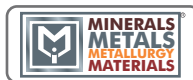


News and Views...

23 July 2020 »



GRAND BUSINESS CARNIVAL FOR METAL, MACHINERY AND MANUFACTURING INDUSTRIES



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

INDUSTRY NEWS



India's Covid-19 case fatality rate 'progressively falling', among lowest in world: Govt

India's Covid-19 case fatality rate is "progressively falling" and is currently at 2.49 per cent, which is one of the lowest in the world, the Union Health Ministry said on Sunday, crediting efficient clinical management of hospitalised cases for it. There are 29 states and union territories with a case fatality rate (CFR) lower than India's average, with five of them having a CFR of zero and 14 having fatality rate of less than 1 per cent. The focused efforts of the Centre and state and UT governments on efficient clinical management of hospitalised cases

have ensured that India's case fatality rate has fallen below 2.5 per cent, the ministry said. With effective containment strategy, aggressive testing and standardized clinical management protocols based on holistic standard of care approach, the CFR has significantly dipped, it said. From 2.82 per cent over a month earlier, India's Covid-19 case fatality rate declined to 2.72 per cent on July 10 and has further reduced to 2.49 per cent presently. Under the guidance of the Centre, the state and UT governments have ramped up testing and hospital infrastructure by combining public and private sector efforts, the ministry said.

– *Hindustan Times*

Active COVID-19 cases in Delhi fall to 16,000; recovery rate jumps to 84%

Despite India recording a record number of coronavirus cases almost on a daily basis, Delhi has seen a sudden dip in the spread. As per the latest reports by the health ministry, the national capital is left with just 16,031 COVID-19 cases, this is a significant improvement to how the situation was in June. Delhi's active cases have been on a downward trend in the last few days.

As many as 103,134 people in Delhi have recovered after contracting COVID-19 this is 83.99 per cent of Delhi's overall cases (122,793).

A large part of this credit could be given to the joint collaboration between the Delhi state government and the Central government for their work together in curbing the spread of the virus in the capital. In early June, Arvind Kejriwal-led AAP government in the state had predicted that by end July Delhi is likely to have 5.5 lakh COVID-19 cases. If numbers are to be believed, Delhi is looking far from that. Delhi's sudden COVID-19 recovery has been against the general tide in the nation. In the last 24 hours, the country has reported over 40,000 COVID-19 cases, a new record. This number has been going up by the day.

– *IndiaTV*



Coronavirus vaccine: Russia ready to roll out vaccine by next month, claim officials

Rampant developments are being made in the world of vaccines. While Moderna Inc., University of Oxford and Indian companies like Bharat Biotech International Limited are busy with different phases of testing, Russian vaccine is said to have cleared two important clinical trials. This could mean that it may be one of the first vaccines available for public use, reports suggest.

The news follows after Russia announced the completion of phase I/II of its vaccine and started discharging patients from the first batch.

According to experts, Russia is hopeful of starting phase III of its unnamed vaccine candidate in the country, as well as expedite the process in countries like Saudi Arabia and the United Arab Emirates.

With over 7,00,000 reported cases, Russia is the fourth-worst affected nation struck by the pandemic globally. Owing to the crisis, Russian President Vladimir Putin has made vaccine development a priority. While phase III is considered to be one of the most crucial phases of testing while developing any vaccine, Russian epidemiologists have asserted that they can make the vaccine available for the public as early as next month, while simultaneously conducting phase III trials.

"It will be imperative that additional clinical research of an approved vaccine be conducted simultaneously," announced the Russian health minister at a press briefing.

– *The Times of India*



Oxford coronavirus vaccine prompts immune response in early test

Scientists at Oxford University say their experimental coronavirus vaccine has been shown in an early trial to prompt a protective immune response in hundreds of people who got the shot.

British researchers first began testing the vaccine in April in about 1,000 people, half of whom got the experimental vaccine. Such early trials are usually designed only to evaluate safety, but in this case experts were also looking to see what kind of immune response was provoked.

In research published Monday in the journal *Lancet*, scientists said that they found their experimental COVID-19 vaccine produced a dual immune response in people aged 18 to 55.

"We are seeing good immune response in almost everybody," said Dr. Adrian Hill, director of the Jenner Institute at Oxford University. "What this vaccine does particularly well is trigger both arms of the immune system," he said.

Hill said that neutralizing antibodies are produced - molecules which are key to blocking infection. In addition, the vaccine also causes a reaction in the body's T-cells which help to fight off the coronavirus.

– *The Economic Times*

Bharat Biotech backed COVAXIN starts clinical trials, 375 people enrolled

India is witnessing a staggering rise in the number of infections day by day and is now the third-worst affected country hit by the pandemic, after USA and Brazil.

Experimental medicines and therapies have helped the officials achieve a good recovery rate so far. Globally, top medical minds are involved in the development of a novel coronavirus vaccine which could help achieve mass inoculation and contain the spread to an extent.

In India too, development is happening in an advanced way. Of nearly seven candidates in play, 2 homegrown vaccines have now proceeded to start clinical trials of their prototypes.

Hyderabad based Bharat Biotech International Limited (BBIL), which is involved in the development of the vaccine announced the initiation of phase I of its clinical trials, for which, 385 people have been recruited so far. According to reports, the trials began on July 15 where 12 hospitals across the nation were chosen to participate.

The vaccine, which uses an inactive version of the virus is being co-developed in partnership with Indian Council of Medical Research (ICMR) and National Institute of Virology (NIV), Pune.

– *The Times of India*



Positive Developments in Australia & England for The Exhibition Industry

As businesses across the globe are starting to resume, positive developments are also shaping up for the exhibition & convention industry. In a media conference after a private meeting with representatives of the Australian business events industry, the Australian Prime Minister Scott Morrison has appreciated the work taking place to reopen the Exhibition and convention sector in the region.

This development follows after another positive news that came in last week for our industry. UK Prime Minister Boris Johnson last week announced that, in England, the government “intend(s) to allow conferences and other business events to recommence” from October. In a public statement, the PM insisted that “these changes must be done in a Covid Secure way” and that the implementation will be “subject to the successful outcome of pilots.”

Already from 1 August, indoor performances

to a live audience will be able again in England, subject to the success of pilots, and “pilot larger gatherings in venues like sports stadia” were to be arranged, “with a view to wider reopening in the Autumn.” Details about the referenced “Covid Secure way” and corresponding regulations are not yet known. Nick Dugdale-Moore, UFI's Regional Manager Europe, commented: “We are very happy to hear the news, which is so vital for our industry colleagues. The UK was the last major exhibitions market in Europe without a reopening date. We are now looking forward to seeing more clarification on the “COVID secure” guidelines for England, which will help give visitors and exhibitors confidence to return, and also to have some guidance for Scotland soon too.”

– [Exhibitions showcase.com](https://www.exhibitions showcase.com)

'Air bubbles' formed with US, France & Germany

India has started creating “air bubbles” with some countries to ensure eligible people can continue to travel direct to and from there on airlines of both sides, till resumption of regular schedule flights in a post pandemic world. The first special arrangements of bubbles have been established with US, France and Germany.

TOI had reported about impending travel pacts with these countries on July 9. Talks with UK are at an advanced stage for the same and “similar arrangements are in place with UAE till July 26, 2020,” the aviation ministry said. It clarified on Friday that this agreement with UAE is till July 26 and not August 26, 2020 as the ministry spokesman had stated a day earlier.

Separately, Air India has decided to lower fares of its Vande Bharat Mission (VBM) flights to the West. Travel under the interim arrangements of air bubbles will be regulated depending on entry requirement of each country, including India, and not everyone like a tourist can fly till specifically allowed. Aviation Minister H S Puri said there is demand from many countries to have travel bubbles with India.

– [The Times of India](https://www.thetimesofindia.com)



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



Measures taken to avoid likely disruption in iron ore supply: Steel Min report

The steel ministry has taken measures to arrest likely disruptions in iron ore supply and cut India's import dependence on select countries for coking coal, a key steel making raw material, says a report. In its Annual Report for Financial Year 2019-20, the ministry said the steel industry is facing challenges both in the short and as well as in the long term in terms of raw material security.

Therefore, the ministry is working to ensure raw material security for the sector, the report said. Iron ore and coking coal are the two key raw materials used for steel making. "A disruption in supply of 45-50 million tonnes (MT) iron ore is expected in 2020-21 owing to the expiry of about 37 working merchant mines (250+ mines in total) on March 31, 2020. The Ministry of Steel along with the Ministry of Mines has worked out a strategy to mitigate the likely shortfall," the report said.

Country's largest integrated steel producer SAIL was given permission to sell 70 million tonnes of low-grade fines lying at its mines. The company was also allowed to sell 25 per cent of the total fresh quantity mined from its captive mines. Steel Authority of India Ltd NSE 0.42 % (SAIL), under the Ministry of Steel, has over 20 captive mines spread across Jharkhand, Odisha, Chhattisgarh and West Bengal.

The ministry said it has also submitted a proposal to the Ministry of Mines for reducing the royalty on iron ore fines from the existing 15 per cent to 5 per cent in order to incentivise beneficiation and pelletisation as well as reduce the stockpile of low-grade fines dumped at mine heads.

– *The Economic Times*

Industry bodies come out in support of local steelmakers in Ballari

JSW Steel's plant in Ballari district of Karnataka is facing calls to close down, with local residents alleging the factory was a Covid-19 cluster after an increase in the number of employees who tested positive for the disease.

However, local industry groupings have come out in support of the company. "The call for stopping JSW because of the Covid-19 is very unfortunate. Where will the revenue to the state, the development of the region, and employment for the youth come from if large industries are stopped? Who will give employment?" V Ravi Kumar, president of the Ballari District

Chamber of Commerce & Industry, asked in a letter to the Karnataka government.

There were 244 cases of Covid-19 at the Ballari plant, up from 106 cases on June 6. The district administration has restricted movement of people to between the JSW township and the factory.

The Karnataka Iron and Steel Manufacturers' Association has also written to the state government to keep the plant open. "It is important for local industry members and administration to jointly ensure that the local steel industry continues to function with adequate safeguards in the interest of the large number of people who depend on it for their livelihoods," said Ramana Kumar, secretary of the association, said in a letter to the Karnataka government.

– *The Economic Times*



Demand for structural steel products surges in May-June due to lockdown induced labour shortage

Domestic demand for structural steel products accelerated in May-June as construction companies increasingly opted for the customizable building material for high-rise structures, apartments and quarantine facilities in the face of labour shortage due to the lockdown, steel players said.

"We have been in this business for the past 10 years, but after this pandemic began and there was a labour shortage, we found enquiries for readymade steel structures going up multifold," said JSPL's managing director, V.R. Sharma to ET. "Apart from companies like L&T, Tata Projects, Doosan, Toshiba, DLF and Reliance which have placed orders, Indian Railways, too, is replacing most of its old concrete materials to steel structures."

Structural steel, or readymade steel, is a category of construction steel material that is produced with a particular cross section or shape, and some specified values of strength and chemical composition. It is customised by the builders who then assemble the parts at the site.

JSPL forayed into the construction materials & solutions business with its steel fabrication facilities of 240,000 MT/annum in Punjipatra, Raigarh, Angul and Raipur.

– **The Economic Times**



India Power Tools Market is projected to grow at a CAGR of over 8.4% during 2018-24.

Over the past few years, power tools have gained acceptance across all major verticals including construction, industrial, and automotive.

The power tools market is anticipated to reach over INR 150 billion by FY'2021 due to PPP investment in smart cities in the country, increase in penetration rate of power tools in Tier 2 and 3 cities and rising number of international companies in the country, according to a research report. Global machine tools industry which encompasses metal cutting CNC machines, metal cutting conventional machines, metal forming CNC machines & metal forming conventional machines, are projected to expand at impressive compounded annual growth rate (CAGR) of 9.62% during the forecast period 2017-2025. Across the world, China & India are

witnessed to have highest growth prospects. Whereas among the developed regions of the world, Europe & Japan are expected to continue to show increasing trends but at considerably slower growth rate than the global average, and the US is anticipated to grow at modest pace.

In recent years, as economic globalization accelerates, the hand tool industry became the main source in hardware tool manufacturers throughout the world. The wide application and larger demands in hand tools are beyond imagination and as a result of this, there is an increase of more than 10% every year.

The global hand tools market size was valued at \$22,200.0 million in 2019, and is projected to reach \$30,381.0 million by 2027, registering a CAGR of 4.1% from 2020 to 2027.

The Indian hand tool market is estimated to cross 200million US\$ which is growing at a rate of 12% annually. India's advantage is low labor, low cost, and availability of raw materials. There are more than 2500 manufacturers in India only and out of which 95% are in small scale sectors catering to the demand for local markets and export.

.Industries like defense, railways, agriculture, automobiles, and aerospace are expecting good quality products for ease of operation due to which small manufacturers have upgraded themselves and are now competing with established organized players but the market is still open for high-quality application hand tools.



The global machine tools industry dimensions are being impacted by three major trends including the additive manufacturing (AM), process automation and electric vehicles (EV). Globally the process automation is largely being adopted to achieve better precision in a less time period. Global investments in process automation are estimated at USD 115.3 billion in 2017.

Continuing with the trends reshaping the machine tools industry, the electric vehicles are demanding for the specialized machine tools. The EVs are increasingly penetrating the global markets and their technologies are continuously being developed. But this has also increased the complexity. Thus to integrate the advance technologies & adopt smart solutions, use of specialized machine tools is one of the innovative solution

Analyzing the segments of machine tools industry, CNC machines acquire largest market share of 68.32% in 2017. Moreover, the metal cutting CNC machines have

highest demand & consumption as compared to others. Based on application type, metal cutting machines leads the market with nearly 58.0% market share in 2017.

The global welding products market size was estimated at USD 14.49 Billion in 2019 and is projected to register a revenue-based CAGR of 6.2% over the forecast period. Factors such as design flexibility, reduction in the overall weight of the building structures, and the ease of modification are projected to promote the demand from construction and industrial application segments.

The resistance welding technology segment is projected to expand at a CAGR of 6.2% from 2020 to 2027 and reach USD 1.01 billion in 2027. Growing use of resistance welding technology in the automotive industry for various processes such as spot welding, projection welding, and seam welding is likely to promote the growth of the segment.



Praj Industries surges 4% as co forays into renewable chemicals industry

Shares of Praj Industries climbed 4 per cent in Thursday's trade after the company announced its foray into the global renewable chemicals and materials (RCM) industry.

The RCM industry worldwide is estimated to have reached \$65 billion, and over a decade it is likely to cross around \$200 billion at a CAGR of 11-12 per cent. The Asian market is presently pegged at around \$25 billion. Praj said it has already entered into an overarching MoU with National Chemical Laboratory (NCL NSE -0.94 %) for jointly working on the project opportunities in RCM space.

Executive Chairman Pramod Chaudhari said his company looks to expand its business horizons by developing technologies to produce bio-based RCM, which are sustainable alternatives to products made from fossil resources. "Praj is now making inroads into the RCM industry through its newly launched Bio-Prism™ portfolio. This reaffirms Praj's vision of developing and deploying environment friendly and sustainable solutions to make the world a better place," the company said.

– *The Economic Times*

Base metals: Aluminium, copper futures ease on low demand

Aluminium prices on Monday softened by 0.18 per cent to Rs 136.50 per kg in futures trade as speculators cut bets amid subdued demand in spot market.

On the Multi Commodity Exchange, aluminium for delivery in July contracts eased by 25 paise, or 0.18 per cent, to Rs 136.50 per kg in a business turnover of 810 lots. Analysts said offloading of positions by participants owing to slackened demand from consuming industries in the physical market weighed on aluminium prices in futures trade.

Copper prices on Monday slipped by 75 paise to Rs 499.55 per kg as participants cut down their positions amid muted demand in domestic market. On the Multi Commodity Exchange, copper for July delivery eased by 75 paise, or 0.15 per cent, to Rs 499.55 per kg in a business turnover of 5,452 lots. Analysts said trimming of positions by speculators due to muted demand in spot market mainly led to the fall in copper prices here. Nickel prices on Monday rose by 0.62 per cent to Rs 1,000 per kg in futures trade as speculators built fresh positions on rising demand from alloy makers in spot market. On the Multi Commodity Exchange, nickel contracts for July delivery gained Rs 6.20, or 0.62 per cent, to Rs 1,000 per kg in a business turnover of 1,694 lots.

Zinc prices on Monday rose by 5 paise to Rs 173.45 per kg in futures trade, tracking a firm trend in physical markets on the back of pick-

up in spot demand. On the Multi Commodity Exchange, zinc contracts for July delivery traded higher by 5 paise, or 0.03 per cent, at Rs 173.45 per kg with a business turnover of 2,280 lots.

– *The Economic Times*



Supply issues supporting metal prices: Paul Bartholomew

The senior managing editor at S&P Global Platts says Calendar Q3 outlook for most metals looks very upbeat

Commodities have been the best performing asset class in this rally – be it gold, be it crude or for that matter base metals of late. An asset like gold rallies because of the uncertainty, which is understandable. But how would you explain the rally one is seeing in industrial

metals? By pinning it only on Chinese demand?

There have been a few support prices. But I would look specifically at metals – steel, iron ore. Iron ore was \$107 a tonne yesterday, which is remarkable really. It has been pretty strong all through the Chinese New Year, and through various stages of the lockdown. It is not just a supply issue. It is also the fact that China is producing a lot of steel. Our view is that China will produce 2 per cent more steel this year than last year. It seems to be industrial activities in China are back well over 90%. There is obviously a lot of infrastructure stimulus going in. We are now seeing some of it flowing through. So China is looking okay. It really depends like on some of the other countries in Asia, which are still coming back slowly from various stages of the Covid lockdown.

– *The Economic Times*



INDUSTRY SPEAK



Raghav Khosla
Group Editor
Exhibition Showcase, MICE Showcase
Association Buzz Founder, India MICE Alliance

It is critical to remain positive and confident, exhibitors need our platforms to re-engage with their clients, pent up demand. Shows may be impacted this year; we should be realistic that some customers may not be able to attend but focus on those that are coming – they absolutely need the platform. Many shows around the world have been impacted but we see that the businesses are now gradually re-opening. It is therefore important that we keep engaging with our clients and participants, re-store their belief in us and our platforms. It is important to take some confidence building measures. We see that many countries have allowed for exhibitions to re-open by separating them from general mass gatherings and that in India too we are hopeful for an early resumption of exhibitions with SOPs for re-opening already submitted to the Govt. of India.

It is also important to treat Virtual as a Friend

and not as a Foe. There is absolutely no doubt that virtual cannot replace physical and there is nothing to feel threatened about. The virtual will also act as an added chunk in our armoury and will be useful in these times when actual travelling is not possible. Going ahead, as I see it, hybrid model will evolve.

Exhibitions are going to become even more relevant because there is going to be a spur in demand and domestic production. India will emerge as a key market for international players because of many reasons and our AatamNirbharBharat agenda will only fuel the industry further. our venues are ready for safe re-opening with special measures towards health, safety and sanitisation.



MEDIA SPEAK



Indian steel exports hit all-time high in June; how long will party continue?

Mills have been gung-ho on overseas sales since the lockdown had begun in the third week of March and exports of finished flats, finished longs and semis had seen a sharp upswing from April till June. However, analysts SteelMint spoke to feel that the party for July till September can, if not exactly be rocking, enter a subdued phase. The main reason behind this could be the fact that domestic demand is trudging back. Usually, July-September is a period when mills get active on the exports front because the monsoon sets in and the domestic market becomes sluggish.

But, this year, analysts are not sure how the market will behave because buyers are returning after an almost three-month lockdown. One cannot predict with certainty but an inference can be made that the market for rebars and longs – items that are required

in construction – is not exactly looking great as of now because the monsoon has set in. Therefore, exports in these items will continue. But, in flats, domestic demand is still good because the automotive sector is again trying to recover.

Therefore, export volumes will likely return to their usual levels. They may not be as high as what we saw in the last three months but could be 20%-25% of the total production level of mills.

As said a source, "Going into July, overseas sales could spring back to normal levels or stay a little higher but will not replicate the sharp spike seen in the first quarter. The usual levels of exports are 15-20% or a little more of the mills' production in a business-as-usual scenario."

– **Madhumita Mukherjee, Editor, Steel360**



With technology under development at Karlsruhe Institute of Technology in Germany, machining firms soon may be able to improve the process of spotting ballscrews in danger of failing. KIT researchers have nearly completed a

system for fully automated monitoring of ballscrew drives in machine tools. The system includes a camera with a light source, which attaches to the nut of a drive. As the nut moves on a spindle, the camera photographs each spindle section. These images are evaluated by an artificial intelligence algorithm capable of determining whether they show signs of wear that can lead to ballscrew failure.

Using machine-learning methods, the AI algorithm was trained with thousands of images to distinguish between spindles with and without defects. When training the algorithm, KIT reports that the research team took into account "all conceivable forms of visible (ballscrew) degeneration." As a result, the software system can tell whether discoloration shown in ballscrew images is simply dirt or harmful pitting, according to the institute, which added that its researchers have substantiated that claim by testing the system with new ballscrew images that the system never had seen.

At present, people interested in monitoring the status of ballscrew drives in machines have two choices: measuring the motor current or the acoustics of the devices, said Tobias Schlagenhauf, a research associate who helped develop KIT's system. He said when current or sound exceeds a specified threshold, that indicates that a ballscrew is worn. But he pointed out that both monitoring methods have significant downsides.

– **Cutting Tool Engineering**

The allure of aluminum

When a workpiece material is relatively easy to machine and a wide range of parts are made of it, a large number of part manufacturers will machine it. As a result, shops must achieve a high level of productivity to remain competitive, and that's certainly the case with aluminum alloys.

"For the customer, it's all about how many cubic inches of material they remove per minute," said Mike MacArthur, vice president of engineering for RobbJack Corp., Lincoln, California. "The more chips they get out as fast as possible, the more money they are going to make."

Selecting the appropriate cutting tool, such as an endmill, for an aluminum application requires optimizing the tool's substrate, geometric features and coating, if one is deposited.

"It comes down to tailoring a tool to a specific part and getting the most out of it that you can," said Mitchell Parker, process improvement specialist for LMT Onsrud LP, Waukegan, Illinois. "You just have to have the right combination."

"You think, 'It is aluminum, and anything can cut it,' so you can use any tool in the drawer," he added. "To stay competitive, there are factors in making that high-performance tool that will get the material removal rates up."

One cutter doesn't fit all aluminum machining needs, so end users must work with toolmakers that have offerings across the spectrum.

"Because there are such a high variety of parts that are made of aluminum, you have to

have a high variety of tools to serve the market," said Alyssa Walther, automotive specialist for Irving, Texas-based OSG USA Inc., who's based in Bensenville, Illinois.

– *Cutting Tool Engineering*

What can we learn from the Covid-19 Effects?

That great learnings emerges from difficulties moments, scarcity and unexpected troubles, we all know. It is not a matter of opportunism to address this issue now and in a technical publication, but it is reasonable to note that we are in the midst of the dilemma of maintaining the routines of the business environment and maintaining the safety of people. However, one depends on the other, and stopping everything, as some countries have already done, can be the source of even greater collapses.

The manufacture and supply chains and their target markets have branched out a lot around the world, so intensely that is time to ask we if this structure should not be redrawn about. We deal with productive sites installed in any part of the planet because we seek good deals, as simple as that. But what if these chains suffer a breakdown, like the one we are living? What to do? Is not possible, suddenly, develop new domestic suppliers in short periods of time.

Have also a domestic production is important, and it is not a question of closing trade borders, an act that is as

possible as it is disastrous. But to review from now on how to have a more balanced environment to produce in Brazil too, reducing the bureaucracy and increase the efficiency, easing the activities to the local fastener manufacturers to get better conditions to produce and sales more at least in domestic market or, hopefully, to exportation. After all, when an automatic forming machinery are working, it does not know if it has working inside Brazil, Russia, India, China... It will be working at the same speed and precision wherever it is.

– *Fastener Eurasia*





Manufacturing PMI Improves in June

According to data released by IHS Markit, India's Manufacturing Purchasing Managers' Index (PMI) surged to 47.2 in June as compared to 30.8 in May this year. This signals faster normalization of the nation's manufacturing activity since the nationwide lockdown was lifted on June 1, 2020.

Commenting on the latest survey results, Eliot Kerr, Economist, IHS Markit, said that India's manufacturing sector moved towards stabilization in June, with both output and new orders contracting at much softer rates than seen in April and May.

"However, the recent spike in new coronavirus cases and the resulting lockdown extensions have seen demand continue to weaken. Should case numbers continue rising at their current pace, further lockdown extensions may be imposed, which would likely derail a recovery in economic conditions and prolong the woes of those most severely affected by this crisis," he added.

– *Modern Manufacturing India*

Metal Finishing Chemical Markets Share Insights

The global metal finishing chemicals market size was valued at USD 9.49 billion in 2017. It is anticipated to expand at a CAGR of 4.5% during the forecast period. Growing automotive industry in developing countries, such as Mexico, India, China, Thailand, and Indonesia is projected to drive the market. Moreover, government initiatives, such as the Make in India policy by the government of India are some of the major drivers for automotive manufacturing and development in these regions, which is likely to further fuel the growth.

Rising demand for the product can be attributed to the properties of metal finishing chemicals, such as resistance to corrosion, electrical, wear, torque, hardness, and chemicals coupled with electrical conductivity, appearance and reflectivity to metal surface.

Growing automotive production mainly in China, Indonesia, India, and Thailand is expected to propel demand for these chemicals from automotive sector. Increasing demand for passenger cars in India and China coupled with the rising disposable income is expected to further fuel the automotive market, which in turn will boost the demand over the forecast period.

Other industries that find significant application of metal finishing chemicals

industrial machinery and transportation equipment. Growing demand from India, China, Japan, Korea, and Taiwan for manufacturing electrical components, such as connectors, semiconductor devices, and circuit boards is also anticipated to bolster the market over the forecast period.- Fastener Eurasia



NEW TECHNOLOGIES

Osho Tools Pvt. Ltd.

Some of our newly launched products include:

- **Marble Cutting Blade** - Venus Brand Marble Cutter /Blade for Granite, Marble, Tile and stone offers a smooth finishing standard and ensures wide applications. It is designed for quick cutting of hard materials. Engineered from high quality hardened steel provide longer use than any other conventional metal bonded blades. This blade segment design helps to improve curved cutting. Venus Marble Cutter/ Blade provides longer operational life, vibration free, smooth performance and consistent performance. It is recommended to be used on marble cutting machines and suitable for dry/wet. It is recommended to use water while operating. It gives two benefits one that it reduces the dust enormously and second it doesn't allow the blade to get heated while operation. Soon Venus is introducing 5" segmented, 4" continuous, 5" continuous, and 4" turbo.
- **TCT SAW Blades** - Venus Tungsten Carbide Tipped circular saw blade for wood cutting - 4" / 110 mm - professional quality, made from high grade steel. Extensively used for heavy duty cutting applications in mechanical and other allied industries, these saw blades stay sharp for longer time as compared to

others. Venus TCT saw blades are specifically designed for cutting Wood and Ply-Wood Board. Soon the complete range shall be available. Viz., 1. 4"X 30 Teeth 2. 4"X 40 Teeth 3. 5"X 30 Teeth 4. 5"X 40 Teeth We are further improving the quality by introducing punches for heat evacuations during operation.

- **Magnetic Hex Power Bits** - Venus Magnetic Hex Power Bits are manufactured from S2 material with copper finish. The bits are properly heat treated to provide a longer life. The tips are magnetized. Powerful magnet that lets you avoid holding onto hard to reach bolts with the strong magnetic features that holds the bit in place while you drive. Venus magnetic Hex bits are designed and engineered for long life and good durability for operating.
- **Magnetic Socket Adaptor (Nutrunner)** - The Venus Magnetic Socket Adaptor popularly known as nutrunner are designed with the added features of strong magnetic point that allow for contact through the base of the socket to holds nuts and bolts in place during use. This helps in the retention of Bolt head or nut during the operation. Made from the Cr-V steel the material is duly hardened and tempered. So the quality of the product is guaranteed to be good. 5 pcs Packed in blister or box to protect the material and store and display. The card is beautifully designed so that a recognized brand image is visible.





Taparia Tools Ltd.

Our newly launched products include:

- **Wire Rope Cutter** – Available Sizes: WRC 18, WRC 24, WRC 36, WRC 42
- **Bevelled Edge Chisels :**
 - o Available Sizes: 6, 8, 10, 12, 19, 25, 32, 38, 51mm.
 - o Ergonomic handle design with soft grip.
 - o Steel cap to protect the handle from damage during hammer strikes
 - o High hardness till 2/3rd of blade length for longer cutting edge life after re-sharpening
 - o Pre-Sharpended cutting edge for immediate use
 - o Anti-rust coating on steel blade
- **Sockets Set** – 12.7mm (1/2") Square Drive
- **Oil Cans-**
 - o Available in 125cc, 250cc, 375cc, 500cc (capacity) sizes
 - o Good quality powder coating finish for rust protection
 - o Detachable rigid spout
 - o The suction tube at bottom of the pump is without spring, which prevents malfunctioning

- **Strap Filter Wrench**
 - o High quality cotton strap for long life, eliminates scratches and damage to the work piece
 - o Light weight and easily portable
- **Bi Metal Hole Saw**
 - o Variable pitch teeth for better and faster cutting
 - o Longer life with 8% cobalt cutting edge
 - o Tough design with solid back disc
 - o One piece construction



Cardan India

Cardan India's goal is to maintain high product quality and total customer satisfaction which we strive to ensure through our relentless pursuits for quality perfection. Some highlight of our quality process.

Application of CAD, Pro-engineer and solid works for modular and modified design. A highly competent engineering team and a dedicated, skillful workforce.

Modern precision equipment for high quality Cardan Shaft (Universal Joint Shaft). Manufacturing and constant renovation of tooling machines towards specialization numerical controlling.

Computer management system integrating planning, purchasing, sale, inventory, design and accounting activity.



Indrox Global Pvt. Ltd. (IGPL)

Waste Acid generation from Pickle line in Steel industries is chemically treated in a process named as "Spray Roasting Technology"

The plant mainly consists of following major process equipments:

- **ROASTER** Concentrated Pickle liquor comes into contact with hot combustion product and reacts with the O_2 and H_2O to form Iron oxide as the following reactions take place. -



- **VENTURI** Incoming hot gases from Roaster gets quenched.
- **SEPERATOR** Gases gets separated from liquid particles.
- **ABSORBER** Packed column to allow absorption of chlorides from gases by Counter flowing water.
- **SCRUBBER** packed column where remaining traces of chloride & iron oxide particle gets trapped.
- **STACK** Disposal of waste gases at environmentally accepted altitude.
- **OXIDE BIN** Collection of oxide from Roaster bottom.

ABB



ABB launches ABB Ability™ Collaborative Operations, now also for metals, with remote expert insights to improve efficiency, safety and productivity.

ABB has launched ABB Ability™ Collaborative Operations for metals, enabling steel and aluminium producers to optimize operations, improve safety, monitor assets, and streamline maintenance by collaborating remotely in real time with ABB's team of industry experts via digital technologies. Leveraging the collective strengths of metals producers and ABB experts, Collaborative Operations services use data generated via mills' IoT infrastructure to provide sophisticated information analytics and actionable insights that can help drive rapid, intelligent decision-making to optimize plant performance.

Key benefits include continuous collaboration and access to experts; increased asset availability; faster problem resolution and intelligent decision-making; increased productivity through improved asset performance and profitability; higher quality outputs; increased safety and security; and a reduction in the requirement for on-site visits. When there are changes in process performance, automatic alarms for plant operators and ABB experts are generated simultaneously to enable immediate corrective action.

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

Nirali Overseas



We at Nirali Overseas specialize in all kinds of accessories and spare parts for power tools and garden tools like chainsaws with highly competitive prices. Also, we have a huge range of power tools in our own brand TURBO nx with an Indian power tools range as well under TUCKER brand.



Cardan India



A leader in power transmission engineering since 1992, Cardan India is a specialized manufacturer and distributor of CARDAN SHAFT (Universal Joint Shafts) and their components for industrial applications. Our products are widely used on Steel Rolling Mill, Tube Mill, Paper Mill, Rubber, Plastic Mill, Crane, Locomotive Engine, Heavy Pump, Marine, Power Plant, etc.

The production range covers the Light-Medium-Heavy duty sector up to a torque of 1,500,000 Nm. Our technology also allows us to manufacture special universal shafts for applications not included in normal commercial products.

Our company offers its customers the know-how and the experience in the field of industrial design. To optimize and integrate its products, so as to increase the efficiency of the plants, we offer our technical support during the design, the installation, the maintenance, and the evaluation of the performance.



Indrox Global Pvt. Ltd. (IGPL)



M/s Indrox Global Pvt. Ltd. (IGPL) is the leading company in design, installation, operation, and maintenance of waste Hydrochloric Acid

Regeneration Plant and iron oxide production facilities.

It has set up its own Pollution Abatement cum Acid Regeneration and iron oxide production plant in Tarapur Industrial Area near Mumbai. The plant is based on Spray Roaster technology and is in operation since July 2004. WPL generated from steel plants such as Jindal, Tata, and Essar, is treated in INDROX and converted into regenerated hydrochloric acid with a yield up to 99% recovery and is returned to these industries for reuse.

With a broad spectrum of technical expertise and comprehensive in-house capabilities, Indrox Global Pvt. Ltd. is a leader committed to providing economical solutions with superior technology to all our customers.

MGM-Varvel Power Transmission Pvt. Ltd



MGM SpA and Varvel SpA: joint venture in India to support Italian manufacturing.

MGM - Varvel Power Transmission Pvt. Ltd. has been supplying top quality, high precision, Italian made, mechanical engineering products to Indian manufacturers since 2011. The joint venture can rely on the combined expertise of the two leading Italian companies behind it: Varvel SpA and MGM Motori Elettrici SpA, specialists in power transmission systems and electric motors (especially self-breaking) respectively.

MGM-Varvel's base in Chennai, a large industrial town in the south east of the India, serves both as assembly centre for the gearboxes and motors imported from Italy and as a strategic logistic centre for the distribution of products throughout India.

In order to integrate Italian products into the Indian economy as effectively as possible, local professionals have been employed to run the joint venture's functions since its formation. The company's management, technical office, accounts and sales force are rigorously Indian.



LSL Tools Pvt. Ltd.



"XTRA POWER is the premier provider of high-quality and innovative Power tools, Abrasives, Diamond Saw Blades, TCT, Drill bits and a wide range of other technically advanced tools to clients from diverse backgrounds and industries. The company has been at the forefront of delivering best in class tools that boast of high-quality and standards. Our products are duly tested for reliability, durability and performance, which further enable us to offer the best shopping experience to clients including leading businesses and factories."





...and many more



...and many more