE260 , GS-24Mn5, GS30CrMo4 , GS 34CrMo4 etc which include Trunnion Hub, Trunion Pin & Rope Drum etc.

With our Well Qualified & Experienced Engineers, we are ready catering to various Fluid Dams manufacturing all over the country.



TRUNION HUB

CONSISTENT IMPECCABLE QUALITY

Infrastructure & Facilities:

- TWO INDUCTION FURNACES
 - » ONE 7 MT FURNACE
 - » ONE 1000 KG FURNACE FOR SPECIAL CASTINGS
 - » ONE 25MT HOLDING FURNACE
- SINGLE PIECE CASTING FROM 10 KG TO 50000 KG (50MT)
- IN HOUSE COMPLETE CHEMICAL & PHYSICAL LABS (WHICH INCLUDE ULTRASONIC , MPI , UTM , IMPACT ETC).
- INSTALLED IN 52000 SQ. YARD AREA
- IN HOUSE MACHINE SHOP.
- TWO HEAT TREATMENT FURNACES FOR STRESS RELIEVING, NORMALIZING, ANNEALING, TEMPERING & WATER QUENCHING FACILITIES.
- NINE OVERHEAD CRANES OF 50 MT ,25MT, 20MT x 3 NOS, 15MT , 10MT & 2 NOS 5MT WITH MAGNETS.

Quality Control:

- ARL Spectrometer (Swiss-Technology)
- COMPUTERIZED TENSILE TESTING MACHINE
- IMPACT TEST MACHINE
- HARDNESS TESTING EQUIPMENT
- ULTRASONIC FLAW DETECTOR
- MPI (MAGNETIC PARTICLE FLAW DETECTOR)



Other Industries Served:

- | | |
|------------------------------|---------------------|
| • MATERIAL HANDLING INDUSTRY | AUTOMOBILE INDUSTRY |
| » ROLLING MILLS | SUGAR MILLS |
| » SPONGE IRON INDUSTRY | CEMENT MILL PLANTS |
| » HAND TOOLS INDUSTRY | RUBBER PLANTS |
| » THERMAL PLANTS | POWER PLANT |
| » STEEL PLANTS | PAPER MILLS |
| • PRESSES | CRUSHING MACHINERY |

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Mfrs. of : Alloy Steel Ingots, Alloy Steels (Adamite) Rolls, S.G. Iron Rolls, Steel Castings & S.S. Castings in all grades

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हान्सको आयरन एंड स्टील्स प्राइवेट लिमिटेड
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