



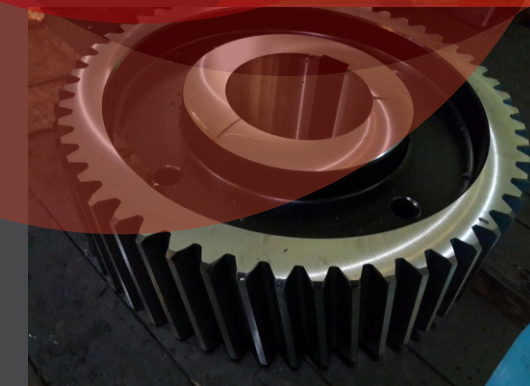
Rolling Excellence

www.gearroll.com

We Design
We Build
We Offer



NAV BHARAT
Engineering Works



04

Message from Desk

06



Our Existence

“Constant struggle to improve the quality of steel and discover newer, faster and more cost-effective methods of producing it.”

08 Vision 2020

Our believe in “Rolling Excellence”

10

We continuously assess quality at different stages

Infrastructure

18 - Our Hand Strengtheners

22

Our Products

24 - Our Excellence

12 - Our CNC Facilities



50

Our Journey To Success & The World

52 Our Clients

56

Quality



58

Sustainable development and growth for all.





Our Mission :

“To associate with the global market by serving craftsmanship, team entrepreneurship and conviction towards our clients success.”

Dear all,

Steel is one of the most significant industrial sectors in India due to its wide application across sectors. With the current wave of 'Make in India', we are standing on the threshold of major reforms and manufacturing sector has a key role to play in the success story of the nation. These sectors need high quality products that can boost economic growth such as infrastructure, power, machinery and railways. At the same time, the steel industry is facing major changes with challenging market conditions that mandates a high degree of flexibility to meet the complex and ever changing needs of the customers.

Being an expert in industrial processes, Nav Bharat offers a complete range of tailor-made solutions related to rolling mills. Our facility boasts of state-of-the-art technologies for producing equipment for value added steel manufacturers. We care for environment and strive to reduce environmental footprints. Our aim is to improve the economic and technical performance of our customers' equipment.

We take complete pride in our ability to partner and come up with most constructive solutions by extending innovations to our customers. Innovations in process are focused to ensure accessibility of the equipment, improved productivity and minimum operational costs. We are sure that these are the primary factors that can be instrumental in the global success of any business. This brochure is an insight into our portfolio of technologies and shows how earnestly we work to meet your requirements. We look forward to hearing from you and discuss any idea you may be contemplating.

Managing Director
Mr. Bhisham Kumar

Our Existence

Nav Bharat Engineering Works came into existence in the year 1986 and has been a major contributor to the steel industry, since then. We have a long list of reputed clients to our credit in India and abroad. Being innovative leaders of the Rolling Mill industry, we boast a wide range of products, values like hard work, honesty and constant will to innovate is the reason of our strong hold in a market with cutting edge competition.

Over the centuries, there has been a constant struggle to improve the quality of steel and discover newer, faster and more cost-effective methods of producing it. Amid global competition, the heat is on like never before, resulting in heavier demands on the metal industry's approach to serve its markets. To survive, a new type of partnership is required. It calls for team spirit and truly joint effort by all the key players in the metal industry. We are committed to playing our part in developing such synergetic relationships with our current customers and future partners, we have collaration with European company **MNSistem** in tech space.

Our extensive research and development in sustainable development has set benchmarks in the steel industry.

- State-of-the-art manufacturing technology
- Efficient and effective quality management system
- Adherence to delivery schedule with consistent supply
- Commitment towards customer satisfaction through continual improvement





Our Vision 2020

“To be each clients’ most trusted and have a long-standing relationship via uncompromised quality, latest technical & innovative approach. Remain true to our commitments, honest advice & ethics.”

We Believe In “Rolling Excellence”

“The only way to discover the limits of the possible is to go beyond them into the impossible. [A. Clarke]”

The name “Nav Bharat” evokes hope for a new India and that is what our core philosophy is to build ‘A Marquee of Excellence’. It typifies quality, integrity, performance, perfection, and above all, character. We stand for all these traits.

We believe in becoming an active participant in an ever evolving steel industry. The idea is to get grooving, working fiercely to explore every possibility of innovation and excellence. This is just the beginning of a never-ending journey towards excellence.

Infrastructure

Nav Bharat is a one-stop Rolling Mill solution provider offering comprehensive solutions. We believe in delivering results without any compromise on quality. This is being made possible with in depth research involved in creating processes. We continuously assess quality at different stages and set new benchmarks to stay ahead in our business.

Spread over two units, Site 1, located on the main NH24, is 5400Sq Yard, with built up area of 40,000 Sq ft. and the other fabrication unit is 5000 Sq Yard with built up area of 20,000 Sq ft., we have a state-of-the-art infrastructure facility equipped with advanced manufacturing technologies and machines that assist us to fabricate the best quality products.

The units are segregated into various departments such as manufacturing, quality control, research and development, warehouse and packaging, sales and marketing, etc.

The maintenance technologies adopted by us are one of the best in the industry that ensure smooth and efficient functioning of the machinery at all time giving optimum performance in order to meet our client's bulk requirements, we ensure that the machinery is updated on regular basis in order to maintain our production rate.



Designing

We have a dedicated, creative and proficient design team that acknowledges the fact that every client's requirements are different and so should be our solutions.



Planning

At this stage, it is utmost important to understand client's expectations along with what can be done to serve them in the best possible manner. Here our research and development team waves its magic wand.



Manufacturing

We have highly advanced infrastructure setup in our operational units for machining, production support and handling of heavy machinery.



Commissioning

We meet the needs of optimising plants & commission through high quality control phase & testing. Our experience speaks values that offers impeccable services and timely delivery.

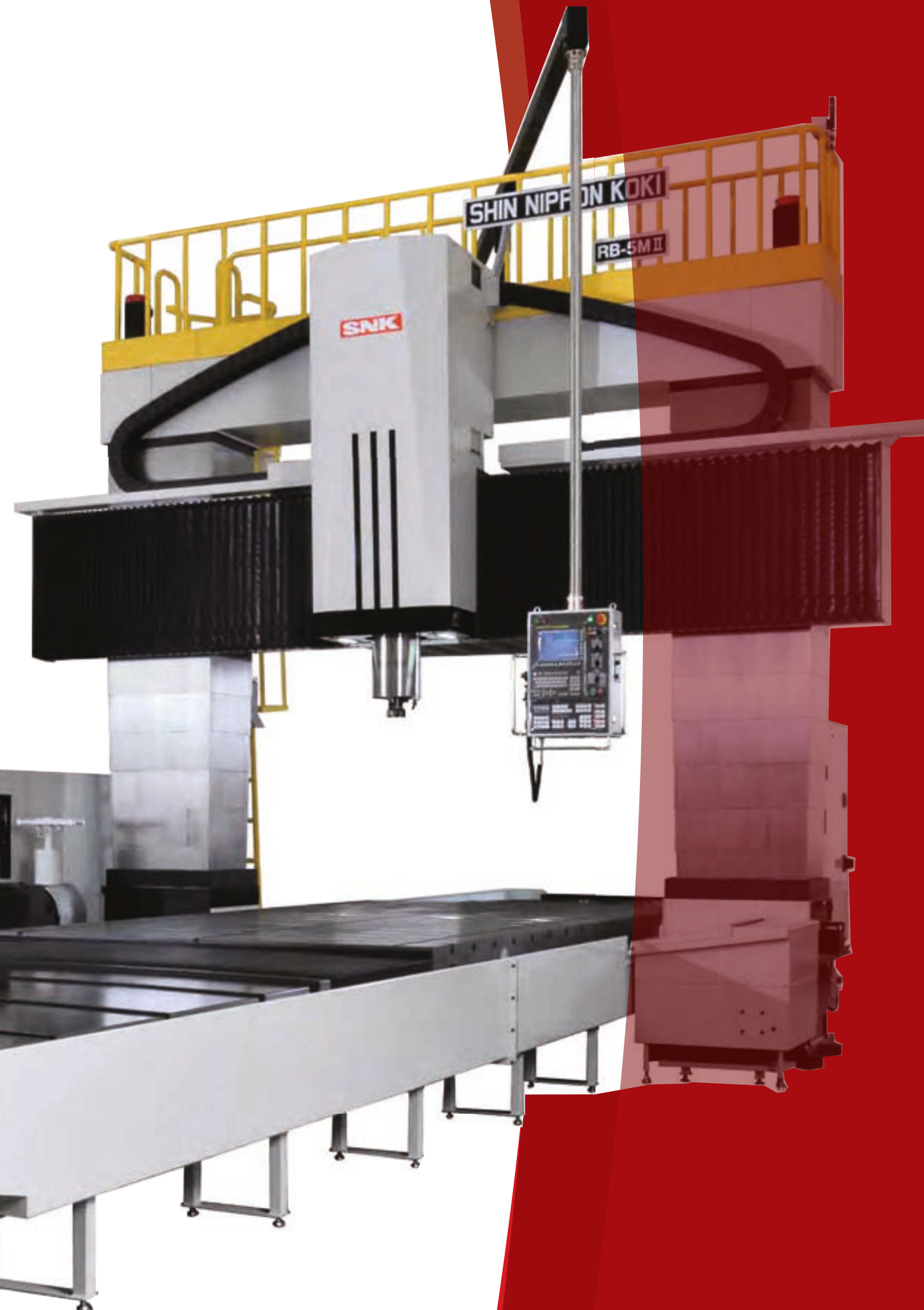
**World class
CNC
section
with highly
precise and
accurate
machines
from Japan,
Germany,
etc**

HOFLER Gear Grinder
1500 gear dia, 26 module,
2000mm between centers



Our CNC Facilities

SNK Double Column VMC - RB 6MII-E
5-Axis
X: 7,250mm, Y: 3,900mm, Z: 800mm, W:1,850mm
Table: 7000x3000mm
Weight on table: 30,000kg



Our CNC Facilities



TOSHIBA CNC BORER
130 dia X: 3m, Y: 2.3m, Z: 1.5m
Weight on table: 20mt

Our CNC Facilities



HOFLER Gear Grinder
1500 gear dia, 26 module,
2000mm between centers



MAZAK VTL
900mm



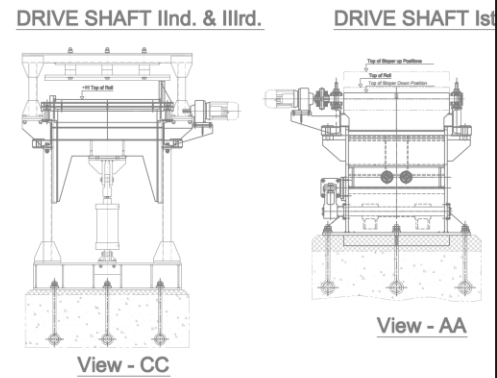
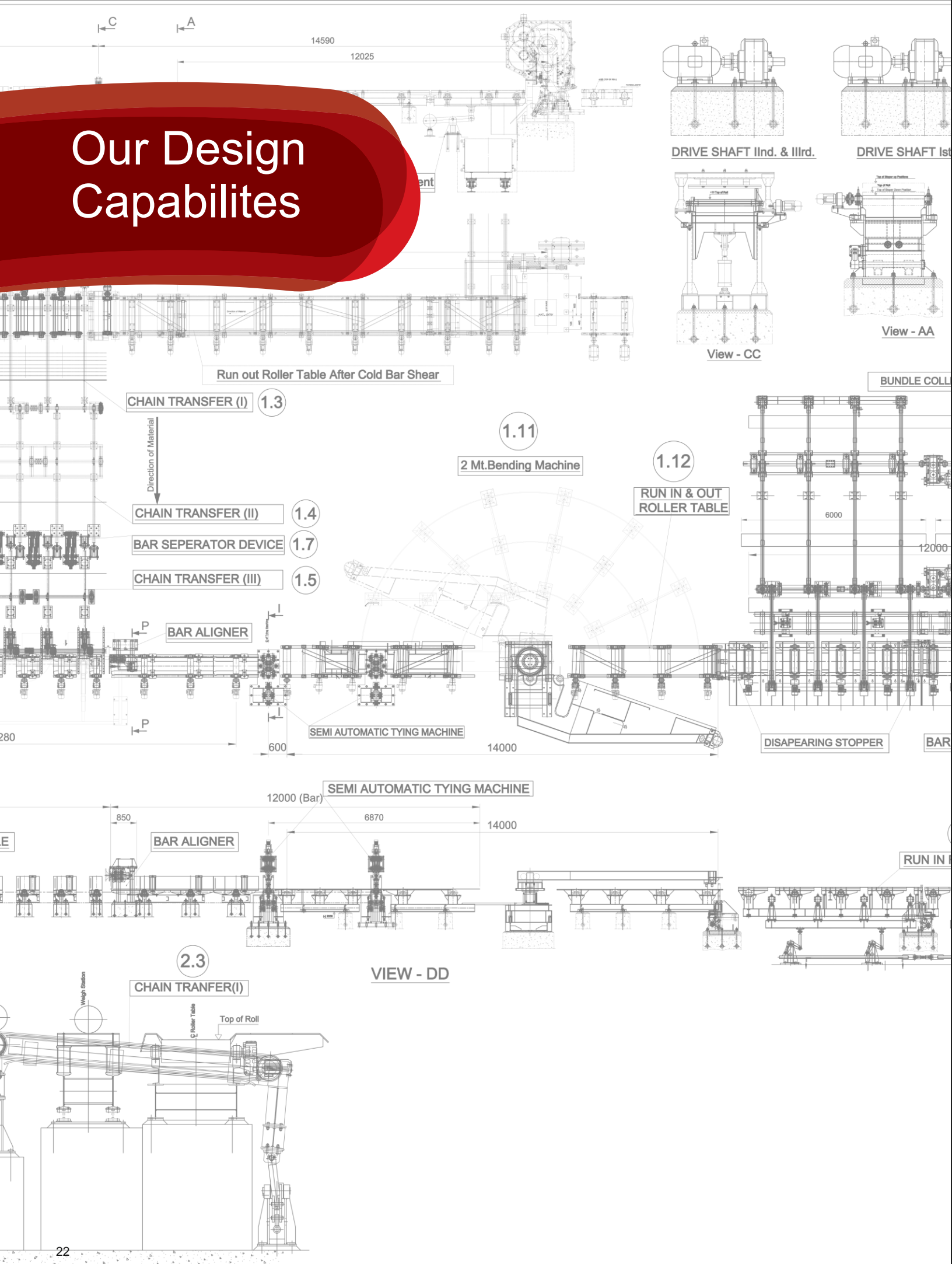
MAZAK HMC
X,Y,Z: 1200mm
Weight on table: 2mt

Our Hand Strengtheners

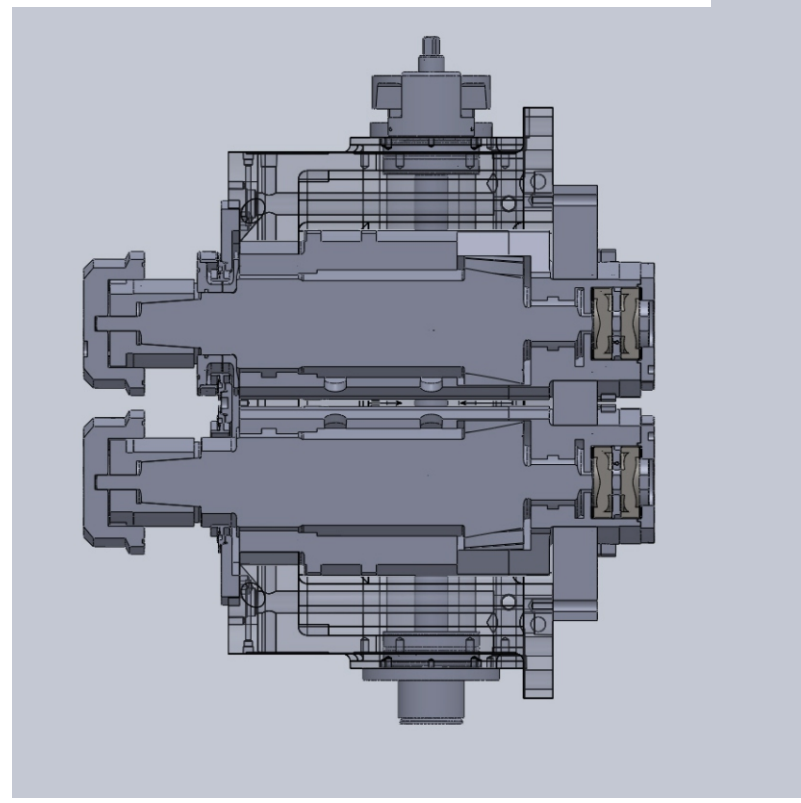
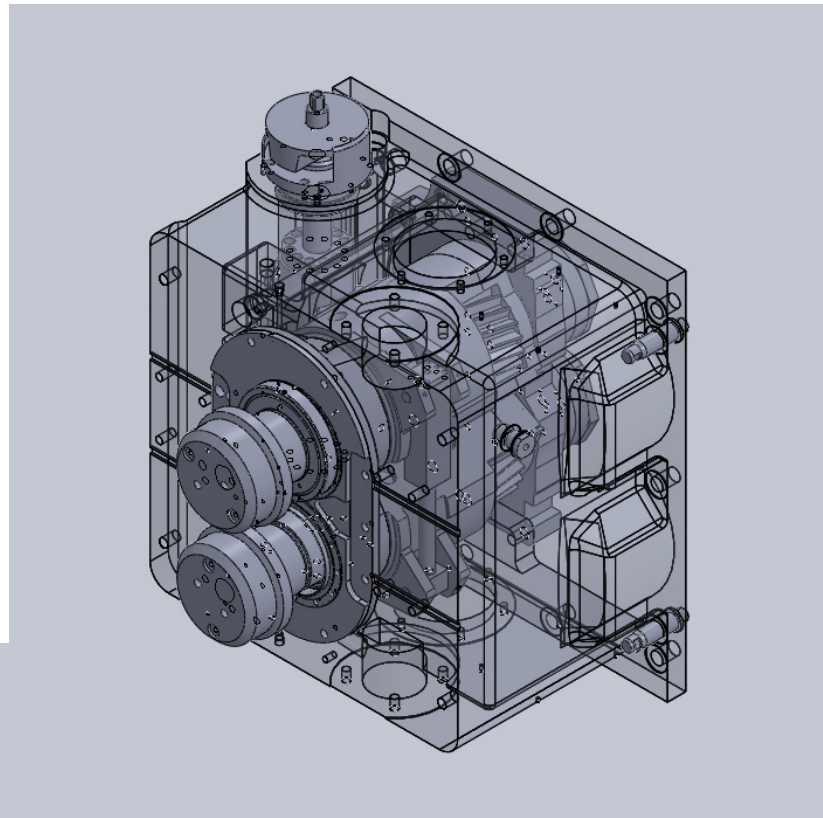
- Hofler Rapid 1250Xlk CNC Gear Grinder
- Mazak CNC VTL
- Toshiba CNC Boring Machine
- Mazak CNC Horizontal Machining Centre 8800 Nexus
- CMA Tapping Machine
- Messr CNC Plasma Cutting Machine
- CNC Turning Center
- Hobbing Machine
- Plano Miller
- Band Saw
- Radial Drill Machine
- Hydraulic Press
- Lathe Machines : 12", 10", 8", 6" & 4"
- Horizontal Boring, Drilling and Milling Machines
- E.O.T. Cranes:
 - 30/5Mt -3Nos
 - 20 Mt -1Nos
 - 10 Mt -5Nos



Our Design Capabilites



3D modelling of block mill for 5.5mm wire cut 100m/s



At Nav Bharat Engineering Works we have a dedicated team of designers who have academic proficiency and long standing hands on experience of developing customer specific designs.

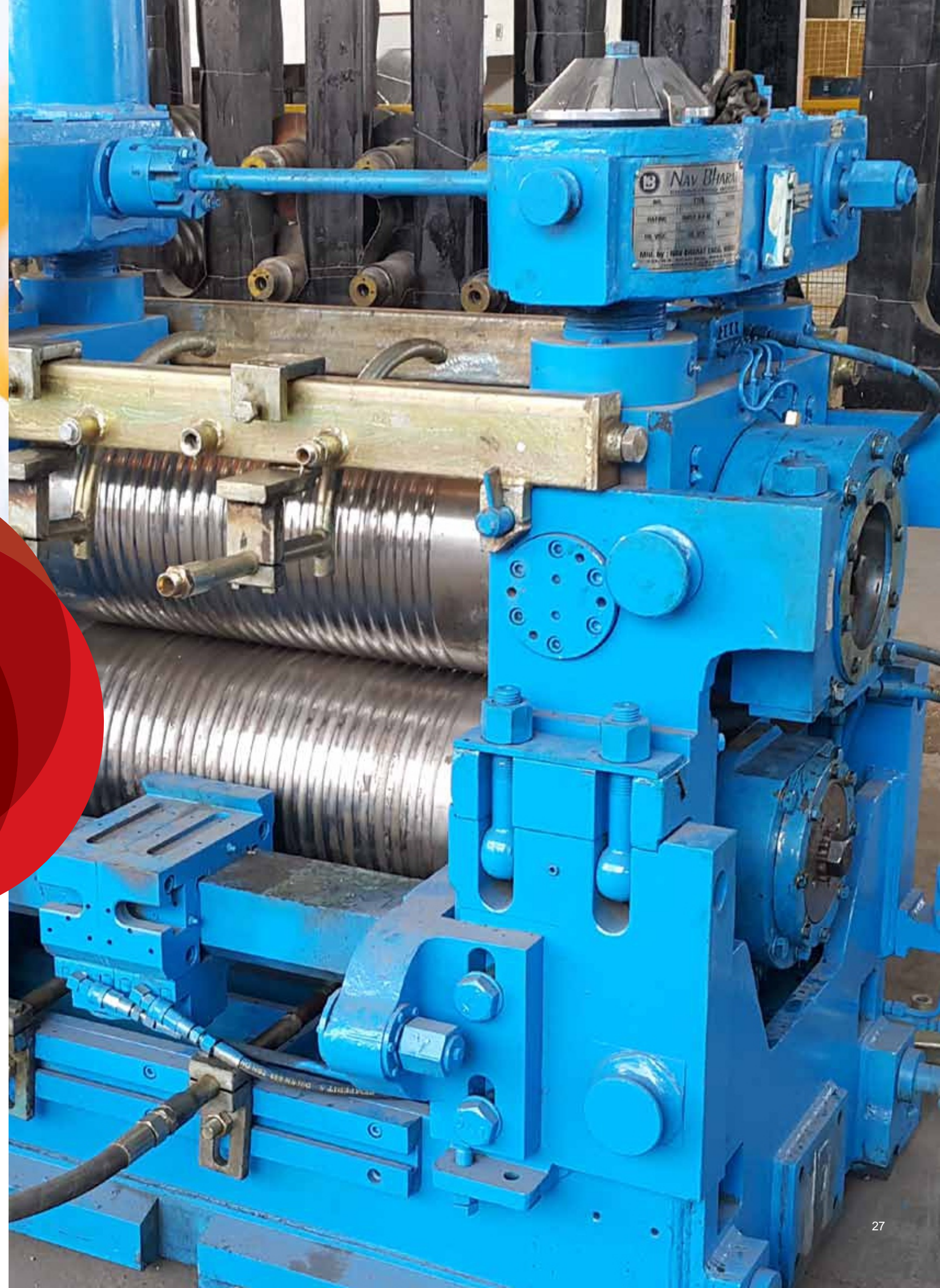
Our Team works on various softwares to design and deliver an optimum solution for every client. We use 2D/3D software: Autocad, Inventor, Solidworks, BearinX, and roll pass/ load design software.





Our Products

Nav Bharat is a result of years of hard work, perseverance, integrity and delivering consistent performance. Over the past 30 years, Nav Bharat has developed expertise in heavy machinery in general and Rolling Mills in particular.



Our Excellence

- Hot Rolling Mills
- Flying Shears
- Cold Shears
- Crank Shears
- Quenching Boxes
- Twin Channel
- Mill Stands
- Cold Rolling Mills
- Gear Couplings
- Industrial Gear Box
- Punching Cropping Machine
- Hot Saw
- Automatic Cooling Bed
- Housingless Stand
- Gear Grinding Service
- Tying Machine

'We believe it is more economical to make good quality products than to make a bad quality product and provide field service.'



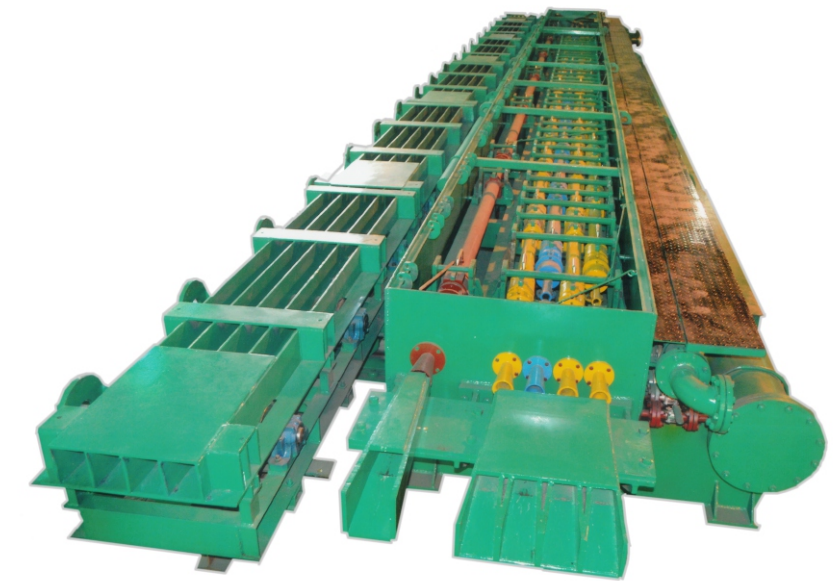
Gear Box

Salient features of Combined Gear Boxes cum Pinion Stand

- Made out of case carburising material, forged, isothermally annealed, case carburised, hardened (up to 60+/- 2HRC) and teeth grounded on our CNC Hofler Rapid 1250 XLK gear profile grinding machine.
- Rigid Housing, incorporating extra face width gears for increased service factor. Double lapped parting one face with 'O' rings for sealing.
- 'No Oil Seals', provided with labyrinths for life long sealing.

Our Products

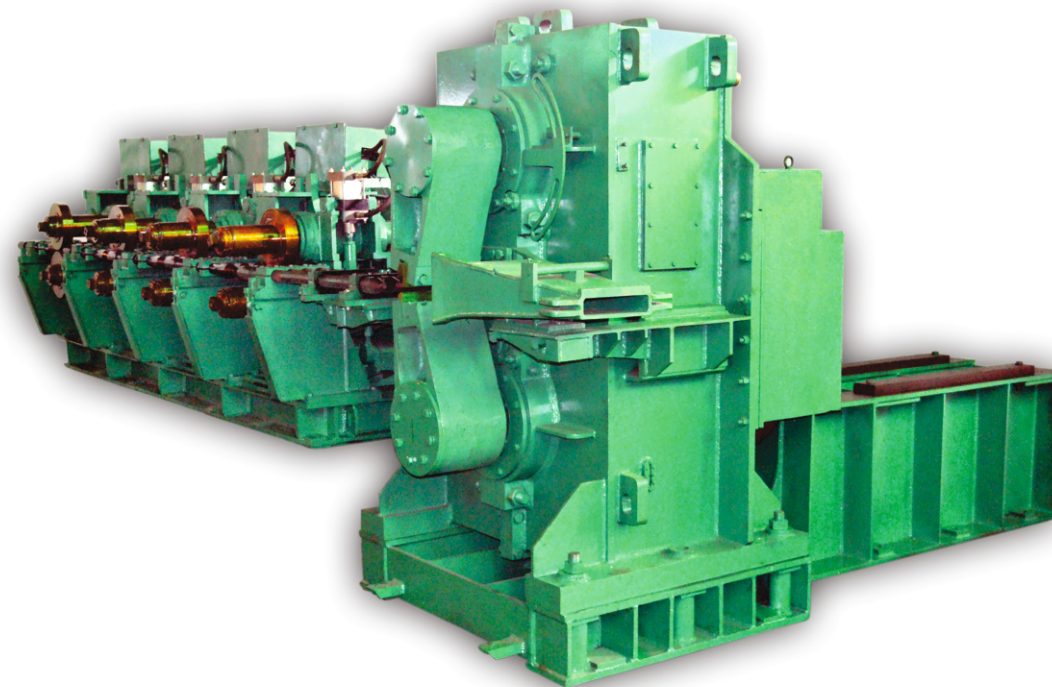
Quenching Box for 8-32mm, 8x4, 10x3, 12x2,16-32x1



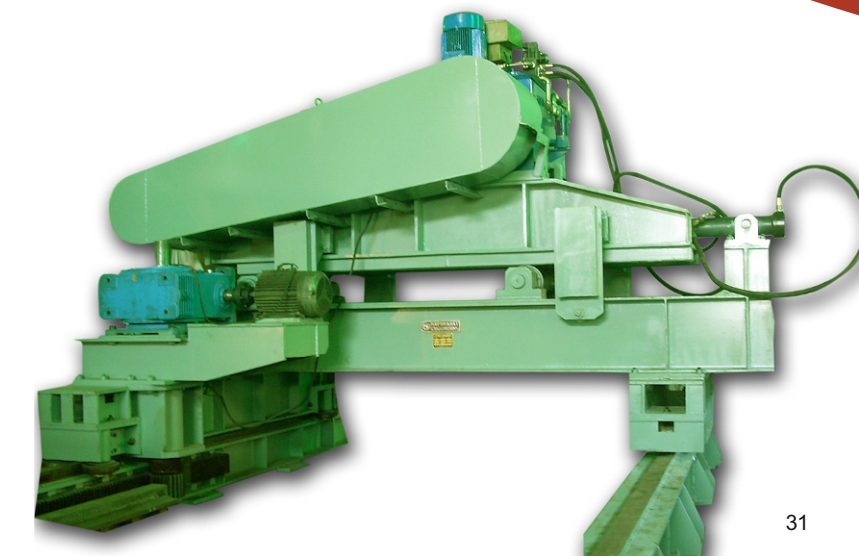
Bar Receiving Twin Channel



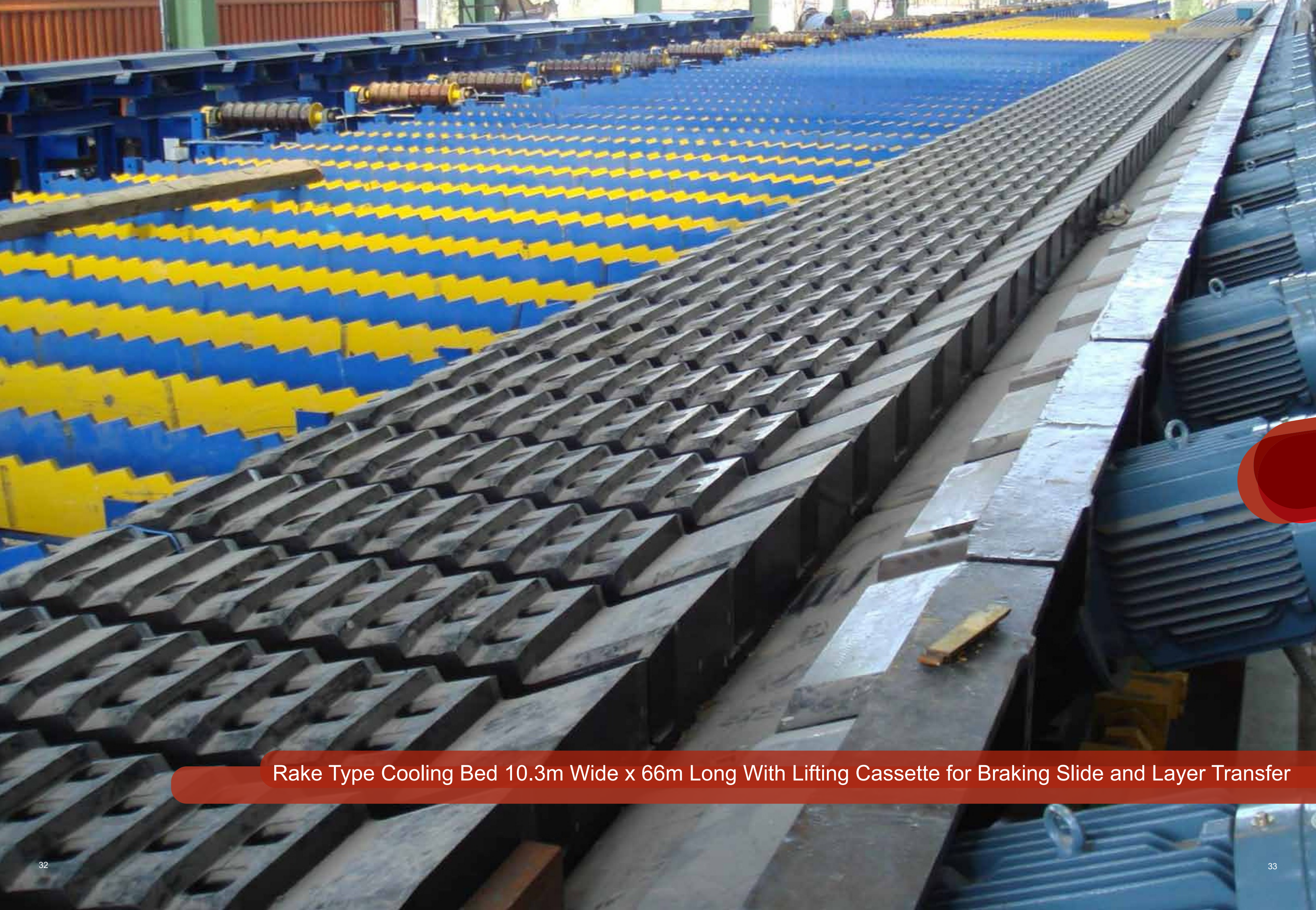
High Speed Continuous Rotating Shear to cut 8mm at 24m/s, 12mm at 14m/s



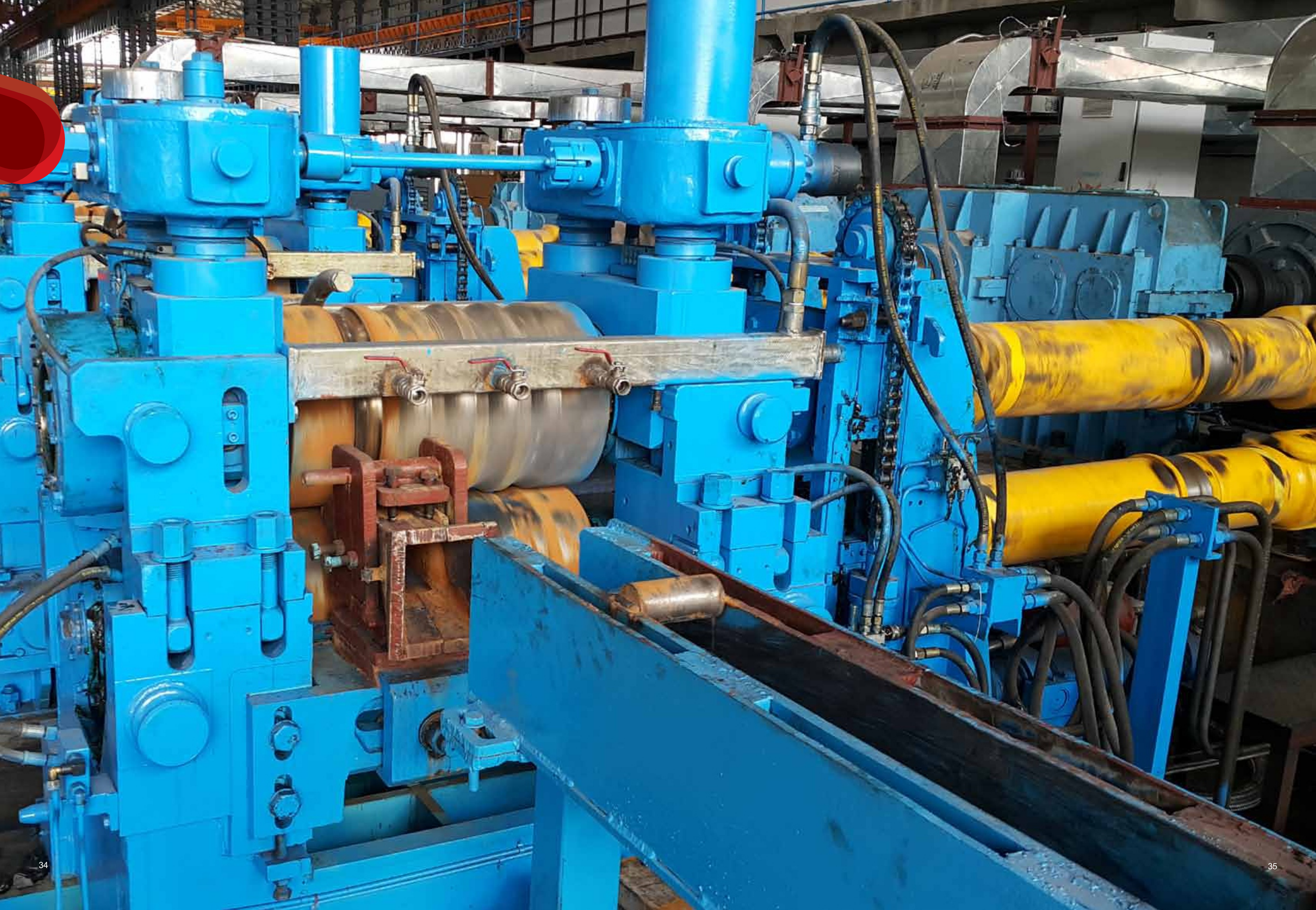
Flying Shear for 8-32mm, 8x4, 10x3, 12x2,16-32x1



Hot Saw



Rake Type Cooling Bed 10.3m Wide x 66m Long With Lifting Cassette for Braking Slide and Layer Transfer





260/ 230/ 200/ 160 mm Roll Neck Housingless Mill Stand for Slit Rolling Mill



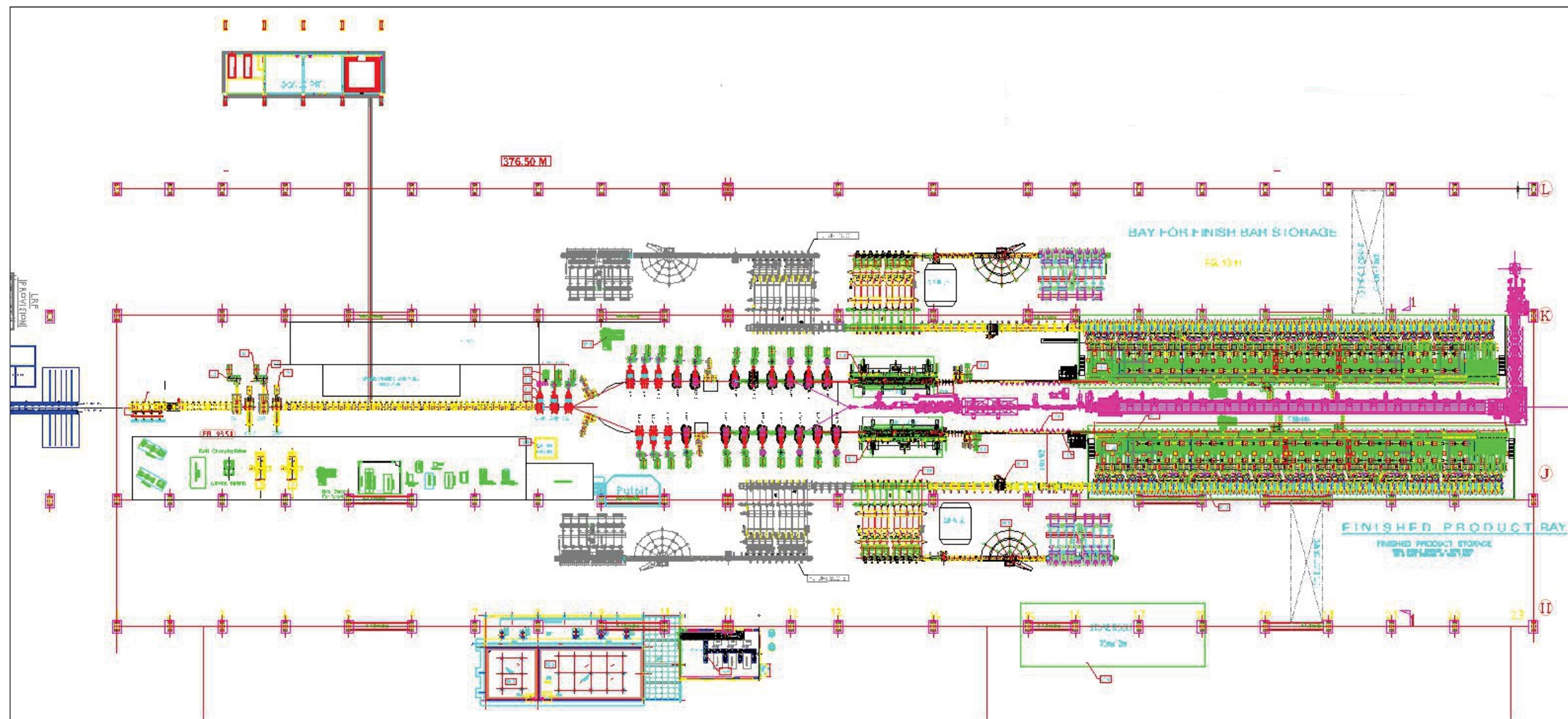
Quick stand changing platform for eight stand finishing mill.



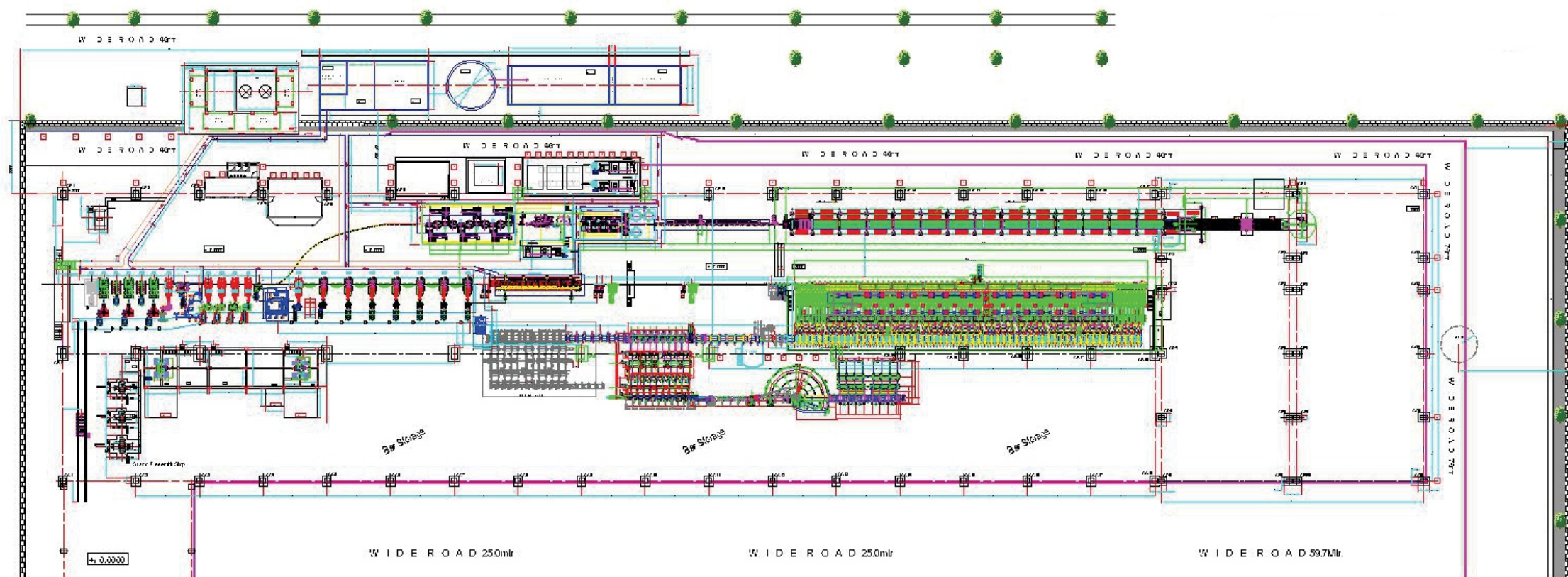




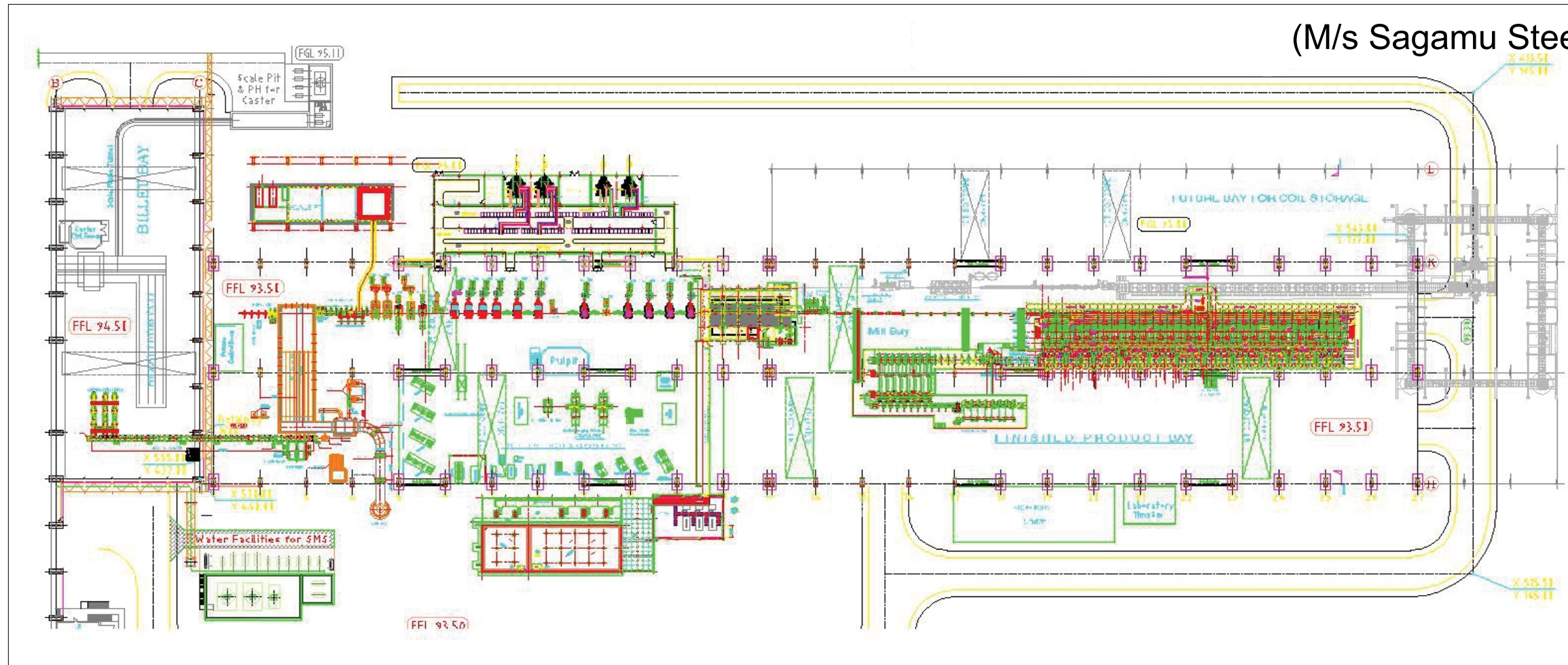
400,000 TPA
Bar Mill (Proposed)



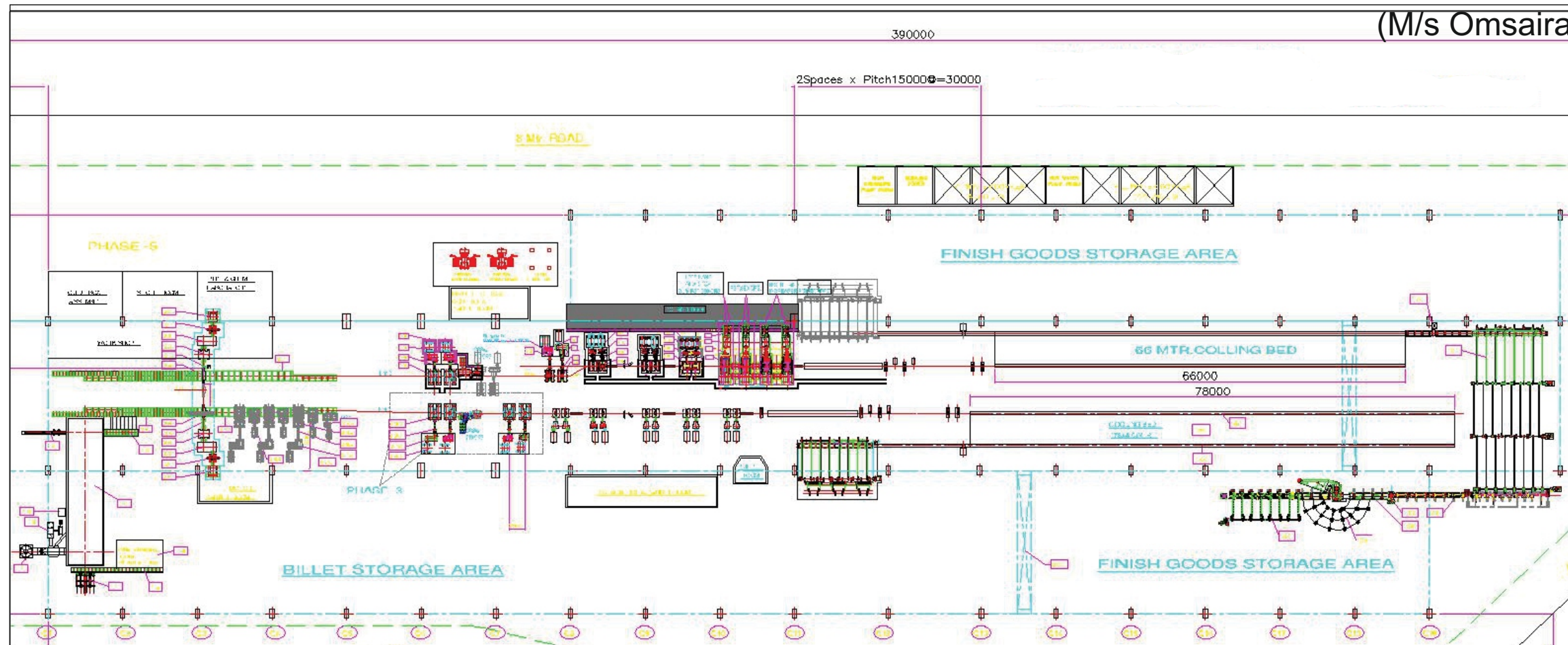
300,000 TPA Slit Bar Mill
(M/s Bhagalaxmi Rolling Mills
Pvt. Ltd., Jalna
and
M/s. Jai Ambe Steels (P) Ltd.,
Nepalganj, Nepal)



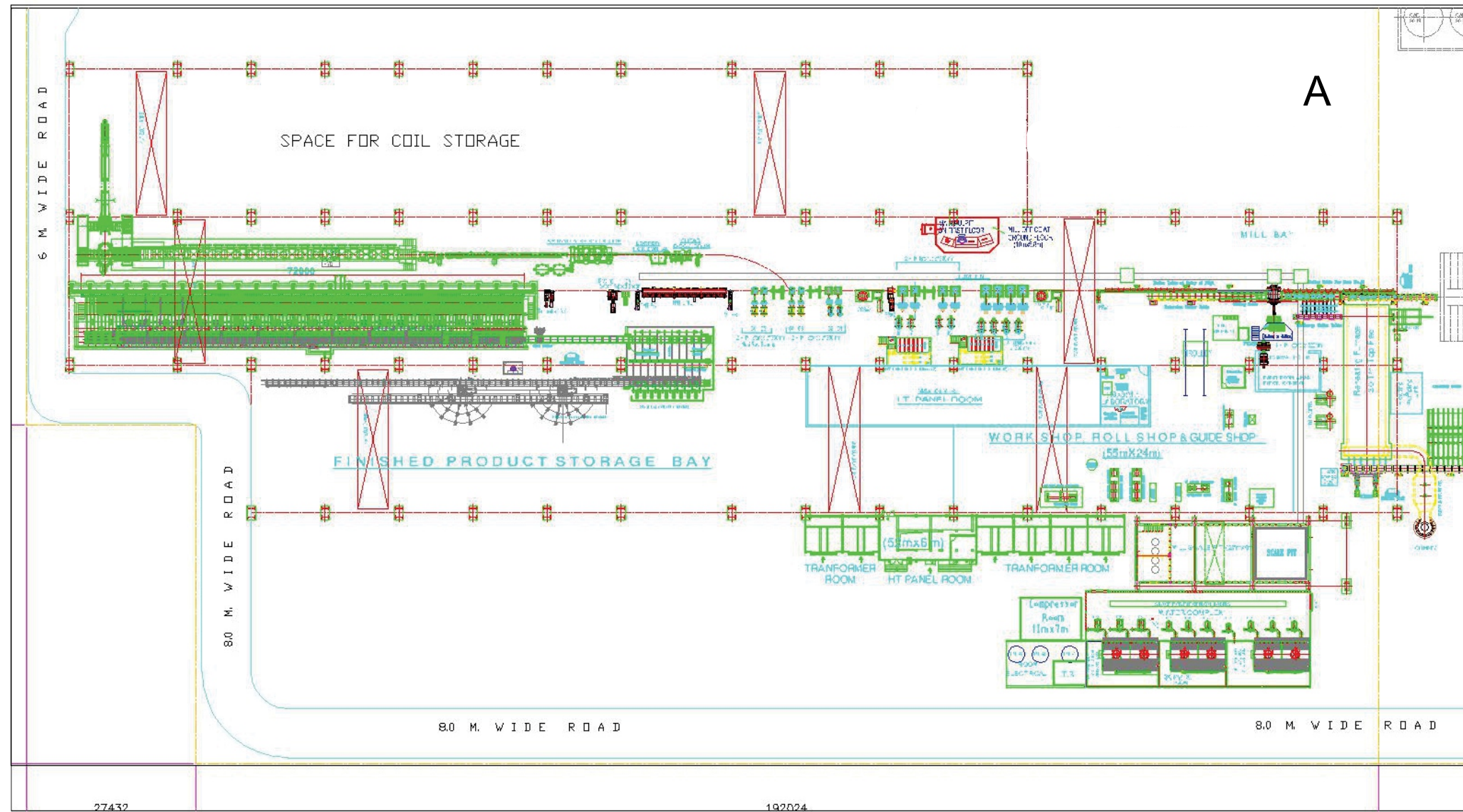
250,000 TPA Bar Mill
(M/s Sagamu Steel Ltd., Lagos, Nigeria)



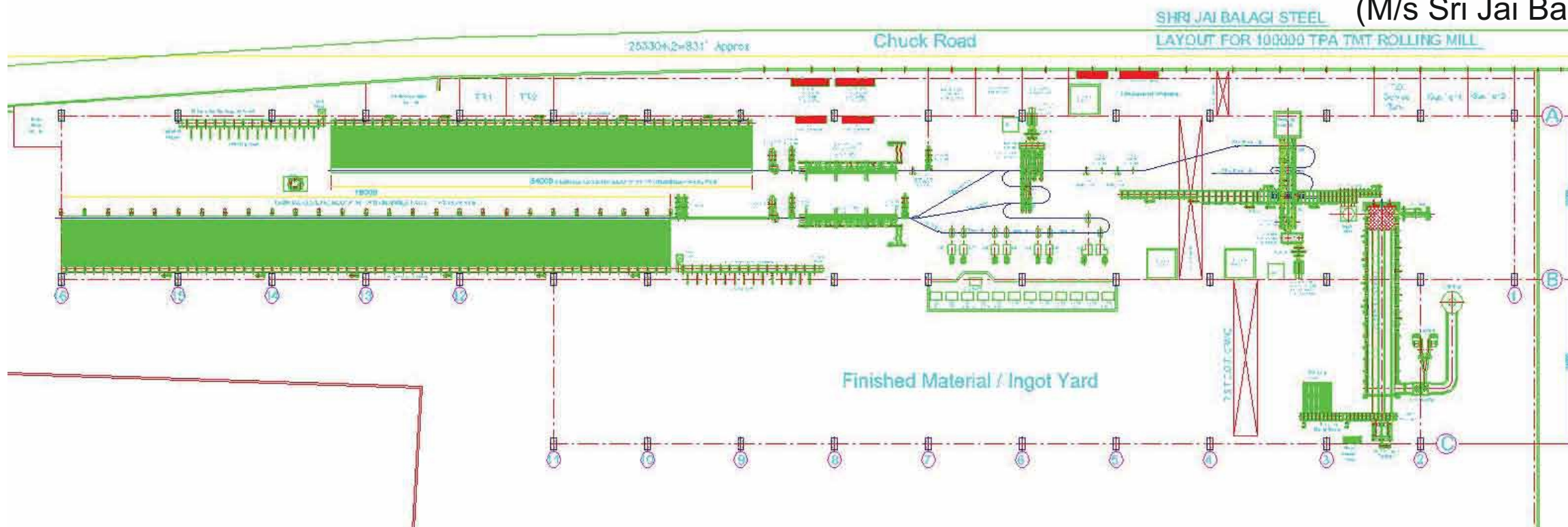
300,000 TPA Bar Mill
(M/s Omsairam Steel & Alloy Pvt. Ltd., Jalna)



180,000 TPA Bar Mill
(M/s Pulkit Alloy & Steel Ltd.,
Lagos, Nigeria)



100,000 TPA Bar Mill
(M/s Sri Jai Balaji Steel Rolling Mills Ltd.,
Muzaffarnagar)



Our Journey To Success & The World



Working diligently with our clients in order to meet their expectations and make due contribution in their success

80+

Domestic

18+

International



January 2016

Africa



Nigeria

M/s. Sunflag Steel (Nigeria) Ltd.,
Lagos, Nigeria

M/s. Sagamu Steel Nigeria Ltd.,
Lagos, Nigeria.

M/s. Pulkit Alloy & Steel Ltd.,
Lagos, Nigeria.

M/s. Prism Steel Mills Ltd., Nigeria

M/s. Phoenix Steel Mills Ltd.,
Nigeria

M/s. Gemini Mechandise Pvt. Ltd.,
Nigeria.

M/s. Strategic Impex Pvt. Ltd.,
Nigeria.

M/s. Land Craft Industries Ltd.,
Nigeria.

M/s. Real Infrastructure (Nig.) Ltd.,
Nigeria.

M/s. Monark Reed, Nigeria



Egypt

M/s. Six October for Light
Sections Co., Egypt.



Kenya

M/s. Apex Steel Ltd., Nairobi,
KENYA.

M/s. Steel Makers Ltd., Kenya.

M/s. Miriam Steel Holdings
(M/s. Steel Makers Ltd., Kenya)



South Africa

M/s. Barnes Fencing Industries
(Pty) Ltd., Gauteng, South Africa.



Zimbabwe

M/s. Steel Makers (Zimbabwe) Pvt.
Ltd., Zimbabwe.

Asia



Nepal

M/s. Jai Ambe Steels (P) Ltd,
Nepal

M/s. Himal Iron & Steel Co. (P)
Ltd., Nepal

M/s. Goenka Steel, Nepal



Sri Lanka

M/s. Colombo Copper Pvt. Ltd.,
Horana, Sri Lanka, Colombo

M/s. Multi Steel, Sri Lanka.



Bangladesh

M/s. Bangladesh Steel Re-rolling
Mills Ltd., Chittagong, Bangladesh



Indonesia

M/s. P. T. Citra Tanamas,
Indonesia.

Our Clients Overseas

Middle East



Oman

M/s. Sharq Sohar Steel
Rolling Mills LLC., Oman



Iraq

M/s. G. K. Steels, Erbil, Kurdistan.



India

Central

M/s. Fortune Metaliks Ltd., Raipur

M/s. Sharda Shree Ispat Ltd., Raipur

M/s. R. K. Structures Pvt. Ltd., Raipur

M/s. Sanvijay Industries Pvt. Ltd., Nagpur.

M/s. Shivali Udyog (I) Ltd., Raipur.

M/s. S.D.Bansal Iron & Steel Pvt. Ltd., Bhopal.

M/s. Inertia Iron & Steel Inds. Pvt. Ltd., Raipur.

M/s. Nalwa Steel & Power Ltd., Rigarh

M/s. Shilpa Re-rollers Ltd., Nagpur

East

M/s. BDG Metal & Power Ltd., Kadasole, Barjaora

M/s. Shyam Steel Inds. Ltd., Kolkata.

M/s. Shri Ramrupai Balaji Steels Ltd., Durgapur

M/s. Adhunik Ispat Pvt. Ltd., Kolkata.

M/s. Durgapur Steels Ltd., Durgapur.

M/s. B. M. A. Stainless Ltd., Distt Budwan, Kolkata

M/s. Zion Steel Ltd., Sundargargh

M/s. Shree Metaliks Ltd., Angul.

M/s. Usha Martin Ltd., Jamshedpur.

M/s. Shyam Sel Ltd., Burdwani, West Bengal

M/s. Maithan Steel & Power Ltd., Burdwan, West Bengal, Kolkata

South

M/s. Prince TMT Steels Pvt. Ltd., Kanjikode (E), Palakkad

M/s. Dindigul Iron & Steel Co.(P) Ltd, Dindigul, Tamil Nadu.

M/s. ARS Metals Ltd., Chennai

M/s. V. V. Iron & Steel Co. Pvt. Ltd., Tirunelveli, T. N.

M/s. Jairaj Ispat Ltd., Hyderabad

M/s. Pioneer Torsteel Mills (P) Ltd., Medak, Hyderabad

M/s. Devshree Ispat Pvt. Ltd., Hyderabad.

M/s. Maa Mahamaya Inds. Pvt. Ltd., Vizianagaram Distt, A. P.

M/s. Chitrakoot Metal Ltd., Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.

M/s. P. R. Rolling Mills Pvt. Ltd., Tirupathi

M/s. Khayati Steel Inds. Pvt. Ltd., Thandavapura, Nanjangud Taluk, Mysore Dist.

M/s. VRKP Steel Industries Pvt. Ltd.

M/s. Aaryan Hitech Steels India Pvt. Ltd., Gowribindpur, Karnataka.

North

M/s. Sri Jai Balaji Steel Rolling Mills Ltd., Muzaffarnagar

M/s. Galwalia Ispat Udyog Pvt. Ltd., Kashipur, Uttarakhand

M/s. Fortune Metals Ltd., Talwara Road, Adj. PSEB PowerGrid, Mandigobidgarh

M/s. Petropol India Ltd. A1121/22, Indl. Area, Bhiwadi, Rajasthan

M/s. Crest Steel & Power Pvt. Ltd. Una Road, Amb, The. Amb, Dist: Una (H. P.)

M/s. Himalayan Rolling Steel IndustriesPvt. Ltd., Barzulla, Srinagar, J & K

M/s. Shree Balaji Pigments Pvt. Ltd., Kathua, J & K

M/s. Upper India Steel Mfg. & Engg. Co. Ltd., Ludhiana & Tirupati.

M/s. Capital Ispat Ltd., Bhiwadi

M/s. Barnala Steel Inds. Ltd., Muzaffarnagar (U.P.)

M/s. Shri S. S. Shyam Steels Pvt. Ltd., Faridabad.

Rathi Udyog Ltd., Ghaziabad.

M/s. Gallantt Ispat Ltd., Gorakhpur

M/s. Shree Krishna Steel Rolling (Jaipur) Ltd., Jaipur

M/s. Usha Martin Inds. Ltd., Agra.

West

M/s. Bhagalaxmi Rolling Mills Pvt. Ltd., Jalna

M/s. Omsairam Steel & Alloys Pvt. Ltd., Jalna

M/s. Kalika Re-rollers Pvt. Ltd., Jalna

M/s. Parvati Alloys (P) Ltd. Jalna

M/s. MITC Rolling Mills (P) Ltd., Ghatkopar East, Mumbai

M/s. Bhagwati Ferro Metal (P) Ltd. Silvasa

M/s. Balbir Rolling Mills Ltd., Mumbai

M/s. Quartz Metal Inds., Silvasa

M/s. Bhagwati Steel Cast Ltd., Mumbai

M/s. R. L. Steels Ltd., Aurangabad

M/s. Guardian Steels Pvt. Ltd.,Chembur, Mumbai

M/s. Shri Karvir Nivasini Mahalaxmi Ispat Pvt. Ltd., Kolhapur.

M/s. Khatu Shyamji Steel Rolling Mills Pvt. Ltd., MIDC Area, Nanded

M/s. Sun Metallics & Alloys Pvt. Ltd. Wada

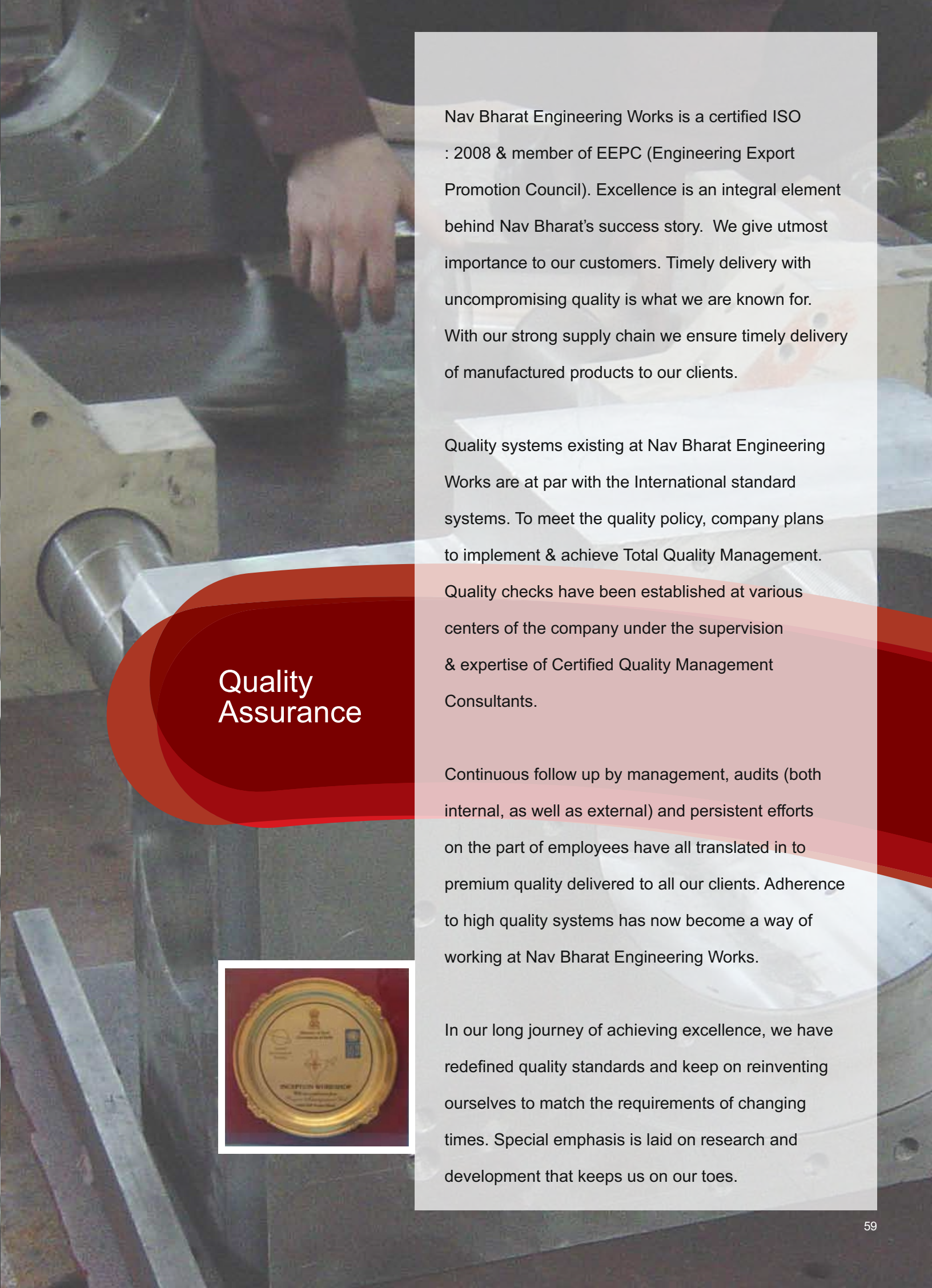
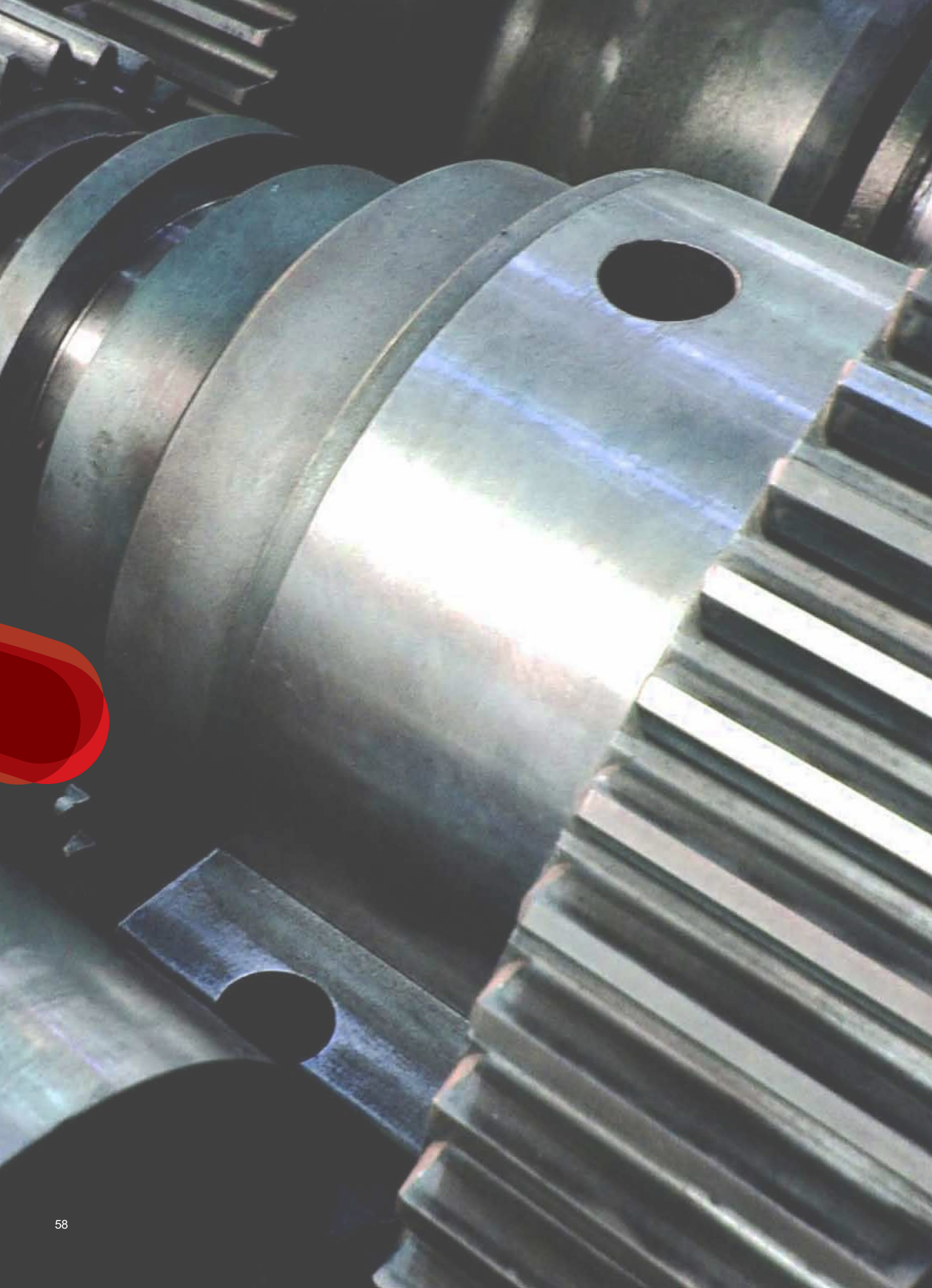
M/s. Hans Ispat Ltd., Kutch, Gujarat

M/s. Shri Khatu Shyam Industries, Silvasa

M/s. Shree Om Steel Rolling, Jalna

M/s. Sunflag Iron & Steel Co. Ltd., Bhandara, Maharashtra.

M/s. Sharda Shree Ispat Ltd., Nagpur



Quality Assurance

Nav Bharat Engineering Works is a certified ISO : 2008 & member of EEPC (Engineering Export Promotion Council). Excellence is an integral element behind Nav Bharat's success story. We give utmost importance to our customers. Timely delivery with uncompromising quality is what we are known for. With our strong supply chain we ensure timely delivery of manufactured products to our clients.

Quality systems existing at Nav Bharat Engineering Works are at par with the International standard systems. To meet the quality policy, company plans to implement & achieve Total Quality Management. Quality checks have been established at various centers of the company under the supervision & expertise of Certified Quality Management Consultants.

Continuous follow up by management, audits (both internal, as well as external) and persistent efforts on the part of employees have all translated in to premium quality delivered to all our clients. Adherence to high quality systems has now become a way of working at Nav Bharat Engineering Works.

In our long journey of achieving excellence, we have redefined quality standards and keep on reinventing ourselves to match the requirements of changing times. Special emphasis is laid on research and development that keeps us on our toes.



Sustainable development and growth for all.

Nav Bharat Engineering Works is actively engaged in Corporate Social Responsibility (CSR) programs supported by experienced and qualified professional for execution. The company works extensively to give back to society through its close association with

Rotary Club (Sahibabad) & tree plantation drives.
Apart from this, there are few healthcare initiatives extended for the less fortunates.





NAV BHARAT
Engineering Works

Unit 1 - C-233, B.S. Road, Industrial Area,
Site 1, Ghaziabad, U.P, INDIA
P: + 91 0120 4759600-616

Unit 2 - C-175, B.S. Road, Industrial Area
Site 1, Ghaziabad, U.P, INDIA

www.gearroll.com