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CUTTING & FORMING METAL CUTTING & FORMING SERIES 2022

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Manufacturing Of Future: Trends Of Metal Cutting & Forming

that we will be able

to face the global and

domestic challenges

Taking on the

additive

Navid

from

for our customers.'

next question

manufacturing

whether

and forming sector forms a core part of the flourishing Indian manufacturing sector. With digital intervention and the growing demand for customisation in highmachining, speed it will be pivotal to highlight the trends that will foreseeably pick up in the near To discuss future. in detail the trends of the metal cutting and forming industry and how it will boost efficiency, productivity and flexibility in the Indian manufacturing industry, the ET Edge recently hosted the virtual edition of The Economic Times Metal Cutting and Forming Summit 2022. The series focused on discussing the metal cutting sector '2022 & beyond: Analysing the trends in metal cutting & forming industry'.

The event kickstarted with an opening note from Rahul Kamat, Editor B2B Division, Worldwide Media. During the note, he mentions, "Policies, such as Aatmanirbhar Bharat and Make in India, require the sector to diversify its use and utility so that we can reduce imports and make our domestic

systems more efficient. Continuous innovation and diversity in output are necessary for the sector to continue contributing India's robust growth

ETEdge

Understanding The Evolving Landscape The metal cutting and forming industry has been a vital part of the Indian automotive sector and the industry has been growing rather dynamically. It is now essential for industry players understand the changes coming in, and how they can adapt quickly them and monetise to their best benefit

narrative."

while being green. To discuss this in-depth, the event proceeded to a panel discussion on 'Landscape and recent developments in the metal cutting &

forming industry'. Moderator, Shatyabrata General Senior Manager, International Automotive India Pvt Ltd, started the discussion by posing a question regarding the readiness of the Indian manufacturing industry to embrace Responding change. to it, Ravi Raghavan, President, IMTMA, said, "We are not in that state where we were, maybe a decade

meant that we would send it to smaller countries. Today, we are very confident to sell our products to the advanced countries and very confidently address many of the unique requirements which with the best of the class of machines supplied from abroad from the technology

where export

ago,

supersede traditional manufacturing compete methods, Talib, President & COO, Hero ECycles (A Hero Motors Company), said, perspective." don't think additive continued, "We have manufacturing limitations, take the pie certain and that's why the machining industry is working industry as such. to see how we can Of course, additive improve. But I think manufacturing has a what has changed over user in the automotive the years is the amount industry. Most additive of confidence that we manufacturing technology is basically have as an industry

improvements."

Sharing perspective on how the industry can work on reducing import dependency, Managing Ramesh, Director, Micromatic mentioned, import-export and the manufacturing data can be looked at from different perspectives, which is by numbers. A lot of work is happening, and the maturity is beginning to get better and better." He continued, "The need for locally developed solutions and thereby investments, whether it's a CNC system or fixturing, tooling, programming technology development

develop solutions are all being viewed thanks to COVID-19, and various global conflicts." Speaking on how

the cutting and tooling industry is working in tandem and addressing the challenges posed, Bharadwaj, Sales Director, Ceratizit India. cited, "I can say on behalf of the whole cutting tool industry that we have been really seeing a good partnership between the industries in some of the developments that we are doing here. The domestic market for the cutting tool has really been growing in line with the domestic machine tool. Their imports used to be a very high percentage in the past but now, almost every company has set up their manufacturing The use of technology transfer has helped us make things competitive and also bring the technology to the doorstep of the machine builders to say how the future is

looking at." Explaining impact of the changing global events such covid-19 conflicts, Nanivadekar,

Executive Director, mentioned, "Manufacturing presents exactly three times growth and if we take it the same thing, then for the machine tool industry there is a scope of growing three times, even if we are conservative the growth is definitely two times." continued, "We are gearing up and we are not going for incremental growth. We are going for a point of so that kind of an opportunity exists. Apart from whatever happens in China or whatever happens in Ukraine and Russia

and Europe, our whole

exports are less than 10

per cent. So, it doesn't

"The Indian metal cutting and machine tools

industry plays an important role in the Indian

Bharat and Make in India movement picking

manufacturing sector. With Aatmanirbhar

its pace in India, the demand for metal

matches pace with the world."

CEO - Worldwide Media

Deepak Lamba

components from the end-user sector is

only going to grow further. This would be

the perfect time for the cutting and tooling

industry to bridge the quality gaps, eliminate

technology deficit and advance as a player that

President - Times Strategic Solution Limited and

India,

industry

our domestic growth."

Building & Growing The event then proceeded to a fireside chat on the 'Indian metal cutting & forming: pushing & building capacity to become the global contender'. Moderator Kamat started the discussion by posing a question on the changing paradigm of the metal cutting & forming industry and its impact. Responding to it, Praful Shende, Deputy CEO, Bharat Fritz Werner, said, "If you really look at it, the Indian industry, two-three years before the pandemic had touched 9,500 crores. So, at one time, we were there and reaching now reaching 10,000 crores will be the first step for the industry." growth The

manufacturing here to stay and will continue to happen The main pillar, of course, the internal consumption will increase. explained, "We are seeing a great push from the government infrastructure various PLI schemes electronics, railways so, there are various growth drivers that the government has already operated externally. The growth manufacturing in India is more or less visible; it really depends on how much as an industry we can achieve. And the Indian industry machine tool industry

Addressing The **Growth Levers**

certainly is set to grow

in the medium term.'

The Indian metal cutting and forming industry is poised for extreme growth in the next five years The event highlighted the need for the industry to adapt to the changes, how they can become accustomed to it, the plan of action companies can follow

"Every strategy was drafted keeping employees, customers and every stakeholder in mind"



Our well thought strategic initiatives from product development to market development is in-line with our plan, which will enable us an optimistic growth

> organisation becoming

L S Umesh, Director & CEO, Ace Manufacturing Systems (AMS)

contributor to the metal cutting & with sustainability as a focus? Can you detail on a few strategies?

>>AMS is in business of metal cutting with focus in designing and manufacturing of machining centres for over 28 years now. From the first year of inception, the vision well defined articulated by our founders. Every strategy was drafted keeping employees, customers and every stakeholder in mind. clearly set AMS on the skyward growth path from delivering three machines in the first year to around 2000 machines in 2021. In simple, our strategy was strongly bonded

with our culture values.

AMS will soon be participating IMTEX 2023. What kind of innovation from AMS can we expect to see at the event?

>>IMTEX has finally arrived after a long gap of four years. We are very excited to be part of IMTEX 2023. This time AMS showcase combination of VMCs and HMCs product range that are suitable for applications across industry segments such as automotive, die & mould, aerospace & defence, the range of products demonstrated shows capabilities of our Indian engineering talent. The showcase highlights are high speed machining,

compact, precise and performance oriented VMCs, competitive HMCs, ram type high productive twin VMC and spindle 5-axes machines for precision components.

is company's business outlook

I here predictions of global recession in but same time many institutions agencies have given positive rating to India's growth. Our well thought strategic initiatives product development to market development is in-line with our plan, which will enable us an optimistic growth. We are expecting to grow over 25 per cent

"Situation demands business to be more agile and focused to achieve business results"



working strategies?

T P Sridhar Director & CEO, Ace Designers



The focus of new product introduction had always been to fill up the gaps felt by the customers in different market segments and also the timely introduction of products to satisfy the perceived product configuration and technology needs"

> organisation becoming contributor to the metal cutting with sustainability a focus? Can you detail on a

>>We have had the right mix of highvolume products and a complete basket of appropriate products for multiple segments. Though we have built a huge ecosystem to address large volume production of standard configurations, flexibility equal has also been built to address low volume and special requirements. have always been very strong in providing tooled-up solutions and some special executions to cater to the changing needs the customers. The focus of new product introduction had always been to fill up the gaps felt the customers different market segments and also the timely introduction of products to satisfy the perceived product configuration technology needs. We believe that we can offer the complete of products range needed in the market with both horizontal

and vertical series of lathes.

The vision is to be recognised as a global, responsible, sustainable, and most preferred organisation. We are working on initiatives like power, water, waste, material conservation to make our process and products sustainable. Ace Designers, Peenya plant was awarded with CII GBC GreenCo Bronze certification during FY22.

Micromatic Ace will soon participating IMTEX 2023. kind of innovation from Ace can we expect to see at the

event? >>IMTEX exhibition is being held at BIEC in from 19th to 25th January 2023 after a gap of four years. We are planning to show 12 machines in the exhibition, demonstrating newly developed products to bridge technology gaps in industry and cater to emerging

before our group will have the largest stall in the exhibition.

customer segments. As

How foresees the year >> The Indian machine

tool industry is having a great opportunity both with the domestic requirements higher-level demand even from the export With market. fairly high product acceptability in the markets, global we have a huge potential for growth despite the threats that are being posed by the EV, additive manufacturing, etc. especially for metal cutting machine tools. Since the global pandemic, supply chain disruptions, material cost raw escalation geopolitical tensions market dynamics are changing very quickly. This situation

demands

to be more agile and

focused to achieve

business results.

business

"Additive manufacturing unlocks new potential to manufacture capabilities"



Metal AM system account for 70 per cent of the revenues for overall system sales in the industry, while the adoption of AM has a saturation in the west, the trend has been picking up in India where it's expected to grow at a rate of 35-40 per

How is additive

Vishwas Putige

manufacturing making a difference in the industry?

growing market demands, the need of the hour is to possess the capability to process complex in shorter lead time. Additive manufacturing (AM) unlocks new potential manufacture capabilities design such as freedom without constraints traditional manufacturing, product development cycles, access to complex geometries and light weighting of parts through topology optimisation.

market trends do

envision picking up in additive manufacturing?

Business Head, AMACE Solutions

>>In 2022 the global AM market was valued at \$25 billion and is expected to grow at a CAGR of 20 per cent over the next five years. Metal AM system account for 70 per cent of the revenues for overall system sales in the industry, while the adoption of AM has a saturation in the west, the trend has been picking up in India where it's expected to grow at a rate of 35-40 per cent owing to immense government and private sector investments.

What is AMACE solutions doing differently meet the growing

interests from the industry?

has >>AM the longest time been viewed as a rapid prototyping technique limiting its thus application in the industrial scenario. AMACE solutions, 400, has been on a mission to changes this perspective and position AM as a fullfledged production technique. features on the STLR 400 such as large build volume, dual high-powered lasers many and more smart and patented point making features towards this technology more tuned towards productivity.

"We expect 100 per cent growth on FY2022"



we serve

India's focus on

establishing national infrastructure will drive tremendous growth in several sectors in manufacturing that

Madhusudan Kestur, Director, AceMicromatic Manufacturing Intelligence Technologies (AmiT)

organisation becoming a key contributor to the metal cutting & forming with sustainability as a focus? Can you detail on a few strategies?

>> I n d i a ' s manufacturing sector is poised to become an engine for huge economic growth and job creation. In order to make this growth sustainable, India's manufacturing value chains must lift their productivity. AmiT has been working with

customers, in both the

sectors of metal cutting and forming, in their adoption of Industry 4.0 & manufacturing analytics leading increased manufacturing efficiency reduction in resource consumption, waste, environmental impact.

Micromatic Ace will soon participating kind of innovation from Ace can we expect to see at the event?

>>AmiT is launching an IoT platform that

leveraged

our customers accelerate their Industry 4.0 adoption This platform would also enable us to serve our customers better, by way of providing value added services in the coming months.

company's business outlook for 2023? >>Forecast for 2023 looks very positive India's

focus on establishing national infrastructure will drive tremendous growth in several sectors in manufacturing that we serve. We expect 100 per cent growth on