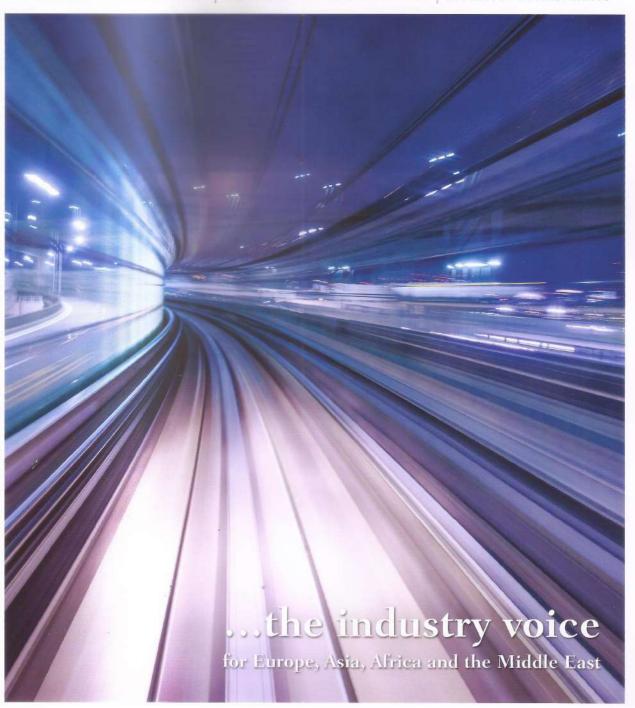
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A STAINLESS REPUTATION

In little over a quarter of a century, India-based Viraj Profiles has grown to become one of the world's most eminent producers of stainless steel long products, with a market reach extending to over 90 countries. Euroasia Industry talks to the firm's Chairman and Managing Director, Mr Neeraj Raja Kochhar, and his wife, Mrs Renu Kochhar – also Managing Director as well as heading up the Sales Department – about how the dynamic company has not stood still since last speaking with our magazine back in 2014.

Without a doubt, stainless steel is one of the most important industries in India – and according to India Brand Equity Foundation (IBEF), the country's stainless steel demand has outpaced supply over the last five years. Moreover, driven by rising infrastructure development and growing demand for automotive, Indian stainless steel demand is expected to report solid growth in 2017-2018 backed by consumption-boosting reforms and infrastructure investment. In the wider emerging world (excluding China), stainless steel

demand is expected to expand by around four per cent in 2017. Even looking at the global situation, things are looking up, with the world's stainless steel production returning to growth (albeit a modest 0.5 per cent) this year.

Such figures will be welcome news to Indian heavyweight Viraj Profiles, which manufactures stainless steel and plenty of it, with a portfolio spanning a wide range of products using austenitic, ferritic, martensitic and duplex stainless steel grades besides wires, wire rods, welding

wires, fasteners, flunges and bright bars in various grades of stainless steel. Boasting over 50,000 SKUs across different product levels, the variety is positively mind-boggling. However, what remains a constant is the quality, advises Chairman and Managing Director Mr Neeraj Kochhar – and it is this unerring emphasis on high standards combined with a vast portfolio that has clearly stood the company in excellent stead on the international stage throughout what has undeniably been a sluggish recent period for the sector **



worldwide. Indeed, with the global economic scenario now recovering, the company is confident of increasing its sales.

Myriad applications

"Our products have many applications in industries including perrochemicals, oil & gas, ship building, structural designs, high-tensile cables and springs, boilers, pressure vessels, liquid storage terminals, liquid cargos ships, and automobiles, to name but a few," informs Mr Kochhar, who tells us Viraj Profiles is today one of the world's largest manufacturers of flances.

The company also recently launched its range of stainless steel welding wire, which finds application in labrication work, the chemical industry, food processing equipment, pressure vessels, the automotive sector and various unber industries. Manufactured in various grades and compliant with clobal standards, the wires are produced as per customer requirements for specific applications. "The MIG wires roune with various packaging options in plastic or metal spool options. The TIC wires, which are used in gas tungsten are welding and whose surface is cleaned for hassle-

free welding, have marking or embossing done on each rod. The TIG wires are packed in plastic and paper tubes. allowing for convenient and safe transportation. The company also produces SAW wires — used in submerged-arc welding," adds Mrs Benu Kochhar, Managing Director and Head of Sales & Marketing.

The company is now in the process of setting up new facilities for manufacturing special steels and super alloys – used for critical applications in aerospace, defence and power projects. With this new unit, the company can supply critical grades of alloys in various forms and sizes, which can be used in steam turbines, pressurised heavy water reactors (PHWRs), along-side finding application in the defence sector. The steel alloys can be used in making flow-formed tubes for special projects of the Defense Research Development Laboratory, which works on design, development and flight evaluation of various types of missile systems. "Currently we are producing over 30 grades of stainless steels to global standards, and are supplying to more than

"Currently we are producing over 30 grades of stainless steels to global standards, and are supplying to more than 90 countries worldwide," Mr Kochhar informs. "We have in place an established and approved quality system (ISO 9001:2008), and we have over 90 certificates of approvals for supplying stainless steel flanges to our global customers."

New products and technologies

The Chairman advises that the company has developed high-strength super duplex stainless steel — a new product used in the

oil & gas industry, and in marine applications, as well as in construction where high load-bearing capacity is desired. Its corrosion resistance level is much higher than any other grade of stainless steel

Besides developing martensitic grade steel, on the value-addition and quality improvement front. Viraj Profiles has also developed Precision Shaft quality bright bars with the size range of 10-100mm. "In addition to this, we have also started producing bright bars with H8 tolerance in the size range of 10-100mm. We have also developed special coating wires, which are used for springs and nails. This leaves a very light lubricant film on the wire and as a result, guides are not jammed, tool life is increased and epoxy coating on nails is improved during processing at the customer end." he says.

Mrs Benn Kochhar further adde: "We

Mrs Renu Kochhar further adds: "We have also installed Material Tracking System – a one-of-its-kind in India – which gives accurate data about the movement of raw material and finished goods on a real-time basis. Likewise, on the packaging front. Viraj has also added new options such as Spool SH460 and SH390 for spring wire and also developed larger coil weight for spring wire. As value addition to our packaging solutions, we have developed plastic strapping instead of metal strapping up to IMT coils for easy handling and also to avoid damages."

In the past few years the company has also acquired a new ring-rolling machine 2,000-ton forging press and a 10-ton pneumatic hammer to enhance its production canacity alongside basing





domestic market

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cross more than 90 countries
for around 90 per cent of its
the manifold rise in domestic
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is in the domestic space. Such



however, has its limitations, and in order to fully expand its capacity, India should take care of issues like resistance to the use of stainless steel due to high initial cost, endemic power shortages, and high price volatility of nickel, alongside clamping down on the unrecognised sector producing cheap quality products, and also the issue of a shortage of scrap in the country.

Quality is paramount

Viraj Profiles has navigated such challenge admirably however, having mached up many a success in the last two decades since the company's inception. Mr Kochhar attributes such achievements to the company's organisational values, commitment to quality, and zest for technological upgradation. We have always endeavoured to keep ourselves on par with global market standards, offering the best quality products. As a result, our products enjoy a leadership position in several product categories across the globe." he says, adding that another success factor has been the company's ability to react quietly to market changes and customin requirements, which, in turn, has helped it stay ahead of competitors.

"Our integrated manufacturing system

- having all the processes in the system

makes us less dependent on external factors. Finally, quality is what characterises our products and today I can proudly say that Viraj has carved a niche for itself based solely on quality," he says, reasserting that all the firm's plants are ISO-certified and, in all, the company has thus far attained more than 90 accreditations for meeting various specific requirements and applications. "Those approvals and certifications enable our customers to supply our SS flanges and other products to major end-users across a variety of industries including pipeline engineering, oil & gas, mechanical and plant engineering, marine, wastewater processing, chemicals and petrochemicals, power sector, aerospace, and food processing," he explains, going on to inform that as part of its commitment to ensuring flawless quality, the company is in the process of installing two more eddy current testing machines to cater to size range of 5-12mm in addition to its existing facility handling the size range 14-130mm.

Emphasis on energy efficiency

Its emphasis on operational excellence necessarily means the company has always striven to save energy throughout its facilities and uses eco-friendly, recyclable materials as part of its waste management strategy – both to conserve natural



resources and reduce its carbon footprint. Such measures include installing imported induction furnaces to ensure zero discharge of fumes; utilising furnaces on a rotational basis to ensure optimum performance levels; and installing automatic temperature control systems to prevent overheating, thus directly reducing the energy requirement per cycle. "We have recently installed a new soft annealing furnace batch type which is going to further increase our capacity by around 800MT per month," Mr Kochhar adds. "We have also installed two gas-fired solution annealing furnaces and five more furnaces are in the process of installation. Moreover, as part of our ethos of promoting a green and safe environment, we have converted all our furnaces from liquid fuel to CNG [compressed natural and]"

"In our shot-blasting process in the profiles division, we collect all dust particles generated during the process. The heavy particles with heavy iron content remain at the bottom and are removed manually. These are then charged again into the furnace to save cost and reduce wastage." Mr Kochhar tells us, adding that even water used in the annealing and pickling process is conserved—it is recycled with the help of a scrubber and absorber system for treating it with acid, as required for neutralisation. Once the solid impurities are removed, the same water is re-used to conserve the muchneeded natural resource.

In recent developments, a gas conversion plant was installed in association with the Gas Authority of India Ltd (GAIL), and this has further assisted in reducing the carbon footprint of Viraj Profiles. "The environment-friendly plant helps in achieving combustion efficiency and increases the life of the furnace. It also reduces the level of harmful gases released into the environment due to burning of furnace oil." the Chairman adds.

CSR triumphs

Beyond its admirable sustainabilityrelated efforts, the company has targeted numerous CSR activities in areas where it feels it can make a difference to the local community – areas such as education, health, women empowerment and infrastructure developments. Such initiatives are seen by the Chairman as a drive to provide a better future to the word





generation. "As society is one of our stakeholders, we value CSR as it provides social, economic and environmental benefits to the communities in which we operate. It is in reciprocation of their support that we willingly share our success with them and believe that these activities benefit society as well as enhance corporate value," he enthuses

One such initiative – The Viraj Shri Bam Centennial School, which was opened to provide education of international standards on the company's premises at Kurgaon in Maharashtra – has been named by the 'Times of India' newspaper as one of the top emerging schools in the Mumbai region for the past two years. Mrs Renu Kochhar, who is Chairperson of the school, says the institution's prime motto lies in providing wholesome education to students and in providing a platform from which hidden talent can thrive.

The company provides e-learning content and has appointed full-time teachers in several government schools in the vicinity, as well providing stationery and uniforms to students in those schools, and also taking care of the infrastructure related requirements of these schools. Other initiatives include providing clean drinking water to students, donating computers, and arranging guest lecturers for the students.

Health-promoting initiatives include provision of an ambulance — in association with the Lions Club of Tarapur — on standby to shift emergency patients to Mumbai for further treatment. In addition, the company has drawn up plans to establish a world-class medical facility—also at Tarapur. The company also organises free health check-up camps in the villages surrounding its facilities where highly qualified and experienced doctors.

provide free consultation and free medi

Meanwhile, Viraj Profiles' womenfocused development initiatives help
empower females' role in society-building
and entrepreneurialism. "Self Help Group
(SHG) have been formed with women
as members and they are provided with
vocational training, alongside financial
help in starting a new business and mar
keting their products. In addition to pro
viding free of cost vocational training,
we also help these women in securing
well-paying jobs with textile and garment manufacturing companies in the
nearby areas. Many such ladies are
today working with some of the leading
textile companies, and are leading a
happy and satisfied life" Mrs Renu
Kochhar says.

Versatility and vertical growth

Returning to speak about the company's own products and prospective areas. Mr Kochhar expects the building and construction sector to witness the fastest growth in the future. Elsewhere, with the developed world focused on lightweighting automobiles to reduce global warming and emissions, the demand for stainless steel is expected to accelerate over the next couple of years, with its excellent formability behaviour combined with high strength leading many to tout SS as a suitable lightweight material for auto components. "We have already been exporting our fasteners and bright bars to some leading global automobile companies and are currently discussing development of new products for other companies," the Chairman reveals. "Our range of welding wire products — new to our stable — has been received well so far in the Indian market, and we are very

hopeful to carve a nucle for ourselves with such solutions in the international domain too," be advises;

"The household sector is also expected to witness good diencand, while expanding and emerging applications in renewable energy, construction, healthcare and cryogenic industries will likewise provide good opportunities — and we are fully geared to respond to those market trends," he adds

As for the future, with a tremendous range of around 50 1000 SkUs across various product categories. Viraj Profiles will not be looking for horizontal growth, but will rather be focusing on vertical growth, reveals the Chairman. This is being done keeping in mind the requirement of our customers and the strategy is being developed in constant consultation with them, he informs in closing, adding that Viraj Profiles has moretheless not ruled out new product development. With meriad markets and an ever-expanding range of applications, stainless steel is well known for being incredibly versatile—over a quarter of a century down the line, few could argue that Viraj Profiles Ltd does not share that valuable characteristic.

