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Managing Director, EMC Pvt Ltd

■ **Steel firms are moving towards sustainable operations and production**

■ **World's largest fusion reactor offers hope for clean energy**



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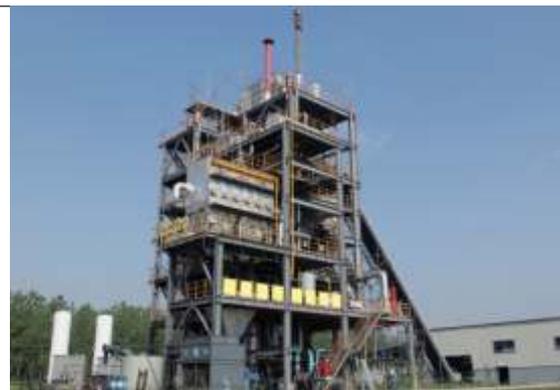
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Editorial Desk



D. A. Chandekar
Editor

Dear Readers,

While almost all the international financial experts are sure about recession being just round the corner, many of them are also sure about recession not much denting the Indian economy. Why everybody is so sure about the recession ? Why it is hitting most of the world and not India ?

As we all know, since 2020, the whole world was under the attack of deadly virus and the pandemic continued till the end of 2021. During this period, everybody suffered financially, whether you are a businessman, or an employee, or a self employed person, your wealth eroded. The professional activity suffered a lot due to frequent lockdowns and the destruction of supply chain and logistics which followed thereafter. Many small business houses could not sustain this challenging period and had to put down the shutter permanently. Big enterprises somehow managed to remain afloat but they too had to digest the big loss. By the end of 2021 and start of 2022, the business community had come out of this jolt mentally (if not financially) and was looking forward to a bright fortune in 2022. All these expectations were shattered due to sudden erupting of

Russia – Ukraine war. Further everybody thought it was a short time affair but prolonging of this war also had a huge negative contribution to the world economy. This is now followed by a deep devaluation of the currencies across the world affecting the transactions all over. All these factors, pandemic as well as the war and their unfortunate fallouts, substantially reduced the purchasing power and ability of the common consumer and the recession seems to be the natural consequence, almost a certainty !

Let us now understand India's position. It is a consumption and demand driven economy. A big population of 135 crores and the biggest middleclass in the world ensures continuous demand of almost everything. It may fluctuate to some degree because of inflation and price trends but the continuity is well maintained. Further, India's overseas trade has always been very small in percentage and that is the reason we have been saved the financial crisis of 1998 and also global (actually western) meltdown in 2008. To say so, India is somewhat immune to the tremors of the faults developed in the global economy. This is the reason why India likely to be the least hit country by the recession.

Friends, steel industry would play a big role in saving the country from the recession. Today the focus of Indian economy is infrastructure development. Our industry has a great responsibility to make the steel available at the right time and at the right price so that the infra development process gets a boost. Hope our industry rises to the occasion and India is never required to face the recession !

Write your comments :
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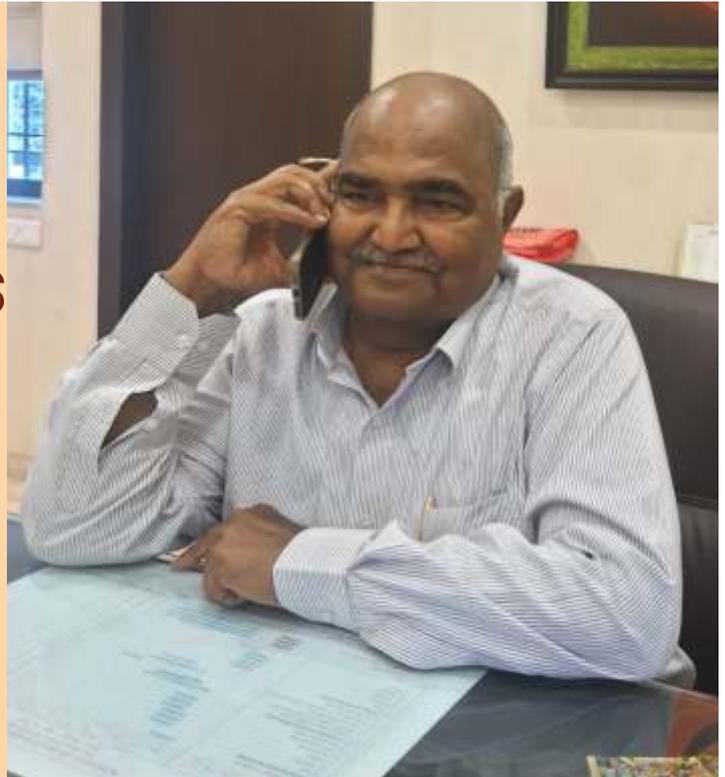
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EMC provides specialised plant equipments for the stainless steel industry

A. C. Kapoor
Managing Director, EMC Pvt Ltd



A.C. Kapoor is a Managing Director at EMC since Jun 1984 and based in Nagpur. EMC is the leading consultants to steel industry for setting up turnkey steel plants, upgradation of existing plants for value addition and higher productivity. EMC is the pioneers for stainless steel industry development in with largest number of AOD installation in India and other developing countries leading manufacturer of AOD&and LD convertors.



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Face to Face

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c) Technical back up to train technical team for production of quality Alloy, carbon and stainless steel thro' EAF/IF, Ladle Furnace, SSM & VOD routes.

d) Detailed design and Engineering of special equipment like computer controlled SSM converters, Water Cooling of Electrodes, continuous Sponge Iron feeding system, Fume Extraction systems, and other steel plant related process equipment.

e) Modern Automatic rolling Mill design, Engineering and technical backup for erection and commissioning for special Alloy, Stainless steel, M. S. section steel and Tor steel.

EMC at this stage is fully equipped to undertake any or all the services mentioned above within time bound program at most competitive rates to the entire satisfaction of quality conscious customers.

D A Chandekar, Editor & CEO of Steelworld Magazine had an exclusive interaction with A.C.Kapoor, MD, EMC to understand the status of the Indian Stainless Steel industry and how EMC technology to offer higher-performance products to the market at lower cost with product quality with improved efficiency. India

EMC Activities



has established itself as a quality producer with timely delivery at competitive cost.

Excerpts :

What is the present status of the Indian Stainless Steel industry?

Stainless Steel Industry in India has become a profitable venture for all those who are operating plants professionally with emphasis on quality, productivity and cost control. All new facilities are coming up with criteria to compete on quality & cost for international markets. Even existing old units are upgrading or replacing old inefficient equipment.

What are the latest technology trends in this industry?

The latest technology in the Stainless Steel Industry for the product has advanced to offer higher-performance products to the market at lower costs, and as a result, product quality has been enhanced, manufacturing efficiency has improved, and capacity increase and integration of

production equipment have advanced significantly. Such new technology in production of Stainless Steel production is basically can be described as under :

- Proper sizing of AOD Vessels to reduce splashes.
- Higher Gas Blow rates to reduce tap to tap time of heat cycle.
- Use of top lance to achieve Post

Combustion effect & higher decarburization rate.

- Use of proper Stainless Steel oriented production software.
- Use of Good quality equipment to assist in high productivity.

How has your organization been helping the stainless steel industry to develop /upgrade itself?

We manufactured 1 st AOD in 1984 which was a very primitive design and very inefficient in productivity and consumption of alloys.

It was the time when producing Stainless Steel with high Carbon FeCr was profitable.

Over the period we developed equipments design and process parameters to achieve

- Heat Cycle time matching the best in its class.
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Face to Face

educating operating personnel, the effect of timely additions, temperature control and the basic process of Oxygen Blowing to effectively remove Carbon and achieving desired Chemistry.

I will say – Quality equipment is 50% and Balance 50% is Technically Process educated operations team. We try both from initial stage of Project.

How do you see the future of the stainless steel industry in the country?

Future of Stainless Steel Industry in India is very bright. India has established itself as a quality producer with timely delivery at competitive cost.

Long Products :

We see many small producers, unable to upgrade their facilities closing down but many large scale projects are coming up with downstream facilities to produce – Forgings, Bright Bars, Seamless Pipes, ERW Pipes, Fasteners, Wires etc. which have huge potential in the Domestic and International Market.

Flat Products :

Large facility is operating at Salem, Jindal Plants for Flat Products – Plates, Coils, etc. with backward & forward integration. New facilities in Flat Products are coming up for early commercial production – mainly for exports. Overall, we envisaged Large capacity increase in India both for Long and Flat Products.

How can the policy makers facilitate the growth of the stainless steel industry?

Excluding SAIL plants of ASP Durgapur & Salem, all other producers in India for Stainless Steel are in the private sector. Application of Stainless Steel & High Alloy Steels have substantial consumption in ONGC, Aviation, Space, Power, Defence Sectors.

We still lack ESR, VAR equipment in most of the plants. Policy makers should think on following Lines to Develop India as Critical Steel producer :

- 1) Incentives for production of high value added products.
- 2) Preference to Indian Producer over imports for quality products.

3) Facilitate continuous supply at competitive rates of FeCr, FeNi & Other high value Ferro Alloys.

4) Reduce Cost of Power (By channeling Hydro, Solar, Wind Power) to Steel industry.

5) Subsidies Equipments Cost of ESR, VAR, Forging Presses to make our SS Industry competitive as our Term Loan Rates are very high.

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- Engineering & Metallurgical Consultants Pvt. Ltd.-
 - ❖ Supply of Equipments in India.
- Kapoor Engineering & Metallurgical Consultants-
 - ❖ Export Activities in Consultancy & Equipment Supply.
- AVM Minerals & Metals –
 - ❖ Mineral Resource Services.
- Pt. Precious Mineral Resources-
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Steel firms are moving towards sustainable operations and production

Some of the questions these changes answer are:

- How much energy is being used?
- What is the source of the energy?
- How much ore is being used?
- How much steel is being produced?
- How much water is being used?

Analysis of information gathered by these, and numerous other questions, allow companies to bring an accuracy to operational results that is leading

steelmakers to realise very quickly how fast these new devices, systems, and processes are demonstrating a return of investment (ROI).

The other and even more important aspect is that companies can produce that data, results, and its analyses to be independently corroborated to prove their sustainability credentials.

Global steel market overview
According to a recent report by GlobalData entitled *Global Steel – January 2022*, the global steel market grew during the past five years,

**Steelworld
Research Team**

despite shrinking in 2019 and 2020.

The market was forecast to see strong growth in 2021, followed by volatile growth. The largest single market is Asia-Pacific, which accounts for 77.7% of total market value, while in second place is the European market, which comprises 12.3%.

During the same period, Asia-Pacific steelmaking grew the fastest, with a growth rate of 11.5%, while the Middle East increased by 11.2%. Other regions expanded sluggishly during the same period.

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Industry Update

Forecasts suggest the Middle Eastern region will remain a strong grower in terms of steel, with predictions of 7.4% growth over the next five years. However, the US is expected to be the fastest-growing segment of the global steel market, with a growth forecast of 7.8%.

Total revenues were \$1,017.9bn in 2020, representing a compound annual growth rate (CAGR) of 8.9% between 2016 and 2020. In comparison, the Asia-Pacific and US markets grew with CAGRs of 11.5% and 1.3% respectively, over the same period, to reach respective values of \$791.2bn and \$57.3bn in 2020.

The performance of the market is forecast to decelerate, with an anticipated CAGR of 5% for the five-year period 2020 – 2025, which is expected to drive the market to a value of \$1,299.3bn by the end of 2025.

Comparatively, the Asia-Pacific and US markets will grow with CAGRs of 4.6% and 7.8% respectively, over the same period, to reach respective values of \$989.3bn and \$83.3bn in 2025.

Steel market snapshots

- The global steel market shrank by 3.6% in 2020 to reach a value of \$1,017.9 billion.
- In 2025, it is forecast to have a value of \$1,299.3 billion, an increase of

27.6% since 2020.

- It grew by 0.2% in 2020 to reach a volume of 1,786.3 million tons.
- In 2025, the forecast is it will have a volume of 2,126.3 million tons, an increase of 19% from 2020.

Collaborations towards greener production

Companies are collaborating with suppliers to create end-to-end green supply chains, such as Sweden's SSAB's HYBRIT technology initiative with partners LKAB and

steel, the SSAB example can be extended all the way to end-users.

SSAB plans to convert all its sites to EAF smelting using the greenest suppliers of ores and energy. The company is already on target to produce commercial quantities of fossil-free steel by 2026 and has a further target of 2030 to make all its steel products sustainable.

It continues to invest in reducing reliance on coal and other fossil fuels, increasing the efficiency of recycling



EAF technology reduces emissions and becomes an even more sustainable process when it is used to smelt and recycle scrap steel

Simply put, the company produces steel using its EAFs to melt direct reduced iron (DRI) supplied by miner LKAB using green hydrogen provided by sustainable energy provider Vattenfall. In fact, with Volvo producing a world-first autonomous mining truck in 2021 from the company's fossil-free

waste heat, and reducing water usage. EAF technology reduces emissions and becomes an even more sustainable process when it is used to smelt and recycle scrap steel.

Steel is one of the most durable, endlessly recyclable materials on the earth; it is also the most recycled. Over the course of green steel's life cycle, investing in the development of a more environmentally friendly production method will pay huge environmental dividends ■

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World's largest fusion reactor offers hope for clean energy

A powerful new steel-built tokamak reactor is aiming to finally achieve the holy grail of fusion-powered electricity generation.

Deep in the French region of Provence, chosen for its favourable geological, hydrological, and seismic conditions, as well as water and electricity access, sits a sprawling 180-hectare facility that houses the International Thermonuclear Experimental Reactor (ITER).

Traditional power plants convert heat from fossil fuel combustion or nuclear fission into steam which is then used to rotate turbines that convert mechanical energy into electricity. Both these methods, while reliable sources of power, come with environmental impacts through emissions or radioactive waste. But what if there was a way of producing this heat

without the damaging by-products? This is the dream of fusion power, an ongoing experiment to produce vast amounts of energy through atomic fusion.

Identical to the processes that power our sun, fusion occurs when two hydrogen atoms smash together and fuse into a single helium atom. This generates huge amounts of energy without producing radioactive fission products.

Creating this process presents a serious engineering challenge, as the reactions must be precisely controlled in a space where massive amounts of energy are being generated.

The power of a star in a steel-built cage

At the ITER facility, construction is underway on the world's biggest tokamak reactor. At the heart of this experimental machine, which

is based on a Soviet model developed in the 60s, is a torus-shaped vacuum chamber.

Weighing 5,200 tonnes and with a volume of 1,400 m³ the vacuum chamber is by far the largest of its kind, making it easier for the physicists that operate it to control the reactions needed to generate viable fusion power.

ITER's experiments will take place inside this steel-built vacuum vessel, which contains the fusion reactions and is hermetically sealed, acting as the primary safety containment barrier. Here hydrogen fuel is subjected to immense heat and pressure, turning it into the hot, electrically charged gas known as plasma.

This vacuum environment provides radiation shielding and supports plasma stability, while cooling water systems that are circulated between its double steel walls safely

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remove the heat generated while the reactor is active. This is vitally important as temperatures of between 150 and 300 million °C are required for fusion.

ITER's new fusion reactor will be the world's largest once completed

The power of magnetic fields

The doughnut shape of the interior allows the plasma particles inside to circle continuously without touching the walls. This superhot plasma is contained and controlled in the tokamak reactor by magnetic fields produced by 10,000 tonnes of superconducting magnets. Able to produce stronger

fields than conventional magnets when kept at temperatures of -269°C, ITER uses 'high-performance, internally cooled superconductors' in which superconducting strands are bundled together and contained in a structural steel jacket.

This means of generating magnetic fields is also cheaper and less-energy consuming than alternatives, making it the only viable option for the massive magnet systems needed to support fusion power.

The vacuum vessel and its superconducting magnet system are all contained within the ITER cryostat, which provides an ultra-low

temperature vacuum space. At 16,000 m³, it is the largest stainless steel high-vacuum pressure chamber ever built.

The extreme temperature differences contained in the reactor make stainless steel an ideal choice. Able to maintain performance at high and low temperatures, steel's high ductility and toughness make it an irreplaceable part of ITER.

With the tokamak expected to be up and running by 2025, fusion physicists hope that this will be a game changer for energy generation. While the prospect of near-limitless clean energy remains beyond the horizon, it is clear that if we are to achieve commercial fusion it will be the enduring power of steel that allows us to harness.



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SOVEREIGN SOLUTIONS FOR ALLOY, SPRING AND DIE STEELS



13th Steelie Awards shortlist announced

The World Steel Association (worldsteel) has announced the shortlist for the 13th Steelie Awards. The Steelie Awards recognise member companies for their contribution to the steel industry over a one-year period in a series of categories impacting the industry. The winners will be revealed on Monday 17 October. The Steelies are awarded in six categories:

Excellence in low-carbon steel production :

- Ansteel Group Corporation Limited Low CO2 emission blast furnace charge solution based on low basicity high silicon pellets and its application
- Ansteel Group Corporation Limited The R&D of digitisation and networking energy management system at the Bayuquan site
- ArcelorMittal CO2 reduction by means of coke oven gas co-injection in blast furnace
- JSW Steel Limited Project SEED (Sustainable Energy Environment and Decarbonisation)
- Tenaris Smart furnace for scrap use optimisation based on mathematical models and data science
- Ternium Carbon capture and utilisation (CCU) in

Ternium Mexico

Innovation of the year :

- Big River Steel, a U. S. Steel Company Development of a single phase (SP) nano-precipitation strengthened batch-annealed SP590 sheet steel with outstanding formability: a low-cost, greener DP590 alternative?
- HYUNDAI Steel Company Development of materials for electric vehicle reducer
- HYUNDAI Steel Company Development of 1.5 GPa hot stamping steel in conjunction with high toughness performance
- JFE Steel Corporation Novel arc welding process for heavy-thickness steel plates with ultra-narrow groove weld joints
- POSCO STS high-speed extended width AC electrolytic pickling technology

Excellence in sustainability:

- Bangladesh Steel Re-Rolling Mills Limited An innovative project for utilising 100% induction furnace slag to replace unsustainable fired clay bricks and stone chips in Bangladesh
- Gerdau S.A. BIOCOKE
- JFE Steel Corporation Refractories for hot metal transport vessels contributing to a

sustainable society

- JSW Steel Limited Development of construction sand from waste steel slag
- POSCO Recycling shell waste for sustainable steelmaking

Excellence in Life Cycle Assessment :

- ArcelorMittal Carbon footprint of cold stamping and hot stamping components
- HBIS Group Co., Ltd. Using LCA to promote the carbon emission reduction in the whole value chain of hydrogen-based DRI projects
- JSW Steel Limited Developing and implementing an Environment Product Declaration (EPD) programme and promoting it in market communications
- Nippon Steel Corporation EPD development for steel products
- Tata Steel PACI – a tool to support innovation and customer engagement through life cycle thinking in the steel value chain
- Tata Steel Using LCA to identify environmental hotspots to drive decarbonisation

Excellence in education and training :

- Emirates Steel Arkan Career Aspirations Programme

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- HBIS Group Co., Ltd. High Skilled Talents Training Centre
- JSW Steel Limited TalenTech
- Tata Steel Capability Building for Agile Transformation (UDAAN)
- Ternium Competences Certification Programme for Risky Tasks (CCRT)

Excellence in communications programmes:

- Gerdau S.A. How the century-old Gerdau transformed its image and became the steel company with the highest global engagement
- HYUNDAI Steel Company Children's Vocational Experience Center
- JSW Steel Limited 'Always Around' campaign
- POSCO Programme designed to bring the steel industry closer to the social media-savvy MZ generation
- Tata Steel Communication on diversity and inclusion
- Tenaris New way of working and new offices
- Ternium Ternium Safety Day

The selection process for the shortlist varies between awards. In most cases the submissions are requested via the appropriate worldsteel committee. Entries are then judged by selected expert panels.

Tata Steel considers exit from the UK due to lack of government support: Report

Amid little hope of receiving a £1.5 billion subsidy package from the UK government to transition to green energy, Tata Steel is likely to halt its operations in Britain. Tata Steel owns the UK's largest steelworks at Port Talbot. The plan is for Tata Steel to shut its two blast furnaces at Port Talbot, stop primary steelmaking and instead build two electric arc furnaces. This is essential to keep the plant functional. These arc furnaces would recycle scrap steel and are less carbon-intensive than blast furnaces. Building the electric arc furnaces and decommissioning the existing blast furnaces would cost about £3 billion, the ET report said. "As part of the UK's de-carbonisation journey and rising carbon costs in the commissioning the existing blast furnaces would cost about £3 billion, the ET report said. "As part of the UK's de-carbonisation journey and rising carbon costs in the country, it is necessary for Port Talbot to transition to alternative technologies to remain viable," a Tata Steel source told the publication.

NCLT clears ArcelorMittal's Rs 4,000-crore bid for Uttam Galva Steel

ArcelorMittal group has successfully bid for yet another steel company Uttam Galva Steel -- through the corporate insolvency resolution process (CIRP). The Mumbai bench of the National Company Law Tribunal (NCLT) on Friday gave its approval to Rs 4,000-crore resolution plan submitted by AM Mining India, a subsidiary of ArcelorMittal for Uttam Galva. Earlier, the Committee of Creditors had approved the resolution plan submitted by AM Mining India with a 100% vote share. Others in the race for Uttam Galva Steel were JSW and Jindal Steel and Power Ltd.

The NCLT approved the resolution plan submitted by the ArcelorMittal group without any changes or amendments, and rejected all challenges to the plan. ArcelorMittal group was represented by Ravi Kadam, Senior Advocate and advised by a team from Karanjawala & Co and a team from S&R Associates. Uttam Galva had been under the insolvency process on an application filed by State Bank of India after the former defaulted on a payment of Rs 110 crore. The NCLT admitted the application in October 2020.

Uttam Galva owed Rs 9,340 crore to financial creditors. ArcelorMittal India was the largest financial creditor accounting for 69.35% of the total due amount. Before Uttam Galva, ArcelorMittal and Nippon Steel had successfully bid for Essar Steel for a sum of Rs 41,000 crore in 2018. The LN Mittal-led group has also acquired Odisha Slurry Pipeline Infrastructure for Rs 2,350 crore in 2020. Uttam Galva Steel, which was incorporated in 1985, is engaged in the business of manufacturing downstream value-added steel products in India. The Company procures hot rolled steel (HR) and processes it into cold rolled steel (CR) and further converts them into galvanized steel and colour-coated coils.

Steel PSUs strategically important for India

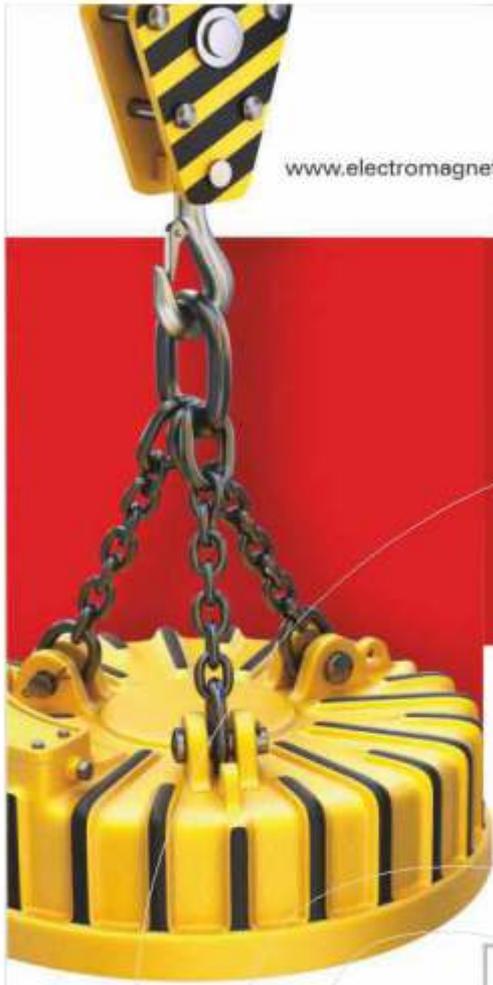
RINL-Vizag's Steel Executives Association (SEA) on Wednesday organised a session on 'Importance of steel under strategic sector and merger of all steel PSUs into a giant organisation.' SEA president Katam S S Chandra Rao presided over the seminar and introduced Ashok Rao, chief patron and ex-secretary general of National Confederation of Officers Associations.

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Indian steelmakers hoping for export duty cut

Indian steelmakers hoping for an early end to the export duty levied earlier this year may have to wait till next year's Union budget, with the government deciding to examine the metal's price trend over an extended period before removing the levy.

Whereas domestic steel prices, which fell for three months after the export duty was imposed, firmed up marginally in September, and the government wants more data on prices and the demand-supply situation before reworking the duty, two officials aware of the matter said. According to one of the two officials cited above, who



spoke on condition of anonymity, higher local prices and expectations of healthy domestic demand may help steelmakers liquidate their inventory within the country. However, the global situation could change things quickly, and the market has to be understood in entirety for some more time before a call on duty revision is taken, he said on condition of anonymity. Domestic steel inventories have swollen in the past few months thanks to lukewarm local demand and the effect of the export duty.

A third official with the revenue department said the steel ministry is yet to reach out for a rollback of the export duty. "If the ministry wants a rollback, it should write to us. We have not received any such request yet. In case we get it, we will be open to examining it. Otherwise, in the normal course, we will look at it during the coming budget," the official added.

The decision to postpone a duty revision would be a setback for domestic steelmakers, hoping an early duty relief would help release the excess inventory in international markets.

A query emailed to the ministries of finance and steel remained unanswered till press time. On 22 May, the government imposed an import duty of 15% on select steel products, including pig iron, flat-rolled products of both carbon steel and stainless steel, bars, rods and non-alloyed steel in a bid to check rising steel prices in the domestic market, address shortages, and rein in inflation. Duty changes were also made for iron ore pellets, where a

45% export duty was imposed while export duty on iron ore and concentrates was raised from 30% to 50%.

Last fiscal, the steel industry had exported a record 13.49 million tonnes, up 25% from the previous year, taking advantage of the increase in demand and prices worldwide. The trend continued into the early months of this year, but things changed thereafter as domestic demand and prices fell.

"As a result of the export duty, the domestic price of benchmark hot rolled coils has fallen over 26% this fiscal from a record level of over ₹76,000 per tonne in April to just over ₹56,000 per tonne now. The reduction or removal of duties may enable companies to tap overseas markets for their products amid flat domestic demand and risk of available export opportunities also drying up over concerns of a looming recession in Europe and American markets," a top executive at one India's largest private sector steelmaker said on the condition of anonymity.

"The Ukraine-Russia conflict had opened doors of European markets for Indian steelmakers, but the duty has made prices uncompetitive now. A duty revision, even now, will help the sector overall without adding to inflationary pressure on the economy," he added.

Prices recovered in September, with hot rolled coil prices gaining about ₹2,000 per tonne. Analysts expect steel prices to firm up further in October and November as demand picks up, but the global situation, including the consumption slowdown in China and interest rate hikes by central banks, may arrest demand pick-up and dampen prices again.

"The 15% export duty on steel continued to weigh on engineering exports as India's iron, and steel exports dropped by 62.2% in August on a year-on-year basis," said Engineering Export Promotion Council chairman Mahesh Desai. EEPC has also proposed duty rollback on steel while requesting the commerce and industry ministry to include steel under RoDTEP (remission of duties and taxes on export products scheme) so that the adverse impact of export levy could be negated.

Engineering exports also fell by 12.6% in August and 17% in September, and exporters have attributed it partially to the export duty on certain steel products. In August, engineering outbound shipments to China declined by 70% to \$173.7 million, compared with \$619.5 million in the same month last year amid its zero-covid strategy. Shipments to the EU fell 27.3% to \$1.47 billion.

On an overall basis, the export duty has driven down steel exports from 1.5 million tonnes in April to just over 500,000 tonnes in July. Iron ore exports also fell 69.1% in April-July. What is hurting companies now is that despite

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News Update

the fall in imports, domestic consumption has not increased and has fallen from about 10 mt in March to less than 8 mt a month now. The inflation push on semi-finished steel has also eased from the highs achieved in April.

In July, the Centre also imposed a windfall tax on petroleum products and crude oil to prevent firms from making abnormal profits when oil and product prices were rising globally. The tax was thereafter revised on a few occasions under a fortnightly review. The steel industry is also hoping for a similar trend-based revision of duty.

FOCIA appeals to Finance Ministry to form a raw material price fixation committee.

Ease of Doing Business for MSMEs: FOCIA in a letter to the finance minister expressed its gratitude for taking bold measures like levying export duty on finished steel products and iron ore in May.



The Federation of Coimbatore Industrial Associations (FOCIA) on Friday urged the Union Finance Minister Nirmala Sitharaman to not withdraw export duty on steel products until the global recession is over. The Industry Association also asked the finance ministry to form a raw material price fixation committee.

In the letter, FOCIA also expressed its gratitude to the finance minister for taking bold measures like levying export duty on finished steel products and iron ore in May.

Domestic steel prices rebound albeit but there are risks

Steel prices in domestic markets are regaining their lost shine, albeit gradually. One factor aiding prices is production cuts, which has resulted in falling inventory levels.

"We note that hot-rolled coil (HRC) prices rose by ₹1,000 per tonne to ₹57,500 per tonne while cold rolled coil (CRC) prices increased by ₹500 per tonne to ₹66,200 per tonne on reduced inventory levels in last week of Sep-2022," said analysts at Nomura Financial Advisory and Securities



(India) in a report on 10 October.

"But for the week ending 7 Oct-22 prices have been stable (channel inventory has halved month-on-month," said Nomura analysts.

Note that the prices are higher versus pre-covid levels. Also, they are at a premium to import prices from South Korea and China. This means domestic steel companies such as Tata Steel Ltd, JSW Steel Ltd and Jindal Steel & Power Ltd are at a risk from potential increase in imports. Shares of these companies are 17-28% below their respective 52-week highs. Recall that share prices had dropped significantly post the levy of export duty on steel in May. This remains a sentimental overhang on the stock.

Due to this, exports remain subdued. Weak global demand is not helping either.

"We expect steel production to rise in Q3FY23 as maintenance activities are completed, which can lead to steel price weakening on improved supplies if raw material price levels are maintained," said Nomura analysts.

Prices of iron ore have remained stable. But coking coal costs are on the rise with prices having risen by \$8 per tonne week-on-week to \$253 per tonne in October so far, said Nomura analysts. Overall, average HRC spreads in Oct-22 so far have increased 1.4% month-on-month versus Sep-22 levels, they added.

It remains to be seen how the festive demand pans out with automakers expecting the season to boost sales. Also, resumption of construction activities would augur well for steel demand.

JSW Steel joins United Nations Global Compact (UNGC) initiative



**United Nations
Global Compact**

JSW Steel announced today that it has joined as the newest participant of the United Nations Global Compact (UNGC) initiative - the world's largest voluntary corporate sustainability initiative.

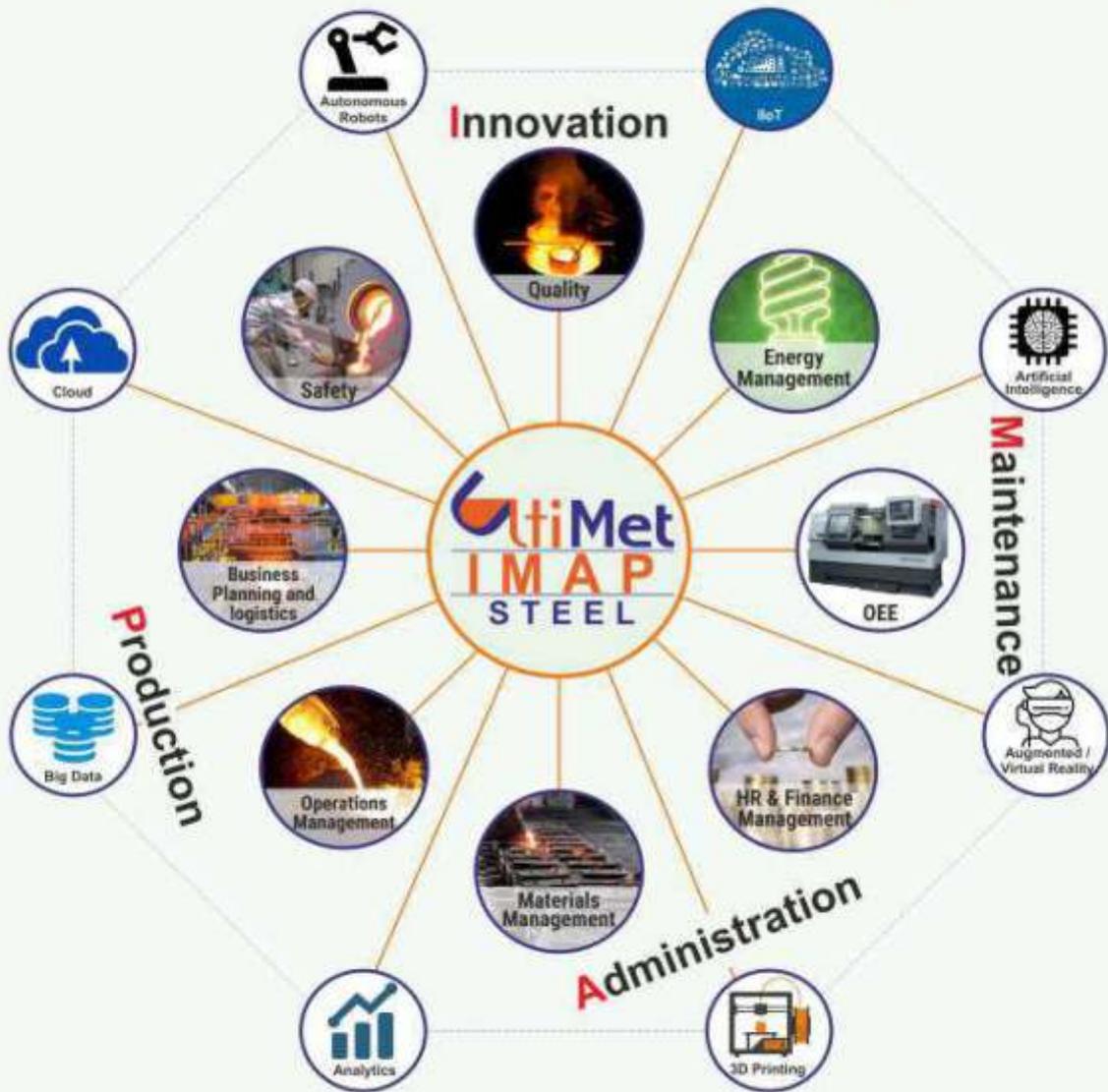
JSW Steel has joined this global network of thousands of companies committed to taking responsible business action to pave the way for a sustainable world; and is the 5th Indian company in the 'Industrial Mining and Manufacturing' category to join the UN Global Compact

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News Update

Initiative.

The UN Global Compact encourage companies to conduct business responsibly by aligning their operations and strategies with the UN's Ten Principles.

It also commits companies to take actions to advance broader social benefits, in accordance with the UN Sustainable Development Goals (SDGs).

Cryogenic treatment can extend lifespan of stainless steel: Punjabi University research

A Punjabi University research scholar has found that cryogenic treatment of stainless steel can extend the lifespan of the metal used in turbines of hydropower plants across the world, cut costs, and help produce more energy.



The research was completed by scholar Munish Kumar as part of his PhD under the guidance of Hazoor Singh Sidhu, Professor, Department of

Mechanical Engineering, Yadavindra College of Engineering of Punjabi University, Patiala, and Professor Buta Singh, Vice-Chancellor, Maharaja Ranjit Singh Punjab Technical University, Bathinda.

Munish said stainless steel was widely used in hydropower plants for manufacturing of various components. It gets eroded due to its poor tribological characteristics.

"This happens especially during the rainy season when the quantity of sand particles increases in the water stream. Sand particles continuously fall onto the stainless steel blades of the turbines and lead to their erosion. The turbines then need to be stopped and the blades removed. It affects the functioning of hydropower plants across the world as it wastes precious time in changing the blades and increases costs," he said.

His guide Prof Hazoor Singh said their research had found that cryogenic treatment (treating the metal to temperatures below -190 °C (-310°F)) done on stainless steel refines its internal structure. "This then improves the metal's resistance to erosion, which ultimately improves its life by 15 to 20 per cent," he said.

The research scholar also prepared a slurry erosion testing rig as per the ASTM standards as part of the research study and found that the treatment helped reduce erosion of stainless steel. Prof Buta Singh said this was a simple solution to reduce the erosion in metals, which would lead to an increase in the power generation capacity of hydropower plants by reducing its shutting time.

Jindal United Stainless (JUSL) selects Danieli Service to supply a new down coiler



Jindal United Stainless Limited – JUSL selected Danieli Service to supply a new downcoiler #2 for upgrading its hot-strip mill down coiler area at JUSL, Jajpur plant, India, which is producing stainless-steel grades 200, 300, 400 series.

In addition to the selected new mechanical equipment – side guides, downcoiler, coil stripper and coil lifting cars – the scope of supply also includes the engineering and advisory services for the installation.

The new downcoiler will be able to coil up to 36-t hot-strip coils with a maximum thickness of 22mm and 1650mm wide, at a coiling speed of 16 m/s, controlled by a new Danieli Automation electrical and automation package.

The erection and commissioning activities will be performed within the agreed schedule from the contract coming into force.

ArcelorMittal Brasil orders Danieli Rolling Mill for Long Products



New reheating furnace and mill for profiles, spring flats, angles-channels-beams, rounds, and squares A new complete rolling mill and reheating furnace will be installed at Barra Mansa Works to produce 400,000 tpy of quality bars and medium sections, increasing the production capacity of the plant at the most competitive OpEx.

The mill will produce profiles, spring flats, angles-channels-beams, rounds, and squares, from 6- to 12-m-long square billets and blooms reheated by the new Centro Combustion walking-beam furnace, according to final product and process needs.

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Danieli electro-magnetic stirring technology upgrade to upgrade billet quality and grades at ACO Verde Brasil



Aço Verde Brasil, Açailândia, Maranhão state, Brasil, is now producing highly demanding grades and opening new market opportunities thanks to the implementation of new, Danieli in-mould, electromagnetic stirrers which improve the internal quality of the billets produced by the continuous casting machine.

Electro-magnetic stirring homogenizes the liquid steel during solidification in the mold, allowing a more uniform internal structure, increasing the clarity and internal quality of the billets.

The improved quality of the billets reflects the enhanced quality and internal robustness of the final products produced by Aço Verde Brasil, such as machine wire (FM), rebar CA50 and rebar CA60, adding value to final users. Productivity also will increase by the installation of a complete, new fourth casting strand being supplied by Danieli. Furthermore, a submerged casting system for all four strands will be part of the supply.

The complete, 15 housing less stand mill will feature a rake-type cooling bed with a water-cooling system and heat-retaining hoods based on process requirement and a multi-strand straightening machine with a quick-changing device, followed by finishing services.

The stacking facilities will supply packages between 4.3- and 15-m long, weighing between 1.5 and 5 tons.

Danieli Automation process control and systems will ensure easy operation and material tracking throughout the entire process.

In addition to engineering and technological supply, the contract includes on-site training and advisory services. Expected to start operation within mid-2024, this will be the 48th Danieli rolling mill in Latin America.

MCA approves demerger of NMDC steel plant in Chhattisgarh from NMDC

The Ministry of Corporate Affairs (MCA) has approved the demerger of NMDC Steel plant in Chhattisgarh, from NMDC Ltd, the iron ore miner said. The Ministry of Corporate Affairs (MCA) has approved the demerger of NMDC Steela three-million tone steel plant in Chhattisgarh, from NMDC Ltd, the iron ore miner said. "This is to inform you that the Company is in receipt t of the MCA Order dated 06.10.2022 received on 11.10.2022 sanctioning the Scheme, and the same is annexed to this letter. Request you to kindly take the same on record and oblige," NMDC said in a communication to BSE on 11th October 2022.

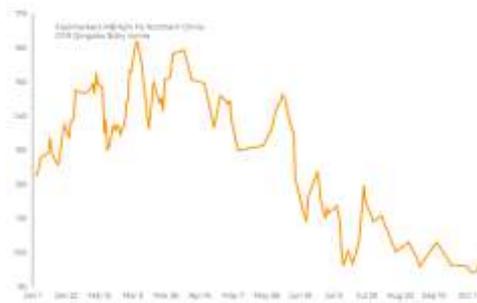
Iron ore price down as China limits steel output

The iron ore price is down as steel mills in China's top producing province of Hebei have been ordered to limit output, in a bid to ensure blue skies for the once-every-five-year Communist Party Congress that starts in Beijing later this month.

Cuts of 30% to 50% will be applied to the sintering process, where iron ore is readied for the blast furnace to be forged into steel, outlets including Coke Union Information and Calian reported.

The restrictions will apply from October 14 to 22. Hebei, which neighbors Beijing, has made headway in reducing capacity in recent years but still accounts for about a fifth of national production.

According to Fastmarkets MB, benchmark 62% Fe fines imported into Northern China were changing hands for \$96.59 a tonne Tuesday morning, down 1.9%. China typically mandates



output curbs for highly polluting industries around the capital to ensure air quality for showcase events, and similar restrictions were ordered for the Beijing Olympics earlier this year.

"Chinese steel prices are likely to rebound in October with market fundamentals improving and macroeconomic support policies coming into force," Mysteel consultancy said, citing its chief analyst Wang Jianhua. "Caution is likely to prevail, however, ahead of this month's Chinese Communist Party congress."The week-long congress begins on October 16.

Steel demand needs 9% CAGR to meet 160 kg/capita consumption target: Icra

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The domestic steel demand needs to grow at a compound annual growth rate of 9 per cent over the next decade

The domestic steel demand needs to grow at a compound annual growth rate (CAGR) of 9 per cent over the next decade to meet 160 kg per capita steel consumption target envisaged in the National Steel Policy (NSP).

Launched in 2017, NSP also aims to ramp up the country's crude steel production to 300 million tonne (MT) by 2030-31.

Jayanta Roy, Senior Vice-President & Group Head,



Corporate Sector Ratings, Icria said, India's current per capita steel demand of 76 kg is not only significantly below the world average of 233 kg per capita, but also remains the lowest among Brazil, Russia, India, China and South Africa (BRICS) nations.

To take the country's steel consumption close to NSP target of 160 kg per capita in FY2031, the domestic steel demand would need to grow at a CAGR of 9 per cent in the next decade, the expert said in an Icria report on Wednesday.

He further noted, "This is almost double the growth rate achieved in the decade gone by. While achieving this milestone will be challenging, it is not impossible, as the country has been able to demonstrate growth of a similar magnitude in the past."

According to the ratings agency, India's steel demand growth has been remarkably resilient despite the persistent macroeconomic instability caused by elevated inflation and bursting of the Chinese housing bubble (real estate crisis), which has caused a 30-45 per cent correction in global steel prices in current fiscal so far.

"Domestic steel demand climbed by 11.1 per cent year-on-year (y-o-y) in the first half of financial year 2022-23,

continuing a robust growth trend that began in FY22, when it grew 11.4 per cent y-o-y helped by a low base effect. The result is that India is now the world's fastest-growing major steel market," it said.

The government's strong infrastructure push, and an expected pick-up in private capex will play a crucial role in determining whether India is able to achieve the NSP target. Another key enabler of the domestic steel demand is the government's capex spend.

Infrastructure and construction account for the largest share of around 62 per cent of domestic steel demand, and the government's infrastructure development plan in core sectors like railways, roadways, energy, urban infrastructure, multimodal logistics parks, affordable housing, and drinking water connectivity would remain the backbone of India's steel demand growth prospects.

Privatisation of SAIL's Bhadravathi steel plant scrapped

The Centre Wednesday scrapped the privatisation process of SAIL subsidiary Bhadravathi steel plant citing insufficient bidder interest.

"Due to insufficient bidder interest in proceeding further with the transaction, government of India, with the approval of Alternative Mechanism (Empowered Group of Ministers) has decided to annul the EoI and thereby terminating the present transaction," the Department of Investment and Public Asset Management (DIPAM) said. The Expression of Interest (EoI) for selling SAIL's 100% stake in Visvesvaraya Iron and Steel Plant (VISP), Bhadravathi, Karnataka, was invited in July 2019. The Cabinet had in October 2016 cleared strategic disinvestment of SAIL's stake in VISP..

RINL-Vizag's Steel Executives Association (SEA) on Wednesday organised a session on 'Importance of steel under strategic sector and merger of all steel PSUs into a giant organisation.' SEA president Katam S S Chandra Rao presided over the seminar and introduced Ashok Rao, chief patron and ex-secretary general of National Confederation of Officers Associations. SEA president Katam S S Chandra Rao presided over the seminar and introduced Ashok Rao, chief patron and ex-secretary general of National Confederation of Officers Associations. In inaugural speech, SEA general secretary KVD Prasad explained the need for merging RINL and Nagarnar Steel Plant (NMDc) with SAIL and keeping the steel sector in the strategic sector. Association leader Balle Mallayya said public enterprises under the government can only provide employment for socially backward communities and can protect the reservations in employment.



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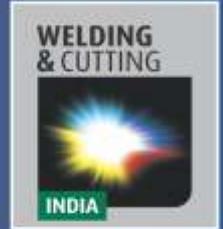
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JSW Steel registers sequential decline in Q2 production



JSW Steel registers sequential decline in Q2 steel production. Government's export duty on steel products is beginning to hurt production schedule of domestic steel producers with private sector steel maker JSW Steel reporting a 3% decline in crude steel production sequentially in July-September quarter of FY23. In a statement the company said that though at the group level, combined crude steel production at 5.68 million tonnes for Q2 FY'23 registered a growth of 12% YoY (over 5.07 mt last year), sequentially the production slipped 3%, indicating re-emergence of demand slowdown. "This drop in production was attributable mainly to extended maintenance shutdowns in JISPL (JSW Ispat Special Products Ltd.), subdued market conditions in USA and lower capacity utilisation in other locations in India due to supply and logistics constraints in sourcing of iron ore and steep decline in export volumes," JSW Steel said in a statement.

While the company produced 5.68 mt of steel in Q2 this year, the production was higher at 5.88 mt in Q1 FY23. Of the total Q2 production, almost entire steel (5.57 MT) has been rolled out by JSW Steel Indian Operations that includes production from Bhushan Power and Steel Ltd (BPSL) which was acquired by the group early last year under the insolvency and bankruptcy process and included under JSW Steel Indian Operations in October, 2021. Only a production of 0.03 MT came from JISPL in Q2. The total crude steel production in the quarter also included 0.08 MT steel produced by JSW Steel USA Ohio. In H1 FY23 (April-September) the total combined steel production by the group stood at 11.56 MT, 14% higher than 10.14 MT crude steel production registered in H1 of FY22.

Kobe Steel's unit signs technology deal with Sweden's H2 Green Steel in USA

IOtech Partners With King Steel to Provide Industry 4.0 Capabilities to Smart Manufacturing Products

Through its plug-and-play edge software platform, IOtech will deliver connectivity solutions and more to King Steel's Award-Winning Injection Moulding Machines NexCell®

IOtech, the edge software company, today announced it is partnering with King Steel Machinery Co., LTD to provide Industry 4.0 capabilities and connectivity to smart manufacturing equipment. King Steel selected IOtech's industrial edge software platform to deliver real-time data acquisition, data storage, data visualization and analytics for its award-winning NexCell® Injection Moulding Machines. IOtech Partners With King Steel to Provide Industry 4.0 Capabilities to Smart Manufacturing Products

Through its plug-and-play edge software platform, IOtech will deliver connectivity solutions and more to King Steel's Award-Winning Injection Moulding Machines NexCell®

October 12, 2022 09:00 AM Eastern Daylight Time EDINBURGH, Scotland--(BUSINESS WIRE)--IOtech, the edge software company, today announced it is partnering with King Steel Machinery Co., LTD to provide Industry 4.0 capabilities and connectivity to smart manufacturing equipment. King Steel selected IOtech's industrial edge software platform to deliver real-time data acquisition, data storage, data visualization and analytics for its award-winning NexCell® Injection Moulding Machines.

"We make it easy for our partners and customers to connect their equipment and manage their data regardless of the communication standards used. It provides them the ability to create future-proof solutions that can be easily evolved as needed."

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IOtech plug-and-play edge platform software allows users to create industrial applications that leverage the latest advances in AI, analytics and inferencing technologies. The edge platform enables easy data acquisition from an extensive range of industrial OT devices/sensors to efficiently act on the data. Transformed data or processing results can then either be sent to any SCADA or IT/Cloud endpoints for further processing/storage. Alternatively, commands can be sent back to the connected OT devices.

"We're pleased that King Steel selected IOtech's edge software to enable its Industrial 4.0 capable smart manufacturing offerings," said Keith Steele, CEO of IOtech. "We make it easy for our partners and customers

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News Update

to connect their equipment and manage their data regardless of the communication standards used. It provides them the ability to create future-proof solutions that can be easily evolved as needed.”

IOTech's advanced OT connectivity solutions provide simplified integration with a broad range of industrial devices and enable the acquisition of real-time machine data at very low latencies. Initially, King Steel requires integration with Modbus and Siemens S7 endpoints supported by the King Steel equipment. Normalized multi-device access is provided in form an Industry 4.0 data layer based on the OPC UA standard with support for both client/server and publish/subscribe communication models.

“It's our pleasure to partner with IOTech to provide Industry 4.0 capabilities to our customers,” said Jim Chen, General Manager of King Steel. “Through IOTech's edge computing solution, we are able to create an optimum product and service that brings significant value to our customers.”

King Steel will demonstrate its new NexCell Injection Moulding technology powered by IOTech edge software at the —K The World's No.1 Trade Fair for Plastics and Rubber. The event takes place in Düsseldorf, Germany, October 19-26. The King Steel booth and demo will be located at Hall 13 / B93. IOTech develops market leading open edge computing and management software products for the edge infrastructure market. Our software products are embedded into the edge solution offerings of major OEMs, ISVs and Systems Integrators. We are their solution of choice because we provide the capability to accelerate the development, deployment, and management at scale of edge applications within their customer base. Our growing list of channel partners includes Schneider Electric, Accenture, Johnson Controls, Mitsubishi Power, Intel, and more. We have established a strong reputation within the industrial edge ecosystem thanks to our early involvement and material contributions to EdgeX Foundry, the most widely used open-source edge software platform (10 million+ downloads).

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Used Mild Steel Plates are 'Waste and Scrap', attracts 15% Duty: CESTAT

On October 12, 2022 10:54 am The Customs, Excise and Service Tax Appellate Tribunal (CESTAT), Mumbai reclassified used Mild Steel Plates as 'waste and scrap' attracting 15% duty under against tariff item 7204 4900 in First Scheduled to Customs Tariff Act, 1975. The controversy in this appeal of M/s Rukuminirama Steel Rolling Pvt Ltd, a manufacturer of mild steel (MS) ingots and by-products thereto from mild steel (MS) scrap, pig iron and heavy melting scrap (HMS), is the determination of the appropriate rate of duty on 'used mild steel (MS) plates' imported upon procurement of these after the demolition of six 'petrochemical tanks' in the United Kingdom by M/s GK Middle East FZC. Customs authorities chose to classify the impugned goods against tariff item 7208 2510 of First Schedule to Customs Tariff Act, 1975 corresponding to products in prime condition instead of the declaration against tariff item 7204 4900 to 'waste and scrap' in First Scheduled to Customs Tariff Act, 1975.

The Counsel for the appellant submitted that in section XV of the First Schedule to Customs Tariff Act, 1975 would, save for controverting of their declaration by customs authorities on submission of their explanation of the origin of the impugned goods, mandate application of the rate of duty corresponding to tariff item 7204 4900 of First Schedule to Customs Tariff Act, 1975 and, particularly, eligibility for exemption afforded by notification no. 21/2002-Cus as claimed in the bills of entry. The Counsel for the Revenue, relying upon the report on examination of the goods, insisted that 'plates'



of 'a thickness of 4.75 mm or more.' within sub-heading 7208 25 of First Schedule to Customs Tariff Act, 1975, as held by the adjudicating authority, should prevail as more specific description of the form in which the goods were presented for import. A Division Bench consisting of Justice Dilip Gupta, President and CJ Mathew, Technical Member held that "Not only is the revised classification inappropriate but there is also no reason for the classification sought for in the bills of entry to be substituted in view of its appropriateness; the impugned goods have industrial significance only as 'waste and scrap' which is the feedstock for melting in furnaces. Consequently, the eligibility for the benefit of the exemption notification and not being subject to the restriction prescribed in the Foreign Trade Policy on the import of used goods is established." V M Doiphode appeared for the appellant and Ramesh Kumar, Assistant Commissioner (AR) appeared for the respondent

US HRC: Prices fall with scrap, low demand

US hot-rolled coil (HRC) prices declined at their sharpest rate since the end of August as falling scrap prices and weak demand weighed on the spot market. The Argus weekly domestic US HRC Midwest assessment fell by \$20.25/short ton (st) to \$755.75/st, while the southern assessment dropped by \$22.75/st to the same level. HRC lead times in the Midwest fell to 3-4 weeks from 4 weeks. Most offers were reported between \$720-760/st, with a



few up at \$780/st. Recent idlings of two blast furnaces by US Steel that will take off 731,000st of raw steel production in the fourth quarter have not generated a slowing in price declines nor improved sentiment among buyers, who all believe the

market is still oversupplied.

Prime scrap prices fell by \$30-40/gross ton (gt) in the October trade, with #1 busheling falling to a \$40/gt discount to shred.

Members of the United Steelworkers (USW) who represent steel employees at integrated steelmaker Cleveland-Cliffs are expected to have their votes tallied this week on a new contract agreement. USW leadership supports approval of the tentative agreement with Cliffs. US Steel and the USW are continuing to negotiate for a new contract to replace the one that expired on 1 September. It is unclear how a potential approval by Cliffs' USW membership would impact the negotiations between the union and US Steel.

The Argus HRC import assessment into Houston was flat at \$685/st ddp on no import offers.

The spread between #1 busheling scrap delivered US Midwest mills and HRC selling prices fell by 4.6pc to \$415/st.

A year ago the spread was \$1,421/st as HRC prices were hovering near record-high levels.

The Argus weekly domestic US cold-rolled coil (CRC) assessment was flat at \$1,000/st, while the hot dipped galvanized (HDG) coil assessment fell by \$24.25/st to \$1,022.50/st.

Lead times for CRC were down to 6-7 weeks from 7-8 weeks, while HDG lead times fell to 5-6 weeks from 6 weeks.

The CME HRC Midwest futures market was down by double digits in the last week, with the futures prices in backwardation through March. November prices fell by \$32/st to \$719/st, while December prices dropped by \$40/st to \$720/st. January prices were down by \$34/st to \$731/st, while February prices fell by \$28/st to \$742/st. March prices declined by \$30/st to \$750/st, and April prices were down by \$21/st to \$764/st.

Plate

The Argus weekly domestic US ex-works plate assessment was flat at \$1,620/st as steelmaker Nucor works to maintain current pricing levels.

The plate market has become increasingly tough for buyers, with

many continuing to reduce their purchases as prices are expected to remain under pressure as the spread with HRC remains near historic highs.

Lead times were down to 4 weeks from 4-5 weeks.



India Auto sales rise in September aided by Festive Season

As per the SIAM of Data Indian Car sales rose 91% year-on-year to 3,07,389 units in September, while two-wheeler sales increased 12.8% to 17.35 lakh units.

The dispatches of passenger vehicles rose 91% year-on-year to 3,07,389 units in September, according to data from Society of Indian Automobile Manufacturers. The segment including passenger cars, utility vehicles, and vans witnessed growth across all categories. Sales of two-wheelers increased 12.8% year-on-year to 17.35 lakh units in the month. The industry also increased production in September 2022.

SIAM has released the sales report of UVs for the month of September 2022. In September 2022 Indian manufacturers managed to sell a total of 171,745 units of utility passenger vehicles. This indicates growth in total sales in the domestic market by 65,950 units which translates to 62.33 percent year-on-year growth. The sales figures for total utility passenger vehicles sold by Indian manufacturers for September 2021 stood at 1,05,795 units.

The Indian automotive market has been struggling quite a bit since the pandemic began but 2022 is turning out to be the breakthrough year for auto manufacturers in India. The monthly sales and export reports in 2022 have been

positive for most manufacturers and despite the supply constraints the numbers are returning to the pre-pandemic levels. The overall picture of the Indian automotive manufacturers is painted in promising colours with waiting periods on the majority of products in the market. This will ensure steady numbers in the upcoming months as well.

Commenting on Quarterly sales data, Mr Vinod Aggarwal, President, SIAM said, "There is an improvement seen across the segments in Q2 of 2022-23, compared to the previous year. We are hopeful that the Industry will do well in the month of October, which has two major festivals of Dussehra and Diwali. Recent increase in the prices of CNG Fuel, higher Repo Rates and the Russia-Ukraine conflict are of concern and could impact the market in the coming months."

Commenting on Industry performance, Mr Rajesh Menon, Director General, SIAM said, "September month has been generally good for industry, as the Passenger Vehicle segment has recorded the highest ever sales in H1 and the Commercial Vehicle segment has started showing trends of better market demand. Off-take of entry level Two-Wheelers and entry level Passenger Vehicles have been of concern especially as the rural demand has not picked up."

SIAM						
Summary Report: Cumulative Production, Domestic Sales & Exports data for the period of July-September 2022						
(Number of Vehicles)						
Category Segment/Subsegment	Production		Domestic Sales		Exports	
	July-September		July-September		July-September	
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23
Passenger Vehicles (PVs)*						
Passenger Cars	426,229	579,574	343,939	468,513	102,890	97,300
Utility Vehicles (UVs)	422,841	593,905	367,599	517,898	54,364	63,016
Vans	29,856	40,223	29,904	39,898	297	274
Total Passenger Vehicles (PVs)	878,926	1,213,702	741,442	1,026,309	157,551	160,590
Commercial Vehicles (CVs)**						
M&HCVs						
Passenger Carrier	2,393	8,149	1,741	7,651	1,239	2,148
Goods Carrier	54,827	73,921	51,740	71,999	6,380	3,722
Total M&HCVs	57,220	82,070	53,481	79,650	7,619	5,870
LCVs						
Passenger Carrier	5,087	10,803	5,186	10,595	597	628
Goods Carrier	122,196	158,345	107,584	141,635	14,651	15,984
Total LCVs	127,283	169,148	112,770	152,230	15,248	16,612
Total Commercial Vehicles (CVs)	184,503	251,218	166,251	231,880	22,867	22,482
Three Wheelers						
Passenger Carrier	162,737	206,514	45,124	90,895	118,966	113,895
Goods Carrier	25,728	22,984	23,405	21,647	1,464	994
E-Rickshaw	2,395	7,005	2,307	6,859	-	-
E-Cart	98	906	93	918	-	-
Total Three Wheelers	190,958	237,409	70,929	120,319	120,430	114,889
Two Wheelers						
Scooter/ Scooterette	1,493,580	1,705,698	1,361,758	1,556,224	95,356	130,849
Motorcycle/Step-Throughs	3,574,228	3,829,175	2,611,176	3,001,489	1,010,909	824,196
Mopeds	176,056	115,339	163,550	116,218	1,894	1,206
Total Two Wheelers	5,243,864	5,650,212	4,136,484	4,673,931	1,108,159	956,251
Quadricycle	1,369	498	6	189	1,704	348
Grand Total	6,499,620	7,353,039	5,115,112	6,052,628	1,410,711	1,254,560
* BMW, Mercedes and Volvo Auto data is not available						
** Daimler, JBM & Scania data is not available						
Society of Indian Automobile Manufacturers (13/10/2022)						

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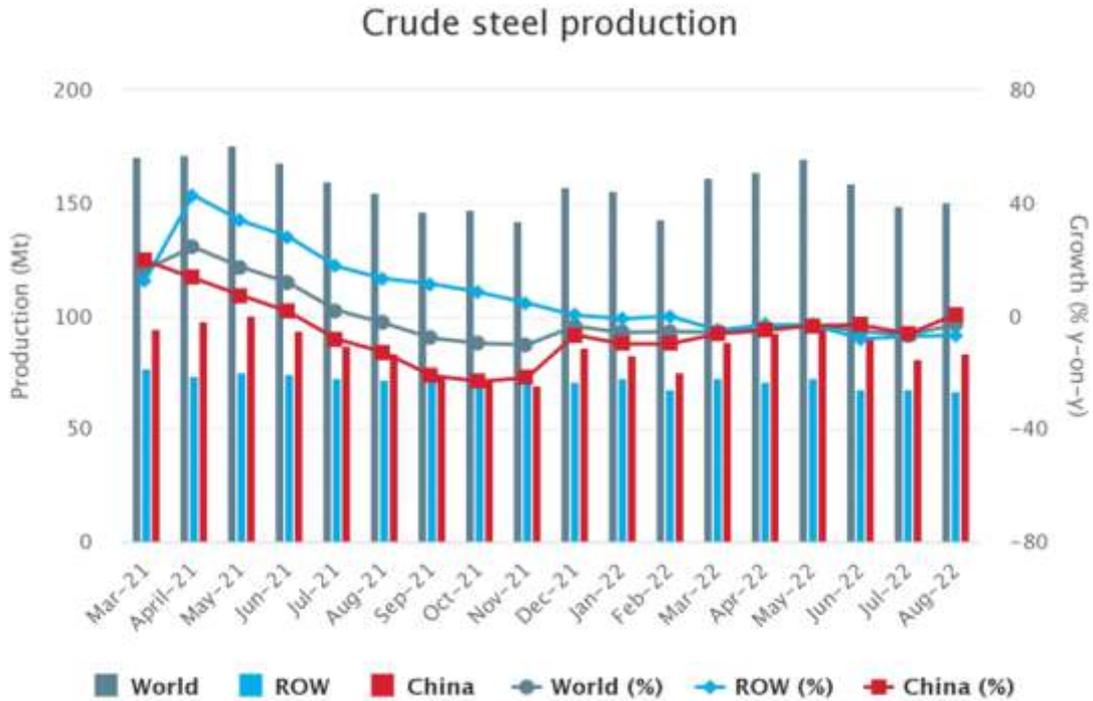
<i>SIAM</i>							
Summary Report: Cumulative Production, Domestic Sales & Exports data for the period of April-September 2022							
							Report I
							(Number of Vehicles)
Category Segment/Subsegment	Production		Domestic Sales		Exports		
	April-September		April-September		April-September		
	2021-22	2022-23	2021-22	2022-23	2021-22	2022-23	
Passenger Vehicles (PVs)*							
Passenger Cars	861,847	1,090,400	681,130	879,954	182,249	201,700	
Utility Vehicles (UVs)	763,694	1,111,294	653,691	982,456	101,500	118,563	
Vans	54,044	74,707	52,893	74,330	885	590	
Total Passenger Vehicles (PVs)	1,679,585	2,276,401	1,387,714	1,936,740	284,634	320,853	
Commercial Vehicles (CVs)**							
M&HCVs							
Passenger Carrier	4,656	16,880	2,827	15,358	2,159	4,371	
Goods Carrier	94,222	154,145	79,812	139,977	11,462	7,455	
Total M&HCVs	98,878	171,025	82,639	155,335	13,621	11,826	
LCVs							
Passenger Carrier	9,999	22,297	9,483	22,185	807	902	
Goods Carrier	212,552	315,065	179,929	278,679	24,445	29,231	
Total LCVs	222,551	337,362	189,412	300,864	25,252	30,133	
Total Commercial Vehicles (CVs)	321,429	508,387	272,051	456,199	38,873	41,959	
Three Wheelers							
Passenger Carrier	312,045	351,060	60,286	141,558	253,358	209,933	
Goods Carrier	38,137	46,244	32,066	42,997	4,654	2,193	
E-Rickshaw	2,768	10,155	2,950	10,426	-	-	
E-Cart	155	1,639	149	1,631	-	-	
Total Three Wheelers	353,105	409,098	95,451	196,612	258,012	212,126	
Two Wheelers							
Scooter/ Scooterettee	2,198,839	2,982,171	1,966,049	2,764,127	185,574	227,624	
Motorcycle/Step-Throughs	6,297,573	7,280,021	4,351,484	5,406,717	2,052,898	1,875,673	
Mopeds	239,542	222,445	232,559	227,620	6,862	1,548	
Total Two Wheelers	8,735,954	10,484,637	6,550,092	8,398,464	2,245,334	2,104,845	
Quadricycle	3,017	999	6	290	3,329	744	
Grand Total	11,093,090	13,679,522	8,305,314	10,988,305	2,830,182	2,680,527	
* BMW, Mercedes and Volvo Auto data is not available							
** Daimler, JBM & Scania data is not available							
Society of Indian Automobile Manufacturers (13/10/2022)							

<i>SIAM</i>							
Segment wise Comparative Production, Domestic Sales & Exports data for the month of September 2022							
							(Number of Vehicles)
Category Segment/Subsegment	Production		Domestic Sales		Exports		
	September		September		September		
	2021	2022	2021	2022	2021	2022	
Passenger Vehicles (PVs)*							
Passenger Cars	87,296	186,722	64,235	142,727	35,508	31,207	
Utility Vehicles (UVs)	102,546	172,346	87,862	151,759	17,933	19,986	
Vans	8,106	13,058	8,115	12,903	145	30	
Total Passenger Vehicles (PVs)	197,948	372,126	160,212	307,389	53,586	51,223	
Three Wheelers							
Passenger Carrier	56,963	75,974	19,168	39,363	38,020	32,291	
Goods Carrier	8,992	8,915	8,800	7,977	498	351	
E-Rickshaw	1,236	2,941	1,195	2,950	-	-	
E-Cart	35	339	28	336	-	-	
Total Three Wheelers	67,226	88,169	29,191	50,626	38,518	32,642	
Two Wheelers							
Scooter/ Scooterettee	564,535	600,941	527,779	572,919	27,182	34,780	
Motorcycle/Step-Throughs	1,238,877	1,375,090	948,161	1,114,667	330,736	259,843	
Mopeds	65,294	42,748	61,664	47,613	710	438	
Total Two Wheelers	1,868,706	2,018,779	1,537,604	1,735,199	358,628	295,061	
Quadricycle	432	182	1	72	534	102	
Grand Total	2,134,312	2,479,256	1,727,008	2,093,286	451,266	379,028	
* BMW, Mercedes, Tata Motors and Volvo Auto data is not available							
Society of Indian Automobile Manufacturers (13/10/2022)							



Global steel production increase to 150,6 MT in August 2022, 3 % rise Aug 2021

World crude steel production for the 64 countries reporting to the World Steel Association (worldsteel) was 150.6 million tonnes (Mt) in August 2022, a 3.0% decrease compared to August 2021.



worldsteel.org

Crude steel production by region Africa produced 1.3 Mt in August 2022, up 3.5% on August 2021. Asia and Oceania produced 112.6 Mt, down 0.2%. The EU (27) produced 9.7 Mt, down 13.3%. Europe, Other produced 3.6 Mt, down 18.6%. The Middle East produced 3.2 Mt, up 34.2%. North America produced 9.6 Mt, down 5.4%. Russia & other CIS + Ukraine produced 6.9 Mt, down 22.4%. South America produced 3.6 Mt, down 10.1%.

Table 1. Crude steel production by region

	Aug 2022 (Mt)	% change Aug 22/21	Jan-Aug 2022 (Mt)	% change Jan-Aug 22/21
Africa	1.3	3.5	9.7	-7.4
Asia and Oceania	112.6	-0.2	925.1	-4.3
EU (27)	9.7	-13.3	95.3	-6.9
Europe, Other	3.6	-18.6	31.0	-8.4
Middle East	3.2	34.2	28.5	6.9
North America	9.6	-5.4	76.0	-3.6
Russia & other CIS + Ukraine	6.9	-22.4	59.1	-18.2
South America	3.6	-10.1	29.2	-4.1
Total 64 countries	150.6	-3.0	1,253.9	-5.1

The 64 countries included in this table accounted for approximately 98% of total world crude steel production in 2021. Regions and countries covered by the table:

- Africa: Egypt, Libya, South Africa
- Asia and Oceania: Australia, China, India, Japan, New Zealand, Pakistan, South Korea, Taiwan (China), Vietnam
- European Union (27)
- Europe, Other: Bosnia-Herzegovina, Macedonia, Norway, Serbia, Turkey, United Kingdom
- Middle East: Iran, Qatar, Saudi Arabia, United Arab Emirates
- North America: Canada, Cuba, El Salvador, Guatemala, Mexico, United States
- Russia & other CIS + Ukraine: Belarus, Kazakhstan, Moldova, Russia, Ukraine, Uzbekistan
- South America: Argentina, Brazil, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela



Top 10 steel-producing countries

China produced 83.9 Mt in August 2022, up 0.5% on August 2021. India produced 10.2 Mt, up 1.2%. Japan produced 7.3 Mt, down 7.4%. The United States produced 7.0 Mt, down 7.1%. Russia is estimated to have produced 5.9 Mt, down 5.5%. South Korea is estimated to have produced 6.1 Mt, down 0.4%. Germany produced 2.9 Mt, down 2.3%. Türkiye produced 2.8 Mt, down 21.0%. Brazil produced 2.8 Mt, down 11.3%. Iran produced 2.1 Mt, up 64.7%.

Table 2. Top 10 steel -producing countries

	Aug 2022 (Mt)	% change Aug 22/21	Jan-Aug 2022 (Mt)	% change Jan-Aug 22/21
China	83.9	0.5	693.2	-5.7
India	10.2	1.2	83.5	7.1
Japan	7.3	-7.4	60.7	-5.2
United States	7.0	-7.1	54.9	-3.7
Russia	5.9 e	-5.5	48.9	-5.8
South Korea	6.1 e	-0.4	46.0	-3.0
Germany	2.9	-2.3	25.4	-4.8
~	2.8	-21.0	24.4	-8.8
Brazil	2.8	-11.3	23.1	-4.5
Iran	2.1	64.7	19.5	7.8



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Scrap processing equipment by Birim Makina, Turkey is leading the way in the global scrap metal recycling industry

Birim Makina is a company specialised in the manufacturing of scrap processing equipment and customised machinery to fully meet all requirement of the recycling industry.

Electrotherm is representing Birim Makina in India and other Asian Countries for sale, engineering, erection and commissioning, service and spares of scrap processing equipment. The range of machines includes Metal Scrap Shears, Metal Scrap Balers, Material Handling Cranes (Mobile and Stationary) and Shredders and Briquetting Presses.



Piranha

Piranha

- Capacity is 6-60 tons / hour according to models.

Shark

- Capacity is 8-30 tons / hour in cutting and 10-35 tons / hour in baling.

Features

- Presses heavy and light scrap before cutting and increases its density.
- Then it performs cutting process in desired lengths automatically and continuously.
- Short stroke program (line up to scrap thickness) available for shorter cycle time
- Remote modem diagnosis and repair system for fast service
- Special oil filtration system for smooth operation
- Automatic lubrication



Shark



Engineering & Technologies

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