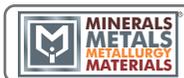


*News and Views...*

September 17, 2020



**GRAND BUSINESS CARNIVAL FOR METAL, MACHINERY AND MANUFACTURING INDUSTRIES**



**17-18-19 DECEMBER, 2020**  
Pragati Maidan, New Delhi, India

## INDUSTRY NEWS



### **Covid vaccine likely by early 2021, will be happy to take first shot to address trust deficit: Harsh Vardhan**

The coronavirus vaccine might be ready by the first quarter of 2021, Union health and family welfare minister Harsh Vardhan said on Sunday. "While no date has been fixed for the vaccine launch, it may be ready by the first quarter of 2021, he said. Harsh Vardhan also said that the government is considering emergency authorization of COVID 19 vaccinations to senior citizens and people working in high-risk settings. "This shall be done after a consensus has been reached," he added. The National Expert Group on Vaccine Administration for Covid-19 is drawing up a detailed strategy on how to immunise the majority of the population, he said during the 'Sunday Samvad' programme where he interacted with his social media followers and answered their questions.

The Health Minister also assured that the government is taking full precautions in conducting the human trials of the vaccine.

"Issues like vaccine security, cost, equity, cold-chain requirements, production timelines, etc, are also being discussed intensely," he said. He assured the vaccine would be first made

available to those who need it the most, irrespective of their paying capacity.

Harsh Vardhan also said he would be happy to take the first dosage of the vaccine if some people have a trust deficit. His statement came in the wake of an incident in the UK where one of the participants in the ongoing trial of the University of Oxford's vaccine candidate developed a severe complication right after being administered its dose. The Minister also informed about vaccine candidates and their development in India.

"Department of Bio-Technology (DBT), as well as the Indian Council of Medical Research (ICMR), have been pro-active in responding to the emerging situation to support the advancement of vaccine candidates. India is actively partnering with the Coalition for Epidemic Preparedness Innovations (CEPI), and trials at different phases are ongoing with respect to several vaccines in Indian laboratories (private or public) and hospitals," he said. The minister also noted that a safe and effective vaccine will help in establishing immunity to Covid-19 at much faster pace as compared to natural infection. It is hoped that a consensus will emerge in the next few months over the desired level of protective herd immunity in any community, he said.

*- The Times of India*

### **India has been able to limit COVID-19 deaths to 55 per million population: Harsh Vardhan**

Owing to the nationwide efforts the COVID-19 related deaths have been limited to 55 per million population, said Union Health

Minister Dr Harsh Vardhan on Monday.

Speaking in the Lok Sabha, the Union Minister also said that the cases per million population in the country have also been limited to 3,328 in the country.

"With our endeavour to manage COVID-19, India has been able to limit its cases and deaths to 3,328 cases and 55 deaths per million population respectively, which is one of the lowest in the world as compared to similarly affected countries," the Minister said.

"Maximum cases and deaths primarily reported from Maharashtra, Andhra Pradesh, Tamil Nadu, Karnataka, Uttar Pradesh, Delhi, West Bengal, Bihar, Telangana, Odisha, Assam, Kerala and Gujarat. All these reported more than 1 lakh cases," he added.

The Health Minister also informed Parliament about the COVID-19 situation in the country.

"77,512 recoveries registered in the last 24 hours in India taking the total number of recoveries to 37,80,107 and recovery rate to 78%. More than 60% of active cases are concentrated in 5 states- Maharashtra, Karnataka, Andhra Pradesh, Uttar Pradesh and Tamil Nadu," he said.

As per the Ministry today, the number of active cases in the country stands at 9,86,598. The toll due to COVID-19 stands at 79,722 in the country as of today.

The Monsoon session 2020 of Parliament commenced today.

This will be the first Parliament session being held amid the COVID-19 pandemic. All safety measures have been initiated to conduct the session as per health guidelines amid COVID-19.

*-LiveMint*



### Events industry body proposes SOPs for re-opening events

The events industry, one of the worst hit sectors due the pandemic has asked the central government to reconsider the cap of 100 people even as the government recently announced that political, religious, and other corporate events will be allowed starting September 21st.

In the wake of opening up of the industry, the Events and Entertainment Management Association (EEMA) representatives have shared a set of standard operating procedures (SOPs) with the government, highlighting their readiness for conducting events as well as the importance of the sector in kick-starting the economic engine. "We were generating Rs 5 lakh crore, out of which Rs 1.7 lakh crore was from the organised sector and remaining Rs 3.3 lakh crore was from the unorganised sector. But more than that, we are probably the only industry which is adding to the happiness index of the country. What value will you assign to it?" asked Lalit Gattani, chairman of EEMA

Government Interaction Committee and CEO, Showcraft Productions.

The events industry, which had come to a standstill due to the Covid-19 related restrictions has already lost around Rs 40,000 crore as per various estimates. In all over 10 million people have been directly affected due to the crisis and are losing jobs and livelihood. Gattani said that EEMA formed a task force with experts of various domains and come up with detailed SOPs.

"We have already presented the SOPs to the minister of state for Home Affairs, Nityanand Rai and have urged him to present it to the government task force. We have also requested meeting with the task force to present our points," he added.

On the cap of 100 people, Gattani said that EEMA requests the government to keep it open based on the size of the venue on a 4 square metres per person formula.

"Instead of putting a ceiling, we suggest let's make it as per area available for the venue. We will still adhere to all the protocols," said Gattani. Talking about the industry, Gattani said that it has 30% women employees out of 10 million and average age of the employees is 35 years, while that of business owners is 45 years.

"The industry was growing at a 23% rate till Covid019 hit," he said.

The events industry encapsulates all kinds of events including M.I.C.E (meetings-incentives-convention-exhibition), political events, religious events, weddings as well as entertainment-based events like live concerts, sports meets and award ceremonies.

**- The Economic Times**



## German Organisers Power Up for Worldwide Trade Fair Programme in 2021

The German exhibition organisers are planning around 360 foreign trade fairs in around 40 countries next year. This is the result of a survey conducted by AUMA – Association of the German Trade Fair Industry among the organisers of foreign trade fairs who are members of AUMA and the Special Association for Fairs and Exhibitions (FAMA). The German exhibition organisers are planning around 360 foreign trade fairs in around 40 countries next year. This is the result of a survey conducted by AUMA – Association of the German Trade Fair Industry among the organisers of foreign trade fairs who are members of AUMA and the Special Association for Fairs and Exhibitions (FAMA).

These exhibitions were geared to the standards of leading international trade fairs in Germany. Accordingly, they are summarised by AUMA under the seal “German Trade Fair Quality Abroad (GTQ)”. For 2020, 375 foreign trade fairs were originally registered; due to the corona pandemic, 107 trade fairs were rescheduled and 49 were cancelled.

The foreign trade fairs in 2019 went remarkably well. German exhibition companies organised a total of 330 trade fairs outside Germany in 2019, more than ever before. Compared to their respective previous events, the number of exhibitors increased by 2.4%. The number of visitors exceeded the nine million mark for the second time since 2017.

A comparison with the respective previous events shows a 5.8 % increase in visitor numbers. Among the five events with the highest number of visitors were four automotive exhibitions and one trade fair for production automation. With the exception of one automotive exhibition in Korea, the shows were

held in China. As Germany’s most important foreign trade partner, China will remain the most important target market for German organisers from the AUMA and FAMA membership in 2021. Last year, 90 trade fairs were organised there. That is a share of 27% of all foreign trade fairs of German organisers. Thirteen of the eighteen organisers held trade fairs in China in 2019. The four fairs with the largest number of exhibitors were also held there.

### – Exhibition Showcase



## Oxford COVID-19 vaccine: Serum Institute to resume trial in India after DCGI's nod

After AstraZeneca resumed Oxford University coronavirus vaccine trial in the United Kingdom, Serum Institute of India on Saturday said that they will restart the trial in the country once the apex drug regulator allows. Commenting on the resumption of trial, Adar Poonawalla, the chief executive officer of Serum Institute of India said, "We should not jump to conclusions until the trials are fully concluded."

AstraZeneca paused its trials late Tuesday after observing “a single event of an unexplained illness that occurred in the UK phase III trial”. Later, Pune-based drug maker

suspended the clinical trials of Oxford COVID-19 vaccine in the country. The vaccine maker took the decision based on instructions from the Drug Controller General of India (DCGI) V.G. Somani. On Wednesday, the central drug regulator issued a show-cause notice to the company, asking it to explain why it was not informed about AstraZeneca pausing the clinical trial of the Oxford coronavirus vaccine candidate.

Commenting on the resumption of trial in India, Poonawalla said, "The recent chain of events are a clear example why we should not bias the process and should respect the process till the end."

Oxford University said in a statement that the UK regulator had recommended that the trials resume after an independent review of the safety data. "The UK committee has concluded its investigations and recommended to the MHRA that trials in the UK are safe to resume," said the AstraZeneca.

AstraZeneca's pause of an experimental vaccine for the coronavirus after the illness of a participant is a "wake-up call" but should not discourage researchers, the World Health Organization's (WHO) chief scientist earlier said. "This is a wake-up call to recognise that there are ups and downs in clinical development and that we have to be prepared," Soumya Swaminathan told.

Serum Institute of India partnered with AstraZeneca to manufacture the Oxford COVID-19 vaccine candidate for low-and-middle income countries. Pune-based vaccine maker earlier shortlisted 17 sites in India for the Phase II clinical trial of COVID-19 vaccine. At least 1,600 candidates aged between 18 to 55, will participate in the trial.

– Live Mint



### **Govt seeks Parliament nod to infuse ₹20,000 crore in public sector banks**

The union finance ministry on Monday sought Parliament's approval to infuse 20,000 crore into public sector banks (PSBs). The step assumes significance as capital infusion will provide support to state-owned lenders as the deepening covid-19 crisis that has put borrowers under pressure, increasing the threat of higher non-performing assets (NPAs).

Finance minister Nirmala Sitharaman on Monday tabled the first batch of supplementary demand for grants in the Parliament, which reflects the additional expenses sought by various ministries over and above the amount allocated in the Budget. It also indicates the spending appetite of the government.

"For meeting expenditure towards recapitalization of public sector banks through issue of government securities— 20,000 crore," according to the supplementary demand for grants document.

Capital infusion through government issue of

bonds will not impact fiscal deficit in the current financial year as there is no cash outgo. The union finance ministry on Monday sought Parliament's approval to infuse 20,000 crore into public sector banks (PSBs).

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"For meeting expenditure towards recapitalization of public sector banks through issue of government securities— 20,000 crore," according to the supplementary demand for grants document. Capital infusion through government issue of bonds will not impact fiscal deficit in the current financial year as there is no cash outgo. The central bank had also called for capital infusion into banks to help them deal with the concerns of rising bad loans and capital erosion of banks.

"Going forward, there are certain stress

points in the financial system, which would require constant regulatory and policy attention to mitigate the risks. The economic impact of the pandemic - due to lock-down and anticipated post lock-down compression in economic growth - may result in higher non-performing assets and capital erosion of banks. A recapitalization plan for PSBs and private banks (PVBs) has, therefore, become necessary," Reserve Bank of India Governor Shaktikanta Das had said in July.

The RBI had also said that bad loans are expected to rise to a 20-year high to 12.5% of total advances by March 2021 and had warned that if the economic conditions worsen further, this may soar to 14.7% under the very severely stressed scenario.

**- LiveMint**



Hyve India Pvt Ltd has come up with a weekly e news alert program - '**Market News & Views**'

This program will cover Industry Updates, Launch of New Technologies, Partnership Opportunities, Industry Views & CSR activities. The purpose of this program is to keep customers up to date with developments in the Industry.

## INDUSTRY UPDATES



### Tata Steel production back at 100 pc capacity, says T V Narendran

Tata Steel's production level has now recovered to 100 per cent as the company sees a revival in domestic demand in the current quarter led by a good monsoon and rural economy, its CEO and Managing Director T V Narendran has said. The company is now less dependent on exports compared to the first quarter, he added.

The COVID-19 outbreak in India, followed by the national lockdown, impacted the steel industry severely. It disrupted the supply chain and impacted the demand as well as production.

Due to the market conditions, steel makers like Tata Steel NSE 1.04 % were forced to cut down their operations by up to 50 per cent in April. The players also had to turn to exports to find markets for their produce. However, with

the relaxation of lockdown norms, the company ramped up its production in a phased manner.

"Production is running at 100 per cent and we are now less dependent on exports than we were in Q1 (April-June)," Narendran told .

Tata Steel's overall India operational capacity (including Tata Steel BSL and Tata Steel Long Products NSE 1.27 %) is 20.6 million tonnes per annum (MTPA). In the first quarter of 2020-21, Tata Steel India produced 2.99 million tonnes of crude steel while sales stood at 2.92 million tonnes.

"We are seeing a revival in demand in Q2 led by good monsoon and the rural economy. While the auto recovery has been led by the demand for tractors and motorcycles, we are now seeing the passenger car business pick up as well. It has also been a strong quarter for appliances," he said.

The other area where Tata Steel is seeing demand is where the government is spending including the oil and gas sector, water conveyance systems and railways. Construction is still a bit slow but the monsoon quarter has traditionally been the weakest quarter for construction, Narendran said.

In the international markets, the V-shaped recovery in China and also the country's transition from being a net exporter of steel to a net importer has changed the demand-supply dynamics in the region, he added.

To counter the closure of the Indian markets in April and May, Tata Steel had

ramped up exports significantly by tapping new markets and improving the supply chain capability and export constituted around 50 per cent of total sales volume in April-June 2020-21. Tata Steel has reported losses in the past two quarters.

During April-June of 2020-21 fiscal, the company reported a consolidated loss of Rs 4,648.13 crore. During the fourth quarter of 2019-20, the company had posted a loss of Rs 1,615.35 crore.

When asked about the markets where the company sees growth coming from, Narendran said, "The India business has always been EBITDA positive and cash positive. Hence, over the last few years, we have grown organically and inorganically in India. "Given our long value chain from mining to downstream and the growth opportunities in India, we expect the India business to be one of the most profitable in the steel industry globally."

*- The Economic Times*



## JSW Steel rolls out anti-microbial colour-coated steel range, plans to double capacity by Q3

Amid rising demand for anti-bacterial range of products, JSW Steel NSE 1.31 % has rolled out a new product segment, JSW Radiance, colour-coated steel and coils with properties like anti-microbial & anti-dust.

Increased consumer awareness of health and wellness-consciousness is fuelling industries to make a shift in their focus on product development. These shifts are visible in Urban as well as Rural markets,” said Jayant Acharya, director of marketing, commercial & corporate strategy at JSW Steel.

The company is also expanding its capacity in the next two-three months for production of JSW Radiance product range. “We will be adding three more lines for colour coated range. Right now the capacity is around 0.7 million tonnes, we will be doubling it in a couple of months this year,” Acharya told ET.

JSW Radiance is a steel color-coated product with properties like anti-microbial, anti-graffiti, anti-dust, anti-static & cool Roof system. The range is suitable for diverse applications ranging from warehousing, appliances, cold storage and hospitals.

The anti-microbial coating provides health security by inhibiting the growth of harmful bacteria in a cost-effective way throughout the product’s service life, the company has said in a statement.

“The product can also be used in appliances. With work from home being a new normal, we see appliance demand too going up substantially. Pre-engineered building

demand is also moving up, which uses a lot of colour coated range of products,” Acharya told ET. The company has already started receiving enquiries on the new product range and in the last two months the company has seen a substantial demand picking up in the colour coated range. “In general, the order book for colour products is looking much better. With the launch of the JSW Radiance we expect the demand to further go up as we are able to cater to a more specific demand. Probably we expect around 15% growth in colour coated products,” Acharya said.

– *The Economic Times*

## New replaceable drill tip saves tooling costs and eliminates process steps

Kennametal has expanded its replaceable drill offering for KenTIP FS modular drill series with the new FEG insert for flat bottom hole applications. Applicable in steel, cast iron, and stainless steels, the FEG insert eliminates end milling operations and completes a task in a single operation, saving time and tooling costs.

Drilling flat-bottom holes is a challenge. So is drilling on inclined or curved surfaces, drilling into cross holes, drilling stacked plates, and drilling into cross holes, stacked plates and castings and other rough surfaces. Not anymore. Leveraging the success of its KenTIP FS modular drill,

Kennametal has developed a unique insert geometry (FEG) that streamlines many of these types

of applications and simplifies the drilling of counterbores and pilot holes as well.

“The FEG insert is so versatile, you can use it for nearly all your drilling applications”, says Georg

Roth, Kennametal’s Global Product Manager of Holemaking for Modular Drilling Tools.

Conceptually, the FEG geometry design is simple. It features a 180° cutting edge, and a conical

center point, which acts as a pilot to provide exceptional hole position and straightness.

Corner

chamfers serve to protect the cutting edges and reduce exits burrs. Four margin lands provide

stability when breaking into interrupted cuts and cross-holes. And Kennametal’s KCP15A grade

uses a nano-structured AlTiN coating and fine grain carbide substrate, providing both toughness

and wear resistance when drilling steel, stainless steel, and cast iron.

– *Manufacturing Machinery World*





## ArcelorMittal, Dastur set to research on solution for carbon capture

ArcelorMittal, the world's leading steel maker, and India-based consultant Dastur Energy and MN Dastur & Co is set to do research on an industrial-scale solution for carbon capture from blast furnace-based steel making operations, likely helping transform the way steel is produced.

The steelmaker is set to receive the US Department of Energy (DOE)'s funding for the same, ArcelorMittal announced in a social media post.

"Together with Dastur Energy, MN Dastur & Co and ION Clean Energy, we will research an

industrial-scale solution for carbon capture from our blast furnace-based steelmaking operations. This FEED study, a crucial first step, will work on designing a carbon capture system capable of capturing 50-70% of CO<sub>2</sub> emissions from blast furnace gas," ArcelorMittal said. The research will be conducted from ArcelorMittal's operations at its Burns Harbor plant in Indiana. The research would help identify available technology to enable competitive, environmentally friendly, sustainable blast furnace based processes for making low carbon emissions steel," the company said. DOE announced nearly \$72 million federal funding to support the development and advancement of carbon capture technologies and ArcelorMittal is said to be the only steel maker to receive a part of the funding.

"Apart from the US, this project has significant bearing on enabling low emissions steel production in India, the second largest steel producer in the world, with the blast furnace route being the primary route of steel production," said Atanu Mukherjee, chief executive of MN Dastur & Co.

Dastur Energy is a part of MN Dastur group. "At 300 mt per annum of future production, Indian steel will emit close to half a billion tons of carbon dioxide per year primarily through the blast furnace route," Mukherjee said.

This means ArcelorMittal can take advantage of carbon tax credits to offset their taxes in profit. This can improve the

company's competitiveness while reducing the carbon footprint.

A carbon capture unit of the scale of 1.5 mtpa costs about \$300-400 million.

"This is probably the first industrial scale application of low emissions steel production through blast furnaces using an innovative low carbon fuel conversion and carbon capture scheme which probably has the lowest cost of conversion and capture," Mukherjee said.

*– Iron & Steel Review*



## DMG MORI announces positive results in the first half year 2020

The corona pandemic continues to impact the overall economic situation and is causing a strong decline in the global demand for machine tools. Also DMG MORI has not been able to avoid its consequences: order intake, sales revenues and earnings in the first six months of 2020 were significantly below the high figures of the previous year. Order intake reached € 784.0 million (previous year: € 1,412.3 million). Sales revenues were € 838.0 million (previous year: € 1,276.4 million). Despite the difficult market and economic conditions, the results of operations were positive: EBIT amounted to € 33.2 million (previous year: € 103.4 million). The EBIT margin was 4.0% (previous year: 8.1%).

Demand for machine tools declined significantly, due in particular to the corona pandemic. In the second quarter of 2020, and under severely difficult market and business conditions, DMG MORI recorded order intake of € 343.8 million (-51%; previous year: € 704.0 million). The previous year's figure includes orders from the Energy Solutions division, which was divested in 2019. The adjusted, comparable order intake for 2019 amounted to € 595.1 million. Thus order intake fell in the core business with machine tools and services in the second quarter of 2020 by -42%. In the first half year we achieved order intake of € 784.0 million (-44%; previous year: € 1,412.3 million).

Adjusted for Energy Solutions, order intake amounted to € 1,280.8 million in the previous

year. This corresponds to a decrease of -39%. Domestic orders were € 220.5 million (previous year: € 402.9 million).

International orders amounted to € 563.5 million (previous year: € 1,009.4 million). Thus the share of international orders amounted to 72% (previous year: 71%).

Christian Thönes, Chairman of the Executive Board said: "Due to the corona crisis, our customers are speeding up the transition to the digital factory. This strengthens our intention to further expand our future fields of Automation, Digitization and Additive Manufacturing. Investing in innovations, and especially in digitization, is the only way out of the crisis. The economic situation is and remains challenging. But we are well positioned and will continue to have positive results."

**- Machine Tools World**



## INDUSTRY SPEAK



**L N Gupta**  
Director  
Powertex Tool Company Pvt. Ltd.

Due to outbreak of COVID 19, there is lockdown in the entire country. Everyone is talking about slowdown in economy due to reduction in demand, lower income level, job cut and falling GDP figures. There is lot of uncertainties in how business can survive, impact of unknown information. So now the thing is that we cannot loose hope, hope is being able to see that there is light despite of all darkness as star cannot shine without darkness. So what I see is that there is lot of opportunities that will be coming up in the future in the tool industry because government has also launched Atmanirbhar Bharat, so many industries will be coming up like we have seen the marco polar industry has been set up in Chennai so that will increase a lot of demand for tool because tools are basic requirement for everything. And also what I think is after post pandemic, we have to pay attention to our cash flow and fixed overhead, control of the cost and also

the credit limit and also customer has to pay attention to the policies. People are working on low margins, however, low margins should not be maintained at this moment. If the businessman maintains healthy profit, they can survive in the market. We also have to maintain our employees in good and stable manner and at the same time we have to look after safety of health of our employees.

So we have a lot of opportunities in the future which can help grow the tool Industries and I see that after COVID sales will grow and it will be same as before.



## MEDIA SPEAK



### **Modern metrology – the unsung hero behind manufacturing processes**

Inability of traditional measurement products to analyse complex geometries will be a key factor driving the global metrology services market in the days to come. Tools of metrology need to be integrated into manufacturing processes to ensure their availability on the factory floor, thus driving the demand for the metrology service providers and leading to market growth. It is also necessary that OEMs have extensive control over the manufacturing process as well as the expertise to precisely measure components using modern metrology. Research analysts have predicted that

metrology services market will register a CAGR of almost seven per cent by 2023.

There has been an increase in demand for accurate parts to be delivered on tight schedules. In order to keep pace, technology is continually advancing, enabling manufacturers to do more in the same time. Add competitive global market pressure, and the need for efficiency is more important than ever. To sustain profitability, companies need to keep up with market demands, while maintaining production quality. Let's take a closer look at the roles of metrology in the manufacturing process.

One of the main challenges of quality control (QC) is the balance between staying within production tolerance limits and keeping lead times down. Very often one single component has many features that need to be kept within tight manufacturing tolerance limits, requiring multiple forms of measurement processes or methods.

Multi-sensor technology, including vision and touch probe capability, may be required in order to fulfil the specific measurement needs. Among these sought-after system requirements, perhaps most importantly, is the need to have fast, reliable data acquisition in the process. The more complex the part, the higher the demands are for inspection and the more important efficiency becomes. In order to solve today's challenges, versatile measurement and inspection equipment is now more pivotal in assuring consistent quality.

Multi-sensor measurement systems help solve many of the measurement and inspection challenges arising in modern manufacturing. Providing exceptional speed and efficiency, a multi-sensor measurement system can easily increase QC throughput by performing multiple processes on a single machine, while maintaining accuracy.

These new measurement platforms may be equipped with dual optical systems that work in tandem to allow measurement of a diverse range of features with one single device. Dual optical systems, as well as touch probe capability, allow users to inspect a part on a wide variety of geometries and feature sizes.

In order to maximise the power of modern measurement technology, however, systems must also be equipped with user interfaces that make the system's capabilities approachable from a user standpoint. One of the top benefits of modern metrology software programs is the speed of throughput due to features such as auto part recognition. A user can create a part measurement program that comprises the desired features of a part for inspection, which can automatically be saved in the system or to a network.

New advancements, when combined with CNC control, advanced edge detection, and one touch measurement, facilitate what is known as "walk-up metrology". Walk-up metrology enables multiple operators, including those right on the shop floor, to utilise the same system for a variety of

applications. This versatility and ease of use significantly helps with bottlenecks in the inspection process and dramatically increases speed of workflow efficiency.

Whenever you capture physical reality to use as part of your digital design process, you are engaging in reverse engineering. Whether you call it reverse engineering or something else, you are almost certainly measuring physical parts and using those dimensions to inform multiple aspects of your product designs. And you are probably doing this multiple times throughout each product lifecycle.

A contemporary approach to reverse engineering, backed by the latest measurement technology and software, can drive value throughout your business.

As a practice, reverse engineering is as old as engineering itself. Due to continuing advances in hardware and software technology, reverse engineering is now so fast, accurate, and effective that it has become an integral part of modern product design.

Pioneering manufacturers are deploying modern reverse engineering to drive business value throughout the design, manufacture, and maintenance of their products.

Some of the aspects of the reverse engineering process are as follows:

**Product Design:** Significantly reduce time to market by using reverse engineering to combine off-the-shelf parts and assemblies with custom-designed parts.

**Casting:** Quickly create manufacturable

digital models for broken castings with no design plans to rebuild and remanufacture critical components using 3D scanning and scan-based design.

**Redesign and Customisation:** Start with an existing part—like a vehicle, vehicle component, or product that precisely fits the human body and use it as a reference to create brand new or custom-fit parts.

**Prototyping:** Create manufacturable designs faster by digitizing hand-built prototypes and prototypes typically fabricated with foam, cardboard, or modelling clay.

**Remanufacturing and Maintenance:** Protect expensive heavy equipment from emergencies and keep it running efficiently by using 3D scan data to create spare and replacement parts.

Reverse engineering adds value at every step of the product lifecycle. To create and sustain long-term value, manufacturers know that they need to take a holistic view of the entire product lifecycle.

The best-performing companies have mastered the ability to move seamlessly from digital to physical, and back to digital throughout the product lifecycle using technology like 3D scanning, reverse-engineering software, digital metrology software, and 3D printing.

**– Engineering Review**



## Atma Nirbhar Bharat should pay better dividends than Make in India

In view of the Covid-19 pandemic, Atma Nirbhar Bharat Abhiyan, announced by PM Narendra Modi, aims to propel the country on the path of self-sustenance and insulate India from any future global economic downturn.

The Prime Minister unveiled the Campaign for Self-Reliant India in mid-May, some commentators focused on its title rather than its substance. Its name – Atma Nirbhar Bharat Abhiyan in Hindi – indeed makes one think that the initiative is permeated with the idea of self-reliance.

Analysts are hopeful that Prime Minister Narendra Modi's Atma Nirbhar Bharat programme will be a bigger success than 'Make in India' to boost India's manufacturing.

This time around, with 'Atma Nirbhar' (self-reliance), there is a targeted focus on specific sectors – defence, pharmaceuticals, and electronics sectors are most likely to reap the benefits.

Six years after 'Make in India', analysts are hoping that the Atma Nirbhar Bharat programme will have more material impact on the country's manufacturing sector. With the 'Make in India' programme in 2014, the Narendra Modi government was pushing for a one-size-fits-all solution across 25 sectors.

"None of the key parameters suggest any material improvement in the performance of the manufacturing sector over the last six years," said a report by Citi Research highlighting the inefficiency of Make-in-India. The share of value-added by the manufacturing sector to the country's overall production has remained stagnant between 17 per cent and 18 per cent over the last decade.

Focusing on specific sectors and pushing for local products to replace imports is the government's new strategy.

Electronics, pharmaceuticals and labour-intensive industries may be the biggest beneficiaries of Atma Nirbhar Bharat.

With Atma Nirbhar Bharat, analysts see the policy focus shifting from exports and attracting shifts of supply chains to providing fiscal incentives and putting in import restrictions instead. Most companies are anyway going to adopt a 'China plus 1' strategy rather than entirely move out of China.

Exports will remain the key focus, as in any developing economy. However, the fundamental difference between 'Make in India' and Atma Nirbhar is the realisation that India can't control what the world will buy and therefore, it should focus on its strengths instead of playing in areas where the global competition is intense.

Before forcing the world to buy from India, the Modi government had to ensure the people of the country were willing to buy local brands. Cheaper imports, everything from mobile phones to textiles to steel – particularly from China – had to be fended off.

The border tensions in Ladakh gave India the political impetus it needed to put its plans in place, starting with putting a cap on Chinese investment into India.

Let's take pharmaceuticals, for instance. "Out of India's total bulk drug imports are 63 per cent of total pharma imports and for some medical equipment the import dependency could be as high as 86 per cent," said the Citi Research report. The government has marked the pharmaceutical sector among the 10 'champion' sectors and as a part of this, India is looking for international companies that would like to move their manufacturing base to the country.

Exports still remain an integral part of Atma Nirbhar Bharat. However, rising global protectionism, reneging on bilateral foreign

trade agreements, and the expiry of India's most prominent export incentive scheme – Merchandise Export Incentive Scheme (MEIS) – indicate that the push on exports is weakening.

Margins is where value addition kicks in. It's not enough for exports to grow, they also need to bring more value in order to have a beneficial effect on the economy. Otherwise, some sectors may grow at scale but they won't necessarily add to the profit bottom line.

The foundation for this was laid out ahead of the budget earlier this year, in India's annual Economic Survey. The Survey went on to say that while the short- to medium-term objective is the large-scale expansion of assembly activities by making use of imported parts and components, giving a boost to domestic manufacturing of parts and components (upgrading within global value chains) should be the long-term objective.

So far, pharmaceuticals, defence manufacturing and electronics have been given incentives to make more value-added products in India. Going forward, labour-intensive sectors like leather, textiles and food processing are likely to see similar thrust, according to Citi Research.

One of the few success stories of Indian manufacturing is the electronics goods production. During the last couple of years, exports have doubled to \$11.8 billion in 2020 from \$6.4 billion in 2018. However, though the volume of production may have increased, concerns were raised over value addition.

"A domestic electronics component manufacturing ecosystem had to be developed to reduce dependence on imports and fiscal incentives are planned to develop that ecosystem," said Citi's report.

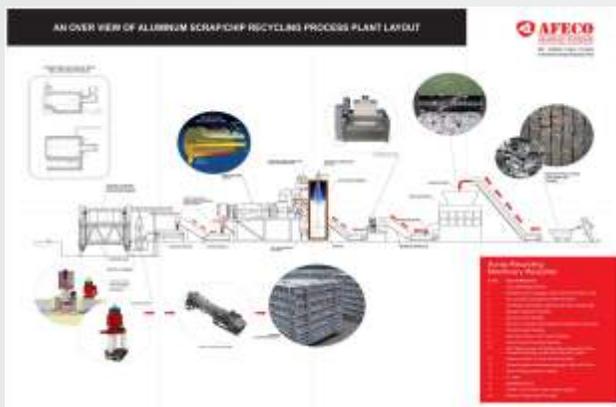
The idea has definitely improved from Make in India to Atma Nirbhar, whether the results will be better is something to be seen in a few years from now.

# NEW TECHNOLOGIES

## Afeco Heating Systems

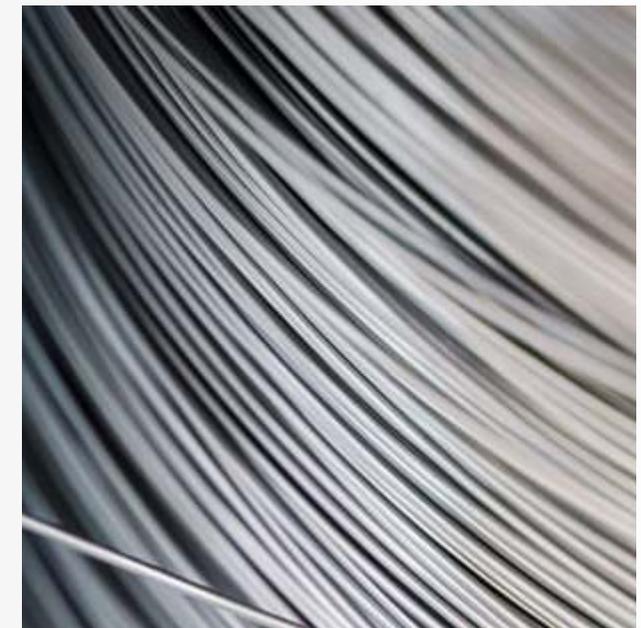
Afeco offers tailor-made advanced Electrical and Gas fired heat processing technology required for FERROUS & NON FERROUS metal process industries applications like, Heat Treatment, Melting, Forging, Drying, Baking, etc.

Aluminium recycling is the process by which scrap aluminium can be reused in products after its initial production. The process involves simply re-melting the metal, which is far less expensive and energy intensive than creating new aluminium through the electrolysis of aluminium oxide ( $Al_2O_3$ ), which must first be mined from bauxite ore and then refined using the Bayer process. Recycling scrap aluminium requires only 5% of the energy used to make new aluminium. For this reason, approximately 31% of all aluminium produced in the United States comes from recycled scrap. Used beverage containers are the largest component of processed aluminum scrap, with most UBC scrap manufactured back into aluminum cans.



## Sceptre Abrasive House

We are announcing launch of wide range of power tools and Accessories for the first time in last 15 years, a quality and a reliable product. We are also showcasing a wide range of Abrasive/cutt off wheels / grinders sanders etc, specialised for various industrial operations and highly dedicated to it. Along with it we have specialised marble cutter blades and TCT blades for various applications.



## WEBINAR

### “Understanding the Impact of Covid19 on Industrial Tools & hardware Industries and opportunities during and post pandemic”

Due to the current Corona Virus Pandemic the Indian economy is going through a tough time and the Indian Power Tools & Hand Tools Industry is also affected by this. To address this issue, Hyve India Pvt Ltd organized a webinar on “Understanding the Impact of Covid19 on Industrial Tools & hardware Industries and opportunities during and post pandemic”

The said webinar was attended by over 250 attendees and got overwhelming response from the audience.

Esteemed panelists present during the webinar were Mr. P S Krishnan, Operational Director, Taparia Tools Limited, Mr. Rajesh Peshion, General Manager, Osho Tools Pvt Ltd, Mr. Somesh Mittal, Managing Director, Matrix Industrial Corporation and Mr. L N Gupta, Director, Powertex Tool Company Pvt. Ltd.

#### Key issues discussed during the webinar

- Discussions were held on how industrial tool industry is expected to transform and what should be done in the current pandemic situation to make the best out of it. The challenges which are being faced while operating during the covid 19 situation and what can be done to set up for a successful transition to the new normal.

- Panelists stated that they took a conservative approach during lockdown and stopped importing products for sometime, however, power tools did not really see a very steep downfall in COVID, the sales were back to normal within a month.
- The mindset that has changed post covid is not to work on thin margins and credit limit period should be reduced so that there are less bad debts in the book.
- Panelists discussed that labour has become a big issue during covid times and manufacturers are facing a bigger problem than traders. Production capacity has reduced to one fourth during covid because of shortage of labour. Panelists requested for government support in solving the transportation problems of labors so that same production level can be maintained in factories post covid,
- Panelists also stated that we should not lose hope during this situation and that there is lot of opportunity in the future for Tools Industry, Government has launched Atmanirbhar Bharat because of which lot of industries are being set up, which will increase the demand of tools in the market because tools are basic requirement for everything.



# Grand Business Carnival

6 co located events and one Grand Business Carnival for Metal, Machinery and Manufacturing industries

- HTF - for **Advanced Hand Tools, Power Tools and Fasteners**
- CWE - for **Advanced Cutting and Welding Equipment & Technology including Laser Technology**
- IMEX - for **Latest Machine Tools** (CNC, Laser, Shot Blasting, Measuring & Testing Equipment and more.....)
- UMEX – for **Economical Pre-owned machinery in the industry**
- MMMM – for **Mineral, Metal, Metallurgy & Materials**
- TECHINDIA - for **Engineering and Manufacturing** (Pumps, Valves, Compressors and more.....)



## A Sneak Preview

- Expected Presence of **500+** leading Exhibitors from **15+** countries
- **4 Open Seminars**
  - > *Hand Tools, Power Tools & Fasteners Know-How*
  - > *Advancements In Cutting & Welding Equipment*
  - > *Machine Tools: Bringing Depth to Manufacturing in Industries*
  - > *Technology Innovation for Metal & Metallurgy Industries*
- Various New Launches by exhibitors.



## Business Connect Program

- Market News & Views, a weekly e news alert program covering Industry Updates ,Launch of New Technologies , Partnership Opportunities , Industry Views, CSR activities
- International Business Networking Program (IBNP) a monthly webinar covering key industry across Indian as well as some neighboring countries including China, Taiwan, Bangladesh, etc
- Open Seminars during the event, a unique opportunity to have face to face interaction with industry leader and knowledge transfer



### Contact Us



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**17-18-19 DECEMBER, 2020** Pragati Maidan, New Delhi, India

## SOME LEADING COMPANIES AT THE EVENTS

### Cotmac Electronics Pvt. Ltd.



Cotmac Electronics Pvt. Ltd. is a respected name in industrial automation, providing customers with a

wide range of cost effective engineering services in the fields of plant intelligence and industrial automation.

As a part of the 125 year old illustrious Cotmac Group and its inception in 1992, 25 years ago, CEPL has been providing automation solutions for factory and processes. With over 500 skilled and qualified engineers, strong domain knowledge of products and processes, 5 state of the art manufacturing plants, 13 branch offices in India and 3 overseas branches in Dubai, Singapore and United States Cotmac is a truly global system integrator that supports national and international businesses.

**The company's knowledge and experience in factory and process automation help customers to improve productivity and scale up operations. Cotmac Offers automation solutions in various segments like**

- Factory Automation -Automotive, Paper and Printing & Material Handling,
- Process Automation- F&B, chemical & pharma, cement, metal & mining, water treatment, power,
- Engineering And Software Services- detail design engineering, control software and SCADA development, process optimization services, AutoCAD engineering services

and field services,

- Control Panels- MCC, PCC, AMF, PLC, DRIVE, MIMIC,
- Machine Retrofitment- Recondition and converting old machines to CNC'S,
- Vision systems and robotics engineering- Vision systems ensure shipments are free from all defects, reduce waste through early detection of process errors, and reduce the quantity of scrapped components. robotics and intelligent material handling systems helps to optimize production to accurately match process speed and positioning,
- Industrial automation products- Cotmac is an authorised distributo partner for Siemens automation, Siemens switchgear, Lapp Kabel, Omron, Phoemix Contact, Eplan, Cognex, Siemens process Instrumentation



### CK Airtech



CK Airtech is a professionally managed company engaged in the field of Air pollution Control offering cutting

edge technology solutions on turn key basis. Our expertise in various cross section of industries enable us to provide energy efficient and cost effective Air Filtration & Gas Cleaning systems.

Our Air Pollution Control / Gas Cleaning System:

- Bag House / Pulsejet Filter
- Cyclones & Multi Cyclones
- Scrubbers
- Unit Dust Collectors & Silo Vent Filters
- Wet/Dry spray booth with enclosure
- Painting
- Centrifugal Blowers
- Spark Extinguishing System

Solid Handling System:

- Pneumatic Conveying System
- Rotary Air Lock Valve
- Screw Conveyors
- Silo Discharge Equipment
- TransFlow Duct



## Sceptre Abrasive House



Established in market since 1984, we deal in all kinds of hard line & abrasive products, used by light and heavy industries. We provide a quality service and a reliable product we are the registered owner of some of the most popular and reputed brands in Indian market, SCEPTRE, MILLION, WTI, FIRE, LAVA etc. Our head Office is based in New Delhi and we do not have any branch or direct sales office in rest of India except New Delhi.

We have been an active participant in various trade shows, along with it we possess various trademarks and registrations and copyrights for our various products and their qualities. An ISO approved company to meet the latest norms and qualities.

We are expanding and looking forward to cater to a wider industrial network in upcoming years.

## DMG MORI Co. Ltd.



DMG MORI Co. Ltd. offers products through the following business units: Machine Tools and Industrial Services. The company offers high-efficiency and high-performance machine tools. They provide machine tools in India under the brand name, CLX.



## Matrix Industrial Corporation

Matrix Industrial Corporation (MIC) by Balaji Group is a name synonymous to quality and longevity. Having an experience in importing and distribution of power tools and accessories in several brands from the longest of time, Matrix has not only become a brand name but has also been consistent with the quality. Through our wide range of products which we keep increasing with each passing day looking at our customer's needs, we have not only made sure that our presence in the market is increased but we also make sure that our major stakeholders, our dealer network, also benefits and grows in the process. We at Matrix welcome everyone to be a part of this big family and also appreciate any suggestions to help us improve and serve you better.

Our Products include Power Tools and Spares by brand name Matrix, Axtirm, MPT and Credit.

## Eurotech Industries



We started the business of welding & safety equipments with our firm M/s Nirmal Welding

Aids at Chawri Bazar, Delhi in year 1996. With the passage of time and customer demand of new and high standard quality products pushed us to enter in the field of manufacturing.

In the year 2001 we started our manufacturing unit M/S Eurotech Industries, Delhi, to meet out the highest standards of quality and to compete with the international market product. Since then we are manufacturing different products used in the process of welding with our brand name "EURO"

We always work hard to justify our logo "WHERE QUALITY MATTERS". We have walked a long way in the process of quality improvement. Since 24 years we are serving our customers with the state of art products which meets to the highest national & international standards such as BIS, CE, ISO etc. With the team of experienced engineers & continuous feedback of our customers we are in the process of continuous quality improvement.

With the help of our R&D team we can assure zero defect new products in future also.



...and many more



...and many more

*Thank  
You*

**COMBATING**  
**COVID-19** Basic  
Protective  
Measures



USE FACE MASK



CLEAN AND DISINFECT



WASH YOUR HANDS  
FREQUENTLY



KEEP DISTANCE  
FROM OTHERS



AVOID TOUCHING  
EYES, NOSE OR MOUTH



STAY AT HOME  
WHEN YOU ARE SICK