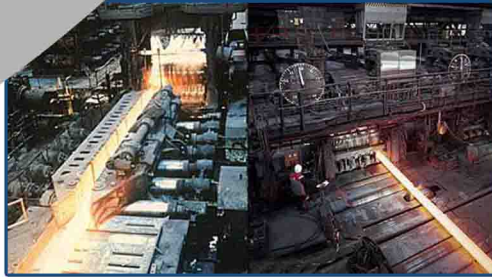


Bentex Industrials Pvt. Ltd.

Manufacturers & Exports of Steel Rolling mill Plants & Allied Machinery



Message from Chairman cum Managing Director



MOTIVATED TO ACHIEVE Excellence

With the support of my Family, Dedicated Staff, Supporting Supplying Network & Encouraging Global Clientage, I be able to expand your "BENTEX INDUSTRIALS (A Proprietorship Concern) as a Private Limited Concern, named BENTEX INDUSTRIALS PRIVATE LIMITED with the registered trademark "BENTEX".

In 1996, I started Business as a Proprietor of M/s Bentex Industrials with the focus on Commission basis sale/purchase of Steel scrap & Finished steel Material, Focus was diversified in 1999, when we Started Trading in Old and New Steel Rolling Mill Machinery. During trading, I had a dream to serve my clientage by my own manufacturing. It comes true very soon, with the regular Orders, network support & the trust of clientage. Today with your support, Bentex having a good reputation in the field of Manufacturing, servicing & exporting of Steel Rolling Mill Plants, Machinery & all type of Industrial Accessories. Bentex Industrials Private Limited is today a professionally managed company; fully equipped Manufacturing Unit with the support of more than 100 various Machines, 250+ skilled, unskilled, Official and marketing staff members and a huge network of registered vendors to provide the quality Material on time.

This enterprise has today grown to become one of the most "efficient" and "cost-effective" engineering companies in the country, which providing you the best quality product and after sale services. Since inception, we had successfully served many type of Industries Like Steel, Cement, Sugar, Paper, Cloth etc., we are the specialist in various type of Hot & Cold Steel rolling Mill Plants, Machinery and Accessories to our Indian and overseas Customers. We having a great experience in various succeed turnkey projects to our many of customers to best of their satisfaction & many of the projects in the pipeline. Bentex Industrials Private Limited believes in enduring partnership with every customer, so that relationship grows stronger with mutual success and growth. We always are trying to make use of latest technology in our in house equipments. With taking of this aspect & thinking, we always are able to undertake Revamping, rejuvenation and modernization of existing / manual/ sick rolling mills so as to improve Capacity/ Production, reduce cost of production, reduce power consumption, reduce specific fuel rate, improve Product quality Etc. We feel proud to say that Bentex had always given more than the expectation by our customer and it resulted the more & more, regular & repeat orders outcome from our global clientage; with the encourage of our clients, we regularly upgrading our technology; Now with your regular support, We are announcing the next expansion of our company as a group with Starting a Sister Concern named "Minak international Group of Companies", with the registered Trademark named "MINAK" As the past experience of your support, enquiries, orders and references, we expect more over support from your side. Although you all had always given me more than our expectation, but we need more, more & more support to establish the MINAK in the market. We also ensure you, as always we will provide you the need relevant and cost effective proposals which always be able to produce reasonable short pay back and attractive rate of return, but helping the industry to attain better quality standards maintaining higher productivity and reducing cost of production.

Thanking you to always believe in us

Naresh Kumar Mittal (Chairman cum M. D.)

An Overview



We, Bentex Industrials Private Limited, Registered under Indian Companies Act 1956 (Now a Sister Concern of MINAK international group of Companies) would like to re- introduce us a well managed and well equipped mechanical, pneumatic and also hydraulic engineering Company, can serve the various type of Industries specially to Steel Rolling Industry, situated at Plot No. C-55(P), Focal Point, Mandi Gobindgarh, Punjab (INDIA)-147301. Over the years Bentex Industrials Private Limited has developed extensive experience and expertise in heavy machine building & fabrication. We are known for providing tailor made solutions for Steel Rolling Mills used in production of long profiles and sections. Our endeavor is to provide our customers with premier life-cycle products, solutions and services at the most competitive prices. We focus on new technologies and innovation to drive business in India and internationally. Our engineers work in tandem with the clients to understand their application requirements and provide them best solutions. They relate all their efforts to reach maximum feasibility by selecting proper equipments and incorporating the machines in the actual working conditions to obtain best functioning of the plant. This achieved through latest designing software, hi-tech manufacturing and material handling equipment. We have been awarded with ISO 9001: 2008 Co. ISO 14001-2004 Co., Govt. of India recognized Export house and holder of various Awards, recognitions and certificates presented by government and reputed organizations for following well defined quality management system throughout the business process. Our competent teams of Quality Control engineers take utmost care to ensure that every job strictly adheres to the Customers' specific quality standards and requirements.

Our Belief

We believe in building strong relationships with every customer to grow stronger with mutual success and growth.

Values

Making our customers the focus of everything we do.

Our Infrastructure

- A team of highly skilled and experienced quality control engineers
- Highly reliable localized vendor base
- Well equipped fabrication and machine shop
- Well furnished Admin office

Vision

Being the most admired company in Industrial Services.

Quality Policy

Meeting or exceeding customer expectations through regular improvement.

- A fully fledged CAD 2013 based design section backed by professionals with decades of field experience
- 3D Modeling on the Solid Works, Pro-E, Creo platform
- Gear Design using KISSsoft gear design software

ABOUT US

Core Competency

We expertise in undertaking the projects on Turnkey basis from Layout Planning to successful trial run of the plant and thereafter taking full responsibility for attaining earmarked targets. We have a competent team consisting of highly qualified and experienced Technical staff, which has proved their mettle by executing various projects successfully in record time.

We undertake turn key projects for:

- Hot and Cold Rolling Mill Projects
- Heavy Equipment Fabrication and Machining

Team & Staff

Total Number of Employees :

Approx 250 People (Including Operational, Technical & Marketing Staff)

Total Number of Vendors

Approx 100 Vendors

Team of Experts:

Our organization has a team of skilled and talented professionals, their hard work and meticulous approach is assisting us in our endeavor to offer our precision engineered range. These professionals have valuable experience in their respective areas, which they have gained from reputed companies. They work in coordination with each other to manufacture premium quality reduction gear boxes, Pinion Gear Box gear boxes and, other machines and components. Their endeavors have facilitated us in staying far ahead of our competitors.

Our Team Comprises

Engineers, Quality analysts, Research and Development professionals, Administrative and Management staff, other skilled professional, we conduct regular training sessions for our professionals, to enhance their professional skills. It helps us in smooth operation of our business.

Product Portfolio

Supported by our state of the art infrastructure, we manufacture and export superior range of precision engineered products that includes industrial steel pipes, rolling mill stands, industrial flywheels, gear couplings, stainless steel rolls, Roller Guide Box & Twist Pipe, twisted pipes, pinch rolls, gear boxes, mill stands, shearing machines, rotary shearing machines, reheating furnace equipment and others. We use high grade raw material and comply with the international standards of the industry. Our range is used for numerous applications in Steel Rolling.

Mill Plants

Some of the salient features of our range are as follows:

- Corrosion resistance
- Less maintenance easy to Install
- Simple to use High Performance

Durable

In order to cater to the requirements of various customers, we are also capable to offer our range as per the specifications provided by them.

Our Quality Assurance

Quality at Bentex Industrials Private Limited is result of intelligent direction and skill execution of the task. In order to achieve highest level of customer satisfaction, we endeavor to consistently improvise quality management system to meet the demands of global customers. Our company has quality testing unit, it is equipped with the modern testing machines and tools. To ensure our quality at par with the international standards, we have a team of quality analysts. These quality analysts have experience in the testing of Pinion Gear Box gear boxes, gear coupling and other machines and components. They work with dedication to ensure quality at par with the international standards. We procure raw material, from reliable vendors in order to ensure quality right from the beginning.

Our team of quality analysts undertakes various non-destructive tests on our range to ensure better quality. The tests are based on the following parameters:

- Dimensional accuracy
- Operation
- Tolerance
- Tensile strength

Our quality analysts monitor the entire process and leave no space for any sort of defect. Their sincerity and perseverance have assisted us in offering world class range to our customers.

Technology Efficiency

Plant Engineering and Equipment Design for High Production Mill

We are having a Technology efficient team and vendors in the field of iron and steel making, high production rolling mill, downstream production and iron & steel waste recycling. They provide us with technology, engineering, design and operation assistance.

BENTEX is able to provide following services: Design, Supply of New Mills & Machines for :

- Iron and steel making plants
- Continuous casting plants
- Continuous-endless-cast rolling mills
- Conventional rolling mills
- Downstream industry
- Iron and steel waste recycling plants



Upgradation & Moderization of Existing Sick Mills

Including the tailor made new application of used or not used so called second hand sick plants and machines including all engineering services.

Manufacturing

- Sourcing from local market including organizing vendor selection.
- Technical support to vendor for manufacturing (methoding / processing).
- Inspection and quality control of manufacturing and BO items.

Engineering Support

- Sourcing from local market including organizing vendor selection.
- Technical support to vendor for manufacturing (methoding / processing).
- Inspection and quality control of manufacturing and BO items.

Erection & Commissioning

Organizing the complete activities with the help of vendors / sub-contractors for local authorities and overseas companies and technical experts.

Start-up & Production Assistance

Experienced operators of similar processes and plants working as experts and training of customer staff

Engineering Services

Our Engineering Expertise team can able to offers numerous consulting and engineering services for the iron and steel-industry, wire rod mills and bar mills. The production of wire rod and bars involves complex processes. Therefore, the rolling mill technology and know-how developed and perfected by them could be of high interest to you. They covers the complete range of innovation in rolling mills for long products - from the billet yard down to the specific requirements to the finish product in over 300 steel grades, such as normal steel, stainless steel or high speed steel grades. They are also able to assist you during the planning phase of a new mill or a second hand mill and/or revamping existing mills. Necessary support is also for obtaining of second hand mills.

Tailor Made to Customer Design & Specification for Steel / Tube / Power / Sugar / Chemical Plants

We are serving many type of industries with various type of tailor made designed & specified industrial products applicable to Steel, Tube, power, sugar, chemical plants, Cement & other various type of industries

Clientage



We have to our credit numerous projects from the most reputed national and multinational companies. Our team has rich experience of working for many of our Clients. We supplied those Mill Stands, Gear Boxes, Flying Shears etc. With our tailor made solutions their production increased from 50,000 tons per annum to more than 500,000 tons per annum. Recently, we worked on many project for complete Mill Equipment supply for many of units in Sihor and all over Gujrat. Apart, we also provide

machinery and technical solution to various companies in Bangladesh, Nepal, Indian sub-continent, Gulf Countries, African Countries etc. Presently, we are executing various projects for Rolling Mills in India, Abu Dhabi, Iraq, Iran, Indonesia, Nigeria, Kenya and Pakistan.

Research & Development

We have a state of the art research and development unit, to keep our range in pace with the technological developments taking place in Pinion Gear Box gear and other machines and components. This unit has latest research and development equipment and is managed by a team of skilled research professionals. These professionals have experience the research and development of reduction gear boxes, pinch roll and others. They work meticulously in the advancement of our range. Their endeavors have helped us in maintaining our present position in the industry.

Research professionals conduct research on following factors:

- Raw material
- Latest manufacturing process
- Market dynamics

After Sale Services

Our teams are always availing & efficient enough to serve the clients after sale, they can able to installation, Erection, Commissioning and trouble shooting of Steel rolling mill plants. We provide complete service backup for smooth & efficient working of every product supplied by us.

Emergency services

We can serve in following type of industrial emergencies, if the concern unit provide us necessary information in advance:

- Plant & Machinery breakdown handling services on call.
- Arrangement of Spares to handle the breakdown in shortest possible time.
- Preparation for assemblies for breakdown handling in rolling mills
- Efficient Backup staff & equipment for handle breakdown handling.

WE SERVE IN

Turnkey Solutions for Hot Rolling Mills

BENTEX has been providing complete project solutions (Design, Manufacture & Mill Commissioning) for Bar, Rod and Section mills for the last 14 years. We having a great experience in various succeed turnkey projects to our many of customers to best of their satisfaction & many of the projects in the pipeline. Bentex Industrials Private Limited believes in enduring partnerships with every customer, so that relationship grows stronger with mutual success and growth. Our teams of highly qualified and experienced design engineers are instrumental in providing value added solutions for the Hot Rolling Mill industry. BENTEX has modern facilities with some of the best European made machines equipped with latest CNC and digital readout systems. This coupled with strict Quality Control procedures ensure quickly and smooth implementation of projects.

PLANT CAPACITY: 60,000 - 80,000 TPA Production

PLANT CAPACITY: 100,000 - 125,000 TPA Production

PLANT CAPACITY: 150,000 - 200,000 TPA Production

PLANT CAPACITY: 200,000 - 500,000 TPA Production

The Turnkey Project includes the following supply & services:

- Detail Engineering & Project Consultancy
- Melting Furnaces (IF / EAF)
- Refining Furnace (L.R.F / Converter)
- Continuous Casting Machine
- Electric Power Equipment (H.T & L.T)
- Plant Cooling Equipment
- Material Handling Equipment
- Fume Extraction System
- Liquid Metal Handling Equipment
- Laboratory & Testing Equipment
- Automation (PLC)
- Workshop Equipment
- Erection & Commissioning



Hot Rolling Plant & Machinery

There are various other companies involved in manufacturing bar rolling plants but Bentex having vast experience in the manufacturing of various type of Hot Steel Rolling Mill Plant, Machinery & Accessories. There are various features in our manufacturing which makes Bentex's offered Hot Rolling Plant & Machinery the Technology best in market. We having option of Hot Steel rolling plant & machinery for both small steel sections as well as for large scale steel as well as on turnkey basis projects also. We are serving with complete range of plants and machinery for manufacturing various steel products like Flat, Channel, Angle, Girder, Round, Square, Strip. Our Hot Rolling plant is incorporated with latest and advanced technology.



TMT Bar Rolling & Machinery

There are various other companies involved in manufacturing bar rolling plants but various features makes Bentex's offered TMT Bar Rolling Plant & Machinery the Technology best in market. TMT Bar Rolling Plant & Machinery is useful for engineering and construction industries. We having option of TMT bar rolling plant & machinery for both small steel sections as well as for large scale steel Industries with capacity up to 100 tons per Hour. We are serving with complete range of plants and machinery for manufacturing TMT bars in various shapes like round, square, hexagon & triangle. The TMT Bar Rolling plant is incorporated with latest and advanced technology that makes the plant roll up to 25 meters of bars per second. The plant and machines installed with it is capable of producing 8 MM to 40 MM TMT bars.

Features:

- Options available as fully automatic, semi automatic & manual models
- Capable of performing heavy duty operations
- Available for both small scale and large scale industries
- Excellent speed & produces 8 mm to 40 mm TMT bars
- Guiding, cutting, cooling, coiling & handling equipment
- Excellent production capacity
- High speed
- Accurate construction
- Guiding, cutting, cooling, & handling equipment

Structure Rolling Mill Plant

Bentex is specializing in manufacturing high quality Structure Rolling Mills in different dimensional specifications. We provide our clients a high degree of automation possibilities by using latest technology and digital drives operated by PLCs (Programmable Logic Controller). We use standard products for manufacturing Structure rolling mills and other equipment, as these Mills provide state of the art technology to produce I Beams, H-Beam, Rails, U Channels, Angles, T-Section, Flats, Rounds, Girders, Squares Etc. Structure Rolling Mill Plant is widely installed in industries for construction of railroads, bridges, roller coasters, art, and architectural applications.

Features

We have commissioned each and every required machinery and equipment in the plant so that the entire process of structural rolling can be accomplished in no time. Following are the features that make our manufactured Structural Rolling Mill Plant huge in demand among our clients:

- Basic design & layout Consultancy
- Fully automatic / manual {as customer desired} Rolling angle, channel, I / H beam, flat, round square etc
- High production Light / medium / heavy structure
- Cutting, cooling & handling equipment Straightening Machines

Slit Rolling Mill Plant

We are manufacturing Slit Rolling Mill Plant, which is used to replacing the traditional technique of rolling. The slitting technology is applied to continuous bar mills. In this type of technology, the production of two or more strands is possible from one billet. As compares to conventional rolling mill, this slit rolling plant allows at least two individual bars to get rolled at the same time from a single billet thus increasing the production capacity of typical existing rolling mills operating at a predetermined velocity. The plant ensures state of the art technology, minimum downtime for production thus lowering the cost of production. Our expertise teams are able to transforming any existing rolling mill to a slit rolling mills plant. Slit rolling technique is proved to be a cost-effective solution for high rolling production.

Features

We have commissioned each and every required machinery and equipment in the plant so that the entire process of structural rolling can be accomplished in no time. Following are the features that make our manufactured Structural Rolling Mill Plant huge in demand among our clients:

- Deliver close tolerances on the rolled products
- Minimum downtime
- Continuous rolling of billets into bars in the minimum number of passes
- Quenching and self-tempering facilities
- Higher capacity mills
- Excellent production capacity
- Reduced operational cost

Wire Rod Rolling Mill Plant

Wire Rod Rolling Mill Plant is installed in engineering industries for rolling of billets into wire rods. These Wire Rod Rolling Mills are installed for rolling wires in different grades of metals like Low, medium and high-carbon steels, Cold-formed steels, Ball bearing steel, Electrode wire, alloyed structural steels, and spring steel. The mill plant is also used in manufacturing wire coils from the stainless steel and aluminum sheets. The rod rolling mill has advanced features that ensure controlled rolling and cooling operation in the mill. We have provided the Wire Rod Milling Plant with controlled water-box cooling and draft scheduling for controlled

Features

- Customize & Maximum rolling speed
- Continuous Rolling line
- Tested on parameters such as force, torque, power and temperature
- Production capacity upto 120 t/h
- Excellent production capacity
- Controlled cooling and rolling
- Available with roll pass schedules for all sizes to be rolled

Strip Rolling Plant & Machinery

There are various other companies involved in manufacturing bar rolling plants but various features makes Bentex's offered STRIP Rolling Plant & Machinery the Technology best in market. STRIP Rolling Plant & Machinery is useful for engineering and construction industries. We having option of STRIP rolling plant & machinery for both small steel sections as well as for large scale steel Industries with capacity up to 100 tons per Hour. We are serving with complete range of plants and machinery for manufacturing STRIP in various shapes like round, square, hexagon & triangle. The STRIP rolling plant is incorporated with latest and advanced technology that makes the plant roll up to 25 meters of bars per second. The plant and machines installed with it is capable of producing 8 MM to 40 MM STRIP.



Features

- Options available as fully automatic, semi automatic & manual models
- Capable of performing heavy duty operations
- Available for both small scale and large scale industries
- Excellent speed & produces 8 mm to 40 mm STRIP.
- Excellent production capacity
- High speed
- Accurate construction
- Guiding, cutting, cooling, coiling & handling equipment

Tube & Pipe Mills Plants

We manufacture quality Tube and Pipe Mills in different design specifications with precision. These mills have servo cut system for automatic tube that provides greater accuracy in cut length to reduce the wastage. Better control is achieved by using DC or AC digital drives. Our range of Tube and Pipe Mills are available in low and high speed options based on the requirement of the clients.

Features

- High D / t ratio achievable
- Higher speed for better productivity
- Energy saving AC digital drives (optional) for main drives
- Low burr cold saving system for Cut-Of-Carriage
- Horizontal/Vertical accumulators for strip feeding
- CNC Servo cut System for automatic tube cutting with higher accuracy and of cut per minute



Specifications

NB Size Pipe Mills	Bentex's Tube Mills
Size Range:-	Size Range:-
15-50 mm NB	9-35 mm OD
15-75 mm NB	12-38 mm OD
25-100mm NB	15-50 mm OD
50-150mm NB	25-100mm OD
65-200mm NB	
100-300mm NB	

Cold Rolling Mill Plant

We specialize in manufacturing high quality 4Hi/6Hi Cold Rolling Mills in different dimensional specifications. Using latest technology and digital drives operated by PLCs (Programmable Logic Controller) a high degree of automation can be achieved. We use standard products for manufacturing cold rolling mills and other equipment. Unlike hot rolling mill, the metal treated in the cold rolling mill is kept at room temperature. Basically, the cold rolling process involves the passing of sheets or pipes directed through two or more rollers at room temperature.



These mills provide excellent results especially when it comes to roll very thin gauges. We offer cost-effective solution for designing, development and commissioning of the mills on turnkey basis. Our Cold Rolling Mills are available with coolant, filtrations and other accessories. These rolling mills are widely installed at industries for metals like low carbon steel, medium carbon steel, high carbon steel, silicon steel, brass and alloys.

Features

- Flexible in operation
- Durable
- Digital drives operated by PLCs
- Can roll very thin gauges
- Excellent productivity
- Synchronous cylinders
- Best strip profiles and tolerances
- Sophisticated technology
- Easy commissioning
- High degree of automation
- Strip with tightest tolerances are produced
- Adjustment of screw-down and pass-line systems
- Standard rolling technology

STEEL ROLLING MILL MACHINERY

Industrial Fly Wheels

Bentex is a principal and leading manufacturer of Industrial Flywheels in India. Our group had been a progressive manufacturer of rolling mill equipments in India. We have been manufacturing Flywheels for our in house requirement since 1996.

We having the entire setup of expertise in manufacturing dully machined, bored & scientifically balanced Industrial Flywheels and have among the best facilities for the entire process. Our team of engineers, metallurgists, modern manufacturing and testing facilities allow us to provide reliability meant for heavy duty Flywheels.

Flywheel is actually are heavy metal wheels attached to drive shaft. Its precision designs allows weight to be concentrated at the circumference that helps in reducing speed fluctuation by storing extra energy during part load which is released at the time of overloading.

We are offering the wide assortment of the Metal Wheels to our valuable clients. These precision engineered products are huge in demand in domestic and in various foreign markets as well. The entire product range is strictly examined by an experienced and qualified team of quality inspectors and the complete test is based on various quality parameters. These are widely appreciated for the longer service life, corrosion resistance and easy maintenance.

Technical Features:

Material:- Mild Steel/Graded Cast Iron

Weight:- up to 20 M.T.

Revolution Range:- up to 1000 RPM

Shafts:- Forged EN-Series

Pedestal (Bearing Block) :- Cast Iron with precision (machines Plummer Blocks)

Balancing:- Statically, dynamically and mechanically balanced.

Special Features of industrial flywheels are:

- Statically, dynamically and mechanically balanced.
- Fully machined and bored on VTL up to zero oddness
- Genuine & branded heavy duty antifriction spherical roller bearings are installed
- Flywheel are designed taking into account maximum possible energy fluctuation encountered in service



Industrial gear boxes

Bentex is a principal and leading manufacturer of gears & gearboxes in India. Our group had been a progressive manufacturer of rolling mill equipments in India. We have been manufacturing gearboxes for our in house requirement since 1996. We have the entire setup of expertise in manufacturing precision gearboxes and have among the best facilities for the entire process. Our team of engineers, metallurgists, modern manufacturing and testing facilities allow us to provide reliability meant for heavy duty Gear Boxes.

BENTEX is able to design the technology best Gear Boxes, which created by generations of engineers that combines with the latest design, manufacturing techniques, technologies and materials to make your process faster, more efficient, and cost effective. We serving with variety of solutions for Steel rolling mills, Cement Industry, Sponge iron plants, Sugar mills, Paper industry, Agriculture and Other diversified industries with High Speed Gear Boxes tested up to 10,000 rpm

Benefits to Our Customers

BENTEX whether addressing any industry or other light/heavy assembly manufacturing applications, shares a common goal: production flexibility and high precision gears. Thus yielding substantial benefits

- Quality : World class quality delivered through our state of the art facilities and experienced team of engineers
- Delivery : Supplying within committed schedule due to our integrated manufacturing facilities and reliable vendor base
- Reliability: Developed through years of industrial experience and the latest gear design.
- Price/Performance: Significant savings to end users year on year basis.
- Service : Guaranteed through our developed & committed service network

Our Variety of Gear Boxes Consists



Reduction gear boxes

Reduction Gear Boxes are used for Steel Rolling Mill & many other type of Industries, which is used for reduce the R.P.M. We Can Manufacture and Supply Various type of Reduction Gear Box Like Single / Double / Multiple Stage with Single / Double / Multiple Output Facility :

Input Load : up to 2500 KW (Torque)

Peak Load : up to 10000 KW

Ratio : 1.25:1 to 120:1

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD (as per requirement of mill)

Stages : Single/ Double/ Multiple

Gears : Forged EN-Series Material with SINGLE/Double Helical

Bearings : Imported antifriction Spherical roller bearing

Shaft : Forged EN-Series

Lubrication : Internal pipes connected with central oil lubrication System

Pinion Stand/ Pinion gear Box (Heavy Duty) 3 Hi & 2 Hi

We Can Manufacture and Supply Various type of Pinion Stand Like Single/ Double/ Multiple Stage with Single/ Double /Multiple Output Facility :

Type of Pinion Stand : Single/ Double/ Multiple Input with Single/ Double/ Multiple output

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD (as per requirement of mill)

Ratio : 1:1 to up to the Requirement of Mill

Gears : Forged EN-Series Material with SINGLE/Double Helical/Bevel Gear

Lubrication : Internal pipes connected with central oil lubrication System



Reduction cum Pinion gear Box (Heavy Duty) 3 Hi & 2 Hi

We Can Manufacture and Supply Various type of Pinion Stand Like Single/ Double/ Multiple Stage with Single/ Double /Multiple Output Facility :

Type of Pinion Stand : Single/ Double/ Multiple Input with Single/ Double/ Multiple output

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD (as per requirement of mill)

Ratio : 1:1 to up to the Requirement of Mill

Gears : Forged EN-Series Material with SINGLE/Double Helical/Bevel Gear

Lubrication : Internal pipes connected with central oil lubrication System



Speed Increaser gear Box

Speed Increaser Gear Boxes are used for Steel Rolling Mill & much other type of Industries, which is used for Increase the R.P.M.

We Can Manufacture and Supply Various type of Speed Increasers Like Single/ Double Input-Multiple Output :

Ratio : As per Mill Requirement

Stages : Single/Double Input along with multiple outputs

Gears : Forged EN-Series Material with SINGLE/Double Helical

Bearings : Imported antifriction Spherical roller bearing

Lubrication : Internal pipes connected with central oil lubrication System



Speed Reducer gear Box

Speed Reducer Gear Boxes are used for Steel Rolling Mill & much other type of Industries, which is used for Decrease the R.P.M.

We Can Manufacture and Supply Various type of Speed Reducers Like Single/ Double Input-Multiple Output :

Ratio : As per Mill Requirement

Stages : Single/Double Input along with multiple outputs

Gears : Forged EN-Series Material with SINGLE/Double Helical

Bearings : Imported antifriction Spherical roller bearing

Lubrication : Internal pipes connected with central oil lubrication System

Worm gear Boxes (Standard and Custom built)

Worm Gear Boxes – Standard

We are manufacturing quality Standard Worm Reduction Gear Boxes.

Stages (Model) : In Single & Double reduction.

Center Distance : up to Approx 17" (430 mm).

Ratio : 5:1 to 70:1 in Single Reduction and up to 4900:1 in Double Reduction

Types : Under Driven / Over Driven / Vertical Output Shaft Version / Shaft Mounted Version / "NU" Series gear Boxes up to 9" CD with integral foot / Heavy Duty stirrer Gear Boxes.



Worm Gear Boxes – Adaptable

We are manufacturing quality Adaptable Worm Reduction Gear Boxes.

Stages (Model) : In Single & Double reduction.

Center Distance : up to Approx 86 mm

Ratio : 5:1 to 70:1 in single Reduction and upto 4900:1 in Double Reduction

Types : Under Driven / Over Driven / Vertical Input or Output Shaft Version / Shaft Mounted Version / All types with motor mounting adaptor / motor - optional



Worm Gear Boxes - Special

We also manufacture Worm Geared Motors, Cooling Tower Gear Boxes, Lift Duty Worm Gear Boxes, Tube Mill Gear Boxes, Heliworm Gear Boxes, Screw Jacks, Luffing Gear Boxes, and Import Substitution Gear Boxes

Helical gear Boxes (Standard and Custom built)

Helical Gear Boxes (in Single, Double, Triple and Quadruple)

We are engaged in quality manufacturing of Helical Gear Boxes in Single, Double, Triple and Quadruple stages

Stages : Single, Double, Triple and quadruple stages up to 800mm Center Distance at Final Stage.

Ratio : Up to 630:1

Type : Foot Mounted Solid Shaft/ Hollow Shaft Versions, Shaft Mounted Version with Shrink Disc, Non- reversing type (Hold-Back)

Bevel gear Boxes (Standard and Custom built)

Bevel Gear Boxes (in Single, Double, Triple and Quadruple)

We are engaged in quality manufacturing of Bevel Gear Boxes in Single, Double, Triple and Quadruple stages

Stages : Single, Double, Triple and quadruple stages up to 800mm Center Distance at Final Stage.

Ratio : Up to 630:1

Type : Foot Mounted Solid Shaft / Hollow Shaft Versions, Output Shaft Vertical Up / Downwards, Shaft Mounted Version with Shrink Disc, Non- reversing type (Hold –Back)



We have the entire setup of expertise in manufacturing fully machined, bored & scientifically designed various type of Steel rolling Mill Stands and have among the best facilities for the entire process. Our team of engineers, metallurgists, modern manufacturing and testing facilities allow us to provide reliability meant for heavy duty Mill Stand.

Our team of Experts carefully selects the type of mill and stand with due regard to production, steel grades, easiness of maintenance, and quality requirements of the products.

We can manufacture and supply complete mill stands for the rolling of Wire rods / TMT / Light Section / Medium Section & Heavy Sections steel and of ferrous and non ferrous metals, technicalities of our Mill Stands are:

Special Features:

- Heavy duty and sturdy design which is suitable to bear overloads
- Complete housing / structure of the Mill Stand is Stress relieved and fully machined
- Genuine and Branded Heavy Duty Accessories are installed after thorough calculation
- Compact and simple design to ensure quick roll change, easy maintenance and to avoid major down time

Our Complete Mill Stand includes the following accessories as and where required: -

- Pressure Bolts with Worm Wheel Arrangement
- Steel Fabricated Rest Bars & Side Bars (Swedish Type)
- Adjustment Screws and L-Keys
- Wear & tear Plate on the inside of Mill Stands for Long Life.
- Universal Couplings / Cast Iron Couplings, Star Groove / Key type to suit Bearing Chocks / Forged Steel Chocks with One Set of Roller Bearings / Fibre Bearings
- Spindle Spindles manufactured out of Forged Steel, Star / Key type Tie Rods with Nuts & Spacers
- C.I. Foundation Rails along with Foundation Bolts with Nuts & Spacers Tee Bolts with Nuts & Spacers



Mill Stands (Traditional)

Mill Stands - Gun Metal Type (Heavy / Extra Heavy Duty)

Material : Mild Steel, Graded Cast Iron

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD (as per requirement of mill)

Housing (Stand) : Two open housing connected together With standard



Mill Stands - Spherical Roller Type (Heavy / Extra Heavy Duty)

Material : Mild Steel, Graded Cast Iron

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD (as per requirement of mill)

Housing (Stand) : Two open housing connected together With standard accessories

Chocks : Steel Chocks with each stand for Spherical Roller Bearing

Mill Stands - Fiber Bearing Type (Heavy / Extra Heavy Duty)

Material : Mild Steel, Graded Cast Iron

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD (as per requirement of mill)

Housing (Stand) : Two open housing connected together With standard accessories

Chocks : Steel Chocks with each stand for Fiber Bearing



Vertical Mill Stand (Heavy / Extra Heavy Duty) Mill Stand

Vertical is usually used for Strip Mill, Flat (Bar) Rolling Mills Etc.

Material : Mild Steel

Sizes : Upto 660 mm

Choks : Steel Choks with each stand for Spherical Roller / Taper Bearings.



Vertical Mill Stand (Heavy / Extra Heavy Duty) Mill Stand

Mill stand Continue is usually used for TMT Rolling, Round Rolling, and Section Rolling Mills Etc.

Material : Mild Steel

Sizes : 6" to 30" i.e. from 150 to 750 mm PCD

Housing (Stand) : 2 open housing connected with standard accessories

Choks : Steel Choks with each stand for Spherical Roller Bearings.

Coupling & Shaft : Cardon Shaft

Mill Stand - Housing Less (Heavy / Extra Heavy Duty)

Housing less mill stands are capable for High rigidity, reliability and quick roll change. The Housing Less Mill stands can be interchanged very quickly because of the fully automation of the connection and disconnection of the spindles and all the fluid utilities. We are offering various versions including horizontal, vertical, convertible and drop-in joker (which converts a horizontal to a vertical) type housing less mill stands:

Features

- Variable Component
- Rigidity, Reduced Stress Path
- Fully Automatic Operation
- Axial Roll Adjustment
- Automatic Screw-down System
- Possibility for adjustment under load
- Minimum wear and positive engagement due to self-balancing spindle support
- A roll balance system, which eliminates backlash
- Long bearing life
- Automatic utility (Spindle/Roll/Fluid) connections



Mill Stand - Sliding

Modern 2-high sliding stands are reversible and fully automated. They represent an innovative solution for roughing and intermediate mills and constitute the latest stage of 3 high stand evolution.

Features

A Fixed rolling line with sliding stands to match the exact groove according to pass design reduced roller table width.

- Advanced billet manipulation system
- Automatic roll gap adjustment
- Simple foundations
- Reduced bite angle due to adjustment entry speed

Mill Stand - Convertible

Convertible stands allow either horizontal or vertical positioning of the intermediate finishing trains in accordance with production requirements.

Features

A Fixed rolling line with sliding stands to match the exact groove according to pass design reduced roller table width.

- Less than two minutes to change position
- Reduced foundation depth
- Excellent stand rigidity
- Quick stand change system without crane requirement

Mill Stand - Universal

These stands are interchanged with horizontal stands when rolling structural shapes. In addition to the horizontal rolls, the stands are fitted with a set of idler rolls to work the flanges.

Features

A Fixed rolling line with sliding stands to match the exact groove according to pass design reduced roller table width.

- Fast stand and roll change
- Hydraulic vertical and horizontal roll adjustment
- Modular design with housing less design
- Highest rigidity with housing less design

TMT Equipments - (quenching systems)

- Quenching Process Solutions in a capacity up to 100 Tons per hour
- Self Tempering Process that ensures high Weld ability
- TMT Bars of Fe 415, Fe 500 & Fe 550 Grades

Thermo Mechanical treatment (TMT) Process basically consists of Following Steps:

Quenching

After the hot rolled bar leaves the finishing mill stand, it is rapidly quenched by a water spray system hardening the surface of the bar to an optimized depth optimized through formation of martensitic rim while the core remains hot and austenitic.



Self Tempering

When the bar leaves the quenching box its core is at higher temperature compared to the surface causing the heat flow from the core to the surface resulting in tempering the outer metallurgy layer into a structure called Tempered Martensite. The core still remains austenitic at this stage

Atmospheric Cooling

This takes place on the cooling bed where austenitic core is transformed into ductile ferrite pearlite structure by Eutectoid reaction as Austenite cools below 727 Degree centigrade. Hence the final structure consists of an optimum combination of strong outer layer (tempered Martensite) with ductile core (ferrite pearlite).

Quenching Systems Manufacturing

- Fabrication through CNC profile Cutting Machines and welding machines
- IS 304 grade stainless steel casting done through investment casting technique
- In-house gear grinding and testing facilities to ensure the highest standards in manufacturing of shears and pinch rolls
- 22,500 sq. ft. of dedicated assembly space
- Experienced team of engineers and fitters dedicated to the manufacture of the quenching systems
- Complete in-house rig to test functioning of system

Quenching Systems the Commissioning / Start-Up Team

A team of engineers only for commissioning Quenching Systems that includes Electrical engineers, Mechanical engineers, Electricians, Mechanical fitters, Metallurgists on roll Etc.

Steel Rolling Mill Machinery

Shearing Machines

We provide a comprehensive range of shearing machines that offer high strength, stable performance, easy Operation and convenient maintenance. With robust design, our shearing machines feature all welded steel frame to ensure durability and performance. Additional safety features such as overload protection adds to the reliability of the machines. Our range of quality shearing machines includes Billet Shearing Machine, Flying Shear Machine, Cold Shearing Machine, Alligator Shearing Machine etc. With our main mission of customer satisfaction with superior quality Shearing and Cutting Machines we always deliver items on time with the very competitive prices.



Billet Shearing Machine

We Can Manufacture and Supply various sizes of Billet Shearing Machines

Used For : Billet – cutting up to 200x 200 mm {Specialty -Round-Cutting of up to 225 mm}

Operation : Without Clutch Mechanical Clutch



Rotary Shearing Machine- Swill type

We Can Manufacture and Supply various sizes of Rotary Swill Shearing Machines. These types of machines are used in pairs between Roughing and intermediate Finishing Mill Stands for Fix Length cutting of TMT Bar/ Wire Rod Mills.

Used For : TMT– cutting up to 25 mm : Specialty (Round-Cutting of up to 225 mm)

Operation : Pneumatic cylinder

Rotary Shearing Machine- Fix Type

We Can Manufacture and Supply various sizes of Fix Rotary Shearing Machines. These types of machines are used in pairs between Roughing and intermediate Finishing Mill Stands for Front & End cutting of TMT Bar/ Wire Rod Mills.

Used For : TMT (Front & End cutting)

Operation : Pneumatic cylinder



TMT Shearing Machine with Power Backup

It's our specialty Product that can be work either the electricity goes.

Used For : TMT– cutting up to 16 mm

Can be used for : (Round- up to 20 mm) (Square- upto 16 mm)

(Special Feature) (Flat- up to 50x6 mm) (Angle- up to 25 mm x 25 mm)

Operation : Mechanical

Power Backup : Diesel Engine



Round Shearing Machine

We Can Manufacture and Supply various sizes of Round Shearing Machines (As per required Sizes)

Used For : Round– cutting up to 110 mm

Can be used for : (Square- upto 90 mm)(Flat- up to 355x50 mm)

(Special Feature)(Angle- up to 200x200x20 mm) (Channel- up to 400x100)

Operation : Mechanical Clutch



TMT Shearing Machine

We Can Manufacture and Supply various sizes of TMT Shearing Machines

Used For : TMT– cutting up to 40 mm

Operation : Mechanical Clutch



Flat / Plate Shearing Machine

We Can Manufacture and Supply various sizes of Flat/Plate/ Scrap Shearing Machines

Used For : Flat– cutting up to 75 mm, (Specialized making of in 6½ feet width plate Cutting Machine)

Operation : Mechanical



Alligator Shearing Machine

We Can Manufacture and Supply various sizes of Alligator Shearing Machines

Used For : Front & End cutting of Semi-finished worm material

Operation : Mechanical

Horizontal Shearing Machine:

We Can Manufacture and Supply various sizes of horizontal Shearing Machines

Used For : Front & End cutting of Semi-finished worm material (Along with half length cut Facility)

Operation : Mechanical



Steel Rolling Mill Machinery

Angle Cutting Shearing Machine

We Can Manufacture and Supply Various sizes of Angle cutting Shearing Machines

Used for : Angle-Upto 200x200x20 mm & above if require

Operation : Mechanical Clutch

End Cutting Shearing Machine

We Can Manufacture and Supply various sizes of End cutting Shearing Machines

Used for : TMT End Cutting

Operation : Mechanical Clutch



Pinch Roll

Our range of pinch rolls is manufactured by using superior quality raw material and in compliance with the international standards. In order to cater to the requirements of customers, we offer them the facility of customization. Apart from manufacturing premium range of Pinch Rolls.

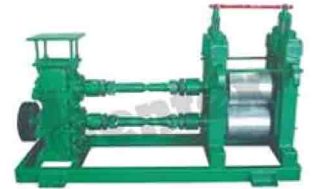
Material : M.S. Prime Plate, Graded Cast Iron

Sizes : 205 mm to 355 mm (as per requirement of mill)

Chocks & Bearing : Steel Chocks fitted in Pinch Roll with Spherical Roller Bearing

Shaft : Jointing with Cardon Shaft

Gear Box : Includes Forged Steel Single Helical Gears with all accessory



Tail Breaker

Our range of Tail Breakers is manufactured by using superior quality raw material and in compliance with the international standards. In order to cater to the requirements of customers, we offer them the facility of customization. Apart from manufacturing premium range of Tail Breakers. Tail breaker is installed after the flying shear and before cooling bed to reduce the velocity of the TMT bars. It runs through Dc or AC variable drives. The Rolls are separated through pneumatic cylinder control. It consists of steel fabricated body, pneumatic cylinder, top and bottom rocker arms and rollers.

Material : M.S. Prime Plate, Graded Cast Iron

Sizes : 205 mm to 355 mm (as per requirement of mill)

Chocks & Bearing : Steel Chocks fitted in Tail Breaker with Spherical Roller Bearing

Shaft : Jointing with Cardon Shaft

Gear Box : Includes Forged Steel Single Helical Gears with all accessory

Operation : Pneumatic Cylinder control through DC or AC Drive



Flying Shearing Machine

Flying Shear Machine is used to cut the material of various sizes, in different lengths of Shearing Machines with flying arm effects. It is installed after the Shearing Machines and before the cooling bed. It drives through Programmer Logic Controller (PLC) system. DC or AC Variable Motors. It is used in high speed mills.

Flying Shearing Machine is installed after TMT quenching box and before the cooling bed. It is used to cut the material of desires sizes in different lengths of TMT bars with fling arm effects. It drives through programmer logic controller (PLC) system, DC variable motors & digital DC drives.

We manufacture flying shear with a capacity of TMT Bar sizes 8mm -40 mm.

Features

- Flying shears find application in different applications from cutting material on fly to filling bottles being fed on conveyor and others
- These are suitable for processes requiring speed matching to given axis.
- Also suitable for meeting needs of random in-feed as well as constant feed applications
- Available in multiple cut modes that allows operator to accurately cut product using cut-to-length and as cut-to-registration options
- Optimum machining speed as product is being cut so as to prevent product damage and achieving smooth, straight cuts
- Increased throughput because of higher speeds as well as lower downtime



Crop & Cobble Shear

Crop and Cobble Shear offered finds application in continuous cutting of the bars or at desired cutting points. Here, our expertise lies in offering shear from 400 mm crs up to 1000mm crs with dual mode support comprising crank mode or continuous mode as preferred by the customers. Further, our expertise also lies in manufacturing crop shearing machines for types of bars, rounds as well as for structural products like angle, I/H beam, Flat, U Channel and others.

Features

- Precision designed and finished steel fabricated construction
- Double bored finish with support of pulley-cum-fly wheels and alloy steel pinions
- All shafts made from superior grade steel so as to provide for durable performance
- Centralized oil lubrication system to deliver optimum performance values in the machines
- Being of start/stop type, these can be driven with flywheel mounted pneumatic clutch/brake as well as through direct DC motor support
- Machines used in hot rolling to front end, tail end and for segment cutting
- System helps in achieving close cut lengths
- Option of crop cable to be configured with PLC so as to achieve precise control over involved process



Wire Rod Rolling Mill Plants

Wire Rod Rolling Mill is a metalworking process which is used in various milling industries for reducing cross-section of a wire rod by pulling wire through a single, or series of, rolling machines. All our products are assured to be made of steel that is high-grade & hot-dip galvanized, making them almost maintenance free.



Features of offered Machines :

- Robust Construction
- Resistant from rustiness and corrosion
- Quality check is performed stringently
- Low maintenance cost
- In accordance with the industrial standards
- Durable
- Available at nominal prices
- Tensile strength
- Easy to install

Block Rolling Mill (NTM Featuring)

Block Rolling Mill (No –Twist Block Mill) is a group of equipment having assembled set of small rolls in one machine for meeting the production needs in wire rod or coil making process. The block is installed after heavy reduction passes of roughing mill stands where a higher speed is desired for making wire rod or coils. Block Rolling Mill comprises several passes of long product that allows the end material to attain the proper desired shape as well as move in high tension to deliver optimum finish quality standards in the manufactured products. Bentex is manufacturing Block Rolling Mills up to 100 m/sec along with maintaining precision design and manufacturing standards for the offered NTM blocks. Further, with the block equipment made using durable material and in precision finish, these are able to get desired wire rods, coils as finish product.



Features:

- No-Twist mill (NTM) featuring smaller diameter cantilevered rolls arranged alternately 45 deg above as well as below horizontal
- Presence of 90 degree relationship between adjacent roll pairs also eliminate requirement of twisting oval-shaped rod into round passes
- Designed to deliver sustained as well as reliable operations at high speeds, thus resulting I greater production volume
- 45° (X) arrangements for twist free rolling
- Low-cost production even for small order lots
- Most compact stand design available on the market
- Rigid cassette-type stands for unsurpassed product tolerances
- Reduced bay height requirement
- Fast cassette change with standard mill crane; open access to top of cassette
- Models avail up to 150 ton per hour capacity.
- Fast roll change, with no need for special equipment

WIRE ROD ROLLING MILL EQUIPMENTS

Wire Rod Outlet

BENTEX provides the complete range of equipment needed for today's modern wire rod mill operations with specific solutions for carbon steel, quality steel and special steel. Our finishing blocks with design speeds of up to 80 m/second are in operation, offering maximum reliability and efficiency, as well as maintaining close tolerances

Features

- Highest rolling speeds (design speeds > 80 m/s)
V-mill configuration
- Inter-stand cooling Highest reliable finishing speed
- Close tolerances on rolled products High productivity with "rolling forward"
- High-load stands Online gap adjustment
- Controlled temperature, rolling procedure Maximum mill reliability and efficiency
- Modular design

Coilers

Coilers are forming the coils with coil axis vertical. The coilers are available for rod sizes from 5.5mm to 12 mm and bar speeds up to 40m/sec. The design is compact and rugged. The laying pipes are so configured to obtain the out-put coils of perfect shape. Bearings are protected against heat radiations. For drawing SS wire / HC wire, twist free

Features:

- Safe and speedy operation
- Smooth and efficient
- Robust construction
- Available in application specific design
- Accurate in dimension
- Easy to handle
- Manufactured using quality grade stainless steel
- Available in various sizes and ranges as per specific requirements



Skew Table

Skew Table is used for producing metal balls. We are the prominent manufacturer of highly efficient Skew table machine which can handle the production demands of balls in different diameters like 20 mm, 45 mm, 80mm, 100 mm and others. These machines can be used in meeting the production of steel milling balls, Bearing steel ball and roller, Aluminium ball, complicated machinery parts and Anchor in different diameter sizes.

Features

- Most Useful for Wire Rod Rolling Mills.
- Transmission gears working in thin oil tanks that allows for smooth operation standards
- Easy to adjust process system handling interface
- Can be made available in options including diameter of ball milled, mix diameter of roller, rotating speed roller, mix obliquity of roller, and motor power support among others.

De-Coiler

De-Coilers are widely used in various Milling Industries for de-coiling metals. We offer most affordable De-coiling solutions for use in continuous process lines like sintering lines, Babbitt lines, de-greasing lines and pickling lines. These machines facilitate quick and safe loading of the coil to the mandrel. One coil remains loaded as standby as soon as the running coil is finished, the fresh coil is automatically loaded to the line. This enhances the efficiency and increases the overall production.

The range of our De-coilers has a welded steel construction with a dynamically balanced base for smooth operation. The duplex head is mounted on the dual taper roller bearing to make indexing frictionless. Drums are expandable and each section has two guards to prevent coils to flare up. De-Coilers are available in single and double mandrel format.

Specifications

Operation Mode : Hydraulic/Mechanical

Capacity : up to 35 metric ton

Size : up to 2000mm

Features of Decoiler

- Alloy steels Parts
- Manually/ Hydraulic operated Jaws expansion
- Mechanical brake for smooth working
- Option of Coil car carrier & Snouber.
- Heavy-Duty Lifting Strap
- Offered in coil widths of 30" and 48"
- A/C motor with loop control driven.



Drum Twister Machine

We are prominent manufacturers of Drum Twister Machine. These twisters are used for core laying of power cables that are round, performed or straight in shape and telephone cables in groups. In the Drum Twister Machine, typical auxiliary equipment includes steel wire performers, concentric and eccentric taping units and binders and fillers.

Features

- High speeds Rotations
- Speed controlled units
- Goose neck traverse with roller guide system,
- Integrated lifting platform to facilitate loading and unloading of reels
- Independent drives for rotation, traverse; lay/pitch and take-up
- Wide range of payoffs, taping heads, binders, filler and other auxiliary equipment
- Closed and Open Fork Design
- Integrated drive and control package with optional recipe driven package
- Optional video winding monitor
- Models sizes avail from 3' to 15' (with reel weights to approx 35 tons)



STEEL ROLLING MILL LINES

Slitting Lines

A Slitting Line is used to break down master coils into smaller coils of a particular width. We offer highly efficient slitting lines for Hot Rolled and Cold Rolled ferrous strips / non-ferrous strips. Bentex is able to providing custom designs on the basis of production capacity, high quality of slit product, automation level, and flexibility of operations and budget of the clients. Incorporating latest technology, our slitting lines provide rapid change over with an increased output. The lines are capable of producing superior quality of the slit coils with significantly higher levels of productivity. The capacity of the line ranges from 300mm to 2000mm (width) and 0.10mm to 10.0mm (thickness) in strips.



Features:

Automation : We can offer completely automated sitting lines with computerized diagnosis, production control systems, Management information and control systems based on the requirement of the clients.

Edge-Trimming : The edge trimmers provide excellent finish to the slitted product. The edge-trimmer heads can be inject amounted, inter-changeable with the slitter heads or can be built into dedicated edge-trimming lines. The dedicated lines can be manufactured upto a speed of 300 mpm.

Recoiler Drums : We have a broad range of Recoiler Drums to suit different applications, strip thickness and materials. Expanded leaf type for thick strips (1.20mm and thicker), Concentric collapse six segments three wedges for thin strips(0.30 to 1.20mm) and Concentric positive collapse six segment wedges for very thin strips(0.30mm and thinner). Replaceable recoiler drums with very low changeover time are one of our innovations with special design features.

Cut to Length Lines

Cut-to-length lines, takes flat rolled steel or coiled steel, unroll it, levels and cut it to desired length sheet. Our Manufactured Cut-to-Length Lines can be used for processing both ferrous and non-ferrous material. These lines are available in varied specifications with width range of up to 1500mm and thickness range of up to 10.0mm.

Industry Lines:

Industry line is suitable for high quality requirements of automotive and white goods Industry. In these lines, a constant loop speed is maintained that pushes the material in the loop. A low inertia Feed Roll pulls the material out of the loop at high speed and stops at the exact required length, ensuring accurate cut lengths. These lines . provide length accuracy of $\pm 0.05\text{mm}$ and diagonal accuracy of $\pm 0.5\text{mm}$ can be achieved, depending on the selection of electrical controls. The Industry Line can cut sheets at the rate upto 40 Stroke/minute and speeds up to 80mpm



Tension Leveling Lines

Our Tension Leveling Lines are designed to provide excellent sheet metal flatness required for high quality applications in different industries. The material is run through an entry and exit set of bridle rolls, with the center corrective leveler. The strip is under great tension with a slight elongation above the yield point of the material, and simultaneously leveled. The material is uniformly leveled and relieved of most internal stresses.

Tension Leveler:

The Tension Leveler arrangements include of an undriven leveler with entry and exit bridles. In the automated lines the degree of elongation is determined by the difference in the speed or the tension generated between the bridles. The Tension levelers are available with different drive options such as closed loop mechanical differentials, all-electrical drives and combination electrical-mechanical drives.



Specifications

- The leveler avail in 2, 4, 5 or 7 work rolls modules.
- 4 Hi or 6 Hi configurations avail.
- User friendly design.
- Stress relieved tension levelers equipped with neutralizing sections
- Available in 2 roll or a multiple roll designs.

Reform Stations

Variable coil weights are increasingly in demand. The reform tub shear, a new technological innovation, allows operators to select any desired coil weight.

Features

- 25% reduction in coil height
- Improved pay-off performance in comparison with conventional systems
- Improved coil appearance
- Less risk of mechanical damage

Coil Handling Systems

Different systems are available according to special requirements.

Features

- Pallet transfer system
- Coil compacting and binding
- Coil tracking systems
- Hook transfer system
- Coil weighing and labeling systems

STEEL STRAIGHTENING MACHINES (Round, Section, Bright Bar etc.)

Straightening Machine (For Section Straightening)

We offer the complete line of Straightening Machine that are used to Straight various types of Steel Products. Our Straightening System can be easily availed at the most nominal prices. The Straightening Machine manufactured by us is widely recommended by our customers all over the World for use in Heavy Section Rolling Mills. Straightening machines usually used for straighten the steel material.

Capacity : Angle: up to 200x200x20 mm Channel- up to 400x100

Reduction Gear Box : Fitted on Base

Rolls : Forged steel Rolls 8 No. And 10 No.

Gear : Forged EN-Series/Axial Steel: Forged Steel

Bearings : Imported Anti-Friction Roller Bearing

Roll Adjustment : Vertical and Horizontal – Mechanical



Straightening Machine & Wire Cutting Machines

We offer the complete line of Wire Straightening Machine & Wire Cutting Machines that are used to cut various types of wires. Our Wire Straightening System can be easily availed at the most nominal prices. Used in varied industries, the Wire Straightening System manufactured by us is widely recommended by our customers all over the country.

Wire Straightening & Cutting Machine's Features

- Manual/ Semi Automatic /Fully Automatic Steel - Bar straightening & cutting Machine options avail.
- Smooth straightening & cutting motion
- Handy to operate and control the machine ensuring safety whilst in use
- Hi- Speed Accurate straightening
- Manual/Automatic Cutting option avail with adjustable length
- Incorporates an overload value, which is designed to operate in case of overload
- Cost effective
- Low power consumption
- High grade steel for construction
- In compliance with the industrial standards
- High operational fluency



Wire Straightening & Cutting Machine's Full Specification:

Model	Bentex M-04 to M-025
Thickness of Wire mm	1.5 to 25mm
Length of Wire to be cut automatically mm	28 to 1500 mm
Feeding Capacity per Min.	Upto 90' feet

MATERIAL HANDLING EQUIPMENTS

Automatic Cooling Bed

Automatic Rack Type Cooling Bed provide uniform air-cooling to the bars & profiles and transport these in phased manner from entry to discharge side. Our automatic Cooling Beds available in precision designed and engineered finish so can efficiently handle the requirements from smallest to maximum bar sizes that need to be rolled. Our Cooling Beds are able to providing desired adjust ability in terms of size, shape, alloy of profiles and maintaining appropriate cooling rates to ensure minimized distortion and help in achieving high quality profiles.



Features

- Automatic cooling beds (rack type) up to 70mtr
- Designed & Developed as per Plant's requirement
- Uniform air-cooling to TMT bars
- Transporting Finished Product in phased manner from entry of cooling bed to the discharge side
- Front end of bars leveled at discharge side with fixed number of bars provided for final length cutting via cold shear and bundling process
- Superior working mechanism ensures bars positioned uniformly over toothed racks

The complete system comprises:

- Straightening racks comprising cast iron toothed blocks for receiving and straightening bars at temperature of around 600° C
- Movable rack mechanism to move in x and y axis which will be profile cut to suit smallest size as well as maximum bar size
- Fixed rack mechanism that receives bars from movable rack mechanism as bars are being transferred toward delivery side of cooling beds
- Drive for movable rack mechanism comprising motors driving two parallel sets of drive shafts
- Bar aligning rollers fitted at end of racks and driven by motors for aligning bars front end before delivery to run-out roller table

Twin Channel

TWIN Channels is an important part of the rolling system as these channels minimize the risk of accidents while transferring the bars. Bentex's expertise team, unique design and latest technology make the twin channels capable of guiding the discharge of the rods from dividing shear. The basic and prime use of twin channel is to collect the TMT bars leaving the quenching boxes after being sheared by the flying shear in two strands. All the channels are manufactured comprising of CI central box and C-type CI channels. There is a system for cooling water in order to prevent warping during rolling. Bentex's twin channel is capable of collecting bars with size up to 40mm in diameter, stroke and have a maximum speed of about 25 meters per second. Bentex's TWIN Channels are able to wide application in the rolling mill plants for high speed handling of bar at cooling beds.

Features:

- Capable of collecting bars with size up to 40mm in diameter and stock.
- Incorporated with advanced features
- Maximum speed of about 25 meters per second.
- Twin water-cooled C-type channels with water cooling arrangement
- Supporting arrangement for the twin-channel and drive system
- Cam device for opening closing of the pipes
- Prevention from warping
- Closed channel for transferring bars
- Hydraulic Drive for operation of the cams
- Highest level of safety
- Can be attached to braking pinch rolls



Conveyors, Repeaters & Y Table

We are a prominent manufacturer of Conveyor, Repeaters & Y-Table that is renowned for its efficient performance. We have earned enough specialization in this domain and are manufacturing high grade Conveyor, Repeaters & Y-Table with technically advanced features. A rolling mill duty, Heavy Duty Conveyor, Repeaters & Y-Table, available with us, is developed with the help of effective technology; and is utilized for Cutting Raw/Finish Steel Material in the Mills. Our products are available in various specifications, sizes and patterns. These are generally used for transfer for hot/cold steel material from one station to other station. These are used for Roughing, Intermediate, Finishing mills, Section Mill, Heavy round Square, Flat, TMT, Girder, Bar Mills Etc. The Conveyor, Repeaters & Y-Table are delivered completely assembled with all seals and fittings to match your installation equipment and pressure tested to endure against Break & leaks. With our main mission of customer satisfaction with superior quality Automation Products we always deliver items on time with the very competitive prices.



Technical Features:

Material used : Fabricated from Mild Steel Prime Plate and Structure Steel, Graded Cast Iron, Seamless Pipes, Forged Steel Round Etc.

Rounds : H.C. Steel

Base Plate/Pedestal : Fabricated from Mild Steel Prime Plate and Structure Steel

Bearing : Antifriction Roller bearing,

Bearing Block : Heavy Duty Cast Steel / Graded Cast Iron

Driven by : Chain Sprocket/ V-belts & Lubrication system



We can Manufacture and Supply Various Kinds / Sizes of Conveyor, Repeater

Material Handling Tong

We are engaged in manufacturing of Mechanical/ Hydraulic type Material Handling Tong which is used in Steel Melting Shops for grabbing the hot Billet/Ingot/ Round as well as in Steel and other type of industries and material and place it in finish Stock yard. It is fully mechanical device sterilize with Mechanical interlocking system which is very safe to use, effective result, less Cost & time savor equipment.

Bentex is manufacturing various model & Sizes of Material Handling Tong.



Material Handling Magnets (for Scrap, Billet etc.)

These magnets have a cast case, aluminum or copper coil standard field, deep-field, and extra deep-field models available

We supply & Export Various kind of heavy duty lifting magnets designed for steel mill use. For added impact resistance, a rugged ribbed case is cast from a special high-strength alloy steel that combines high strength and magnetic permeability. The special bottom plate is wear-resistant manganese steel with an extra-heavy cross section. The case has a welded watertight construction and tough alloy steel chains.



Our Supplied Magnets are available in standard, deep-field, and extra deep-field strengths. Models are offered with Aluminum Coils or Copper Coils. All elements are computer designed for ultimate lifting performance and mechanical strength. The result is a lifting magnet that sets new standards for performance, endurance, and reliability. From heavy duty chain through high temperature insulation to specially-designed-and-built winding hubs, our technology offers every assurance against costly downtime.

Standard Features and Benefits

- 75% Duty Cycle
- Maximum slab lifting capacity
- Class H insulation utilized for layer-to-layer, turn-to-turn, coil-to-case insulation
- Alloy steel chains for greater life and maximum durability
- Avail for Scrap, Ingot, Billet, Plate Grabbing
- Watertight, all-welded construction
- Larger pole shoes
- Extra rugged cast steel case
- Triple sealed terminal boxes
- Many sizes available up to 55 M.ton rated lift.

Scrap Charging Machines / Trolleys

Bentex can supply various designs of scrap charging machines/ Trolleys for charging of front/ top loading melting furnaces. The charge boxes are designed as large as possible to fit the door opening and hearth size of the furnace to minimize the number of charges per melt cycle. During charging the door is only open between one and two minutes to minimize the heat loss and temperature drop within the furnace chamber. The charge box and plough pusher are manufactured from heavy plate work and designed to withstand the arduous thermal and mechanical stresses imposed from charging and heat from the furnace. The machine can either be hydraulically or electro-mechanically operated.

Machines can be designed for single furnace or multiple furnace installations. They can be designed to travel down shop charging several furnaces or direct in line with a single furnace. A rotating top carriage and charge box can be integrated to allow charging from multiple positions to suit space restricted layouts. All machines are custom designed to suit new or existing furnaces and plant layouts. Machine capacity ranges from 1 tons to 30 tones depending upon scrap density.

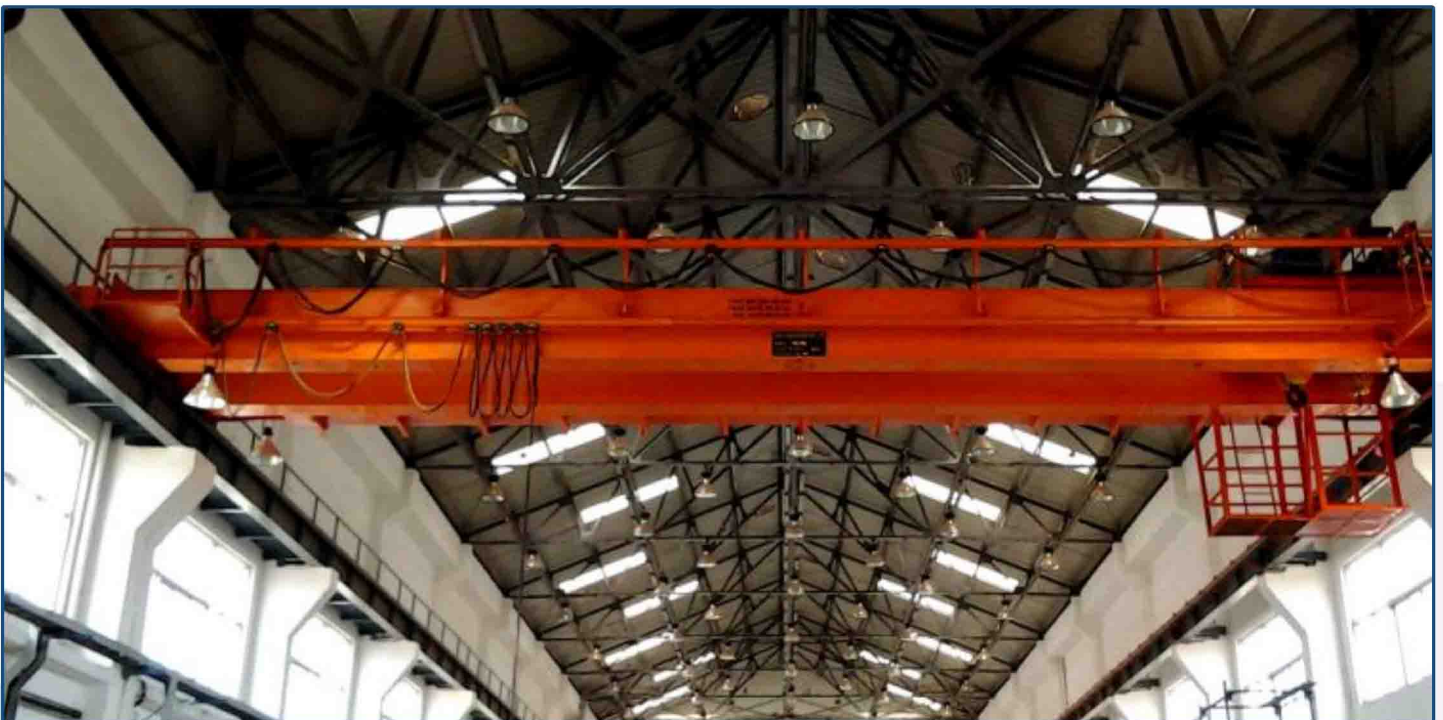


EOT (Electric Overhead Travel)/goliath/gantry Cranes

We are the Prominent Manufacturer of EOT/ Portal/ Goliath/ Gantry cranes & Crane Spare in India. We have Comprehensive range of heavy duty EOT crane systems (double girder, single girder, under slung etc.) of capacity up to 500 tons for various applications in power, nuclear, shipbuilding, steel plant, heavy/general engineering sectors etc. We recommend you the perfect customized solutions after doing an in-depth analysis of your applications, production facility, factory, and material handling requirements.

Features

- Easy to install. Ensures maximum rigidity with a minimum dead weight
- Compact dimensions, low weight, easy to operate and maintain
- Safe and sustainable production at every level of our supply chain in compliance with ISO 9001:2008 (Quality)
- Product package also includes assistance with the installations, safety measures and training for operations and maintenance, as well as inspections and after sales services
- Precision flat helical / spur gear units in light alloy housings with case-hardened gears, high- grade surface treatment and permanent oil / grease lubrication
- Modular design, covering a very wide operating range. The systems are designed for ease of installation and maintenance and reliable operation, with fuse less circuitry, ducted wiring and non-screwed terminals. Each drive group is equipped with a motor overload protection
- Safe and reliable hoisting and travelling
- Higher efficiency to save power
- Micro speed for all motions through inverter (VVVF) drives with suitable interlocking
- Close loop circuit for hoisting mechanism with encoder feedback for fault detection
- All motions are protected with limit switches to prevent over hoisting & over lowering of hook
- Platform with hand railing for easy, simple & safe maintenance of the crane extended partially or totally along the girder width
- Wireless Remote control Options are available.



INDUSTRIAL OIL LUBRICATION SYSTEMS

Oil Lubrication System

Oil Lubrication System is generally used for control temperature & Texture of Gears & Bearing of complete rolling mill. These are used for prolonged the life of machine.

Our Oil Lubrication systems are basically designed as Simplex/Duplex type System(As per requirement of Mill) which consists with a Settling Tank, Gear Oil Pump, Oil Filter, Oil Cooler, necessary Pipes, and Pipe line Fittings, Oil Flow Control Valves & Instrumentations.

Features & capacity of Settling Tank:

Type of Settling Tank: Small/Medium/Large The Small/ Medium size systems designed as all the equipment & instruments are mounted on the tank. The Large Size systems are designed as all Tanks is provided separately & skid Mounted System mounted on a common base frame.

Capacity : 3 L.P.M. to 600 L.P.M.

Pipeline : Leak Proof dully designed for entire system

Lubrication : Internal pipes connected with central oil lubrication System



Gear Oil Pump:

Type of Gear Oil Pump : Single / Double helical Geared Compact Size

Capacity : 3 L.P.M. to 600 L.P.M.

Sizes : 1/2" to 5" B.S.P.

Gears : Single / Double Helical Gear

Bearings of Pump : Imported Needle/ Ball/ Self Lubricates Bush Bearing

Lubrication : Internal pipes connected with central oil lubrication System.



Oil Filters:

Type of Oil Filters : Simplex & Duplex

Capacity : 3 L.P.M. to 600 L.P.M.

Type of Valves : 3 way Plug Valves/ Ball valves/ Gate Valves.

Oil Cooler:

Type of Oil Cooler : Shell/ Tube type along with Fix/removable Facility

Design : As per Mill Requirement

Oil Flow Control Valve:

Type : One/ Two/ Multiple Way

Design : As per Mill Requirement

Float : With/Without Indication Float

Switch & Gauge : With/Without Pressure Switch & Pressure Gauge

Advantages of Bentex's Oil Lubrication System:

- Elimination of missed & inaccessible bearing. Prolonged life of Machine.
- Maximum reliability-Minimum downtime. A wide range of designed to suit different applications

Product Finishing

Finishing equipment includes the automatic stacking, bundling, binding, weighing and labeling of rolled products.

Stacker and Bundling Systems

Stackers suited to handling straight and reverse layers are available for all type of sections. Handling of the straight and reverse layer can be mechanical or magnetic with high stacking cycle performance. All stackers have a built-in bundling function. Bundlers for round and flat bars are available together with bar counting for rounds and small bundle processing systems. The packing form can be round, square, rectangular and hexagonal.



Binding Systems

We Provide Automatic binding of the packages and bundles is available with wire or strapping.

Weighing and Labeling

All bundles can be automatically weighed and further labeled for quality assured delivery of the finished products.



Our Product Finishing Line Features:

- Available with option of bar counting for rounds
- Can be designed to handle bundles of different weight and length capacities
- System designed for easy handling of the material
- The automatic operations provides for applying uniform pressure at regular intervals that result in achieving uniform bending operations
- Allows bundling to be done as per requirements in multiples of metric tonnage
- Provides for secure bundling that makes the products easy to transport
- Bar Bundling machines available in different capacities as per customer's requirements
- Provides for maximum utilization of available space
- Allows for any bend, angle or stirrups to be made
- Maintenance less system due to Superior lubrication support
- Bars bundled are loaded into machine in bulks of 1 ton
- The packing line available for various products like Round, Square, Rectangular Etc.

STEEL ROLLING MILL ACCESSORIES

Universal Coupling

These are generally used for couple the mill stands which works for the equal power transmission from one stand to other stand

Technical Features:

Material : Forged Steel

Size : upto 26" rolling mills

Design : As per load Application



Our Universal Coupling Features:

We also manufacture custom sizes capable of handling increased radial and axial misalignment capacity. Rated speed & Rated torque Offers high torque capacity Properly heat treated teeth Capable of taking jerk load Designed to fit a given space. Customized as per the client's requirements. Precisely checked pitches High Tensile fixing bolts

Universal Spindle

Universal Spindles are generally used for couple the Rolling Mill Stands.

Technical Features:

Material : Class IV Forged Steel

Sizes : As per requirement of Mill Stand

Chokes (All 6 Types)

Fiber Bearing Choke:

Universal Spindles are generally used for couple the Rolling Mill Stands.

Technical Features:

Material : Class IV Forged Steel

Sizes : As per requirement of Mill Stand



Fiber Key Hanging Choke

Bearing Chokes are generally used for grip the Fiber Bearing

Technical Features:

Material : Class IV Forged Steel

Sizes : as per Fiber bearing size



Bearing Choke & Bearing Chock Accessories

Bearing Chokes are generally used for grip the Spherical Roller Bearing

Technical Features:

Material : Class IV Forged Steel

Sizes : as per bearing size



Bearing Choke & Bearing Chock Accessories

Bearing Chokes are generally used for grip the Spherical Roller Bearing

Technical Features:

Material : Class IV Forged Steel

Sizes : as per bearing size



Foundation Rail Mill / Motor

Foundation Rails are generally used for grip the Motor, Reduction Gear Box, Pinion Gear Box, Mill Stand Etc.

Technical Features:

Material : Graded Cast Iron

Sizes : as per Mill Machinery Requirement



Shaft

Shafts are generally used for couple the Fly-Wheel, V-Belt Pulley, Reduction Gear Box, Gears, Pinion, Rolls Etc.

Technical Features:

Material : Forged EN-Series

Sizes : As per requirement of Mill

Length: up to 4500 mm



Spindle

Spindles are generally used for couple the Rolling Mill Stands.

Technical Features:

Material : Class IV Forged Steel/ Cast Iron

Sizes : As per requirement of Mill Stand



V-belt Pulley & V-belt Counter Pulley

V- Belt Pulleys are generally used for Rolling mills

Technical Features:

Material : Graded Cast Iron

Sizes : Up to 2150 mm Dia

Grooves : 4 to 26 (as per requirement) Section E or D



Wobblers

Wobblers are generally used for Pinion Gear Box for safety of Gears.

Technical Features:

Material : Class IV Forged Steel

Sizes : from 6" to 26" mills



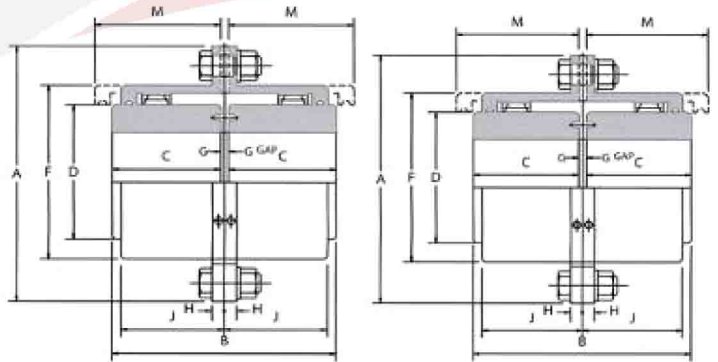
Industrial gear Couplings

Gears couplings are generally used for couple one Shaft to another Shaft for transmitting power and torque between both the shafts. Our gear couplings are manufactured using tough quality controls; we used best quality raw materials capable of transmitting high torque at very high speeds and accessible in different sizes.

Technical Features:

Material : Forged Steel

Size : 101 no. to 120 no.



Industrial Cardan Shafts

Cardan Shafts

All this is permanently elapsed by shocks resulting in vibrations and additional torsion forces. Basing on these extreme conditions of operation considerable power is arising being consumed partly by the cardan shaft on its own, partly by the drive elements combining it. These high pressures and difficult operating conditions are demanding high standards to the cardan shaft. At the same time, lots of power transmission applications are solved easily and cost consciously by the use of cardan shafts. Offering a wide range of Cardan shaft or propeller shaft, is a mechanical component for transmitting torque and rotation, usually used to connect other components of a drive train that cannot be connected directly because of distance or the need to allow for relative movement between them.

Drive shafts are carriers of torque: they are subject to torsion and shear stress, equivalent to the difference between the input torque and the load. They must therefore be strong enough to bear the stress, whilst avoiding too much additional weight as that would in turn increase their inertia. Drive shafts frequently incorporate one or more universal joints or jaw couplings, and sometimes a splined joint or prismatic joint to allow for variations in the alignment and distance between the driving and driven components.

Bentex's Cardan shafts are the right choice for difficult and severe requirements due to excellent operational safety, high service life and low running costs.

Features of Our Cardan Shaft:

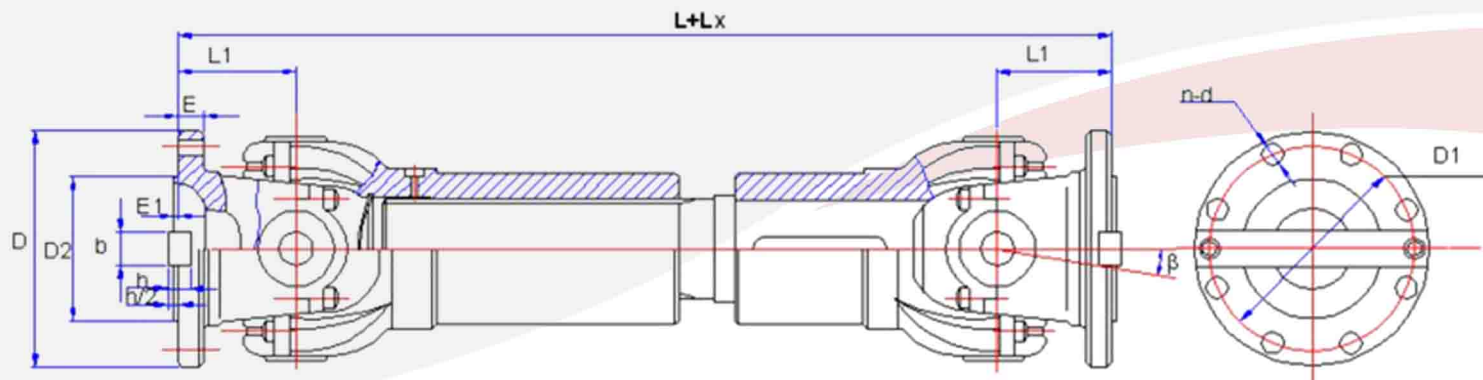
- 100% Forging Material
- Low Maintenance
- Split / Close eye yoke design.
- Highest degree of strength and minimum distortion underload.
- Optimal welding connections.
- High Quality Material
- Dimensionally Accurate
- Highest load capacity of the Universal Joint.
- Suitable material selection and treatment.
- Perfect geometries by computer analysis.

The overall function of a cardan shaft can be subdivided in 3 single functions:

- Torque and speed.
- Changing distance between power input and output.
- Changing angle between power input and output.

Application of Cardan Shaft :

Steel Plant and Rolling Mill, Paper Plant, Cement Industry, Auto Mobile Industry, Mining industry, Tube Mill, Etc.



Model Number	BIPL 1086	BIPL 1090	BIPL 1097	BIPL 1100	BIPL 1120L	BIPL 1120H	BIPL 1130	BIPL 1146	BIPL 1146H	BIPL 1150	BIPL 1165	BIPL 1175	BIPL 1185	BIPL 1200H	BIPL 1200H
Flange Dia [D]	86	90.5	97	100	120	120	130	146	146	150	165	175	185	205	205
Torque [MN]	672	780	850	1400	2100	2700	3000	3300	4500	3850	8000	4200	9000	8000	10500
Angular Movement °	15°	20°	20°	20°	20°	20°	20°	16°	16°	18°	16°	20°	15°	15°	15°
Rotation Dia [R]	82	105	98	103	122	110.5	130	137.5	149	152.1	176.1	160	180	176	184
PCD [C]	70	74.5	80	83.8	95.3	101.6	112	120.7	120.7	130	139.8	156	165	184	184
No.of Holes [n]	4	6	4	6	4	6	8	4	4	8	8	8	8	8	8
Hole dia [d]	8	10	10	8.1	11.2	10.15	10.15	12.8	12.8	12.2	16.2	10	10	10.5	10.5
Flange Spigot Dia [E]	57.2	47.2	60.1	57	69.9	82.5	82.5	95.2	95.2	90.5	96	168	178	197	197
Flange Spigot Thick [F]	2	2	2	2	2	2	4	2	2	4	2.5	2	2	2.5	2.5
Tube Dia [T]	63.5	61	63.5	60	76	70	89	89	89	100	102	89	110	101.5	115
Length Compensation [Lc]	45	55	50	55	60	75	91	75	75	102	95	75	100	100	110
Minimum Compressed Length [Lmin]	270	410	340	375	360	470	600	475	430	590	640	530	580	580	605
Maximum Compressed Length [Lmax]	3500	3500	3500	3500	3500	3500	3000	3500	3500	3500	3500	3500	3500	3500	3500
Face Key way Design	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30x6

Model Number	BIPL 1225L	BIPL 1225H	BIPL 1230L	BIPL 1240L	BIPL 1240H	BIPL 1250L	BIPL 1250H	BIPL 1250EH	BIPL 1285H	BIPL 1315L	BIPL 1350L	BIPL 1350H	BIPL 1390L	BIPL 1440L	BIPL 1480H
Flange Dia [D]	225	225	230	240	240	250	250	250	285	315	350	350	390	440	480
Torque [MN]	12500	25000	12500	12500	20000	12500	32500	50000	58000	85000	85000	120000	165000	215000	216000
Angular Movement °	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°	15°
Rotation Dia [R]	184	190	184	184	190	184	210	210	230	265	310	310	320	As Req.	As Req.
PCD [C]	205	196	196	218	200	220	218	218	245	280	310	310	345	390	435
No.of Holes [n]	8	8	8	8	8	8	8	8	8	8	10	10	10	16	16
Hole dia [d]	12.5	17	16	16	17	17	19	19	21	23	23	25	28	28	31
Flange Spigot Dia [E]	222	157	226	236	157	246	157	157	157	175	155	155	170	190	205
Flange Spigot Thick [F]	2.5	5	2.5	2.5	4	2.5	5	5	7	7	8	8	8	10	12
Tube Dia [T]	115	130	115	115	130	115	140	150	168	194	245	245	270	320	370
Length Compensation [Lc]	110	100	110	110	100	110	110	110	110	110	125	125	138	138	150
Minimum Compressed Length [Lmin]	605	605	640	640	640	640	750	880	910	950	1200	1200	1300	1450	1700
Maximum Compressed Length [Lmax]	3500	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Face Key way Design	30x6	30x6	30x6	30x6	30x6	30x6	30x6	32x6	32x12	32x12	32x12	40x15	80x15	50x16	90x16

Gears

Gears are generally used for Reduction Gear Box, Pinion Gear Box, Speed Increaser Etc.

Technical Features:

Material : M.S., Cast Iron, Forged EN-Series

Sizes : Up to 2150 mm Dia

Teeth : Spur, Single/ Double Helical



Bracket

Technical Features:

Material : Cast Iron, Graded Cast Iron (Dully machined & grinded.)

Size : As per Requirement of Steel Rolling Mill



C.I Couplings

These are generally used for couple the mill stands which works for the equal power transmission from one stand to other stand

Technical Features:

Material : Graded Cast Iron

Size & Design : As per load Application



Roller Guide Box & Twist Pipes

These are generally used for TMT mill

Technical Features:

Material : Forged Steel

Size : up to 26" rolling mills

Design : As per load Application



Our Roller Guide Box & Twist Pipe Features:

- We also manufacture custom sizes
- Capable of handling increased radial and axial misalignment capacity.
- Rated speed & Rated torque
- Offers high torque capacity
- Properly heat treated teeth
- Capable of taking jerk load
- Designed to fit a given space.
- Can be customized as per the client's requirements.
- Precisely checked pitches
- High Tensile fixing bolts



Industrial Steel Rolls

We are manufacturer and supplier of all kinds of steel rolls used in rolling mill industry for the past 18 years. Our team of highly skilled workforce ensures that the products are always free of structural discontinuities and defects. We can supply rolls of any grade and of the size ranging for 6" to 26" rolling mills. We Supply various kind of rolling mill rolls which are manufactured & designed as per Steel Rolling mill Requirements:



Technical Features:

Material : Adamite, Alloy Steel, S.G. Iron, Forged Steel

Type : Chill Roll/ Solid/ Barrel

Size : As per Requirement of Steel Rolling Mill

Adamite Rolls or Alloy Steel Rolls

These rolls are statically casted and undergo a special high temperature heat treatment process, which is followed by tempering cycles to give it a microstructure consisting of fine pearlitic matrix with spherodised/broken carbide. These rolls are special hyper-eutectoid steel rolls alloyed with Nickel, Chromium & Molybdenum. The extra carbon and special alloys give it extra wear resistance and strength. These rolls are suitable for rolling medium and heavy sections where resistance is very important along with considerable amount of strength and toughness. The chemical composition of Adamite Rolls or Alloy Steel rolls is as follows:

Hardness SH D	C	Mn	Si	Ni	Cr	Mo
40 - 45	1.20 – 1.40	0.50 – 0.70	0.30 – 0.60	0.6 – 0.9	0.70 – 0.90	0.20 – 0.30
45 - 50	1.50 – 1.80	0.60 – 0.90	0.30 – 0.60	0.6 – 0.9	0.90 – 1.10	0.25 – 0.35
50 - 55	1.60 – 1.90	0.60 – 0.90	0.30 – 0.60	1.2 – 1.5	1.00 – 1.20	0.35 – 0.50

S.G. Iron Rolls

S.G. Iron or Spheroidal Graphite Iron is considered as one of the most versatile roll material. It is produced by a small proportion of magnesium added to the melt as nickel-magnesium or alternative alloy, or pure magnesium. In S.G. Iron roll, the free carbon takes the shape of spheroids or nodules, thereby eliminating the notch effect to flake graphite and improving upon the mechanical properties of cast iron. S.G. Iron rolls find application in Roughing and Intermediate rolls for slabbing and blooming mills. These are also use for roughing, intermediate and finishing for rail and structural mills as well as in finishing for wire rod and narrow strip mills.

The Chemical composition of S.G. Iron (Pearlitic) Rolls is as follows:

Hardness SH D	C	Mn	Si	Ni	Cr	Mo
50 – 60	3.00 – 3.30	0.30 – 0.60	1.50 – 2.30	1.50 – 2.00	0.40 – 0.50	0.25 – 0.40
60 – 70	3.10 – 3.50	0.50 – 1.10	1.30 – 1.80	1.50 – 2.50	0.50 – 0.80	0.30 – 0.60

The chemical composition of S.G. Iron (Accicular) Rolls is as follows:

Hardness SH D	C	Mn	Si	Ni	Cr	Mo
60 – 70	3.10 – 3.50	0.50 – 0.80	1.30 – 2.00	2.00 – 3.50	0.30 – 0.80	0.80 – 1.10
70 – 75	3.10 – 3.50	0.50 – 0.80	1.30 – 2.00	2.50 – 4.50	0.30 – 0.80	0.80 – 1.10

Chilled Iron Rolls

Double layered centrifugally casting system is used to produce clear chill – Graphite free white Iron rolls which are called as Double Poured Definite Chilled Rolls (DPCC). These rolls are mostly fitted with Steel shafts in the barrel. High Alloy Chilled Rolls find application for finishing mill for rod and light section mill as well as for continuous small and medium hot strip mills. The chemical composition of Definite Chilled Rolls (DPCC) rolls is as follows:

Hardness SH D	C	Mn	Si	Ni	Cr	Mo
55 - 60	2.90 – 3.20	0.25 – 0.60	0.20 – 0.90	0.50 – 1.00	0.20 – 0.50	0.25 – 0.30
60 - 70	3.00 – 3.40	0.25 – 0.60	0.20 – 0.90	1.00 – 2.00	0.20 – 0.50	0.25 – 0.35
60 - 70	3.20 – 3.60	0.20 – 0.60	0.20 – 0.80	1.70 – 2.50	0.20 – 0.50	0.25 – 0.45

Double layered static casting system is used to produce indefinite chill – Graphite containing white iron rolls which are called as Double Poured Indefinite Chilled Rolls (DPICC). These rolls have superior Biting performance, maximum functional depth and ensure minimum sacrifice of clear chill layer. Indefinite Chilled Rolls find application for finishing mill for bar mills, wire rod mills and strip mills. The chemical composition of Indefinite Chilled Rolls (DPICC) rolls is as follows:

Hardness SH D	C	Mn	Si	Ni	Cr	Mo
65 - 75	3.00 – 3.50	0.55 – 1.20	0.80 – 1.50	1.45 – 2.50	0.80 – 1.50	0.25 – 0.45

Forged Rolls

Forging is a process in which the casted ingot is heated in the furnace & then material is hammered according to the customer's sizes & requirements. Thereafter, Heat treatment is done in normalizing or annealing furnaces. Rolls are ultra-sonically tested to check any structural discontinuity or defects. Forged Rolls find application for Roughing Mills for bar mills, structure mills as well as in Stainless Steel Mills. The chemical composition of different steel grades that are commonly used in Forged Rolls is as follows:

GradeD	C	Mn	Si	S	P	Cr	Ni	Mo
EN – 8	0.35 - 0.45	0.60 – 1.00	0.10 - 0.35	0.050	0.050	---	---	---
EN – 9	0.50 - 0.60	0.50 - 0.80	0.05 - 0.35	0.040	0.040	---	---	---
EN – 19	0.35 - 0.45	0.50 - 0.80	0.10 - 0.35	0.040	0.040	0.90 – 1.40	---	0.20 - 0.40
EN – 24	0.35 - 0.45	0.45 - 0.70	0.10 - 0.35	0.040	0.040	0.90 – 1.40	1.30 – 1.80	0.20 - 0.35
EN – 42	0.70 - 0.85	0.55 - 0.75	0.10 - 0.40	0.040	0.040	---	---	---

Industrial Casting & Forging Services

Through our Dedicated & Technology Efficient team and strong vendor network, We are the prominent supplier and Exporter of a wide variety of Ingot moulds, Slag Pot, Bottom Plate, Center Column and many other type/ size / quality of Cast Iron/ Graded Cast Iron Casting and Forging. Bentex's vast network of manufacturing, high-tech engineering and design capabilities deliver an unmatched range of diverse and dynamic products to its customers. Our network has the unique distinction of being one of the few Indian companies that is totally dedicated to manufacture/ Supplying/ exporting of C.I Casting and Forging. We can undertake an individual piece casting of weight from 50 kg to 10,000 kg. as per customer specification or drawing.



Reheating Furnaces and other type of Furnace Equipments

(Especially For Steel Rolling Mill Applications)

We are providing & exporting various type of Quality Oil fired/ Reheating Furnaces such as Rotary Hearth Reheating Furnace, Walking Beam type Reheating Furnace, Pusher Type Reheating Furnace, etc. High on quality, our Reheating Furnaces range from a small capacity to a large capacity of reheating furnaces.

Rotary Hearth Reheating Furnace

We are engaged in providing well-designed Rotary Hearth Reheating Furnace to the clients. The Rotary Hearth Reheating Furnace is manufactured using technologically advanced machinery. Our Rotary Hearth Reheating Furnace is in match with high international standards. Our Rotary Hearth Reheating Furnace is tested on different parameters to assure their flawless quality.

Walking Beam type Reheating Furnace

We offer a precision engineered Walking Beam type Reheating Furnace which is a type of Re-Heat Furnace. It is available in a variety of designs for the customers to choose from. Walking Beam type Reheating Furnaces are fabricated using high quality raw material resulting in an extremely sturdy construction. The Furnaces offer high resistance to daily wear & tear and are thus, capable of serving a long service life.

Pusher Type Reheating Furnace

Our customers can choose from a wide range of Pusher type Reheating Furnaces that we offer. The Pusher Type Reheating Furnaces are designed and manufactured as per the specifications of the customers. Our Pusher Type Reheating Furnace is capable of meeting every demand of the customers related to any engineering industry.

Re-heating Furnace Equipment

Pusher for Re Heating Furnace

We are a prominent manufacturer of Mechanical Pusher that is renowned for its efficient performance. These kind of a products are generally installed in the backside of the furnace in a rolling mills.. The pushers are delivered completely assembled with all seals and fittings to match your installation equipment and pressure tested to endure against leaks



Types : Single Zone/ Double Zone

Material : M.S. Prime Plate Fabricated.

Main screw : Forged EN-Series steel

Supporting Rod : Forged EN-Series steel

Bearings : Imported Tapered/ Spherical Roller Bearings.

Bush : Bronze Metal

Nut-Bolt Etc : Tensile Steel

Ejector for Re-heating Furnaces

The Ejectors available with us are installed in front side of furnace for pushing the Hot raw material into the Mill Stands.

Technical Specifications:

Material : Mild Steel, Graded Cast Iron, Forged Steel.

Bearing : Spherical Roller Bearing mounted above the in a dustproof

Bearing Chock : fitted in Housing

Rolls & Shaft : EN-Series Forged Steel

Gear : Worm Gears

Lubrication : Oil & Grease

Bush : Bronze Metal

Nut-Bolt Etc : Tensile Steel





Bentex has a dedicated Vendor network team of highly experienced electrical and software engineers who are well versed in 'state of the art' industrial control and automation techniques. Bentex strives to constantly balance the inclusion of new innovations against the stability of our own proven systems.

Our controls and automation team works in an open form structure where each member has continuous access to any required data and information. We constantly work to maintain and improve our own standards and continually evolve our systems ensuring that they are the best available on the market.

In answer to today's growing need of 'shop floor' data access, Bentex have formed an Industrial IT team who now specialize in the acquisition and logging of data and giving the connectivity required to achieve it.

As with the state of art technology, we provide electric and automation starting from planning to engineering, design, software development, erection, commissioning and servicing to cover the complete life cycle of the project & Industry

Our systems include the following:

- Integration of wireless networking into a cast-house environment for data logging
- Introduction of fibre-optic backbone technology to increase the performance and bandwidth of plant networks
- Use of MySQL, Microsoft SQLServer and IBM AS400 as long-term data archiving platforms
- Use of remote computing for improved long-term and long-distance support
- Introduction of redundant networking technology to limit loss of production from the loss or damage of cables
- Use of virtual computers to allow better warranty services for customers and improve disaster recovery

Induction Furnaces and other type of Furnace Equipments

(Especially for Steel Rolling Mill Applications)

We are providing & exporting various type of Quality induction / Arc / Blast Furnaces etc. High on quality, our induction Furnaces range from a small capacity (200 kg.) to a large capacity (50 ton) of induction furnaces.

INDUCTION FURNACE EQUIPMENTS

Continuous Casting Machine

Bentex is Supplying & Exporting Continues Billet Casting Technology that precisely meets the requirement of existing and new mini steel plants for casting liquid steel into billets. Continuous Casting Machines repeatedly perform a technique in which a shape is continuously solidified and withdrawn while it is being poured, so that its length is not determined by mold dimensions and can then be cut into various lengths. The Modular Caster of Bentex is suitable for heat size as small as 6 ton and modules are available for casting sections from 80 mm x 80 mm to 130 mm x 130 mm.



Features:

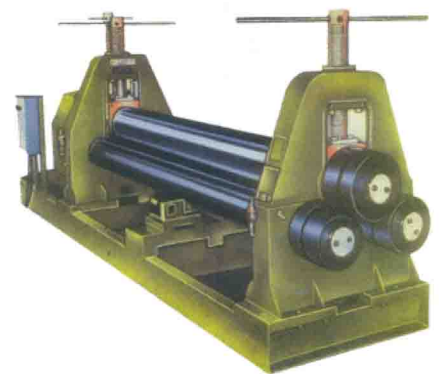
- Rigid Dummy Bar for enhanced productivity
- Motorized Funnel Trolley for quick and precise positioning
- Automation with Human Machine Interface (HMI)
- Forced-lubrication for mould ensuring controlled oil flow
- Optional of Automatic Mould Level Control (Co-60 based sensor)
- Optional of Auto Gas Cutting System
- Possibility to add multiple modules at the same place for capacity expansion
- Sturdy design and simple operation with low cost of operation and maintenance
- Easy transition from ingot making plant to billet making plant with fast installation in existing infrastructure
- Modular design with factory assembled and aligned equipment drastically reducing civil cost, erection & commissioning time



Plate Bending Machine

Counting on the cumulative experience and integrated production infrastructure, we engineer a top-of-the-line string of Plate Bending Machine which is featured in optimal bending capacity and assurance of excellent inner and outer surface.

Mechanical/Hydraulic/ Automatic type Plate Bending Machine can be used to bend and shape metal sheet with different thickness, is efficiently powerful to roll the plate to intended diameter. Also these metal forming machines work on different kinds of technology and mechanism and embody 2, 3 and 4 rollers and plates of different capacity in order to roll the metal sheets of various gauges. Being a celebrated Manufacturer and Exporter of Plate Bending Machine and Hydraulic Plate Bending Machine of supreme quality, we satisfactorily cater to the demand of clients from India and overseas.



Technical Specification:

- Available in various sizes
- Work with centralized lubrication system
- Drive through sturdy steel gears and worm reduction gear box
- Electric motor with different capacities in terms of Phase, Volts and Cycles AC
- Robust housing made of premium grade S.S, empowering to resist enormous strain
- The machine weighs down in varied weights according to configuration defined by customers
- Screw jack feature integrated with in order to fix the top rollers efficiently in a horizontal position
- Base provided with heavy duty girders

FURNACE EQUIPMENTS

Slag Crusher Plant

We supply various capacity successful Slag Crusher Plant in used by reputed steel plants in India, Bentex's Slag Crusher Plant is widely used for crushing especially slag, stone, refractory, coal & many other products & helps in the recovery of metal having commercial value, earn healthy profits from their waste product. Slag of steel plant of furnace containing 10 to 20% pure metal but discharged in the form of slag or waste product due to improper operation. But the slag of steel plant is no more the waste product, because our crusher separator plant is simple & efficient source of purifying metal from slag or furnace waste.

Features:

- Approximately 50 square yards area is required for installing the plant
- 4 to 6 men are required for operating the plant
- Iron impurities can be automatically separated by the machine
- Quality magnets are used in the equipment that requires no maintenance.

We Also Serves with Furnace & Consumables

- Silico Manganese
- Ferro Silicon
- Silica Ramming Mass
- Boric Acid Powder
- B.P. Set
- Sodium Silicate
- Ingot Moulds
- Bottom Plates
- Slag Pot
- Center Column
- Fire Clay
- Tempering Measuring Instruments
- Temperature Tips
- Whyteat A
- Tundish Tiles
- Graphite Powder
- Prelite Ore, Laboratory Equipment for Material Testing
- Refractories

grinding & Crushing (Quardz Ramming Mass Plant)

Owing to the sincere efforts of our dedicated team and use of latest technologies, we have been able to offer optimum quality Ramming Mass Plant. These Plants are manufactured in accordance with the international parameters under strict guidance, Appreciated for their user friendly design, optimum performance and high durability, offered plants are used to grind quartz, silica sand, feldspar and lime stone.

Specifications

Application : Quardz, Silica Sand, Feldspar, Lime stone etc.

Feed size : < 50mm

Product size : < 350 mesh

Capacity : up to 2.0 ton per hour



Quardz Plant

For Fine Mesh Powder - < 350

Continues Grinding Process

Low Maintenance

Constant Production

For Grains

Product Range 0 to 8 mm

Wide Range of Grains Obtained

Low Iron Percentage in Product

Easy to Operate

Jaw Crusher

Owing to the sincere efforts of our dedicated team and use of latest technologies, we have been able to offer optimum quality Jaw Crusher Machines

Features

Durable

Used to crush or grind materials

Crushes materials to fine granules

Reduces human efforts

Reliable



grinding & Crushing (Ball Mill)

These plants are manufactured in accordance with the international parameters under strict guidance. Appreciated for their user friendly design, optimum performance and high durability, offered plants are used to grind quardz, silica sand, feldspar and lime stone.

Continue Flow Ball Mill

We are among the top most manufacturers, Suppliers and exporters of best quality Ball Mill Machine. Used for the grinding and mixing of geological materials like rocks, chemicals, minerals, sand, iron ore, iron oxide, brittle alloys and graphite, these machines are highly demanded in the market. Offered machines are easy to install and acknowledged for their simple functionality.

Ball Mill Features

For Fine Mesh Powder - 100 Mesh to 300 Mesh

Continues Grinding Process

Mow Maintenance

Constant Production

Easy to Operate

Specifications

Available in different sizes : 10'ft to 18'ft

Production capacity : up to 1.6 ton per hour

Working : 24 hours regularly

Easy packing : 50 kg bag or 1 ton jumbo bag

Basic products of ball mill are

Quardz

Feldspar

Basic products of ball mill are

Ceramics

Induction Furnace Ramming Mass Powder

Vitrified tiles

Sanitry ware

Glass

Fillers (rubber, paint, plastic)

Enamel frits and Glaze in tiles also in welding electrode abrasives etc.



Jaw Crusher

Owing to the sincere efforts of our dedicated team and use of latest technologies, we have been able to offer optimum quality Belt Conveyor Machines.

Features

Premium Quality Rolling Belts

Quality Imported Roller Bearings

Sturdy construction

Long life cycle

Reliable and dependable

Lesser maintenance



Workshop Machinery

Bentex is a chief Manufacturer, Exporter & Supplier of the unique Extra Heavy Duty Lathe Machine, Semi Geared Lathe Machine, Heavy Duty Roll Turning Lathe Machine, Shaper Machine, Slotter Machine, Radial Drill Etc. Our Machines are highly efficient industrial tool and incorporates the latest technology. Moreover, the Heavy Duty Roll Turning Lathe Machine is manufactured in compliance with the international standards and is very durable. Our machines are known for their optimum performance, durability, reliability, longer working life, assured quality, feasible rates, abrasion resistance, and faster operations.



Features

- Good quality raw material
- Strong built
- Affordable rates

Applications

- Engineering applications
- Construction work
- Manufacturing industry

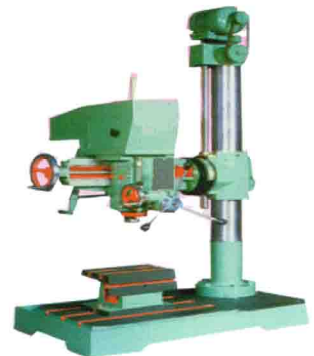
Specifications of Bentex's Lathes

Model Number	BIL-4	BIL-6	BIL-8	BIL-10	BIL-12	BIL-14	BIL-16	BIL-18	BIL-20	BIL-22	BIL-24	BIL-30	BIL-36	BIL-40
Bed Length Ft.	4½'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	30'	36'	40'
Width of Bed	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	36"	40"	48"
Height of Centre	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	34"	36"	46"
Spindle Bore	2½"	3"	3"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
Swing in Gap	32"	36"	42"	52"	55"	60"	68"	72"	76"	80"	84"	92"	100"	116"
No. of Spindle Speed	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Admit between Centre	30"	38"	54"	72"	96"	120"	138"	154"	174"	198"	222"	294"	354"	402"
Leading Screw Dia.	1¼"	1¼"	1¼"	1¾"	2"	2"	2½"	2½"	2¾"	2¾"	3"	3"	3½"	4½"
H.P. Required	2	2	2	3	3	3	5	5	7½	10	15	20	25	25

Technical specifications of Bentex's Shaper Machine						Technical specifications Bentex's Geared Shaper Machine				
Model No	BIS18	BIBIS2	BIS30	BIS36	BIS40	Model No	BIGS24	BIGS30	BIGS36	BIGS40
Size	18"	24"	30"	36"	40"	Length of ram stroke	660	800	930	1025
Length of Ram	40	53	60	67	79	Length of ram	1225	1600	1750	1900
Working Stroke	18	24	30	36	40	Width of ram	300	300	300	330
Ram Bearing in Col.	27	36	38	42	45	Max. Distance from table to ram	450	520	560	600
Ram Bearing in Width	9½	11½	12	12½	14	Min. Distance from table to ram	50	50	60	60
No. of Speed	3	4	4	4	4	Vertical travel of tool slide	140	160	185	200
Max. Dia. From table Ram	14	17	16	2	2	Swiveling range of tool on either side	60 degree	60 degree	60 degree	60 degree
Motor Recommended	2	3	5	5	5	Table size	610 * 380	760 * 400	900 * 450	1015 * 508
Size	18"	24"	30"	36"	40"	Horizontal travel of Table	600	700	810	940
Length of Ram	40	53	60	67	79	Vertical travel of Table	350	430	500	550
						Nos. of speeds	4	4	4	4

Specifications Of Slotter Machine Available

Model Number	BISM-125	BISM-150	BISM-200	BISM-250	BISM-300	BISM-375	BISM-450	BISM-500
Working Stroke	125	150	200	250	300	375	450	500
Length of Ram	200	560	560	735	810	900	1300	1300
Vertical Adjustment of Ram	90	150	150	250	300	300	325	325
Center of Cutting Tools of Col	165	250	250	380	455	550	750	750
Working Surface of Table	200	280	280	355	500	600	900	900
Longitudinal Transverse of Table	165	250	250	300	530	530	800	800
Bore of Base	28	38	38	75	75	75	100	100
Cross Transverse of Table	215	250	250	300	455	500	600	600
Table Top to Tam	200	330	330	380	400	525	700	700
No. of Speeds	2	2	2	2	4	4	6	6
Range of Speeds	90-170	60-150	60-150	46-70	20-70	20-70	20-70	20-70
Motor Recommended	1 H.P.	1.5H.P.	1.5H.P	2H.P.	3H.P.	3H.P.	5H.P.	7.5H.P
R.P.M of Motor	1440	1440	1440	1440	960	960	960	960
Approx. Weight (Kg)	350	800	800	1100	1500	2000	4500	4500
Gross Weight (Kg) with Packing	450	950	950	1300	1800	2500	5000	5000



INDUSTRIAL CONTROL & AUTOMATION EQUIPMENTS

We Provide Following

Turnkey projects under Control & Automation including:

- HT / LT installations (including laying of cables etc.)
- MCC / PCC Panel supply and installations or Intelligent MCC Panel supply and installation
- Automation System panels supply installation & Commissioning which may include:
 - DCS / PLC System
 - SCADA Systems
 - HVAC application systems
 - Networking Systems
 - VFD (AC / DC) systems, VSD (Servo) systems
 - Weighing Systems
- Control Room design and equipments
- Cabling which include supply of cables, cable trays and installation.
- Field Instrumentation, supply, mounting and commissioning
- Plant / Street Lighting & PA systems
- Any Special requirement



E & I Projects

- Electrical and Instrumentation projects can be classified as smaller sized EPC with limited scope. CAPPL's experienced
- engineers would successfully execute such tasks within given timeframe. Following activities would be handled :
 - Selection of
 - Electrical hardware, Instruments, Cables with cable routing Etc
- Detailed engineering for E&I
- DC Electrical Motors (Up to 500 KW)
- Automatic Flatness Control System
- Integrate Electric & Automation Solution
- Up gradation services
- Supply of cables
- Cable tray supply and mounting
- Mounting and wiring of Instruments in the field
- Hand over the site
- AC Electrical Motors (Up to 6000 H.P)
- Automatic Gauge Control system
- Hot Metal Detector System
- Cable, Wire, switches, Starter Etc.
- Supply of panels and hardware
- Installation service at site
- Cable laying
- FAT and SAT



Bentex Industrials Pvt. Ltd.

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