



INTRODUCING
HIGH SPEED TUBE MILL, HOLLOW SECTION FOR SQUARE RECTANGULAR, BUR FREE COLD SAW
CUTTING, API TUBE MILL, STAINLESS STEEL TUBE MILL, HYDRO TESTING SEAM NORMALIZER,
INTERNAL BEAD REMOVER, SLITTING LINE, CUT TO LENGTH LINE, SOLID STATE
HF TUBE WELDER, HOT DIP PIPE & STRUCTURE GALVANIZING PLANT ,OPEN PROFILE MACHINE

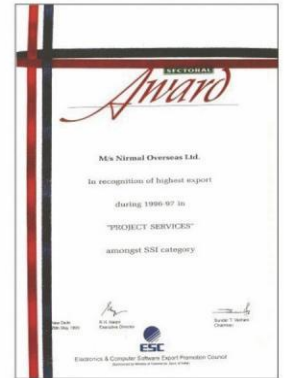
NIRMAL OVERSEAS PRIVATE LIMITED AWARDS & ACHIEVEMENTS



The president of India Honorable Mr. C.Venkatraman as the Top Ten Exporter in 1997.



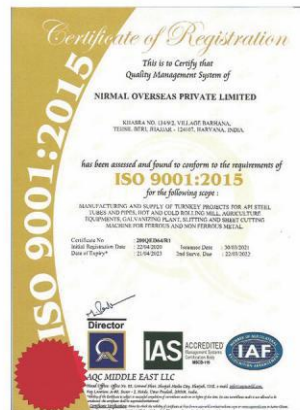
Recognition of Highest Export During 1996-97, Awarded By- Honorable former prime Minister of India, Mr. Atal Bihari Vajpayee, Category- Project services



Top Exporters Award by EEPC India during 2014-15, The 47th Export award Northern region by The Minister of Industry UP



Top 10 Asian Brand Excellent Female Figures during 2017-18 awarded by ABBAS Expert Committee.





WE MAKE YOUR BUSINESS BETTER THAN OTHERS

M/s Nirmal Overseas Private Limited is a premier engineering company based at Delhi/NCR, India. Established in 1983, we are premier engineering company which manufactures complete machine on Turnkey basis for high-speed Tube Mill, API Pipe up to 20" NB, Slitting Line, Cut to Length Line, Galvanizing Plant, Open Profile machine, burr free cutting car, Hydro-Testing Machine, High Frequency Solid State Welder, Seam Normalizer, Cold Rolling.

The first company who started to manufacture a wide range of HF/RF Tube Welders & Induction Heaters & entered with one time technical collaboration with m/s Alientech Ltd, U.K. These welders are available in output power from 60 KW to 1000 kw at a standard frequency of 250-500 KHZ. We have supplied more than 2500 HF/RF Tube Welders to the domestic & international market capturing 90% of the Indian market. Nirmal also have one time agreement with DEMAG MEER Germany 1993 for purchase of drawing for welded tube line. Nirmal strives to deliver creative & value- added solutions & custom - made products for our customers. Through continuous research & development we have emerged as a leader in manufacturing & have developed new technology of design engineering. We are equipped with the latest plant & machinery facilities to meet the international standards & quality. Nirmal is the only company who commissioned a 20" Tube Mill in India.

Nirmal was awarded as AR Bhaat Entrepreneurship Award in 1984 by the president of India honorable Mr Venkatraman, Top ten exporter in 1999 by the honorable prime minister of India Mr Atal Bihari Vajpayee, by EEPC India award in 2014-15 & top ten Asian Brand Excellent Female Figure of Quality Products Award in 2017. We believe in providing absolute quality to our clients & adheres to the quality guidelines as per CE Certification & ISO 9001:2008.



HIGH SPEED TUB MILL

The premium quality of High Speed Tube Mill for Precision Tube and other international with the latest technology Bur Free/ Cold Saw Cutting Machine. Automatic operation and low maintenance make it high quality.

TUBE MILL is a combination of equipment installed in a line for the production of HIGH FREQUENCY INDUCTION WELDED carbon steel tubes. The process involved is cold forming of carbon steel strip in circular shape, longitudinal welding, sizing, converting into rectangular square shape and cutting to predetermined length.

Tube Mill mainly consists of strip preparation, pipe forming, welding, cooling, sizing straightening, pipe cut-off unit and pipe take off unit. A forming motor of and a sizing motor and power transmission is done by workgear boxes drives the whole machine.

Tube mills produce pipe and tube by taking a continuous strip of material and continuously rollforming until the edges of the strip meet together at a weld station. At this point the welding process melts and fuses the edges of the tube together and the material exits the weld station as a welded tube.

Basic components include an uncoiler, straightener, shear, forming section, fin pass section, welder, ID and/or OD scarfing, sizing section, cut off and stacker or runout table. Each pass in the various sections are made up of an upper and lower shaft that contains roller die tooling which forms the steel strip gradually into a round shape or square if it is a form square / weld square type of mill. This gradual shaping process is commonly referred to as the flower arrangement.



API PIPE LINE

The American Petroleum Institute specification API 5L addresses seamless and welded steel line pipe for pipeline transportation systems in the petroleum and natural gas industries. API 5L is suitable for conveying gas, water, and oil. Specifications for API 5L adhere to the International Organization for Standardization ISO 3183, Standardizing pipeline transportation systems within the materials, equipment and offshore structures for natural gas, petroleum, and petrochemical industries. When authoring the standards, the technical committee recognized that there are two basic Product Specifications Levels (PSL) of technical requirements and therefore developed PSL 1 and PSL 2. PSL 1 is a standard quality for line pipe where PSL 2 contains additional chemical, mechanical properties, and testing requirements.

Grades covered by this specification are A25, A, B and "X" Grades X42, X46, X52, X56, X60, X65, X70, and X80. The two-digit number following the "X" indicates the Minimum Yield Strength (in 000's psi) of pipe produced to this grade. API tube mill is specialized for manufacturing straight welded pipe for petroleum and gas pipelines. Taking hot-rolled steel as raw material, it produces required pipes through cold roll forming and suitable welding methods like H.F. welding.

Nirmal has supplied a complete turnkey project fully automatic as per API standard, Including Seam Annealer, Eddy Current Tester, hydro testing machine, UltraSonic testing, all laboratory equipment and bevelling machine.



STAINLESS STEEL TUBE MILL

Nirmal Overseas Private Limited provides clients with the superior quality of Stainless Steel Tube Mill. Provoked to accomplish highest client consent, Known for its high-speed milling efficiency, energy efficient design and enhanced functional life, the stainless steel tube mill is manufactured by using the latest technology. Stainless steel is often referred to as "corrosion-resistant steel" it does not stain, corrode or rust as easily as normal carbon steel. It would however be misleading to say it is corrosion-proof. It differs significantly from standard carbon steel due to the amount of chromium present, which limits surface corrosion unlike carbon steel which will rust when exposed to air and any moisture in the atmosphere. Due to its anti-oxidation qualities, Stainless Steel is often a popular solution.

Where low maintenance and corrosion resistance is required, stainless steel plates are a natural choice and are used in a diverse range of applications from modern architecture for cladding or fascias, to the food hygiene industry due to its antibacterial qualities. Prosaic Steel supplies stainless steel in a wide variety of grades and aesthetic finishes. There are many options available - for example adding carbon during the forming process will make the stainless steel more durable and stronger too. It can be used in Chemical and fuel tankers, Chemical, petrochemical plants, Food processing, pharmaceutical industries for clean environments, Construction, modern architecture, accurate 'in-house' cutting and profiling service, heat resistant qualities when specified, quick turnaround, etc.



COLD SAW CUTTING CAR

Continuously produced tubing is cut to length by a cut off machine. This section function is an important determinant of the overall productivity. In order to operate continuously, it is necessary to synchronize the cut off machine with the speed of the tube, so as to accurately keep the tubes length during the cutting cycle and synchronizing with the speed of the tube can prevent damage to the blade as well as preventing in accurate tube lengths which could loss and waste of product. The support rolls are provided to control tube vibrations. AC DIGITAL CONTROL SYSTEMS ACCELERATOR Corresponding to tube speed and the tube length, carriage speed and position re-digitally fed back to the servo control unit (motion control). Accurate cut lengths are accelerated by the carriage to synchronize with material speed.

User-friendly operation. Set-up is with menu selections displayed on a touch screen employing simple keyboard commands. Easier servicing by utilizing computer diagnostics, LED status/fault indicators, and modular construction. Digital Servo tuning eliminates the need for any hardware adjustments.

Touch screens can be accessed for operator and machine set-up purposes. Display includes the current length and batch size, subsequent length and batch size, the line speed, tolerance limit, number of cuts per minute, measured length of the cut piece & total material length. Microprocessor based servo control system consisting of three phase programming software tool "easy rider" with connecting lead. The software to take out the complete data on print.



SLITTING LINE

Slitting Lines are of different plans to suit client's necessities as far as mechanization level, adaptability of activities and creation limit. A coil slitting line is used to create smaller coils to a specific width or weight. A master coil will be threaded into the slitting line and from there a coil will be formed to your desired width. The slit coils that are produced (sometimes referred to as mults or strips) are then recoiled. Slitting lines can be equipped to slit ferrous and non-ferrous metals, as well as advanced and ultra-high strength steels, and aluminum. The coil slitting process involves large coils of metal being cut using sharp rotary blades. Straight lines are cut lengthwise into the large coil, the resulting strips of metal are narrower in width. As the coil runs through the slitter, two circular blades (one on top and the other on the bottom) make the cuts.

The mechanism used for the slitting process is often referred to as a slitter, a slitting machine or a slitter rewinder. To put things simply, the main role of a slitting machine is to convert (slit) papers, film and foil materials so that large rolls of these materials can be cut into narrower rolls. A slitting machine consists of three main parts; the unwind, the slitter and the rewind. By feeding a large roll of your chosen material through the slitter unwind, your material will then unwind and be split into various widths, before being rewound into cores of various widths. Slitting steel involves wide steel coils being fed through a slitter machine, which cuts the material into narrow strips. From this, the cut strips (also referred to as strands) are then recoiled to create a narrow slit coil. Features: Automatic operation, Pit/Floor mounted entry coil cars, Cone/Wedge type in coiler drum, Two/Four arm capstone

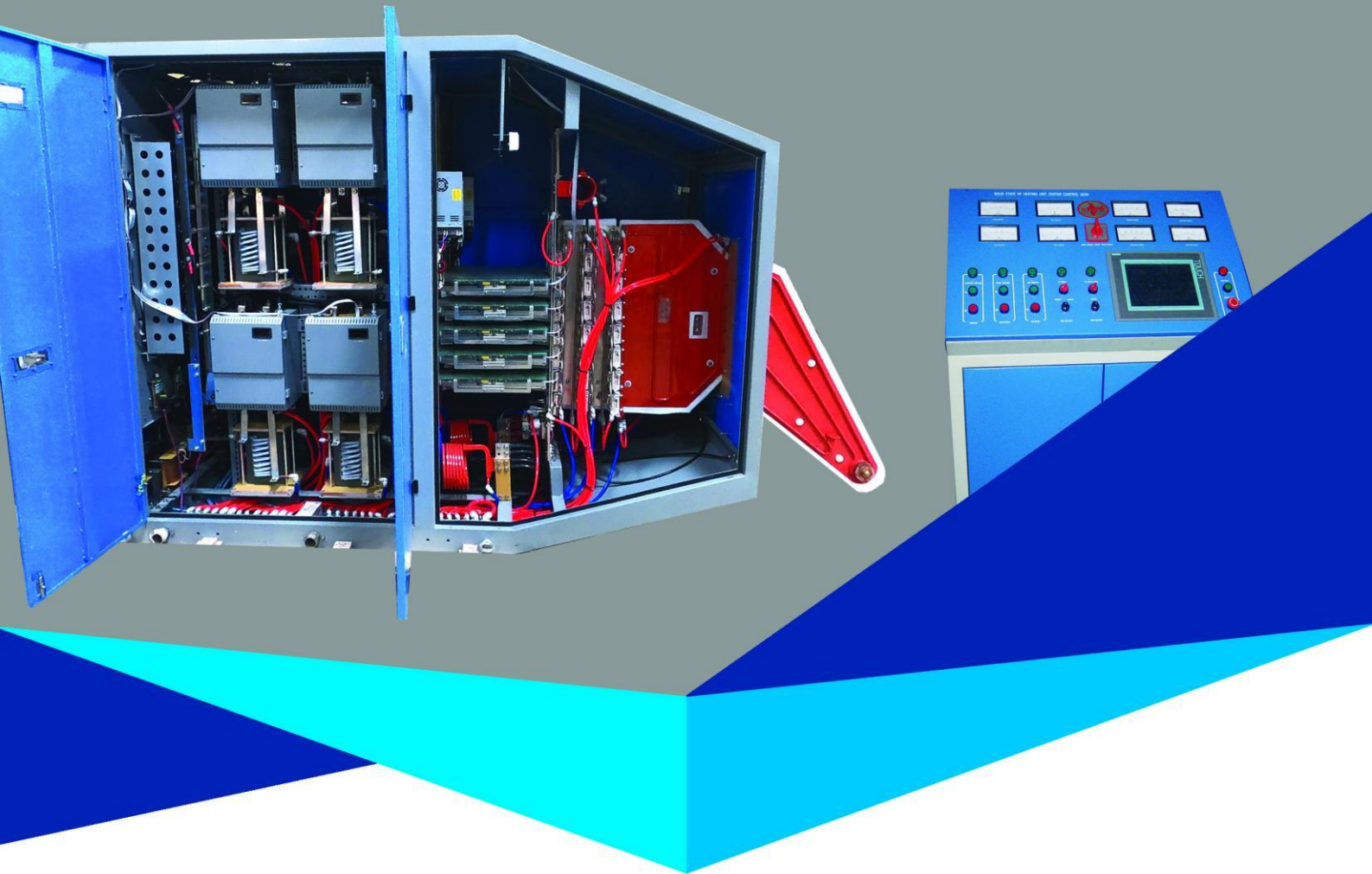


CUT TO LENGTH LINE

Cut-to-length lines are used to cut metal strips into sheets and then stack them into packages. Depending on the requirements & productivity, our cut-to-length lines are equipped with a fixed cut-to-length shears (stop and go) or with flying cut-to-length shears and the appropriate stacking system. Nirmal provides, fully customized machinery, depending on the required quality, flatness and surface of the metal sheets, the cut-to-length lines are equipped with our precision levelers, trimming shears or a filing device.

A cut to length line is generally used for jobs like uncoiling, straightening, measuring, cross-cutting to length and stacking of various materials such as cold or hot rolling carbon steel, tinplate, stainless steel, and other kinds of metal with coated surfaces.

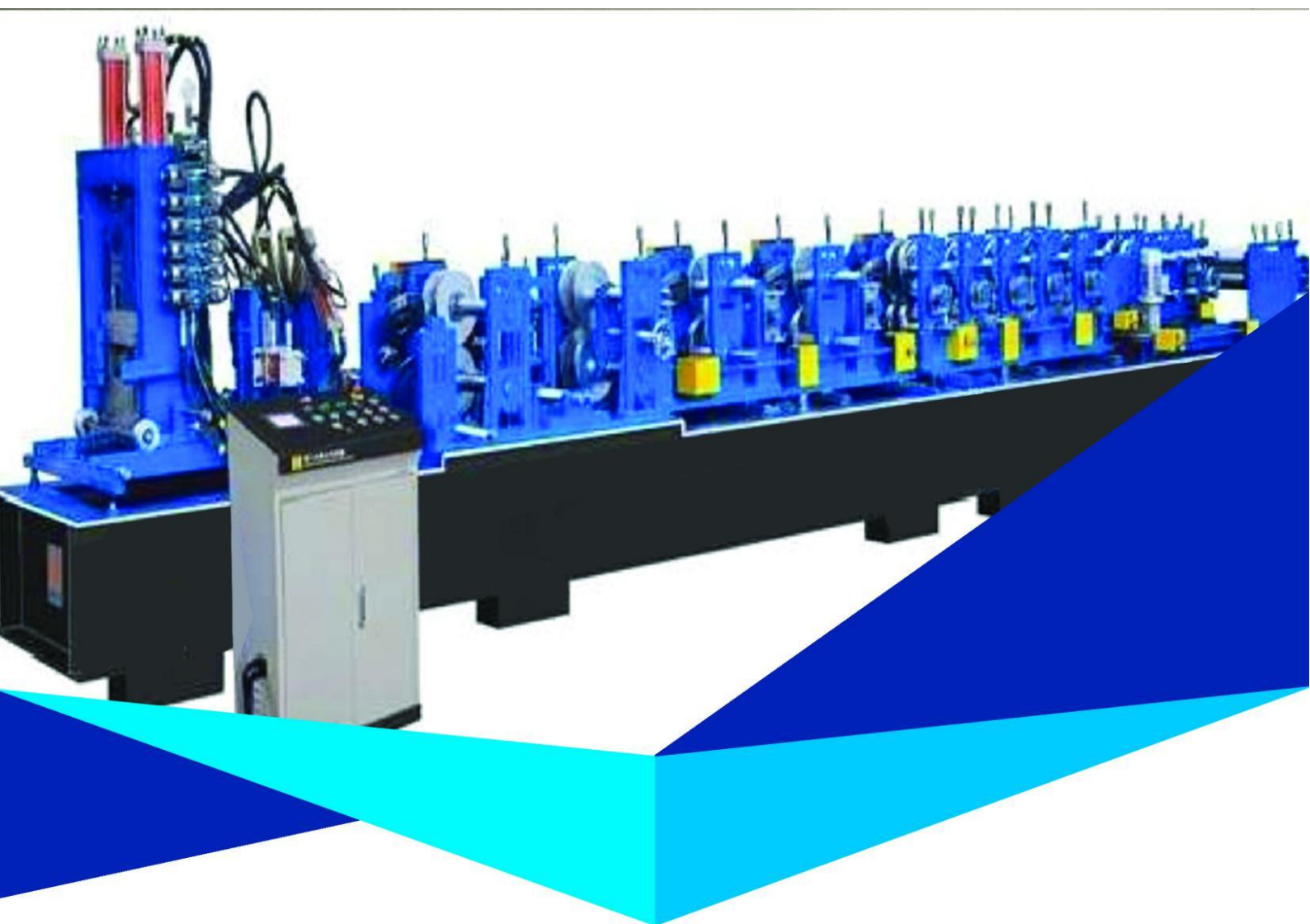
A metal cut to length line processes metal coil rolls by uncoiling, straightening, shearing to length and stacking of sheet metal blanks. In-line equipment used in a system can vary according to the width, thickness and incoming coil weight and may include coil storage, uncoiler and coil loading, leveler, flattener, roll feeds, shears, sheet stacker and related tooling and accessories. A CTL or a Blanking Line will take a master coil of flat-rolled steel from the integrated or mini-mill and unroll, flatten and cut to length sections to a precise length and stack the sheets into a bundle. Equipment will vary according to the width, thickness and incoming coil weight. Depending on the final end product to be utilized from the cut sheet, flatness may be a critical point and use of a double leveler, skin pass or stretcher leveler may be employed in the process.



SOLID STATE HF TUBE WELDER

Nirmal Overseas Private Ltd proudly the first company in India who started to manufacture a wide range of HF / RF Tube Welders and Induction heater. The Solid State High Frequency welders is consisting of switchgear rectifying cabinet, inverter output cabinet, heat exchange, MOSFET and IGBT base central operation console, mechanical adjustment device. Solid-state high-frequency welding machine is required for straight seam induction welding of steel pipes. The complete set of equipment must include switch rectifier cabinet and inverter output cabinet (split machine or integrated machine), optional circulating soft water cooling system, operating table and adjustment bracket. The solid-state high-frequency welding machine is designed according to the continuous working system.

High Frequency Solid State Welders Performance and reliability is a concern for you, so naturally you demand the highest quality of design and construction in the welder you choose. The PLC programmable control system realizes the comprehensive chain control and fault diagnosis functions of the equipment, and monitors the operation status of the equipment through the liquid crystal display. The Solid State Welder provides a great solution for tube mills with any tube diameter ranges while benefiting the producer in terms of reliability, compact layout, safety and supportability. Making this welder the logical choice for a cost effective installation. The Compact welder is ideal for quick retrofitting on existing mills when replacing obsolete vacuum tube welders.



OPEN PROFILE MACHINE C & Z

As a significant entity of this domain, Nirmal presents its clients with the premium quality of Open Profile Machine, which are Used in metal profiling applications, the open profile machine which is fabricated by using the latest technology. They are easy operation, compact design, consistent performance and less power consumption, which make the open profile machines highly demanded. Steel profile automatic high speed roll forming line for multiple profiles can be produced through quick adjustment. PLC central control whole line, includes-uncoiler, loop, leveler feeder, puncher, pre-cutter, quick adjust roll former, servo flying cutter, stacker, discharging. Features: Easy operation, Less power consumption, Consistent performance, Enhanced functional life.

The CZ purlin machines are specifically used to manufacture multi-size in C and Z purlin profile. An Automatic Interchangeable CZ machine with the advantage of an Easy to operate PLC based system used to change between C and Z purlin in an instant without any hustle. The C and Z purlin produced by these machines are of high quality and scratchless material, and are best suited for any size. The Machine's parts are all made with precision and experienced personnel, with optimum quality roll tools so you never have to worry about the quality. Automatic producing, allocated with remote control, safety light curtain etc whole security systems, which is approved by CE imposed by loading car, uncoiler, guiding & feeding device, roll forming machine, cutter, automatic stacker, hydraulic system, electric control system.



HOT DIP STRUCTURE GALVANIZING PLANT

Hot-dip galvanizing is the process of immersing iron or steel in a bath of molten zinc to produce a corrosion resistant, multi-layered coating of zinc-iron alloy and zinc metal. While the steel is immersed in the zinc, a metallurgical reaction occurs between the iron in the steel and the molten zinc. This reaction is a diffusion process, so the coating forms perpendicular to all surfaces creating a uniform thickness throughout the part.

Hot dip Galvanizing is usually very well tested in unique details in order that defect free products usually are sent from consumers' place. Hot dip galvanizing gives some advantages like limited pickling time period, short manufacturing charge, reduced creation price tag, improved productivity etc.

Hot dip galvanizing plants on the surface of Steel, Aluminum and Iron metal with zinc coating for long lasting and quality finishing by professionals as per the client's need and demand. Hot dip galvanizing plant used in the processing of galvanizing by our organization as Precimax online to deliver the solutions that's why we are appreciated by our clients and client's positive feedback is our main asset. Galvanization is the process of coating defensive zinc coating on steels and irons into classification to find rusting. Galvanizing equipment is the total option, of products which is included as hot dip galvanizing crash guard and guard rail, Galvanizing Plant, General Galvanizing Plant, Galvanizing Plants for Radiator and Transformer, Galvanizing Dryer, Wire Galvanizing Line.



HOT DIP PIPE GALVANIZING PLANT

The Hot Dip Galvanizing is a metallurgical interaction which assists with shielding steel materials from consumption brought about by expected openness to brutal conditions. This can be accomplished through various exciting sorts and it shields materials over the long haul from debasing while at the same time keeping up with their properties unaltered.

The Hot Dip Galvanizing interaction comprises lowering metal items in a liquid zinc shower. This causes a metallurgical response that bonds the two metals' outer layers, making a homogeneous and exceptionally safe surface. In tube galvanizing it has certain steps which constitutes the whole process of hot dip.

Through immense research of the market, Nirmal came up with a superior grade Pipe Galvanizing Plant which is designed and fabricated using high quality steel and components, specially designed for galvanizing metal pipes to prevent them from corrosion. Plant is fabricated according to the industry laid parameters and the requirements of our customers.

We are experienced professionals possessing in-depth knowledge and expertise in manufacturing various types of galvanizing plants according to international standards.

The plants are highly efficient and allow a constant and continuous production for each diameter of a pipe in process.

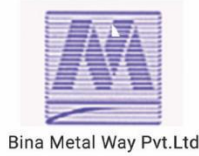


HYDRO TESTING MACHINE

The test involves filling the pipe system with a liquid, usually water, which may be dyed to aid in visual leak detection, and pressurization of the vessel to the specified test pressure. Pressure tightness can be tested by shutting off the supply valve and observing whether there is a pressure loss. The location of a leak can be visually identified more easily if the water contains a colorant. Strength is usually tested by measuring permanent deformation of the container. Hydrostatic testing is the most common method employed for testing pipes and pressure vessels. Using this test helps maintain safety standards and durability of the pipe over time. Newly manufactured pipes are initially qualified using the hydrostatic test. They are then revalidated at regular intervals according to the relevant standard.

Testing pressure of pipes for transport and storage of gasses is very important because such containers can explode if they fail under pressure. Normal fully computerized controls for Hydrostatic Pipe Testing Machines which are suitable for pipe applications to meet any international standard, including those of API and AWWA. Hydrostatic Pipe Testing Machines which can be used with pipes produced by the High Frequency Induction Welding. Hydro Testing of pipes are performed to expose defective materials that have missed prior detection, ensure that any remaining defects are insignificant enough to allow operation at design pressures, expose possible leaks and serve as a final validation of the integrity of the constructed system. ASME B31.3 requires this testing to ensure tightness and strength.

NIRMAL OVERSEAS PRIVATE LIMITED CLIENTS



**NIRMAL OVERSEAS PRIVATE LIMITED RECENT SUPPLY TUBE MILLS, SLITTING LINES & GALVANIZING PLANT ON TURNKEY BASIS
ERECTION & COMMISSIONING OF 20"API LINE FOR RATNAMANI, AHMADABAD.**

ERECTION & COMMISSIONING OF 20"API LINE FOR JINDAL INDIA, KOLKATA.

MANUFACTURED & COMMISSIONED API STANDARD PROJECT FROM ½ " TO 14" TURNKEY LINE FOR GIAD PIPES CO IN SUDAN.

ERECTION & COMMISSIONING & SUPPLY OF COMPLETE PROJECT 7" LINE, PURSHOTAM PROFILES PVT LTD, AHMADABAD.

MANUFACTURED & COMMISSIONED OF 4" TO 14" TUBE MILL LINE FOR BINA METAL WAY PVT. LTD TATA NAGAR.

MANUFACTURED & SUPPLIED OF 12" LINE EQUIPMENT FOR JINDAL INDUSTRIES, HISSAR.

MANUFACTURED & COMMISSIONED API STANDARD 8"-20" LINE FOR ASIAN TUBES LTD, AHMADABAD.

MANUFACTURED & COMMISSIONED 127MM PS STEEL TUBE KHOPOLI, BOMBAY.

**MANUFACTURED & COMMISSIONED 1/2" TO 3", ½" TO 2.½", ½" TO 1.½" LINE TURNKEY PROJECT WITH COLD SAW MACHINE
TO OMAN.**

MANUFACTURED & COMMISSIONED ½" TO 3" LINE, TURNKEY PROJECT WITH COLD SAW MACHINE TO NIGERIA.

**MANUFACTURED & COMMISSIONED 1/2" TO 3" LINE, TURNKEY PROJECT WITH COLD SAW MACHINE TO HI-TECH PIPES,
SECUNDERABAD.**

MANUFACTURED & COMMISSIONED 2" TO 8" TURNKEY PROJECT TO MIANAWATI STEEL, NEPAL.

MANUFACTURED & COMMISSIONED ½" TO 3", ½" TO 1.½" TM LINE, CRANE, SLITTING TURNKEY PROJECT ABID SUDAN.

MANUFACTURED & COMMISSIONED ½" TO 3", ½" TO 1.½" TM LINE, CRANE, SLITTING TURNKEY PROJECT GTS SUDAN.

MANUFACTURED & COMMISSIONED ½" TO 3", ½" TO 1.½" TM LINE, CRANE, SLITTING TURNKEY PROJECT STEELCO SUDAN.

MANUFACTURED & COMMISSIONED 1/2" TO 3" TM LINE WITH CRANE, SLITTING TURNKEY PROJECT GUINEA.

NIRMAL HAS SUPPLIED COMPLETE TURNKEY PROJECT STEEL PLANT, WATANIYA STEEL AT SYRIA.

MANUFACTURED & COMMISSIONED 16-50MM TURNKEY PROJECT WITH COLD SAW MACHINE TO UTTAM STEELS, BHIWADI.

MANUFACTURED & COMMISSIONED 16-50MM TURNKEY PROJECT WITH COLD SAW MACHINE TO STIL, UGANDA.

MANUFACTURED & COMMISSIONED 16-50MM TURNKEY PROJECT WITH COLD SAW

MANUFACTURED & COMMISSIONED 1.½" TO 4", ½" TO 1.½" TURNKEY PROJECT ASHOKA STEEL, VALLUR TAMIL NADU.

MANUFACTURED & COMMISSIONED ½" TO 3", ½" TO 2.½", ½" TO 1.½" LINE TURNKEY PROJECT UNITED STEEL, OMAN.

MANUFACTURED & COMMISSIONED ½ TO 4" LINE TURNKEY PROJECT WITH COLD SAW MACHINE TO BANGLADESH.

MANUFACTURED & COMMISSIONED ½ TO 3" COLD SAW MACHINE TO MPL HYDERABAD.

MANUFACTURED & COMMISSIONED ½ TO 3" COLD SAW MACHINE TO SHRI RAJ TUBE HYDERABAD.

MANUFACTURED & COMMISSIONED ½ TO 3" COLD SAW MACHINE TO BHUSHAN STEEL, MANDI GOBINDGARH

MANUFACTURED & COMMISSIONED ½ TO 3" COLD SAW MACHINE TO HARI OM PIPE HYDERABAD.

MANUFACTURED & COMMISSIONED ½ TO 3" COLD SAW MACHINE TO

MANUFACTURED & COMMISSIONED 3" COLD SAW STEEL AUTHORITY OF INDIA LIMITED AT BETHIA.

MANUFACTURED & COMMISSIONED ½" TO 3" CTL SLITTING TURNKEY PROJECT ANGOLA.

MANUFACTURED & COMMISSIONED OF 40TON X 2200MM X 12MM SLITTING LINE FOR BINA METAL WAY PVT.LTD, TATA NAGAR.

**MANUFACTURED & COMMISSIONED HYDRO TESTING MACHINE FOR 3000 PSI AS PER API STANDARD, OMAN, ALJEZIRA
COMPANY.**

MANUFACTURED & COMMISSIONED HOT DIP PIPE GALVANIZING PLANT FROM 1/2" TO 6" IN SYRIA.

MANUFACTURED & COMMISSIONED GALVANIZING PLANT IN SAUDI ARABIA, YEMEN, & EGYPT.

MANUFACTURED & COMMISSIONED HOT DIP PIPE GALVANIZING PLANT FROM ½" TO 6" IN ITCC, SAUDI ARABIA.

MANUFACTURED & COMMISSIONED HOT DIP PIPE GALVANIZING PLANT FROM ½" TO 6" IN AL RABI, YEMEN.

MANUFACTURED & COMMISSIONED HOT DIP PIPE GALVANIZING PLANT FROM ½" TO 6" IN EGYPT.

SEAM ANNEALER (AS PER API)

**• LLOYD STEEL, BOMBAY • SURYA ROSHNI LTD, BAHADURGARH. • JINDAL PIPES LTD, GHAZIABAD • SWASTIK PIPES LIMITED,
BAHADURGARH**

RATNAMANI TUBES LTD, AHMEDABAD • GAJANAN TUBES LTD, KOLKATA • JOTINDRA STEEL, FARIDABAD.

ROLL FORMING LINES

**CASE COLD ROLL FORMING, HIMACHAL PRADESH, STEEL & TUBE INDUSTRIES LTD, UGANDA. COLD FORMING LINE,
SAUDI ARABIA.**

NIRMAL OVERSEAS PRIVATE LIMITED

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