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STEEL & META

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Tube India

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10th All Indian Exhibition & Conference for the Tube and Pipe Industries

Why India

• The Indian steel pipe industry is a significant part of the Indian steel sector, contributing about 8% of India's steel consumption.

• The Indian government has invested INR 10 lakh crores in the Indian Steel Pipe Sector Under the Union Budget 2023-24, the government allocated INR 70.15 crore (US\$ 8.6 million) to the Ministry of Steel.

• Indian Oil and Gas industry is the world's 3rd largest energy market and 4th largest LNG importer.

• The Indian plastic pipe market is anticipated to grow at a CAGR of 10.3% from 2022 to 2027, reaching an estimated \$10.9 billion.

• Government Initiative - The Indian government formulated the National Steel Policy to promote the growth of the steel industry, of which the tube industry is a significant part.



*incl. wire India, Tube India, METEC India and INDIA ESSEN WELDING & CUTTING 2024

Exhibitor's Testimonials of 2022

The footfall during Tube India 2022 was very good and we have got relevant queries related to our product and services during all three days. This edition of Tube India like always has been great for us.

> Mr. Chirag Sitwala, Executive Director Inductotherm (India) Pvt. Ltd.

Tube India is a global platform to find visitors from all over the world.Our participation at Tube India was very fruitful and it is a very good platform to be a part of.

> Mr. Somdeep Chakraborty, GM – Marketing, Lalbaba Seamless



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We see participation from various organizations from India and across the world. We got overwhelming responses as many industry professionals and key stakeholders visited and interacted through this platform. In this expo, we showcased all our product offerings and application areas, our subject matter experts from all the areas were available at the stall to interact with our esteemed stakeholders" expressed.

> Sanjay S Sahni, Executive-in-Charge Tubes Division - Tata Steel

and many more

FIBRE OPTIC CABLES SATISFY THE "BANDWIDTH HUNGER"

Streaming, e-commerce, communication, gaming, media libraries and television – ever-increasing, higher volumes of data must reach the recipient quicker nowadays. In addition to the demands from the end-consumer, the requirements of the industry are also rising due to the increasing number of machine parameters and

production parameters and due to real-time transmission in factory plants. Challenges which fibre optic cables can overcome. And thereby a mission for manufacturers of cables and cable-making machinery or equipment.

INVESTMENTS IN NEW CABLE NETWORKS

The worldwide fibre-optic expansion is in full swing - because the "bandwidth hunger" is continuously growing. Therefore, continuous

investment is being implemented in the expansion and modernisation of cable networks. Cable manufacturers with suitable plants and systems for glass fibre production: For this purpose, in addition to the machinery needed for the pure production process in the drawing tower, primarily extruders, unwinders, winders, storage, extractors and cooling channels are required. Various measuring systems determine the diameter, the smallest-possible wall thickness, minimum wall thickness, eccentricity and quality of the cables during production. Software applications also play a decisive role in production.

SOLUTIONS FOR CABLES AND CABLE MACHINERY

But the demands on the fibre optic cable, which utilises light signals in order to achieve faster transmission speeds than copper cables, are high. In order to ensure the correct quality of the cable, bundle conductors must be sheathed with a tube as a protective sheath in order to withstand moisture and tensile force in the long term. In addition, the cables must also become even thinner at high information density, as the space available in overhead catenary cables, cable ducts and optoelectronic assemblies is limited.

In a digital world, fibre optic cables are undoubtedly the method for the future. So there is still a great deal to be done in the cable industry – and with its solutions, it is now facing up to the high challenges. To ensure that the transformation succeeds quickly and always ensure high quality!

WORLD'S LARGEST CONTINUOUS ERW TUBE WELDING MACHINE

the US.

RELIABLE CROSS WELDING UP TO 25.4-MILLIMETER WALL THICKNESS

This 28-inch ERW tube welding line uses PERFECT arc^{*} welding technology for the cross joining of strip up to 25.4 mm thick. The PERFECT arc^{*} welding system, which was developed and patented by SMS group, is a GMA (gas metal arc) tandem welding process, i.e. a set of tandem torches apply single-wire gas metal arc welds. Thanks to its ability to cross-weld the 25.4 mm thick coil ends in only one welding pass with reliable fusion results, it significantly reduces cycle times in the cross welding station and so increases the productivity of the entire plant. Welding is performed at up to 800 amps per wire.

The PERFECT arc^{*} inverter welding power sources feature digital technology, which can deliver efficiency levels over 90%. Depending on the operating point, energy savings of up to 30% can be achieved compared to welding power sources that still use conventional thyristor technoloy.

X-PACT® QUICKSETTING FOR AUTOMATIC ROLL ADJUSTMENT MEANS FLEXIBILITY DURING PRODUCTION

The design and configuration of the new welding line meet the strictest requirements regarding product quality and throughput. The X-Pact[®] Quicksetting system enables short changeover times for ERW welded tube plants. The smart X-Pact[®] Quicksetting system provides for an automatic adjustment of the rolls to their new working position after a size change. Thanks to a data-based approach for system adjustments, changeover



ekelman Industries and SMS group write history with the world's largest continuous 28-inch ERW tube welding line with wall thicknesses of up to 25.4 millimeters.

The highly automated ERW (electric resistance welding) tube welding line in Blytheville (Arkansas), USA started operation in mid-2021. With a capacity of more than 400,000 tons per year, the new 28-inch plant complements the Atlas Tube division of Zekelman Industries. and setting times in the line are minimized, productivity is increased, and continuous improvements in product quality is guaranteed. The system fulfills the current requirements for high flexibility in production with ever-smaller batch sizes and wider production mixes. With the X-Pact[®] Quicksetting roll management module, the ideal configuration and the required rolls for the subsequent tube format can be planned while production is underway.

GREATER PRODUCT DIVERSITY FOR THE NORTH AMERICAN MARKET

Zekelman uses the new 28-inch ERW tube welding line to manufacture structural and piling tubes with diameters ranging from 10 3/4 to 28 inches (273 to 710 mm) and wall thicknesses of up to 1 inch (25.4 mm). In addition, it is possible to produce square and rectangular hollow sections with dimensions of 8 x 8 inches (203.2 x 203.2 mm) up to 22 x 22 inches (558.2 x 558.2mm) or 34 x 10 inches (863.6 x 254 mm).

For the North American market, this means a more diverse product range for HSS products (hollow structural sections) that find various end uses in infrastructure and building construction. Moreover, with this line, Zekelman Industries is also able to manufacture products larger than 20 inches on an ERW tube welding line for the first time in

TATA STEEL INAUGURATES 66 KTPA CAPACITY LARGE DIAMETER PIPE MILL IN DHANBAD

The LDP mill with slitting line facility has effectively increased the annual capacity of Tata Steel's Tubes Division by approximately 172,000 TPA for FY2024, augmenting the company's plans to increase its manufacturing output from the existing 1.2 million MTPA to 2 million MTPA in the next two years.

The Strategic Business Unit (SBU) of Tata Steel's Tubes Division has inaugurated a large diameter pipe (LDP) mill in Dhanbad, in line with

TATA STEEL #WeAlsoMakeTomorrow

the company's rapid growth plans and aggressive strategy to scale up its manufacturing output from the existing 1.2 million MTPA to 2 million MTPA in the next two years.

Developed in collaboration with Shiv Shambhu Commercial Private Limited, the LDP with slitting line facility, having 66 KTPA capacity, has effectively increased the annual capacity of Tata Steel's Tubes Division by approximately 172,000 TPA for the fiscal year 2024.

The mill's product range, with the SKU mix ranging from 20X20 to 220X220 mm, is expected to cater to a broad spectrum of construction and infrastructure projects.

This initiative not only marks a milestone for Tata Steel, but also strengthens its partnership with the existing Tube Manufacturing Partners (TMPs) across the country, said Mr. Sanjay S Sahni, Executive-In-Charge of the Tubes division, while inaugurating the facility.

The unit showcased Tata Steel's commitment to innovation and growth in the steel manufacturing industry, he added.

This is the third-of-its-kind facility in the eastern region and one of the 11 large dia TMP units across India, indicating Tata Steel's commitment to addressing the growing demands in the construction and infrastructure sectors.

WELSPUN CORP BAGS LINE PIPE ORDERS WORTH INR 2,039 CRORE IN INDIA AND THE US

The orders, which are likely to be executed in the financial year 2025, will reaffirm the dominant position of Welspun Corp in the US onshore gas transmission sector.

Leading one-stop service provider for end-to-end pipe solutions, Welspun Corp, has bagged line pipe orders in India and the US, cumulatively valued at INR 2,039 crore, since its last disclosure on February 6, 2024.

In a stock exchange filing, the company recently said that the new orders in the US not only ascertained its business continuity till the second quarter of financial year 2025, but also reaffirmed its dominant position in the US onshore gas transmission sector.

It further said that the orders in India included one being for suppliers to the USA offshore, which reaffirmed the technical excellence of Welspun Corp and the customers' trust on the company for executing critical projects, especially in the very challenging and demanding Gulf of Mexico.

The orders were most likely to be executed in the financial year 2025. The financial impact of this contract would be reflected from the first quarter of the financial year 2025 to the second quarter of the financial year 2027, added the company.

As per the company's Chief Financial Officer Percy Birdy, Welspun was well on track to even exceed its financial year 2024 guidance of around

inclusive value of added tax. The order for double jointing and coating of steel pipes to Aramco has a value exceeding INR 377 crore inclusive of value added tax, it added.

Welspun[®]corp

VENUS PIPES & TUBES: ON THE WAY TO CATERING DEMANDING & CHALLENGING APPLICATIONS OF STAINLESS STEEL PIPES AND TUBES



ince its establishment in 2015, Venus Pipes & Tubes Limited, a leading producer of seamless and welded stainless steel pipes, has experienced rapid growth, attaining a substantial presence in the market. In the following interview with Tube & Pipe India magazine, Mr. Arun Kothari, Director, Venus Pipes & Tubes Limited delves into the evolution of Venus Pipes & Tubes, tracing its journey from inception to its current standing, their participation in the Tube Dusseldorf 2024, their recent developments, and future plans.

Mr. Arun Kothari, Director Venus Pipes & Tubes Limited

THEME OF PARTICIPATION

Venus Pipes & Tubes, established in December 2015 by Mr. Arun Kothari, Mr. Mahesh Chaudhary, Mr. Jitendra Chaudhary, and Mr. Dhruv Patel, has been dedicated to the manufacturing of a diverse range of seamless and welded stainless steel pipes. We offer welded pipes with an extensive outer diameter range of 9 mm to 1,460 mm, while seamless pipes are provided with outer diameters ranging from 6 mm to 219 mm. We are all set to be part of Tube Dusseldorf 2024. We are looking forward to making lasting bonds with suppliers and other manufacturers, while also mingling with the best of minds in the industry.

RECENT DEVELOPMENTS

A major expansion was completed in 2023 reaching an annual capacity of 36,000 tons per annum with the backward integrated seamless plant. The planned expansion for the new backward integration and product portfolio enhancement was completed within a record time of 18 months in autumn 2023.

We raised the funds for the huge expansion by the IPO in Summer 2022. In addition to the four founders, the shareholders of Venus Pipes & Tubes today include well-known financial institutions from India and worldwide. Venus has invested in the technology and equipment to expand both seamless and welded pipe capacities simultaneously.

Investments are being made not only in increasing capacity, but also in quality. In addition to a very sophisticated ultrasonic testing setup, a fully auto German-made RTR (Digital Radiography) system was purchased for the testing welding quality of LSAW pipes. A new central lab is set up for centralizing all testing. "Venus is relying more and more on European quality and know-how for the production of state-of-theart products of the highest quality," says Stefan Müller-Bernhardt.

INR 15,000 crore in revenue and EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortisation) of INR 1,500 crore.

Earlier in January, East Pipes Integrated Company for Industry (EPIC), an associate company of Welspun Corp, had received orders worth around INR 3,000 crore in Saudi Arabia.

As per a company statement, East Pipes Integrated Company for Industry in the Kingdom of Saudi Arabia (KSA) received cumulative orders exceeding (Saudi Riyal) SAR 1.32 billion.

The orders included supply of steel pipes to Saline Water Conversion Corporation (SWCC) with value exceeding INR 2,200 crore inclusive of value added tax for manufacturing and supply of steel pipes. The order will be completed in 39 months, Welspun Corp said in a stock exchange filing. Another order for manufacturing and supply of steel pipes to Saudi Arabian Oil Co (Aramco) was worth over INR 339 crore

"WE ARE THE MOST EUROPEAN FACTORY IN INDIA."

FUTURE PLANS

After the comprehensive expansion and further development of the company location and reaching significant capacity utilization, further investments are planned in the near future.

Capacity for expansion is secured, among other things, through the

acquisition of a 30,000 m² more land area just adjoining the existing factory. We aspire to make ourselves the first reference and preference in stainless steel pipes and tubes manufacturers. We are on our way to becoming a leading manufacturer and provider of demanding and challenging applications for stainless steel pipes and tubes. Our objective is to provide quality and flawless service for dealing with customers/ suppliers and distributors.



VENUS PIPES

Furthermore, we are now foraying into the fitting solutions as well. Building on our reputation and execution track record, we are diversifying our product portfolio to encompass a wide selection of fittings, leveraging our expertise to provide complete PFF (piping, fittings & flanges) solutions to our customers across industries. Fitting companies play a vital role in facilitating the efficient operation of industrial processes by providing high-quality fittings that enable the seamless flow and control of fluids and gases within complex piping systems.

Additionally, we have announced a capacity expansion by introducing a specialized product line of stainless and titanium welded tubes. These specialized tubes represent critical innovation in an industry where such products are manufactured by only a select few players. High-precision engineering makes it difficult for other players to enter the market. The planned capacity expansion will happen in two phases.

Phase 1 includes capacity expansion for setting up of value-added fittings & welded tubes; to be completed by March 2025.

Phase 2 includes capacity expansion for setting up of value-added fittings, welded / seamless – pipes / tubes; to be completed by December 2025.

Furthermore, we have plans to convert the gas annealing furnaces to electrical induction to further reduce the plant's CO₂ emissions. A solar park with an output of 1 MW is scheduled to go into operation at the beginning of March.



USP

With its manufacturing facility strategically located in the Kutch region of Gujarat, close to Mundra and Kandla Port, we ensure good logistical efficiency in exporting its products around the globe. In the years since its founding, the Indian company has earned the trust of many customers and experienced unprecedented growth. Mr. Stefan Müller-Bernhardt, and Mr. Thomas De Vos, having decades of industry experience are penetrating the market with excellent quality products and customer service. With just one year of active presence, we already have a respectable market share amongst Indian producers. After the mother hollow piercing plant was commissioned last year, the first export of seamless stainless steel pipes to the Europe market took place. While growing in the field of innovations, we have expanded our wings of uncompromised services and products worldwide. The company holds pride in supplying its wide product range to more than 28 countries internationally.

SURYA ROSHNI: SHAPING THE FUTURE OF STEEL PIPES WITH INNOVATION AND GROWTH

Since its inception in 1973, Surya Roshni has transformed into an organization that has not only developed its lighting and consumer durables business but also built a stronghold in the steel pipes and strips business. The company has been working on expanding its Hindpur plant involving an investment of INR 75 crore. The company aims to launch a variety of products in the coming years. This was revealed by Padma Shri Jai Prakash Agarwal, Chairman – Surya Roshni Limited during an interaction with Tube & Pipe India magazine.



Chairman – Surya Roshni Limited

THEME OF PARTICIPATION & PRODUCT SHOWCASE

We are participating in the Tube 2024 to capture the opportunity to network with the best minds and top leaders in the industry. Tube Dusseldorf offers a platform to showcase our diverse range of products, our innovations, and mingle with the customers. We will be showcasing our diverse products ranging from ERW black and GI pipes to spiral & API pipes.

RECENT DEVELOPMENTS

We are in the process of expanding our new steel pipe plant in Hindupur, Andhra Pradesh for manufacturing. The project is planned to be commissioned by March 2024 with an investment of approximately INR 75 crore. The company recently implemented SAP software to integrate and automate key processes, resulting in faster and more efficient operations.

FUTURE PLANS

We are continuing with the high growth momentum in lighting, consumer durables, steel, and PVC pipe by focussing on further improving the distribution and reach, across urban, semi-urban, and rural India. There will be several new product launches and the company will continue to aggressively drive channel financing too. We aim to be the largest global enterprise that delivers optimized solutions to its consumers and value to its stakeholders. To provide the best steel pipe, lighting & consumer durable products, and technology for markets across the world.

USP

Our commitment to quality assurance begins from the raw material stage and continues throughout all manufacturing processes until the pipes reach our esteemed clients. To ensure the highest quality, our quality assurance department is fully supported by a modern laboratory for conducting metallurgical and chemical tests, as well as a test house for evaluating physical properties. One of our key strengths lies in producing large-diameter pipes, ranging from 114.3mm to 406.4mm in ERW and 457mm to 2667mm in spiral pipes. Our expertise extends to manufacturing various special grades, including API 5L grades such as X70, X80, PSL 1, PSL 2, and API 5CT grades H40, J55, K55, and PSL 1.

We are working with the highest ethical standards in all aspects of our activities. Innovation, quality, and service are most important for us and our business. Priority to establish and maintain positive long-term relationships with our business partners. Safety is very important in all areas of Venus Pipes & Tubes. Venus is proud of its '100% Made in India' products. From raw material to finish, we provide complete documents and transparency to the clients. The raw materials are mainly supplied by local Indian suppliers with a good reputation or by renowned international producers. The young, rapidly growing company is very proud to be the largest stainless steel pipe manufacturer in India.

MARKET FOOTPRINT & CLIENTELE

Venus Pipes and Tubes has a very strong presence in the Europe market.

MARKET FOOTPRINT & CLIENTELE

We have built an exceptional reputation in both the Indian and global markets due to our innovative products, commitment to quality, and excellent service, all offered at competitive prices. Our brand has gained the trust of millions of customers worldwide, and we remain dedicated to delivering superior products while adhering to the strictest global quality standards. It is because of this trust of our esteemed clients that today Surya has a significant presence in more than 50 countries and is among the top three in black pipe exports.