

STAINLESS INDIA

A QUARTERLY NEWSLETTER PUBLISHED BY



INDIAN STAINLESS STEEL DEVELOPMENT ASSOCIATION, NEW DELHI

VOL. 8 NO. 3

FEBRUARY 2003

International Conference in Mumbai – A Grand Success



above: Mr Braja Kishore Tripathy, Hon'ble Minister of State for Steel (Independent Charge), Ministry of Steel, Govt. of India was the Chief Guest.

left: At the inaugural session of the conference - (left to right) Mr Rajendra V Shah, Vice President, ISSDA; Mr Ratan Jindal, Vice Chairman & MD, Jindal Strips Ltd; Mr N C Mathur, President, ISSDA; Mr Ramesh R Gopal, Secretary, ISSDA.

ISSDA's second international conference "Stainless 2002 – Markets & Applications" organized on Dec. 6-7, 2002 at Mumbai was a grand success. Leading architects and senior railway engineers attended the sessions in addition to personnel from the stainless steel industry.

The conference was designed to benefit both the stainless steel industry personnel and the two specific end use sectors viz., the architecture, building & construction (ABC) and the automotive, railways & transportation (ART).

The conference was inaugurated by Mr B K Tripathy, Minister of State for Steel (Independent Charge), Govt. of India. In his inaugural address, Mr Tripathy said that the theme of the conference has been aptly chosen in the context of the current competitive global economy and that the proceedings would go a long way to make the Indian stainless steel industry more competitive in terms of quality and cost.

In his welcoming address, Mr N C Mathur, President, ISSDA,

compared the stainless steel industry of India and China, which together account for just 15% of world's usage. China is however rapidly progressing on the applications front with stainless steel finding its way in every walk of life – be it window frames, pipe / tube fittings, water distribution networks or architectural items.

Delivering the keynote address, Mr Markus A Moll, Steel & Metals Market Research GmbH, Austria said that by the year 2010, the world stainless steel figure would be about 30 million tonnes, maintaining an average annual growth of 5%. He added that CR flat products and welded tubes, depended mostly on consumer durables whereas bars, HR plates, seamless tubes depend on the process industries. In America, the automobile industry is the biggest user sector whereas in Europe and Asia, the process industry and the construction sector dominate the market respectively.

Papers were also presented on the regional markets of Europe, South East Asia and North America. End-use presentations on the kitchen utensil market in India, railway coaches, bus body,

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Indian Stainless Steel Development Association

K - 36 (FF), Hauz Khas Enclave, New Delhi - 110 016.

Tel: 2686 5631, 2686 3389; Fax: +91 11 2686 3376 E-mail: nidissda@del3.vsnl.net.in Web: www.stainlessindia.org

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auto LPG cylinders, architectural usage and on specific applications like the Parliament Library project, railway platform roofs, usage in airports etc were also made in the conference.

The conference also had a separate session on EU trade protection where a presentation was made by M/s Hammond Suddards Edge, Belgium. This was followed by a discussion on export-related matters by a panel of eminent exporters

and experts.

A small exhibition was also organized concurrently where stainless steel products related to architectural and automotive sectors were displayed.

ISSDA expresses its sincere thanks to all the sponsors and the participants for the success of the conference.



Session 1 (Markets) -- left to right: Mr William J Molloy, Vice President, Nickel Development Institute (NiDI), United Kingdom representing Euro Inox, Belgium; Mr Ratan Jindal, Jindal Strips Ltd (Chairman of the session); Mr Markus A Moll, Managing Director, SMR GmbH, Austria; Mr Weerachai Iamjaroenchai, Manager, Thailand Stainless Steel Development Association, Bangkok.



Session 2 (ART) -- left to right: Mr Gerry Comarmond, Tech. Director, Noveau Technologies Pvt Ltd, Baroda; Mr R Sriraman, Chief Design Engineer, Integral Coach Factory, Chennai; Mr A K Rao, Chief Mechanical Engineer, Central Railway (Chairman of the session), Mumbai; Mr N C Mathur, Jindal Strips, (Co-chairman of the session); Dr Fausto Capelli, Managing Director, Centro Inox, Italy; Mr Surjit Madan, Associate, Parker & Associates, Inc., Canada.



Session 3 (Markets) -- left to right: Mr K D Chinivala, President, All India Stainless Steel Industries Association (AISSIA), Mumbai; Mr H J Bhatia, Vice President (Mktg.), Mukand Ltd (Chairman of the session), Mumbai; Mr Y P S Suri, Chief Operating Officer, SteelRX Corporation Pvt Ltd, Delhi.

contd. on page 3 >>



Session 4 (ABC) -- left to right: Mr William J Molloy, NiDI; Mr Hafeez Contractor, Architect (Chairman of the session), Mumbai; Mr Ramesh Dalal, Director, Dalal Mott McDonald (Co-chairman of the session), Mumbai; Mr Nalin Sharma, Executive Director (Arch.), Airports Authority of India, Delhi.



At the Session 5 (ABC) -- left to right: Mr M Ramadas, Chief (Mktg.), Salem Steel Plant-SAIL, Chennai; Mr R K Jha, Executive Director, Maharashtra State Road Development Corporation Ltd (Chairman of the session), Mumbai; Mr Narendra Patel, Consultant (Co-chairman of the session), Mumbai; Mr Ramesh R Gopal, NiDI & ISSDA.



Mr Jose Kurian, Chief Engineer, Delhi Tourism & Transportation Development Corporation, Delhi, who gave a presentation on the use of stainless steel for the Parliament Library building.



At the Panel Discussion on Export related matters -- left to right: Mr Markus A Moll, SMR GmbH; Mr Nitán Chatwal, Director, Viraj Alloys Ltd, Mumbai; Mr A M Kulkarni, General Manager (Mktg.), Mukand Ltd, Mumbai; Mr Jonathan Branton, Hammond Suddards Edge, Belgium; Mr J P Singh, Joint Secretary, Ministry of Steel and Development Commissioner for Iron & Steel (DCIS) (Chairman of the session), Delhi; Mr R K Goyal, Vice President, Jindal Strips Ltd, Delhi; Mr K D Chinivala, AISSIA; Dr A S Firoz, Chief Economist, Joint Plant Committee-Economic Research Unit, Delhi.

A Massive Signage in Stainless Steel at Hyderabad

A few people standing near the bottom of "I" (see arrow) gives an indication of the massive size of the signage.



"RAMOJI" – height of letters 30 feet (letter 'M' 40 feet); width 6 feet; depth 9 feet. "FILM CITY" – height of letters 13 feet; width 2 feet; depth 3 feet. Total tonnage of SS 304 (3 mm thick, No. 4 finish) 45 tonnes; covered area 20,000 square feet. Stainless steel fabrication by: Mr C C Sampath, SREEVATSA STAINLESS STEEL FABRICATORS (P) LTD, New No. 173-H Habibullah Road, T Nagar, Chennai - 600 017; Telefax: 044 - 2814 3552; E-mail: sreevatsai@hotmail.com

Stainless 2002 Conference

The proceedings of the Stainless 2002 Conference are available for sale at a price of Rs. 2,000/- (for Indian organisations) and at US\$100/- (for overseas organisations). Interested companies are requested to contact ISSDA.

Flap Brush saves entire work operations



With the right tool it is sometimes possible to save entire work operations, e.g., on fine grinding with BSK flap brush. It has 12 fitted fiber brushes and abrasive strips available in grits from 60 to 400. Both the abrasive strips and fiber brushes are exchangeable.

With this tool the abrasive characteristics of emery cloth and the surface-polishing function of fiber brushes are combined to suit a specific application. With this design the "smart guy" saves entire work operations and produces an excellent finish with a transition-free polish – even across arc welds. Chatter marks are prevented by the vibration-free interaction of the two abrasives.

Thanks to the low speed of 850-1000 rpm, the heat influx into the material is very low, thereby avoiding thermal-related material distortions. The flap brush can also be used together with grinding oil.

Information & photographs courtesy: SUHNER INDIA Pvt Ltd, Plot No. 235 U2, Bommasandra Industrial Area, Bommasandra, Bangalore - 562 158. Tel: 080 - 783 1108 Fax: 080 -783 1109 E-mail: blroffice@suhnerindia.com

AISSIA awards



At the 38th AGM of the All India Stainless Steel Industries Association (AISSIA) held in Mumbai on September 21, 2002, Mr Rawal Chand Chopra, CHOPRA GROUP OF INDUSTRIES, Jodhpur was awarded the honorary title of stainless steel “Udyog Ratna”, for rendering outstanding and meritorious services to the stainless steel industry and trade. Mr Chopra began rolling stainless steel sheets in 1982 and within a span of 20 years had increased the capacity to 36,000 MT. Presently, the Chopra Group of Industries is one of the biggest producer of stainless steel *patta*. Mr Chopra was the President of AISSIA during 1989-1991; he was also the President of the Rajasthan Stainless Steel Re-rollers' Association (RSSRA) in 1995-96.

At the award function, the Best Design Award was given to M/s Urvashi Industries for the Citrus Juicer and to M/s KUTz Industries for the Kitchen Tool. Mr V K Agarwal, Commissioner of Sales Tax, Govt. of Maharashtra was the Chief Guest during the function. The awards were given for the year 2001-02.



Citus Juicer: A unique feature of this stainless steel citrus juicer is that its top is 'one-piece', without any joint. The strainer is a part of this top piece. The top also has slots that holds the bottom bowl together while squeezing. The grooves are ideally matched from bottom to the top for optimum squeezing.

The dual spout for the bottom bowl facilitates easy pouring from both sides.

Quality, strength, safety and durability were the major concerns in developing this product.

Photograph and information courtesy: Mr Jayesh P Dedhia, URVASHI INDUSTRIES, 3 Nityanand Coop. Society, Nityanand Nagar-4, Nityanand Road, Andheri (E), Mumbai – 400 069; Tel: 022 – 2820 1063 / 1061; Fax: 022 – 2824 1993; E-mail: urvashi@bom3.vsnl.net.in



Kitchen Tool: The three major concerns in designing this tool were strength, durability and its ability to grasp food items. Thus a serrated edge was introduced to the tool. A straight knife like edge has also been added to assist chefs and cooks to cut buckling steaks, joined sausages etc. on grilling plate surfaces. The other side of the edge features a scraper and bottle opener as well.

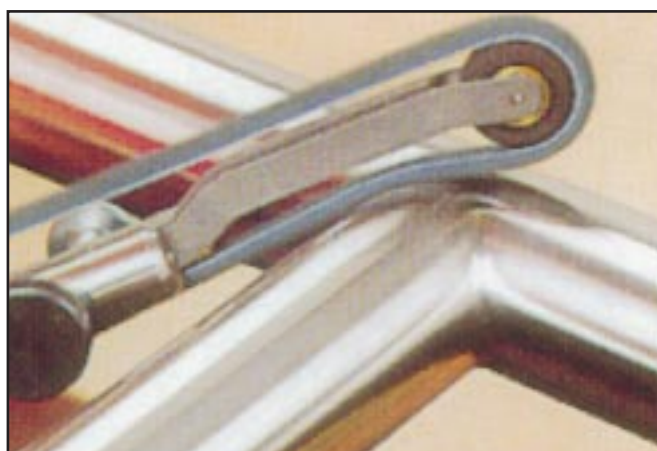
Another feature is the spoon on side and the draining spoon on the other. This enables you to easily administer sauces and drain some food items; the draining slit also doubles a peeler. Having to replace a lost or stolen channeler or zester has also been a common problem. This tool incorporates both into its design. The neck of the tool also features a jagged edge. This is perfectly utilized as a fish scaler.

A removable spring and hinge pin has been incorporated for cleaning purposes. The hinge also features a additional selection hole so that one can customize the width of the tool opening.

The flat edge at the front tip of the unit doubles up like a screw driver; this also aids in quick food retrieval. A ruler feature has also been added. Spacing dots on the front straight edge every half centimetre aids in measuring the quantity of water when cooking rice.

Photograph & information courtesy:
Mr Vinit Shah, KUTz INDUSTRIES,
111 – C, Govt. Industrial Estate, Charkop,
Kandivali (W), Mumbai – 400 067;
Tel: 022 - 2868 4560 / 4164; Fax: 022 - 2867 4945;
E-mail: kutz@vsnl.com
Website: www.kutzindustries.com

Surface Finishing - annoyance or indispensable ?



Semi-finished stainless steel products normally have a high-grade finish. In the finishing process, this surface is clearly subjected to a lot of wear and tear by sawing or welding. Hence subsequent machining is required to give the product the desired finish. And by the time the parts are given their final finish, they have already incurred high costs. It therefore makes a difference whether the finish is perfect or not, and whether time is saved by following the correct procedure.

For example, in railing and banister manufacturing - how does one get into extremely small angles with very small radii ? Belt grinders and belt grinder attachments are specially designed for this purpose, making it possible to reach into the tightest corners, even those into those with very small radii.

Information & photographs courtesy: Mr Srinivasan Suresh, National Sales Manager, APT Division, SUHNER INDIA PVT LTD, Plot No. 235 U2, Bommasandra Industrial Area, Bommasandra, Bangalore - 562 158; Tel: 080 - 783 1108; Fax: 080 - 783 1109; Email: blroffice@suhnerindia.com

China conference

The China Iron and Steel Association (CISA), the Metallurgical Council of the China council for the Promotion of International Trade (MC-CCPIT) and the Stainless Steel Council of the China Special Steel Enterprises Association (SSC-CSSEA) are jointly sponsoring the 3rd Shanghai International Stainless Steel Expo (STEXPO) and Conference in Shanghai from **May 14-16, 2003**. The conference and the exhibition will be held at the Shanghai

International Exhibition Center, 88 Loushanguan Road, Shanghai.

For details, please contact: Ms Ruby Ma, Programme Coordinator, METALLURGICAL COUNCIL OF CCPIT, No. 46 Dongsixidajie, Beijing 100711, P.R.China; Tel: (8610) 65220752, 85111723; Fax: (8610) 65233861; E-mail: majing@stexpo.com.cn Web: www.stexpo.com.cn



Sandvik Steel's Instrumentation Tubing

Sandvik Steel has extended its range with the addition of seamless stainless steel tubes for the hydraulic and instrumentation industries, with over 100 tube sizes and eight different grades now available.

Special attention to chemistry in the Sandvik 3R60 (Mo 2.6%) enables the instrumentation tubes to display improved corrosion resistance to certain types of corrosion, particularly pitting and crevice corrosion.

For the chemical and petrochemical process industries, Sandvik has added Sanicro 28 (UNS N08028) to its instrumentation tube stock range.

Photograph and information courtesy: SANDVIK ASIA LTD, Mumbai Pune Road, Pune - 411 012; Tel: 020 - 714 6491; Fax: 020 - 714 5022; E-mail: steel.india@vsnl.com Web: www.steel.sandvik.com

Stainless Steel for the Embassy Icon, Bangalore



About 700 metres of stainless steel pipes and 4,200 metres of stainless steel cables have been used in the balconies for the Embassy Icon, Bangalore's new software park. Also curvature railings running for nearly 220 metres compliment the glass paneled roof; glass panels are fixed to the vertical supports by using designer-stainless steel fixtures. The entrance of the building also sports two stainless steel water spouts, using 3 mm thick stainless steel sheets. About 6.5 tonnes of stainless steel AISI 304 has been used for this project. Architects: M/s RSP Architects & Engineers, Bangalore. Stainless steel fabrication by: STALLION SYSTEMS PVT LTD, # 15 Shantappa Lane, S J P Road Cross, Bangalore – 560 002; Tel: 080 – 860 4191; E-mail: stallion@bgl.vsnl.net.in Web: www.stallionstainless.com



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Thickness : 0.1mm – 1.0mm Width: 500mm

Slitting Capacity : Min. 4mm



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New application of long products -- Stainless Steel Ball Bearings

In recent years, there has been a rapid increase in the use of stainless steel balls. Many new applications of different grades and sizes of stainless steel balls have been developed and are being increasingly used by the industry. Stainless steel balls play a very important and vital role in many applications that range from writing instruments to aerospace industry, from mouth spray for asthma patients to ladies' nail polish.

Martensitic grades like AISI 420 and 440 are used where high hardness and dimensional stability is required with moderate corrosion resistance, such as writing instruments, aerospace and high precision miniature bearings in instrumentation. They are used in process industry for bearings in underwater conveyor belts, bottling machines, pickling plants and in chemical and medical equipment.

Ferritic grade AISI 430L is a general purpose non-hardenable steel with moderate corrosion resistance. Used for cosmetic, petroleum and chemical industry applications where high hardness is not required.

Austenitic grades work-harden in the course of processing of the balls and also retain excellent toughness. Balls of austenitic grades like AISI 302 and 304 are used where better corrosion resistance is required. They are used extensively in food processing machinery, dairy equipment, oxidizing solutions, organic chemicals, sterilizing solutions, aerosol and finger pumps, agriculture, gardening and home spray pumps, micro pumps for perfume spray, valves for medical equipment etc. AISI 316 grade balls are specified for much higher corrosion resistance is required. These are extensively used in printing equipment and inks, photographic chemicals, dyes and bleaches, textile finishing equipment, paper industry and chemical industries.

The manufacture of a stainless steel ball is a highly sophisticated process and as many as fourteen different operations are involved in making precision SS balls.

Stainless steel balls are made with wire as the starting stock. Heading is the basic step, which transforms a wire into balls. The heading machine cuts the slug from the end of the wire, coils and forms them between two concave dies to create a rough ball. Each headed ball has specific characteristics, including polar caps and a protruding ridge around its equator.

Flashing removes this excess material and further refines the headed balls by rolling them between metal plates, grinding or filling them to essentially spherical shape (balls in this phase are screened for imperfections). Before the steel balls are ground to precision size and tolerance, the balls must have accurate and uniform hardness.

Martensitic stainless steel grade balls which can be heat treated to obtain optimum hardness enter the hardening furnace in batches, to make sure every ball in each batch receives the same heat treatment. The balls are quenched in special oil, chemicals and dried before they go for tempering or stress relieving.

Ground balls are now ready for final lapping operations. Again balls are rolled between parallel plates covered with various special lapping compounds. This operation is maintained for many hours to ensure the balls are of correct size, roundness and surface finish. Later, they are sent for testing and shipment.

Photograph and information courtesy: Mr H M Mehta, Chairman, NHB BEARINGS LTD, 103 Crystal Tower, 75 Gundivali Gaothan Road No. 3, Andheri (E), Mumbai – 400 069; Tel: 022 – 2683 6783 / 6784; Fax: 022 – 2683 1765; E-mail: nhb@vsnl.com Web: www.nhbball.com



heading



lapping

stainlessindia.org wins IISI competition

Within a year of the launch of our website we have earned a feather in our cap. Our website, www.stainlessindia.org has been ranked as one of the best sites in the world by the IISI; it has been placed at eighth in the portal category competition for the year 2002. In fact, within the stainless steel industry, our website automatically emerges as one of the best in the world. Our sincere thanks to SteelRX Corporation Pvt Ltd which has hosted and designed our website as well managing it. We also congratulate them for their site, www.steelrx.com which emerged second in the same competition.

New Members

ISSDA extends a warm welcome to the following member companies: M/s British Super Alloys, Mumbai (powder metallurgical products); M/s Kaushal Engineers, New Delhi (fabricator); M/s New Era Industries, New Delhi (wire nets and special sheets); M/s Ornamental Stainless Steel Pvt Ltd, Mumbai (designer items); M/s Shah Metal Industries, Mumbai (trader of mill products); M/s Sharp Engineers, Pune (fabricator); M/s Vishal Tubes & Pipes Pvt Ltd, Mumbai (welded and seamless tubes & pipes).

In the September 2002 issue of STAINLESS INDIA (under Welcoming New Members page 8), the company name of M/s Suhner India Pvt Ltd, was inadvertently printed as M/s Sunher India Pvt Ltd; the error is regretted. - Editor.

Starting from February 2003, STAINLESS INDIA will be published three times a year (instead of four), during February, June and October. However we have increased the number of pages from 8 to 12. By this, we hope to widen our coverage of stainless steel applications in India. -- Editor

Stainless Steel Canopy Supports



At the ARIHANT NITCO PARK in Mylapore, Chennai, stainless steel canopy beams has been used to support the toughened glass canopy; the building also features stainless steel staircase handrails upto nine floors and also stainless steel rings for stone pillars at the entrance. Stainless steel fabrication by: Mr A C Vadhivelu, VELAR ENGINEERING WORKS, #435 Middle School Road, V V Puram, Bangalore - 560 004; Tel: 080 - 662 1406, 661 3979; Fax: 080 - 662 1406; E-mail: velar@satyam.net.in

Welcoming New Members

Vishal Tubes & Pipes Ltd.

M/s Vishal Tubes & Pipes Ltd (Vishal Tubes) was established in 1998, as a producer of stainless steel tubes & pipes – welded and seamless; the 1800 square metre area plant is located at Tarapur, Maharashtra. The company's production is 2000 MT per annum.

Vishal Tubes produces pipes according to ASTM A213, 249, 269, 312 in the grades of 304, 304L, 316, 316L, 310, 321 in the range of 1/4" to 24"; and in the tubes 1/4" to 6" OD. On special requirement, any sizes can be manufactured.

The company is equipped with plant and machinery like automatic tube mills, furnaces for annealing, straightening machine, hydro testing bench, roller & draw bench, bid remover, pickling tank, automatic TIG welding machine, inside & outside grinding facilities.

The finished products undergo elongation test, flattening test, hydrostatic pressure test, reverse bend test. The company can offer Third Party inspection too from Lloyds, DNV, Dalal, EIL etc.

Some of the major customers of the company's products are: Walchandnagar Industries Ltd, National Heavy Engineering Coop. Ltd, Krupp Industries India Ltd, Karmaveer Kakasaheb Wagh Sakhar Karkhana, BSES Ltd, Tamil Nadu Newsprint & paper Ltd, Grasim Industries Ltd, H & R Johnson (I) Ltd, Blue Star Ltd, Mangalore Refineries Ltd, Gujarat Electricity Board, Bongaigaon Refinery & Petrochemicals Ltd, Hindustan Zinc Ltd, Instrumentation Ltd, Bhilai Engineering Corporation Ltd, Praj Industries Ltd, Ispat Industries Ltd, Maihar Cement, Tata Hydro Electricals Ltd, Siemens Ltd, Sudarshan Chemical Industries Ltd, Shree Cement Ltd, Ellora Paper Mills Ltd, Century Chemicals, BARC Nuclear Power Project – Tarapur, West Coast Paper Mills Ltd, Mitsu Industries Ltd, Sangamner Bhag SSK Ltd, KCP Sugar Industries Ltd.

VISHAL TUBES & PIPES PVT LTD, 60 C P Tank Road, Mumbai – 400 004; Tel: 022 – 2386 2124, 2381 7080, 5636 2323; Fax: 022 – 2387 9241; E-mail: meenametal@vsnl.com

Works: Plot No. F-1 / 8, MIDC, Tarapur, Boisar (W) – 401 506, Distt Thane, Maharashtra; Tel: 02525 – 273 289; Fax: 02525 – 279 063

Kaushal Engineers



Fascia at the Purse Palace at Chandigarh executed by M/s Kaushal Engineers, Delhi .

M/s Kaushal Engineers began its operations in 1990 at Delhi and has been doing stainless steel fabrication since then. Later a branch unit was started at Alwar (160 km from Delhi) in Rajasthan. The Alwar unit is spread over 2,700 square metres of land with the workshop area covering 5,000 square feet.

The company is equipped with the necessary machinery and equipment like CNC press brake, hydraulic shearing machine, tube bending machine, spot welding machine, MIG and TIG welding machine, buffing / polishing machine etc.

The company can undertake stainless steel pillar cladding, furniture, handrails, signage, canopy, display items for exhibition etc.

Some of the major clients for whom M/s Kaushal Engineers have done jobs are: Defence Research Development Organisation, Greater Noida Development Authority, Indian Institute of Technology, Le-Meridian Hotel Pvt Ltd, Oil & natural Gas Corporation Ltd, National Institute of Fashion Technology, National Institute of Design, Pepsi Foods Pvt Ltd etc.



Furniture at the Cyber Space Cafe, Chandigarh, executed by M/s Kaushal Engineers.

KAUSHAL ENGINEERS, Flat No. 432, 5th floor, Tower - 2, Mount Kailash, New Delhi - 110 065; Tel: 011 - 2621 2339; Mobile: 0-98100 21405 (Mr G S Rathore); E-mail: kaushalengrs@indiatimes.com

Works: F - 89, M I A, Alwar, Rajasthan; Tel: 0144 - 288 1989.

New Era Industries

M/s New Era Industries is one of the leading interior contracting companies in India, specializing in interior and furniture contracting for luxury hotels and large multinational companies since 1996. The company introduced high quality imported floating floors using tongue-n-groove installation techniques in the Indian market.

Today, the company as New Era LivingDeco, offers many reputable international brands such as HARO, Gerflor, Rimex, GKD, Carl Stahl. These products bring the cutting-edge architectural concepts within the reach of Indian consumer;

products that make strong, compelling visual statements in stainless steel.

The company markets these products through a national network of experienced distributors, spanning all major cities in India.

NEW ERA INDUSTRIES, 51 Adhchini, Sri Aurobindo Marg, New Delhi - 110 017; Tel: 011 - 2685 4673, 2696 9410 / 9411; Fax: 011 - 2686 3573; E-mail: sales@neweralivingdeco.com

Branch office: PCS, 202 / 213 Churchgate Chambers, 5 New Marine Lines, Mumbai - 400 020; Tel: 022 - 2262 4560; Fax: 022 - 2287 1166; E-mail: mumsales@neweralivingdeco.com

Sharp Engineers



Photograph courtesy : Architect Hafeez Contractor
Reprinted from A+D, issue dated Jan.-Feb. 2003

Staircase and handrails at M/s Procter & Gamble, Mumbai, executed by M/s Sharp Engineers, Pune.

M/s Sharp Engineers is a private limited company, engaged in stainless steel fabrication, and is located at Chakan which 20 km from Pune and 150 km from Mumbai. The 15-year old company has a competence of stainless steel fabrication work and designing of railings, canopies, skylights, spiral staircase, bridges, ramps, cladding etc.

Sharp Engineers has about 40,000 square feet of built-up area and is equipped with modern machinery like CNC press brake, argon welding machines etc. Some of the prestigious work done by the company in Mumbai are at M/s Procter & Gamble, Bank of India, National Stock Exchange, Hyatt Regency.

The company's contacts include M/s Shapoorji Pallonji, Mumbai and M/s Ahluwalia Construction & Co, Delhi.

SHARP ENGINEERS, Post Box No. 1149, Plot A 77, H Block MIDC, Pimpri, Pune – 411 018, Maharashtra; Tel: 020 – 411 2023 / 2024; Fax: 020 – 411 2026;
Email: sharpeng@vsnl.com Web: www.sharpeng.com

Works: Gate No. 301 / 1, Nanekarwadi, Chakan, Tal. Khed, Distt Pune – 410 501; Tel: 020 – 410 2426, 02135 – 52 717; Fax: 02135 – 52 727

British Super Alloys Ltd

M/s British Super Alloys Ltd (BSAL) is a part of Kanoi Group which has 30 years experience in handling stainless steel products and having an all-India network.

According to the company, it is the only plant in production in the country which has powder metallurgical process for making HSS tool performs and other shapes. The plant is located at Mehsana, Gujarat.

BSAL has kept itself abreast with the latest technology and is equipped itself with most modern equipment imported from leading manufacturers in the USA, UK, Germany and Belgium; the Sophisticated Cold Isostatic Press, Degussa Vacuum Furnace, LTM Annealing Furnace, carbon, sulphur oxygen analyzer of LECO make, Spectrometer of Jarell etc.

The BSAL shapes for HSS / Tool Steel / Alloy Steel are: rolled rounds, forged bars & flats, tool performs shape nearest to the finished product, ISO performs consolidated in flexible moulds to produce complex shapes. BSAL believes in continuous improvement in quality as well as manufacturing methods with extra attention to consistency in quality through research & development.

BRITISH SUPER ALLOYS LTD, 11 Harihar Niwas, Khetwadi 3rd Lane, Mumbai – 400 024; Tel: 022 – 2385 3270, 2387 1155, 2382 0249; Fax: 022 – 2387 1165;
E-mail: mumbai@kanoigroup.com

Works: Village Indrad, Tehsil Kadi, District Mehsana 382 821 Gujarat; Tel: 02764 – 77530 / 531 / 448; Fax: 02764 – 77427;
E-mail: bsal@kanoigroup.com

The company has offices in Ahmedabad and Kolkata also.

Stainless Steel on the Catwalk



Source : Indian Images



Stainless steel has been used for designer garments by the National Institute of Fashion Technology (NIFT), Delhi. The NIFT students (Gaurav and Abhijit from the final year and Neel, Amrita and Kunal from the second year) were asked by the Tata Iron & Steel Co Ltd (TISCO) to design clothes using stainless steel. These were displayed by models at the TISCO stall during the recently - held International Engineering & Technology Fair (IETF) in Delhi. This is the first instance of Indian fashion designers using stainless steel for garments. According to NIFT sources, stainless steel has been used for garments by designers like Paco Rabanne of Italy in 1960 and by Thierry Mugler of the UK.

Seminar on Ferro Alloys

March 21, 2003 The Oberoi Grand, Kolkata

The Indian Ferro Alloy Producers' Association (IFAPA) is organizing a one-day conference viz., National Seminar on Ferro Alloys, on March 21, 2003 at The Oberoi Grand, Kolkata. The conference is expected to discuss the problems and prospects of the ferro alloy industry in India. It will also discuss the international market on ferro alloys, the future trends in export and import in the context of WTO norms, quantitative restrictions etc. The event will bring together ferro alloy producers, consumers of ferro alloys and others.

Details on registration can be had from: Mr J K Chatterjee, Convenor, Tata Centre (GF), Tata Ryerson Office, 43 Chowringhee Road, Kolkata – 700 071; Tel: 033 – 2288 2603; Fax: 033 – 2288 2713 / 1247; E-mail: jayanta.chatterjee@metaljunction.com

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continued ∇

Tata Iron & Steel Co Ltd - FAMD
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Usinor Ugine India
VSL Alloys (I) Pvt Ltd
Velar Engineering Works
Venus Wire Industries Ltd
Vishal Tubes & Pipes Pvt Ltd

Association Members

Institute for Steel Development & Growth
Metal Research Centre
Nickel Development Institute
Stainless Steel Rerollers Association

ISSDA MEMBERS

Primary Members

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Ferro Alloys Corporation Ltd
Haryana Steel & Alloys Ltd
Isibars Ltd
Ispat Industries Ltd
Jindal Strips Ltd
Mukand Ltd
Panchmahal Steel Ltd
Shah Alloys Ltd
Stainless India Ltd
Steel Authority of India Ltd
(Alloy Steels Plant + Salem Steel Plant)
Viraj Alloys Ltd

Associate Members

Advani Oerlikon Ltd
Ampi Agencies Pvt Ltd
Apex Tubes Ltd
Bhandari Foils Pvt Ltd
Bhansali Bright Bars Pvt Ltd
Bhiwadi Metal Rollwell Pvt Ltd
Bizcon Business Consultants (I)
British Super Alloys
Cavalier, The
Choksi Tube Co Ltd
Decora Tubes Ltd
Doshi Tubes Pvt Ltd
Eagle Flask Industries Ltd
Flow Link Systems Pvt Ltd
Glencore India Pvt Ltd
Heavy Metals & Tubes Ltd
Hisar Metal Industries Ltd
Inco Europe Ltd
Indore Wire Co Ltd
KEI Industries Ltd
Kamdhenu Ispat Ltd
Kaushal Engineers
Kirtanal & Sons
Krishna Industries
Kundan Industries Ltd
M N Dastur & Co Ltd
Macro Bars & Wires (I) Pvt Ltd
Metallic Bellows (I) Pvt Ltd
Metco Marketing (I) Pvt Ltd
Minex Metallurgical Co Ltd
Modi Arc Electrodes Co
Nevatia Steel & Alloys Pvt Ltd
New Era Industries
Nuclear Fuel Complex
Ornamental Stainless Steel Pvt Ltd
Prakash Steelage Ltd
Quality Foils Ltd
Rajaratna Metal Industries Ltd
Rahul Industries
Rajendra Mechanical Industries Ltd
Ratnamani Metals & Tubes Ltd
Rayalaseema Technologies Ltd
Real Strips Ltd
Sahu Refrigeration Industries Ltd
Sandvik Asia Ltd
Sandvik Steel Asia Pvt Ltd
Shah Metal Industries
Sharp Engineers
Sreevatsa Stainless Steel Fabricators (P) Ltd
Stallion Systems Pvt Ltd
Steel RX Corporation Pvt Ltd
Suhner India Pvt Ltd

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