

STAINLESS INDIA

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**Indian Stainless Steel
Development Association**

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“steeljunction” -- A Shopping Mall for Steel Products Stainless steel lights up “steeljunction”

To revolutionize the perception of steel amongst the common consumer, ensure quality and satisfaction to them at reasonable price and make the purchase of steel items itself a pleasurable experience, Tata Steel Ltd have forayed into organized steel retailing by opening “steeljunction” at Trinity Towers, 83, Topsia Road, Kolkata.

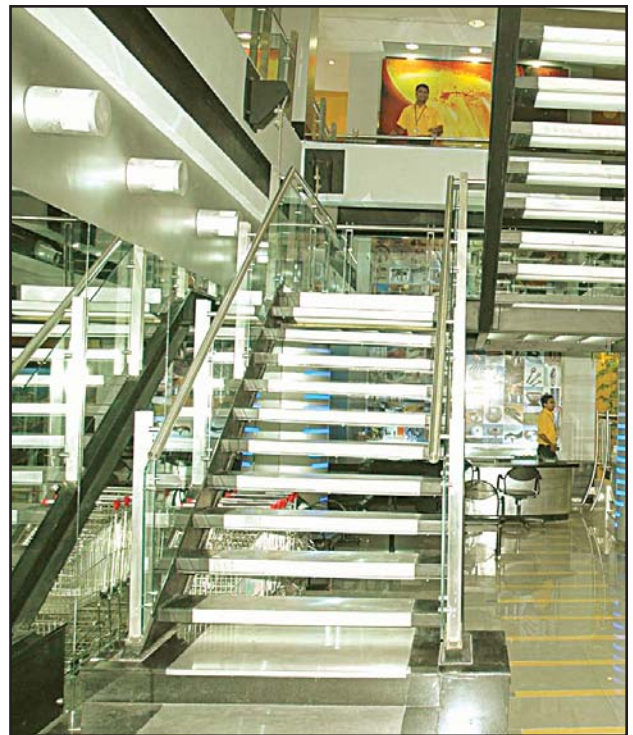
This colourful and vibrant store “steeljunction” sprawling over 23,000 sqft area, is a one-stop shop for everything in steel and promises to make steel shopping a enjoyable experience for the whole family like visiting a mall. The store displays perfect harmony between uses of colourful products v/s grey products giving warmth to an otherwise cold material like steel. Now, shopping for steel items is not limited to housewives or those in the building trade. The store showcases leading Indian and international brands — Gymnasium equipment, furniture, kitchenware, bathroom fittings, tableware, modular kitchens, lifestyle products and more are displayed and constantly replaced with improved and newer designs.

To create the necessary ambience for such a store, Tata Steel engaged M/s Manashi Interiors (a member company of ISSDA), New Delhi, to design and furnish the interiors. Manashi Interiors achieved this with a liberal use of stainless steel staircase railings, kiosks, furniture etc and ensured that “steeljunction” is now a glitzy one-stop store for steel items in Kolkata.

In this day and age when Indian urban space is undergoing a retailing revolution, with everything from petrol to hair cutting facilities, daily vegetable shops and grocery stores getting sleek make-overs, this initiative of Tata Steel is an excellent way to give steel its legitimate place in the sun. This is a far better experience than the image of ‘Loha Mandis’ (iron markets) of today.

“steeljunction” invites members of ISSDA to join Tata Steel’s retail initiative by getting into arrangement with them for display and sale of stainless steel products like pipe, tube, wire, sheet, builders hardware, architectural items, lifestyle products, kitchen products etc. in their store. This will enable architects, interior decorators and builders in and around Kolkata to easily access stainless steel products for their use. Even architectural fabricators are encouraged to enlist their services with “steeljunction” so that this store can also serve as a one-stop shop for the construction industry personnel in Kolkata and neighbouring areas for all their stainless requirements. Please contact Mr Sumit Ray, Chief (Retail Initiatives), Tata Steel Ltd at sumitray@tatasteel.com, info@steeljunction.in or visit www.steeljunction.in for this purpose.

Photographs courtesy: MANASHI INTERIORS, B-212, C R Park, New Delhi – 110 019; Tel: 011-2627 2500 / 3118; Fax: 011-2627 6302; E-mail: manashicorp@vsnl.net.



Teasing Gravity ?

Utssav Gupta, a student of architecture at the Sushant School of Art and Architecture, Sector 55, Gurgaon has developed a tensegrity structure consisting of stainless steel tubes and wires. It is light-weight, structurally stable and soars to a height of 3.4 metres. From a distance, the stainless steel tubes seem to be floating in the air, giving the impression of defying gravity! This visually enchanting structure is on display at the school in Gurgaon.

Tensegrity is an acronym for tension and integrity. In a tensegrity structure, tensile members are usually continuous wires or rods, while the discontinuous compression members are sections of tubes. Since the compression members do not have to transmit loads over long distances, they can be made more slender without sacrificing structural integrity. This makes tensegrity structures very much lighter and slender compared to other structures. Usually, stainless steel tubes are preferred because of their high strength-to-weight ratio and ease of maintenance.

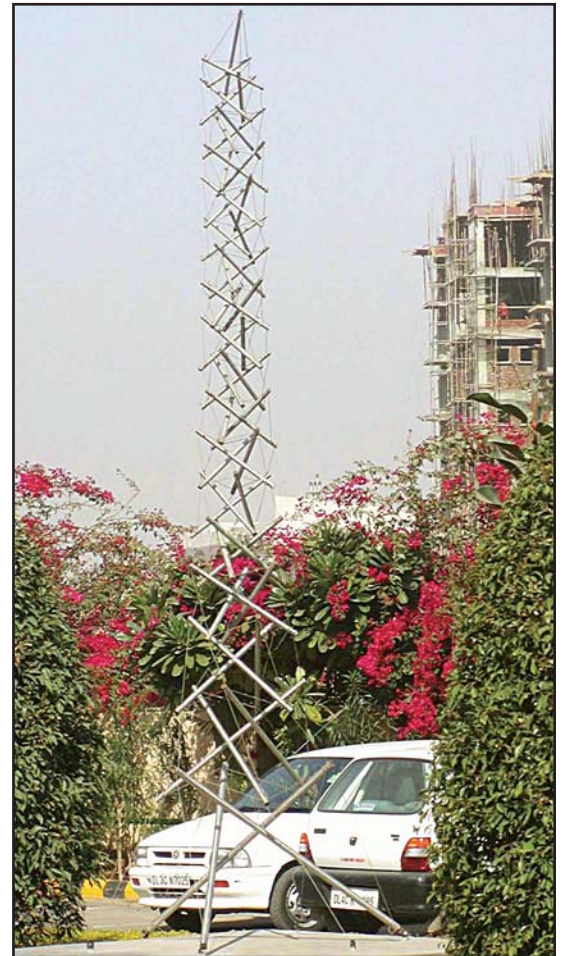
Benefits of Tensegrity

The qualities of tensegrity structures which make the technology attractive for human use are their resilience and their ability to use materials in a very economical way. These structures very effectively capitalize on the ever increasing tensile performance modern engineering has been able to extract from construction materials. In tensegrity structures, the ethereal (yet strong) tensile members predominate, while the more material-intensive compression members are minimized. Thus, the construction of buildings, bridges and other structures using tensegrity principles could make them highly resilient and very economical at the same time.

Possible futuristic applications: Domes, when constructed over cities, could serve as frameworks for environmental control, energy transformation and food production. They could also be useful in situations where large-scale electrical or electromagnetic shielding is necessary or in extra-terrestrial situations where micrometeorite protection is necessary. The domes could provide for the containment of flying animals over large areas, or contain debris from explosions. Another potential application is light-weight aerospace structures. Although researchers in many parts of the world are working to develop applications of tensegrity structures, so far, practical applications have been limited because of technical problems like strut congestion, poor load response, fabrication complexity and inadequate design tools. Let us hope that these limitations will be overcome and mankind blessed with availability of largescale light-weight tensegrity structures.

Utssav Gupta's basic module consists of three struts (tubes) and nine ties (wires). A total of 54 struts and 216 ties were used to make up 18 modules. The struts and ties were joined at 108 nodes.

For his project, Utssav Gupta is thankful to father, Ar. Rajiv Gupta, his teacher and guide, Prof. Satsangi for introducing him to tensegrity, his senior Mr. Suraj Sahai, his execution team Sunjit Gupta and Navneet Khanna, the fabricator Mr. Ashok Sharma and last but not the least to Mr Onkar Singh (Speco Engineering) for his kind blessings.



BIS standard for stainless steel LPG cylinders for domestic use

The Bureau of Indian Standards (BIS) has recently published an Indian Standard for stainless steel LPG cylinders for stationary/ domestic use — IS : 15637 : 2006. Stainless steel type 304L, 1/16 hard has been specified as the material for the LPG cylinders. Stainless steel LPG cylinders for automotive use are covered separately in IS : 14899 : 2000.

The publication of this BIS standard now allows manufacture of stainless steel LPG cylinders for domestic use. The main advantage of a stainless steel cylinder is its lesser weight (about 50% less) as compared to the existing carbon steel cylinder. The lighter stainless steel cylinders will be a boon to housewives and to delivery personnel who manually carry the cylinders up several floors. Reaching homes in hilly areas and delivery of LPG to remote defence outposts via helicopters and other means will be easier. Added attraction is the

pleasing aesthetic looks, which blends comfortably with the modern household and satisfies the tastes of the modern housewife.

For gas companies, corrosion resistance, minimal maintenance and longer life of stainless steel cylinders are a bonus. New entrants to the LPG retail market in India can attract a lot of customers and easily expand their market share by bottling their LPG in gleaming, light-weight stainless steel cylinders. This was the method adopted by M/s Cepsa Elf Gas when they entered retail LPG distribution in Spain. Within a few short years, Cepsa established its credibility in a market which was earlier the monopoly of a sole supplier. Stainless steel LPG cylinders have been widely used for many years for Automotive and stationary/domestic use in Australia, New Zealand, Spain etc.

For further details, contact ISSDA at nissda@gmail.com.

Handrails, Balcony Railings, Canopy in gleaming stainless for MICO

About 15 tonnes of stainless steel 304 has been used for the MICO BOSCH RBIN KOR-905 building at Koramangala in Bangalore. Stainless steel tubes, solid rods, flats, sheets and spider fittings have been used in this project which was executed by M/s Velaar Engineering Works Pvt Ltd, Bangalore.

Contact details of architect: M/s Thomas Associates, Bangalore; Tel: 080-2224 0544; Fax: 080-2223 8396; Email: mail2@ta-arch.com.

Contact details of the stainless steel fabricator: Mr A C Vadhivelu, Director, VELAAR ENGINEERING WORKS PVT LTD, *StainleSStyle*, No. 63, K H Road (Double Road), Banagalore – 560 027; Tel: 080-411 42 444; Fax: 080-411 42 666



Carbon steel I-beams clad with stainless steel sheets

Nickel Institute Appoints New President



Steve Barnett has been appointed President of the Nickel Institute effective January 1st 2006. Steve is on secondment to the Nickel Institute from BHP Billiton, where he was Vice-President, Health, Safety and the Community in BHP Billiton's Stainless Steel Materials Division.

Steve was born in the U.K. in 1954 and graduated in metallurgy from the Royal School of Mines, Imperial College, UK, in 1975. He has a wide experience of non-ferrous metallurgical engineering and has had specific nickel-related responsibilities in Australia, Colombia and South Africa. Steve will be based in the U.K. and in the Nickel Institute office in Brussels.

He takes over as President from Dr. Ivor Kirman, who will be retiring from the Institute at the end of January 2006. Ivor joined what was then the Nickel Development Institute in 2000 and has been President of the Nickel Institute since its formation in 2004.

The Nickel Institute, which has its headquarters in Toronto, Canada, creates and communicates knowledge to support the sustainable production, use and reuse of nickel.

Nickel Institute's press release dated January 3, 2006.



Solid stainless steel flats for balustrades



Stainless steel staircase handrails

Stainless Fasteners for Army Jeeps

The Iraqi army wanted war field vehicles – bullet-proof, which could withstand corrosion in marine and snowy atmosphere.

M/s. Mahindra Defence Systems supplied the vehicles fitted with 304 grade enviro-coated (a chemical treatment on stainless steel developed by M/s Kundan Industries Ltd, Mumbai) fasteners to install the bullet-proof accessories to the jeep and named the model as RAKSHAK.

About 200 fasteners have been used per vehicle (approximately of 25 kg of fasteners / vehicle). By March 2006, Mahindra will supply 299 such vehicles for this project. The company is optimistic of supplying another 1,000 bullet-proof vehicles in the next financial year.



Some of the stainless steel 304 fasteners encircled.

Information and photographs courtesy: KUNDAN INDUSTRIES LTD, 252 Yusuf Meharali Road, Mahesh Niwas 2nd floor, Mumbai – 400 003; Tel: 022-2340 0551 / 0911; Fax: 022-2344 7360; E-mail: fasteners@kundan.com; Web: www.kundan.com

Stainless Steel Wirewheels

Wheel is the most essential part of any transport being used in our day to day life. Wheels India Limited– a leading manufacturing unit of automotive wheels catering to commercial wheel segments, passenger cars, agricultural tractors, defence vehicles and earth movers – takes care of the wheel requirement of our country. Wheels India has been in the field for more than five decades, and is equipped with well established R&D and manufacturing units.

Wire wheel – a special attractive product purchased mainly for its aesthetic look, style and strength – was the wheel used on the classic range of automobiles produced in the early 20th century. There has been a large demand for wirewheels in overseas market, to service this range of vehicles. With a view to meet these demands, Wheels India started speciality wheels division in 1981 and since then has been exporting wire wheels to UK, USA and other countries. Majority of the wheels are nickel chrome plated and some percentage are supplied in painted versions. These are manufactured to meet severe road and environmental conditions with lasting performance.

In continuation of the policy of improving the style and performance of its products Wheels India has ventured into manufacturing ALL STAINLESS STEEL wirewheels using the latest manufacturing technology. The material used is austenitic stainless steel. Special processes have been developed after long years of research in manufacturing these wheels. The parts are specially electropolished to improve corrosion resistance and to retain the color and lusture.

AISI 304 stainless steel is used for the rim and the wires. Approximately 7.0 to 9.5 kg of stainless steel is used per wheel.



About 2,500 all-stainless steel wire wheels are made by the company per annum. These wheels go into cars like Morgan, Jaguar, AC Cobra, Aston Martin DB6.

Information and photographs courtesy: WHEELS INDIA LTD, Speciality Wheels Division, Padi, Chennai – 600 050; www.wheelsindia.com

SUHNER®

Industrial kitchen
manufacturing



Chemical Industry



Food and Beverage Industry



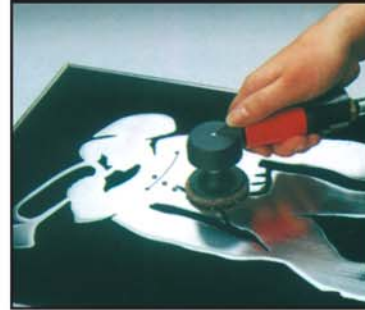
Stainless Steel Pipes,
Railings and Tubings



Sewage Plant



Sculpturing



Refrigeration Equipment



The materials conditioning of stainless steel is only one part of our wide spectrum of applications. With our unique concept of Three Power Sources with :

- Flexible Shaft Grinders
- Electric Grinders
- Air Grinders

with drive units exactly designed in all power categories, a host of Accessories and a **comprehensive range of Abrasive**, offers the maximum combination for treatment of all Materials : Ferrous and Non Ferrous metals, timbers, glass, stone, marble, ceramics, composites.

Our power tools can be used for all steps of conditioning from heavy stock removal to mirror finish, Grinding, Snagging, Sanding, Deburring and Polishing.

Dealership enquiries solicited.
For more details, please contact

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www : suhner.com



Abrasive expert.

Stainless Steel Machining

SUHNER

SUHNER. The Art of Mechanics.

Stainless Steel Fasteners from Raajratna Metals

Raajratna Fasteners Pvt Ltd, manufacturer of stainless steel fasteners, is a new venture of Raajratna Metal group having sales of more than Rs 200 crore. The group's in-house SS wire, bright bar mill ensures the steady supply of quality raw material to Raajratna Fasteners. The fasteners are manufactured under the brand name "RAAJ".

Their product range includes hex bolt, socket cap screws, socket CSK (M4 to M16), nuts, machine screw and self-tapping screws, threaded bars (M4 to M24 or 1/4" to 7/8"). The fasteners are made in AISI 304 (A2), AISI 316 (A4) grades or in other special grades on request.

Raajratna Fasteners is equipped with a brand new multi-station bolt / nut former along with other ancillary equipment to deliver the best quality products required by various industries. Fasteners are manufactured as per DIN, ISO, BS, IS, ASTM, JIS standards and also to customers' specifications. Backed by established quality systems and technical expertise, Raajratna Fasteners is rightly poised to serve its

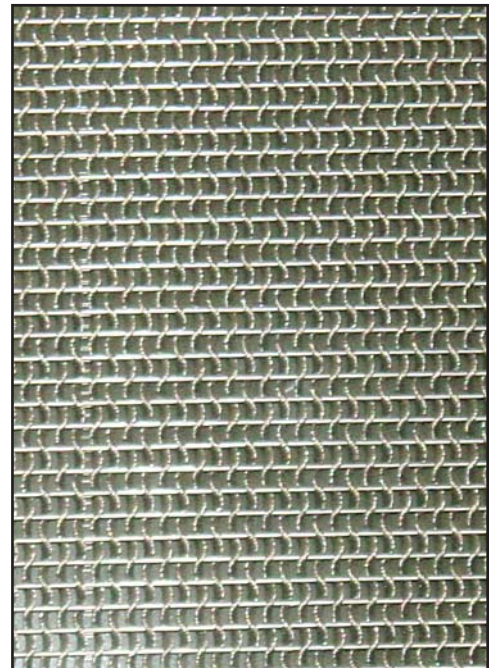


valued customers.

Information and photograph courtesy: RAAJRATNA FASTENERS PVT LTD, 804 Sakar-III, Near Income Tax, Ahmedabad – 380 014;

E-mail: sales@raajfasteners.com; Web: www.raajfasteners.com

Stainless steel wire meshes adorn Delhi residence



At the residence of an exporter in Delhi, stainless steel wire meshes have been used as partitions in the living room area and near the entrance staircase. 'Baltic' design wire meshes in stainless steel grade 316 were supplied in sizes of 1.95 m height x 0.50 m width and 2.031 m height x 3.124 m width. According to wire mesh supplier, M/s New Era Industries, GKD steel wire meshes can be used both for interior and exterior applications. The applications depend on the architect's imagination. Information and photographs courtesy: NEW ERA INDUSTRIES, 51 Adchini, Sri Aurobindo Marg, New Delhi 110 017; Tel: 011-2685 4673; Fax: 011-2686 3573; E-mail: newera@del2.vsnl.net.in.

Welcoming New Members

Aditya Forge Ltd

M/s Aditya Forge Ltd is an ISO 9001-2000 certified stainless steel / alloy steel / carbon steel forgings producer. Aditya Forge has a highly qualified, experienced and dedicated work force to produce quality products at competitive cost. The company has a well-equipped laboratory for testing the chemical, physical and mechanical properties of the materials. Aditya Forge exports stainless steel / alloy steel / carbon steel billets, flanges, forged bars to the USA, various countries in Europe and the Middle East. The installed capacity is approximately 10,000 MT of forgings.

The company has its registered office and the forging plant in Distt. Vadodara, Gujarat where 130 employees including 18 well qualified engineers are engaged in producing products to international quality and standards. The manufacturing activities relate to processing stubend and flanges in all varieties and other special forgings.

The company procures its raw materials from reputed firms like Tata Steel, ISMTL, SAIL, MUSCO, SUNFLAG, RINL or through imports. According to Aditya Forge, its manufacturing facilities have been approved by leading consultants like Lloyds, EIL, ONGC, TDC, Uhde, Linde, Toyo, Davy Power, H&GC, Chemtex, Bax Counsel, IBI Chematur, Tata Consulting Engineers, Tata Projects, PDIL etc.

Aditya Forge's products cater to various industry sectors like chemicals, petrochemicals, refineries, fertilizers, nuclear power, synthetic fibre, oil and other allied industries.

ADITYA FORGE LTD, 415, GIDC Ramangamdi, POR – 391 243, Distt. Vadodara, Gujarat; Tel: 0265-2830 325 / 729; Fax: 0265-2830 324; E-mail: sales@adityaforge.com.



Artech Welders Pvt Ltd

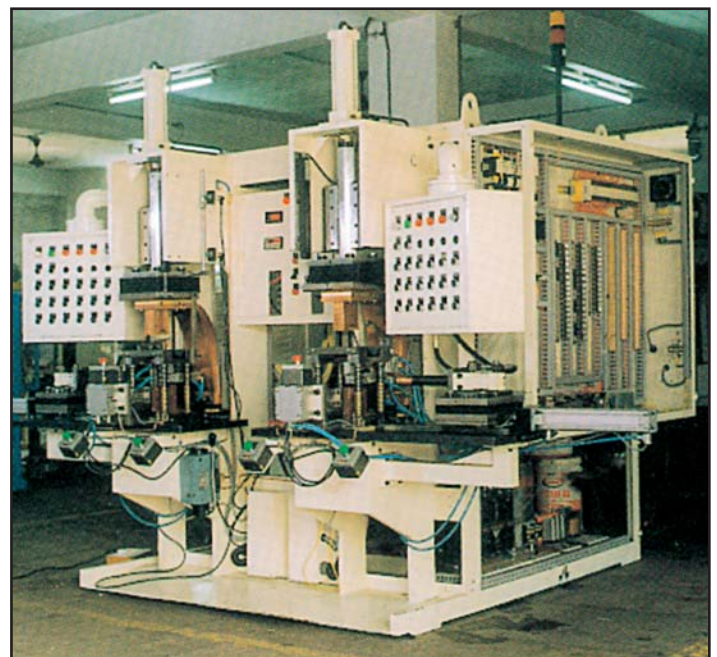
Artech Engineering Works was incorporated to design and manufacture Capacitor Discharge Spot and Projection welding machines. On August 1, 2003, the name of the company was changed to Artech Welders Pvt Ltd.

The company has its manufacturing base in the Pimpri / Chinchwad industrial belt near Pune. The factory area is about 7,000 sqft covering design, manufacturing, assembly and testing. The company has an all-India sales and service network with its engineers based in major cities like Mumbai, New Delhi, Chennai and Bangalore. It has a work force of 29 persons including 10 workers, 15 engineers and 4 support staff based in the factory.

The company has been certified for ISO 9001 by DNV and also manufactures "CE" certified machines for exports to Europe. The capacitor discharge welding machines made by Artech were also awarded "Best Design and Concept" prizes at IMTEX 98 by the CMTI and FIE Foundation. Artech has also exported its machines to Europe and Malaysia.

Artech, now has installed over 600 machines all over India for a

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Special purpose CD welding machines

>> contd. from page 7

variety of applications in automobile sheet metal parts, auto electricals, switch gears, semi conductors and micro electronics, kitchen ware and white good etc.

As the company manufactures only capacitor discharge welding machines, it has a vast and specialized design and manufacturing experience for providing solutions for a variety of welding applications.

ARTECH WELDERS PVT LTD, A-59, H-Block, MIDC, Pimpri, Pune – 411 018, Maharashtra;

Tel: 020-2747 6160, 5611 1673 / 1674;

Fax: 020-2746 1348;

E-mail: artech1@vsnl.com;

Web: www.artchengg.com.



In the Drawn-arc stud welding process (above), a welding rectifier serves as an energy source and provides a continuous welding current. The welding time can be adjusted from 5 to 500 milliseconds. When a weld is initiated, current begins to flow through the stud while the weld gun simultaneously lifts the stud to draw an arc, which melts the base of the stud and the adjoining surface on the workpiece. Upon completion of the weld time, the gun plunges the stud back to the workpiece, resulting in a permanent bond as the molten metal solidifies. The whole process takes less than one second. This method has a higher depth of penetration compared to other stud welding processes. These machines are most commonly used in transformer manufacturing, ship building industry, structural steel industry, boiler industry, power plants, automobile industry.

BHP Billiton

The BHP Billiton Stainless Steel Materials Customer Sector Group markets nickel, cobalt and chrome. The company is the world's third largest finished nickel producer and the largest in intermediate nickel products. Products include Nickel Compacts and Nickel Oxide; Ferronickel granules; Nickel Briquettes; Nickel Concentrates; Nickel Matte; Mixed Sulphides; Ferrochrome in the form of Charge Chrome, plus medium carbon refined Chrome Alloys, and Cobalt in the form of Chemgrade Cobalt Oxide hydroxide. The company's nickel assets include Cerro Matoso in Colombia, and in Australia - the extensive Nickel West operations, Yabulu Refinery and the soon-to-be-completed Ravensthorpe Nickel Project.

BHP Billiton Stainless Steel Materials primarily services the stainless steel industry, supplying nickel and ferrochrome in various forms. In addition, the company supplies nickel, refined ferrochrome, and cobalt to other markets including the specialty alloy, foundry, chemicals, and refractory material industries.

The key strengths of BHP Billiton Stainless Steel Materials' offering are:

- The delivery of high-quality products from cost-competitive

operations and low-cost reserves;

- The unique ability to provide a variety of both nickel and ferrochrome products tailored to requirement;
- Dedication to delivering superior customer service with emphasis on building strong relationships with customers through understanding their needs;
- Industry, technological and project development expertise;
- A geographical spread of marketing offices to service customers anywhere in the world;
- Commitment to further developing of products offered.

BHP Billiton aims to be leading supplier of nickel and chrome through a true value offering to its customers, and by pursuing capital-efficient growth through expansion and participation in new developments. The Ravensthorpe Nickel Project and the Yabulu Refinery expansion that will be in operation in 2007 support this aim.

BHP BILLITON, 168 Robinson Road, # 10-01 Capital Tower, Singapore 068912; Tel: +65 63493045; Fax: +65-63494045;

E-mail: Gautam.Varma@bhpbilliton.com;

Web: www.bhpbilliton.com.

Hercules Marketing Pvt Ltd

Hercules Marketing Private Limited is engaged in marketing industrial rawmaterial for Stainless Steel, Alloy Steel & Steel industry. Companies represented exclusively-Eramet France for Ferro nickel for Indian sub continent market as also Coal international-France for coal products.

HERCULES MARKETING PVT LTD, 61 / 18, 1st floor, Old Rajinder Nagar, New Delhi – 110 060

Tel: 011-4243 0510; Fax: 011-2571 0074; E-mail: dilip2shah@rediffmail.com.

Jain Brothers Sanitation Pvt Ltd

Jain Brothers Sanitation Pvt Ltd was founded in the year 1992. With a dedicated infrastructure and exclusive design strength, in a very short span of time the company became the leading manufacturer of stainless steel kitchen sinks / wash basins and lavatory pans.

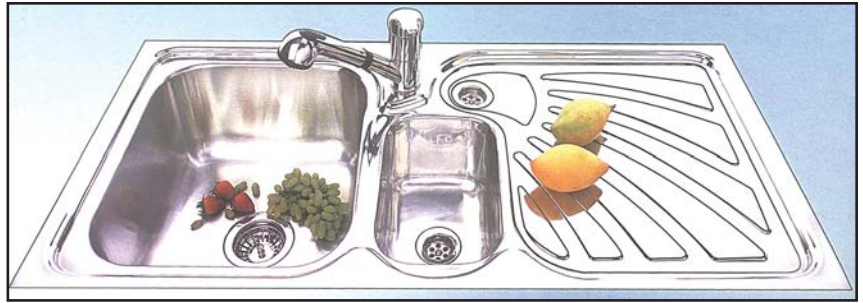
“JAYNA” brand stainless steel kitchen sinks, wash basins are manufactured from 100% non-magnetic and corrosion-free, finest quality AISI 304 (grade 18/8) stainless steel in 1 mm and 1.6 mm thickness. The company’s exclusive range of kitchen sinks and wash basins offer a wide choice of design and size (43 models in over 125 different sizes with up to 255 mm depth) and are readily available in various combinations along with “sound reduction technology”.

The company with a vision and desire to enter each and every Indian kitchen, manufactures an exclusive range of stainless steel kitchen sinks with reasonable pricing which is at par with the best quality available. The in-house design and mould shop offer flexibility to produce new unique designs for projects and overseas buyers. JAYNA also boasts of its wide array of kitchen marvels – from single, double bowl combinations to deep bowl / drainer versions. Each piece bearing the JAYNA stamp meets the highest standards in function, design and ergonomics and promises to blend effortlessly with today’s kitchens.

The efforts of providing world class quality to its valued customers has been recognized with ISO-9001 certification along with the certification from Bureau of Indian Standards (BIS) to use the standard mark “ISI” on its manufactured products. The company’s integrated production facilities are at par with international standards. The stringent “Total Quality Management” procedures adopted at various stages right from procurement of raw material to installation ensures better quality of our products. According to the company, interior decorators, building experts, home makers or just housewives looking for the best value for their money prefer to choose sinks from the wide JAYNA range.

With technical breakthrough and innovative designs, the company has introduced various ranges of new spectacular range of kitchen sinks which are a sophisticated blend of form and functionality, designed after extensive and in-depth study of patterns and processes of various Indian cooking styles and cultures. The company also offers an option of “Designer Range” kitchen sinks which are at par with the best international range available in global market. According to the company, JAYNA kitchen sinks are a perfect combination of beauty, utility and strength.

According to the company, today, JAYNA sinks has one of the most extensive range of premium quality



Luxor (LU-01) Single Bowl with Vegetable Bowl



RBGS-2 Round Bowl with Glass Counter

of kitchen sinks to offer in the country. With each range of continuing to lead the evolution of the kitchen sink area with functional concepts, striking good looks, and innovative solutions. The company’s SCRATCHNO SERIES are unique that it rests the scratch marks completely, ensuring a flawlessly clean, hygienic look in the kitchen for years to come.

The company’s client list includes CPWD, Delhi Metro Rail Corporation, NBCC, West Bengal Housing Board, Military Engineering Services, Army Welfare Housing Organization, Air Force Naval Housing Board, Central Government Employees Welfare Housing Organization, Indian Railway Welfare Organization, IOCL, GAIL, NTPC etc.

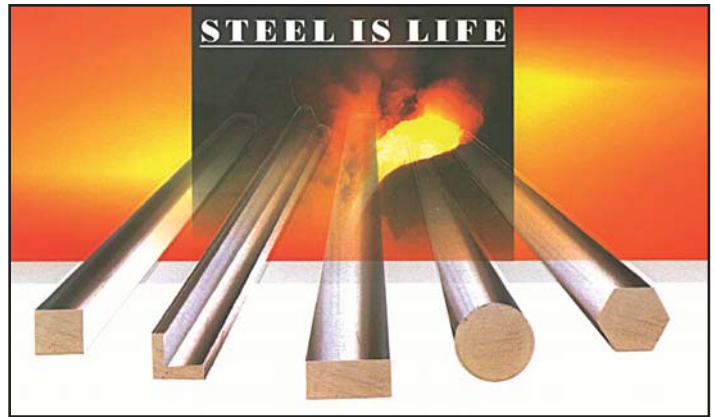
JAIN BROTHERS SANITATION PVT LTD, 12 SSI Industrial Area, G T Karnal Road, Delhi – 110 033;
Tel: 011-2769 3301 – 3303, 3958 9152; Fax: 011-2769 3305;
E-mail: jaynasinks@vsnl.net; Web: www.jaynasinks.com;
JAYNA Display Centres: Mumbai (Tel: 022-2684 6585),
Ahmedabad (Tel: 079-2754 6521).

Ratnesh Metal Industries Pvt Ltd

Ratnesh Metal Industries Pvt Ltd (RMIPL) was established in 1999 and the company started production in 2001. RMIPL offers all types of stainless steel hot rolled bright bars in different shapes and sizes to suit the customer's requirements. The bars are available in the shapes of round, square, RCS, hexagon, rectangle and angles. The current production capacity for melting is 5000 MT and for rolling is 40,000 MT per annum.

RMIPL has an induction melting furnace, two hot rolling mills (18 inch with 4 strands, 11 inch with 7 strands) and a bright bar plant with a capacity of 6,000 MT per annum. In addition to that the company has bar straightening, peeling, draw bench, roller polishing, centreless grinder, buffing and mirror polishing.

A well equipped laboratory with quality testing equipment like spectrometer, universal tensile testing, hardness tester, microscope for grain structure, ultrasonic equipment for checking micro cracks. RMIPL has a team of qualified and quality engineers, officers, technicians and skilled labour force to produce best products to meet the growing high technology needs of the new generation industries.



RATNESH METAL INDUSTRIES PVT LTD, 327 / A, Akshar Arcade, Opp. Memnagar Fire Station, Navrangpura, Ahmedabad – 380 009; Tel: 079-2640 1487 / 1488; Fax: 079-2640 0722; E-mail: info@ratneshmetal.com; Web: www.ratneshmetal.com Works: Mehsana, Gujarat; Tel: 02763-284 481 / 943; Fax: 02763-284 552. Mumbai office: Tel: 022-2285 0628 / 2481; Fax: 022-2282 3755.

Vishal Gas Services

M/s Vishal Gas Services was set up in 1983 with the stewardship of the technocrat and entrepreneur Mr D K Mittal, who had a strong vision to provide excellent engineering & technical services and fabrication of quality and cost effective stainless steel equipment for hospitality industries, Indian Railways, the defence sector and various other public sector industries.

Since then, the company has grown multifold having made its presence felt in various industries, including the Integral Coach Factory-Chennai, Rail Coach Factory-Kapurthala, Bharat Earth Movers Ltd-Bangalore, defence research institutes like DRDO, DMRL, DLRL, Midhani and also prestigious star hotels and industries in different parts of the country.

Vishal Gas Services has grown its expertise in stainless steel fabrication, having its own set-up which includes CNC cutting & bending machines, TIG welding machine, plasma cutting machine and a lot of special purpose tools for polishing stainless steel sheets for the desired texture.

The prestigious projects undertaken in the recent past include the fabrication and supply of Rail Mart & Pantry for the Jan Shatabdi



Pantry car kitchen

Coaches, WCB Pantry Car, kitchen car for military coaches, hot buffet coaches for LHB type Rajdhani Express trains. Composite pantry for A/C coaches, stainless steel modular toilets, stainless steel fabricated roof water tanks for export to Angola, grab rail, stainless steel luggage racks for EMU coaches, stainless steel bottle holders and partition frames.

In the growing scenario of stainless steel usage in automobile, railways, real estate and hospitality industries, M/s Vishal Gas Services is geared up with CNC laser cutting and a host of other imported machineries to cater to the needs of its esteemed clients.

VISHAL GAS SERVICES,
208 Kabra Complex, M G Road, Ranigunj, Secunderabad – 500 003;
Tel: 0404-2771 4127 / 5689;
Fax: 040-2771 4420;
E-mail: dependra@satyam.net.in.

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Vishal Gas Services' Overhead water tanks for Angolan coaches

Wire and Wire Products

Wire and Wire Products (WWP) is one of the well established small scale industries (situated at Ambattur Industrial Estate, Chennai), manufacturing welding consumables for automatic, semi automatic and submerged arc welding. WWP's wires are manufactured with updated technology and meet the quality standards to the satisfaction of its customers.

The company's product range includes: CO2 welding wires (0.80, 1.20 and 1.60 mm dia), copper coated mild steel wire (2.50, 3.15, 4.00, 5.50 mm dia), submerged arc welding wires, TIG wires of stainless steel and copper coated welding wires and SS core wires for the welding industry.

WWP has a team of qualified and experienced top and middle

management executives in all disciplines, enforcing stringent control over the chemistry and process parameters to produce high quality products. The company's products are available in packing of 12.5 kg in plastic pools to bobbin and drum packing.

The company's major customers include the Integral Coach Factory-Chennai; Faurecia Automotive Seating India Pvt Ltd-Attibelle; BHEL (ancillary units); all LPG cylinder manufacturing units in Andhra Pradesh, Karnataka, Kerala and Tamil Nadu; Hyundai and Ashok Leyland ancillaries.

WIRE AND WIRE PRODUCTS, 21-J / 2, SIDCO Industrial Estate, Ambattur, Chennai – 600 098; Tel: 044-2625 1517, 2624 2378; Fax: 044-2625 1517; E-mail: wwp1@touchtelindia.net

Stallion Systems has now an office in Delhi

M/s Stallion Systems Pvt Ltd, Bangalore, one of the pioneers in the fabrication of stainless steel for architectural applications, has now opened an office in Delhi. Since 1985, Stallion Systems, has been involved in large and prestigious stainless steel projects for the construction industry and has combined its leadership in stainless steel architectural fabrication with design capabilities too. Contact details of the Delhi office are : Mr Ajay Shah, General Manager, STALLION SYSTEMS PVT LTD, A-96, 1st floor, Central Market, Lajpat Nagar – II, New Delhi – 110 024; Tel: 0-93502 55891, 011-4172 2518; Fax: 011-4172 0775; E-mail: stallion.comfort@vsnl.com.

More members: M/s Flexi Film Wraps (India) Ltd - Aurangabad, M/s LPS Bossard Pvt Ltd - Rohtak, M/s Kongu Engineers - Coimbatore, have also joined ISSDA as **Associate Members**. Their company profiles will be published in the next issue of *STAINLESS INDIA*.

ISSDA at AEC World Expo

ISSDA participated in AEC World Expo 2005, organized by *Indian Architect & Builder*, which was held in Mumbai from Dec. 14-18, 2005. Many architects, designers visited the ISSDA booth. Posters highlighting the applications of stainless steel for the construction industry were displayed in the stall. Visitors were informed that technical publications containing a wealth of information on the use of stainless steel for construction industry are available with the Nickel Institute and are downloadable from www.nickelinstitute.org. Architects and designers can also visit ISSDA's site www.stainlessindia.org and browse through the **SupplyChain** link to source various stainless steel products and services, including fabricators / contractors.



ISSDA Members for contact details of members, please visit www.stainlessindia.org

PRIMARY MEMBERS

Adhunik Metaliks Ltd
Ambica Steels Ltd
Chandan Steel Ltd
Facor Steels Ltd
Haryana Steel & Alloys Ltd
Isibars Ltd
Jindal Stainless Ltd
Modern Steels Ltd
Mukand Ltd
Panchmahal Steel Ltd
Rathi Ispat Ltd
Rimjhim Ispat Ltd
Shah Alloys Ltd
Shyam Ferro Alloys Ltd
Stainless India Ltd
Steel Authority of India Ltd
(Alloy Steels Plant + Salem Steel Plant)
Sunflag Iron & Steel Co Ltd
Twenty First Century Wire Rods Ltd
Viraj Alloys Ltd

ASSOCIATE MEMBERS

Aditya Forge Ltd
Ador Welding Ltd
Ampi Agencies Pvt Ltd
Apex Tubes Pvt Ltd
Arcelor Stainless India Pvt Ltd
Architectural Division – JSL
Arm Innovations
Artech Welders Pvt Ltd
Autonix Auto Industries Pvt Ltd
Bansal Wire Industries Ltd
Batiwala Process Engineering
BHP Billiton
Bhandari Foils & Tubes Pvt Ltd
Bhansali Bright Bars Pvt Ltd
Bharat Earth Movers Ltd
Bhiwadi Metal Rollwell Pvt Ltd
British Super Alloys Ltd
Bizcon Business Consultants (I)
Cavalier, The
Choksi Tube Co Ltd

Connect Architectural Products Pvt Ltd
Continental Exports
Crystal Interior Products
Doshi Tubes Pvt Ltd
Esab India Ltd
Flexo Film Wraps (I) Ltd
Flow Link Systems (P) Ltd
Garg Sales Co Pvt Ltd
Glencore India Pvt Ltd
Heavy Metal & Tubes Ltd
Hercules Marketing Pvt Ltd
Hindustan Hydraulics Pvt Ltd
Hisar Metal Industries Ltd
Inco Europe Ltd
Integral Coach Factory, Chennai
IUP Jindal Metals & Alloys Ltd
Jain Brothers Sanitation Pvt Ltd
Jyoti (I) Metal Inds. Pvt Ltd
Kamdhenu Ispat Ltd
Kapasi Inc.
Kaushal Engineers
KEI Industries Ltd
Kirtanlal & Sons
Kongu Engineers
Krishna Industries
Kuma Stainless Tubes Ltd
Kundan Industries Ltd
LPS Bossard Pvt Ltd
M N Dastur & Co
Macro Bars & Wires (I) Pvt Ltd
Magppie Exports
Manashi Interiors
Merloni TermoSanitari (I) Ltd
Metal & Steel (India)
Metallic Bellows (I) Pvt Ltd
Metco Marketing (I) Pvt Ltd
Modi Arc Electrodes Co
Nav Ratna Fasteners
Neel Metal Products Ltd
New Era Industries
Nevatia Steel & Alloys Ltd
Nuclear Fuel Complex

Pheonix Appliances Pvt Ltd
Prakash Steelage Ltd
Quality Foils (I) Ltd
Rajratna Metal Industries Ltd
Rahul Industries
Rajendra Mechanical Inds. Ltd
Rail Coach Factory, Kapurthala
Ratnamani Metals & Tubes Ltd
Ratnesh Metal Industries Pvt Ltd
Real Strips Ltd
SKM Steels Ltd
Sahu Refrigeration Inds. Ltd
Sandvik Asia Ltd
Sharp Engineers
Shekasa Engineering Co Pvt Ltd
Simple Enterprises
Sreevatsa Stainless Steel Fabricators (P) Ltd
SteelRX Corporation Pvt Ltd
Stallion Systems Pvt Ltd
Sudhir Automotive Industries Pvt Ltd
Suhner India Pvt Ltd
Suraj Stainless Ltd
Surface Innovators Pvt Ltd
Tata Steel Ltd – FAMD
Tata Steel Ltd – Wire Divn.
Tayal Furniture
Trust Impex
Universal Engineers
VSL Alloys (India) Pvt Ltd
Velar Engineering Works
Venus Home Appliances (P) Ltd
Venus Wire Industries Ltd
Vishal Gas Services
Vishal Tubes & Pipes Pvt Ltd
Wire & Wire Products

ASSOCIATION MEMBERS

Indian Ferro Alloy Producers' Association
Institute for Steel Development & Growth
Metal Research Centre
Nickel Institute
Stainless Steel Rerollers Association

ERRATA

In the September-December 2005 issue, **M/s Vishal Gas Services** was incorrectly listed as *M/s Vishal Gas Agencies*. The inadvertent error is regretted.

DISCLAIMER

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