



Indian Machine Tool  
Manufacturers' Association

# ANNUAL REPORT

## 2021 - 2022



[www.imtma.in](http://www.imtma.in)

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# Executive Committee 2021 - 2022

## President

### **Ravi Raghavan**

Managing Director  
Bharat Fritz Werner Limited

## Vice President

### **Rajendra S. Rajamane**

Managing Director  
Rajamane Industries Private Limited

## Members

### **Madhavi Chandrashekar**

Executive Director  
Ace Designers Limited

### **Chandrashekar Bharathi**

Managing Director  
AceMicromatic Manufacturing Intelligence  
Technologies Private Limited

### **Nisha Lobo**

Director  
Alex Machine Tools Private Limited

### **Kabir Bhogilal**

CXO, Corporate Strategy  
Batliboi Limited

### **Sagar S. Bajaj**

Chief Executive  
Biltz Cutting Tools Company

### **Sonali Kulkarni**

President & CEO  
FANUC India Private Limited

### **Mohini Kelkar**

Director - Business Development  
Grind Master Machines Private Limited

### **Vijaykrishnan Venkatesan**

Managing Director  
Kennametal India Limited

### **K. Soundhar Rajhan**

Director – Operations  
Lakshmi Machine Works Limited

### **Nikhil Agrawal**

Managing Director  
Nagel Special Machines Private Limited

### **Rajesh Bhaskar Mandlik**

Managing Director  
Setco Spindles India Private Limited

### **Vijay Pratap Singh**

Country Business Unit Head-Motion Control  
Siemens Limited

### **S. Sundariya**

Unit Head  
Wendt (India) Limited





# Executive Committee 2021 - 2022

## Past Presidents

### Indradev Babu

Managing Director  
UCAM Private Limited

### P. Ramadas

Managing Director  
Ace Manufacturing Systems Limited

### P. G. Jadeja

Chairman & Managing Director  
Jyoti CNC Automation Limited

### L. Krishnan

Managing Director  
TaeguTec India Private Limited

### Vikram Sirur

Executive Chairman  
Miven Mayfran Conveyers Private Limited

### M. Lokeswara Rao

Managing Director  
Lokesh Machines Limited

### N. K. Dhand

Chairman  
Micromatic Grinding Technologies Limited

### C. P. Rangachar

Managing Director  
Yuken India Limited

### V. S. Goindi

Chairman  
Parishudh Machines Private Limited

### Shrinivas G. Shirgurkar

Managing Director  
Ace Designers Limited

### Shailesh R. Sheth

Simtools Limited\*

### S. N. Mishra

Bharat Fritz Werner Limited

### Nirmal Bhogilal

Chairman, Batliboi Limited

### R. Srinivasan

Widia India Limited\*

### Jamshyd N. Godrej

Chairman & Managing Director  
Godrej & Boyce Manufacturing Company Limited

(\*Companies represented by Past Presidents during their tenure of Presidency)

## Invitees

### Achal Nath

Executive Director  
Ashok Manufacturing Company Private Limited

### S. Tarlochan Singh

President  
Association of Ludhiana Machine Tool Industries

### Yogin Chhaniara

President  
MTMA, Rajkot

### Dr. N. Ramesh Babu

Professor & Head  
Department of Mechanical Engineering,  
IIT Madras

### Dr. Nagahanumaiah

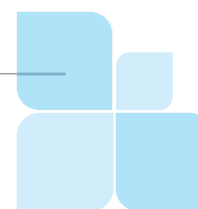
Director  
Central Manufacturing Technology Institute (CMTI)

### Sunil Taneja

Managing Director  
Ind-Sphinx Precision Limited

## Head-IMTMA Management Committee

### P. J. Mohanram



# Foreword



## Creating Blueprint for a Vibrant Machine Tool Industry

I am pleased to present the Indian Machine Tool Manufacturers' Association's (IMTMA) Annual Report for 2021-22. Our performance during the year under review was satisfactory despite the risks and uncertainties that had engulfed the business environment landscape during the early part of 2021. Indian machine tool industry is scaling back to pre covid period and hopefully the industry may be able to perhaps surpass its best year performance in FY 2022 - 23.

As India celebrates 75 years of its independence, 'Azadi ka Amrit Mahotsav' IMTMA commemorates its 75 years journey in keeping the machine tool and manufacturing industries close-knit. IMTMA's glorious journey embodies the growing prowess that India achieved, notably in engineering, manufacturing and applied research, design and development.

In the sections that follow in this annual report, we update members on the progress in implementing the machine tool industry 'vision' and the enabling role IMTMA is playing to support the industry.

### A Stable Outlook

The Association worked towards creating larger space for the machine tool industry in various sectors in terms of offering sector-specific products and solutions. The manufacturing environment in post-pandemic also played a role in making this happen. India's manufacturing PMI (purchasing managers' index) have for some time been consistently hovering over 50, indicating economic

expansion and improvement in health of manufacturing activities. It is interesting to record that industries have exhibited growth with greater resilience in FY 22 as against FY 21. The country which crossed \$400 billion in merchandise exports in 2021-2022 is being keenly looked upon by global players as an alternate source for supply chain in different industrial verticals. India was a preferred investment destination with FDI equity inflows recording a 76% rise in FY 21-22 with the rise being as high as 23% post Covid, as indicated by the Ministry of Commerce, Government of India.

### Government Initiatives

The Government of India (GoI) through several policy measures in the recent years has been endeavouring to make India a manufacturing hub. The identification of champion sectors through production linked incentive (PLI) schemes for industries, reforms towards ease of doing business, increased foreign direct investments (FDIs) in strategic sectors, infrastructure investments, reduction in corporate taxes, and AatmaNirbhar Bharat and Make in India initiatives have created good business momentum.

As a step to boost indigenization of defence production and encourage home-grown manufacturing technologies, the Ministry of Defence announced a series of measures. Plans are afoot to indigenously manufacture 209 defence items that were previously imported. This gives good opportunities for the machine tool industry which besides the defence sector is also expected to be the bedrock for various sunshine sectors for building machines which are precise, accurate, sophisticated and customized.

It is important to note that Capital Goods sector is vital for economic growth since it not only provides direct employment but is also a multiplier for indirect employment. The prevailing market size of capital goods is \$43.2 billion, as per Government of India estimates. The realignment of global supply chains, push for indigenous production, efforts towards developing logistics, creation of dedicated industrial parks and zones and a slew of such measures by the Union Government will help boost domestic production. Larger capex spend will drive the demand for machine tools and this will have a cascading effect on India's economy.



## Indian Machine Tool Industry

I am pleased to mention that the Indian machine tool industry is ranked 8th in consumption and 11th in production, globally, as per Gardner Intelligence's World Machine Tool Survey 2021.

India's machine tool production for 2021-22 was estimated at around ₹9,307 crores. Consumption was around ₹15,791 crores.

The order book position, an indicator of growing consumption, looks positive for the forthcoming financial year 2022-23 with the green shoots being evidently visible, and the performance is expected to improve in the coming quarters. Nevertheless, the industry has had many challenges to deal with such as increasing cost of raw materials impacting margins, surge in fuel prices, and supply chain bottlenecks.

Indian machine tool industry is expected to move up the value chain by offering total solutions apart from building products for the export market and increasing its domestic market share. Undoubtedly, right vision and leadership, strategy for growth in the current scenario and future proofing of supply chain, digitalisation and automation can play an important role in steering industries on a growth path in the medium and long-term.

### Association Initiatives

#### Policy Advocacy

The Association continued with its endeavours of strengthening the industry-government interactions throughout the year. The Association stepped up to the needs of the hour through its advocacies, engagements and interactions with policy-making institutions and continued with its governmental outreach.

IMTMA also put forth its suggestions and policy measures to be implemented to overcome the challenges confronting the industry. The Association advocated with senior officials from the Ministry of Heavy Industries, NITI Aayog, Department of Promotion of Industry & Internal Trade, Department of Commerce, Ministry of MSME, Ministry of Railways, etc. In these efforts, the Association has worked closely with the Confederation of Indian Industry (CII) and other national industry bodies.

A favourable outcome from the meetings was the close knit relationship established between the Indian Railways and the Indian machine tool

industry. IMTMA delegation visited five railway production units, and three railway workshops across India. The visits helped IMTMA members understand the existing set-up and types of machines and technologies that could be indigenized for the railway establishments.

#### Technology

Encouraged by the success of the Scheme for "Enhancement of Competitiveness in the Indian Capital Goods Sector" Phase-I, the Ministry of Heavy Industries, Government of India, launched the second phase of the Scheme. The uniqueness of the scheme is that it operates through six Technology Innovation Platforms, a front-ending mechanism for an industry-institution partnership towards finding solutions for technology bottlenecks.

IMTMA organized a Vision Symposium for its members on 17 and 18 December 2021 in Bengaluru. Participants deliberated on meeting the growth ambitions in terms of new products and customer sectors, developing robust supply chain through indigenous supplies, indigenising of imported aggregates and parts which will help achieve self-reliance and attract talent.

#### Special Interest Task Forces

The Task Forces formed by IMTMA is a special initiative to explore opportunities in machine tools and accessories in emerging sectors such as toys, furniture / woodworking, agriculture machinery, construction equipment, earthmoving, electronics, medical devices, railways, aerospace and defence, etc. The Association formed dedicated Task Forces to formulate a business strategy to address customers and offer customised solutions in these sectors. The task force members visited these industry sectors to obtain a deeper understanding of the opportunities for machine tools and technologies to be adopted to serve these various industry sectors. The Association has shared the summary reports of its findings with member companies, all of which have been posted on the IMTMA website for easy access.

#### Cluster Initiatives

IMTMA formed MSME clusters in 2021 to support micro and small enterprises. IMTMA - MSME Cluster in Pune region, "COBIZ" - 'Collaborative Business' and "SAHAYOG" - 'Collaboration for Success' for Members in Northern region, have conducted various activities to educate SMEs on



various business activities, inculcate value driven working practices to enable them grow as self-sustaining enterprises.

### **Other Key Initiatives**

Advanced Manufacturing Technology Development Centre (AMTDC), a Centre of Excellence for machine tools and production technology was set up by IIT-Madras in 2016 under the Ministry of Heavy Industries' Scheme for "Enhancement of Competitiveness of Indian Capital Goods Sector". AMTDC has executed product development in collaboration with 6 machine tool industry partners during Phase I of the Scheme.

The industry partners were recognized by the Government of India for development of six technologies and equipments which would help in import substitution. IMTMA encourages its member companies to come forward with their technology development challenges and proposals which can be supported through the Scheme on Enhancement of Competitiveness in the Capital Goods Sector Phase-II.

IMTMA in partnership with the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India had set up the Advanced Machine Tool Testing Facility (AMTTF) for testing machine tools and engineering equipments. AMTTF has carried out around 350 testing, trouble shooting and problem solving assignments, serving more than 70 customers during FY 2021-22.

Tumakuru Machine Tool Park (TMTP) set up at Vasanthanarasapura Industrial Area near Tumakuru is getting an encouraging response from the industry and more member companies have come forward to invest and set up industry units in the park.

IMTMA has also been engaging with its member companies by keeping them abreast of various government initiatives including the relevant notifications, press notes, orders and circulars issued by the central and state governments besides news from various industries. The information is compiled regularly in the form of newsletters and shared with member companies and industry stakeholders, periodically.

### **Training**

IMTMA has been at the forefront of skill development through its various initiatives. Towards this, it established full-scale Technology

Centres comprising Design Institute, Productivity Institute, and Automation Lab in Bengaluru, Pune and Gurugram for providing hands-on training. The Association also spread its wings in the digital space for imparting training through online training programmes as well as the eLearn initiative that could be accessed by anybody, anytime and from anywhere. Knowledge sharing webinars and instructor-led online training programmes have supplemented the classroom trainings and enabled us to break geographical barriers and reach out to a larger section of students across various regions.

This rich blend of classroom and online trainings augurs well for making available a pool of skilled workforce for the manufacturing industry.

During the year 2021-2022, IMTMA conducted a total of 316 programmes, inclusive of 165 online training programmes and 96 webinars for students and industry professionals. The Association conducted 55 physical training programmes including courses initiated by Productivity and Design Institutes. While 3,019 delegates attended the online training programmes, a record 12,399 delegates attended the webinars. Through offline programmes, IMTMA delivered 5,926 person-days of training during 2021-2022. The programmes helped students as well as industry professionals to enhance knowledge and upgrade their skills.

### **Mega Events**

IMTMA has been continuing with its endeavours to keep up with the changing requirements of the industry. To champion the cause of enhancing productivity in the manufacturing industry, IMTMA organized the 15th edition of the National Productivity Summit 2021 through a virtual platform on 10 - 11 December 2021. The two-day summit featured case study presentations on productivity improvement from leading companies and IMTMA-ACE MICROMATIC Productivity Championship Awards 2021 were conferred.

IMTMA organized 5th edition of the Symposium on Automation & Robotics on 17 - 18 September 2021 as a virtual event. The Symposium featured presentations on various facets of automation and robotics through case studies and technology presentations. "IMTMA-ifm Electronic Automation Excellence Awards" were conferred to companies to recognize and reward projects that have excelled in achieving superior performance through implementation of automation and robotics.





The 8th Machine Tool Industry Summit was organised from 19 - 21 May 2022, in Goa, with the theme "Navigating Transformational Growth through New Opportunities amidst Disruptive Challenges". The 3-day summit featured deliberations on various topics pertaining to machine tool industry prospects and engagement with high potential customers, global reach for Indian machine tools, selling and marketing in the digital age, input cost management and value engineering in a VUCA World, and so on.

### Trade Fairs

IMTMA organized IMTEX FORMING 2022 along with Tooltech and Digital Manufacturing after a gap of two-and-a-half years. The exhibition which featured 350 exhibitors from 19 countries evoked good response from the manufacturing community. Laser based technologies for cutting, welding, and marking were widely accepted by industries, both national and international. This would further fuel India's journey of becoming a global manufacturing hub. Visitors also connected with additive manufacturing and Industry 4.0 in the concurrent Digital Manufacturing show as well as the indigenous technologies displayed in the AatmaNirbhar Bharat pavilion.

The Association will continue to deploy higher level of technology and digital enhancements for exhibitions and events, keeping in view the need to reduce adverse impacts on environment.

While IMTMA will organize IMTEX 2023 & Tooltech 2023 along with Digital Manufacturing from 19 - 25 January 2023 at BIEC, the next edition of IMTEX FORMING & Tooltech will be held from 18 - 23 January 2024 at BIEC, Bengaluru.

### IMTMA - Naoroji Pirojsha Godrej International Exhibition and Conference Complex - Bangalore International Exhibition Centre (BIEC)

Face-to-face exhibitions were back in BIEC after a gap of around 20 months following the outbreak of Covid in March 2020. BIEC held the India International Jewellery Show Premiere 2021. One of the largest trade fairs in the world in an exhibition space of around 70,000 square metres with 1,300 exhibitors in September 2021. EXCON 2022, the largest construction equipment event in South Asia, IndiaWood 2022, the world's leading trade fair and expo for woodworking and furniture manufacturing industry, which evoked good response from the manufacturing community, were

some of the other key exhibitions and events held at BIEC.

The back-to-back exhibitions have brought back the much needed fillip to industries providing significant opportunities for them to explore new avenues.

### Future Thrust

As we reflect on yet another extraordinary year, the IMTMA leadership remains highly grateful to all the Past Presidents, the Executive Committee and all its members and strategic partners for their engagement, support and camaraderie that continue to make IMTMA's activities so special.

The geo-political situation in Europe is impacting manufacturing. Technology tie-ups with global machine tool companies can create opportunities for Indian companies to develop their business in overseas markets and the industry needs to focus on achieving this.

The larger part of 2021 continued to pose challenges to businesses, governments and human life in extraordinary ways, yet the Association and the machine tool industry have shown remarkable resilience in battling all the bottlenecks. The Association will continue to support the machine tool industry in every possible way, to overcome all difficulties.

**Ravi Raghavan**  
President



# Annual General Meeting

## 75<sup>th</sup> Annual General Meeting

20 September 2021: Digital Platform

Indian Machine Tool Manufacturers' Association (IMTMA) held its 75th Annual General Meeting (AGM) on 20 September 2021. The AGM was held on digital platform due to the Covid-19 pandemic situation.

The 75th AGM was a special one for IMTMA as it commemorated formation of the Association's 75 years. IMTMA formed in 1946 with 19 member companies has grown to have around 460 companies in its fold. A logo commemorating IMTMA's 75 years was unveiled and a corporate video tracing the history of IMTMA was played at the AGM.



Mr. Jamshyd N. Godrej, Past President, IMTMA, Mr. T. V. Narendran, President, Confederation of Indian Industry (CII), Mr. Sunjay J. Kapur, President, Automotive Component Manufacturers Association of India (ACMA), Mr. Jayant D. Patil, President - Society of Indian Defence Manufacturers, Mr. Dimitrov Krishnan, President, Indian Construction Equipment Manufacturers Association and Mr. Aravind Melligeri, Chairman & CEO, Aequs Pvt. Ltd. addressed participants at the AGM.

Speaking about IMTMA's growth over the years at the 75th AGM, Mr. Jamshyd N. Godrej, Past President, IMTMA said, "IMTEX, was a unique initiative of IMTMA and marked the beginning of trade fairs in India. BIEC, established by IMTMA in Bengaluru, has expanded significantly and hosts many shows. IMTMA's close association with various industries has helped its growth over the years."

Expressing his thoughts on IMTMA completing 75 years, Mr. Indradev Babu, Outgoing President of IMTMA said, "As we celebrate this milestone, it is time to remember our industry luminaries who were the guiding light for IMTMA in its formative years and played a pivotal role in establishing IMTEX and Bangalore International Exhibition Centre (BIEC). The vision set by them will be instrumental in moving IMTMA to its next phase of growth."

Concurring with Mr. Babu's views, Mr. Ravi Raghavan, said, "IMTMA will continue to tackle the numerous challenges faced by the machine tool industry in regard to supply of raw materials, working capital, tariff protection, import regulations, government purchases of machine tools, and so on."

At the Executive Committee meeting following the AGM, Mr. Ravi Raghavan was elected as President of IMTMA for the year 2021-22. Mr. Rajendra S. Rajamane was elected as Vice President for the year 2021-22. The new Executive Committee for the year 2021-22 was also formed.



# Message from Hon'ble Prime Minister of India



सत्यमेव जयते

प्रधान मंत्री

Prime Minister

## MESSAGE

I am pleased to learn about the Platinum Jubilee celebrations of Indian Machine Tools Manufacturers' Association (IMTMA) through the virtual platform. Heartiest congratulations to all the members of the Association on the momentous occasion.

The IMTMA has been serving the nation admirably, strengthening the industries and the manufacturing sector. Into its eighth decade of journey, the Association has played the role of an enabler as a technology-intensive entity.

Manufacturing remains a key sector for economic growth and new employment opportunities. During the last seven years, our Government has been taking comprehensive measures to shape India into a global manufacturing hub. Our emphasis has been on encouraging innovations and leveraging best practices to optimally harness our local expertise and help our enterprises manufacture globally competitive products.

The world today looks at India with optimism and trust. Powered by the intent, intellect, skills and entrepreneurship of our youth, India is rapidly striding towards self-reliance that is fully integrated with the world. Role of stakeholders such as IMTMA is deeply valued towards accomplishing this resolve.

As the nation celebrates Amrit Mahotsav of its Independence, it is a happy coincidence that IMTMA is completing its 75th year this year. Indeed a proud moment, the occasion will motivate everyone associated with IMTMA to take inspiration from the past achievements and draw a futuristic roadmap to contribute towards nation-building.

I wish the celebrations all success.

(Narendra Modi)

New Delhi

भाद्रपद 29, शक संवत् 1943

September 20, 2021

**Shri Indradev Babu**

President

Indian Machine Tool Manufacturers' Association

10<sup>th</sup> Mile, Tumkur Road

Bengaluru, Karnataka – 562123



# Message from Hon'ble Minister of Heavy Industries

डॉ. महेन्द्र नाथ पाण्डेय  
Dr. Mahendra Nath Pandey



मंत्री  
भारी उद्योग मंत्रालय  
भारत सरकार  
MINISTER  
MINISTRY OF HEAVY INDUSTRIES  
GOVERNMENT OF INDIA

## सन्देश

मुझे यह जानकर प्रसन्नता हो रही है कि 1946 में गठित इंडियन मशीन टूल मैनुफैक्चरर्स एसोसिएशन 2021 में अपना 75वां वर्ष मना रहा है। मुझे यह जानकर खुशी हो रही है कि IMTMA ने पिछले कुछ वर्षों में देश की विनिर्माण क्षमतावृद्धि में सक्रिय कदम उठाकर एक प्रतिष्ठित उद्योग संघ में बदल दिया है। यह बहुत संतोष की बात है कि एसोसिएशन भारी उद्योग मंत्रालय के साथ मिलकर काम कर रहा है, जिससे मशीन टूल्स और पूंजीगत सामान उद्योग के विकास के लिए नीति तैयार करने में मदद मिल रही है।

यह जानकर खुशी हो रही है कि IMTMA कौशल विकास में एक प्रमुख भूमिका निभा रहा है, जैसा कि बेंगलुरु में इसके प्रौद्योगिकी केंद्र द्वारा दर्शाया गया है। बंगलौर में आपका विश्व स्तरीय LEED प्रमाणित प्रदर्शनी केंद्र BIEC भारतीय मशीन टूल उद्योग के लिए वैश्विक दृश्यता लेकर आया है। यह मेक इन इंडिया और आत्मनिर्भर भारत की पहल को आगे बढ़ाएगा।

एक बार फिर IMTMA को 75 वर्ष पूरे करने पर बधाई। आपके एसोसिएशन की 75वीं वर्षगांठ पर, मैं IMTMA और पूरी मशीन टूल बिरादरी को बधाई देता हूं और एसोसिएशन को अपने सभी गंभीर प्रयासों को पूरा करने में कई और वर्षों की सफलता की कामना करता हूं।

(डॉ० महेन्द्र नाथ पाण्डेय)

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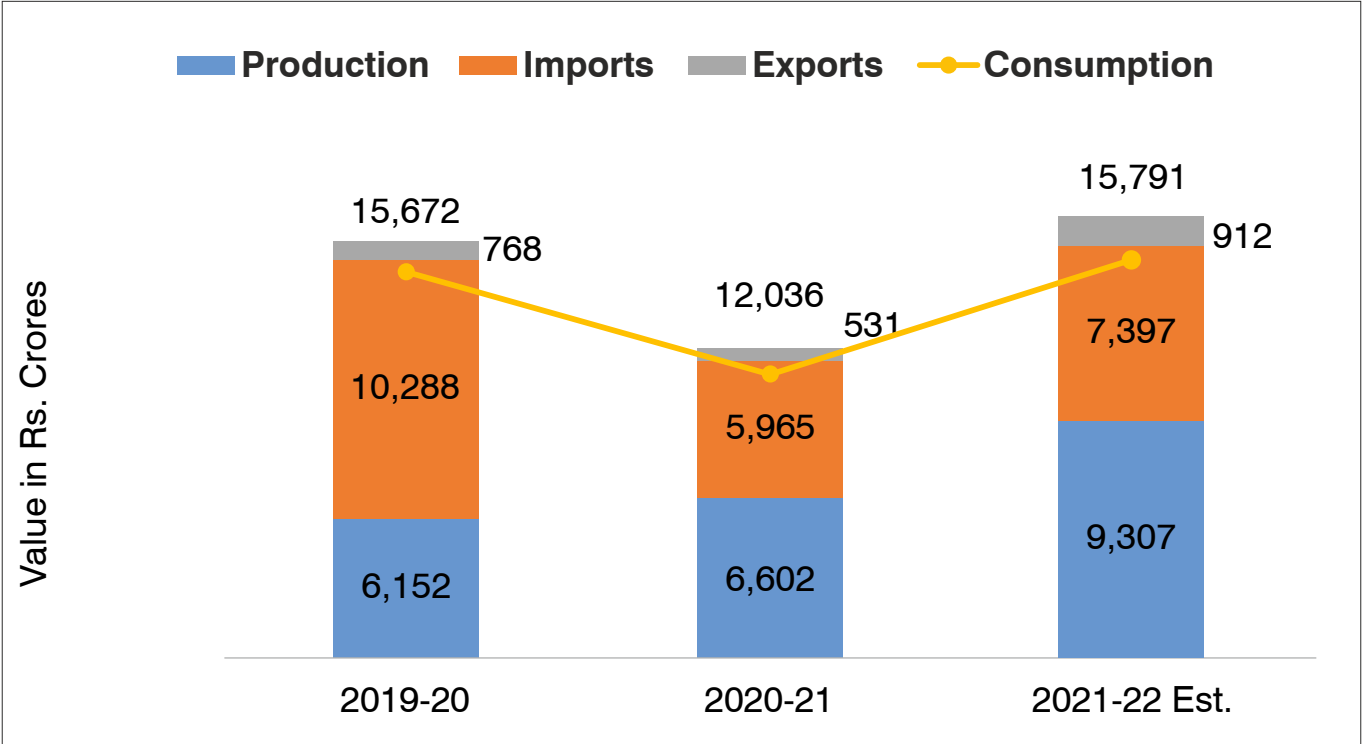
# Trends in Indian Machine Tool Industry

As per the latest 'World Machine Tool Survey' by Gardner Intelligence, India occupies 11<sup>th</sup> in production and 8<sup>th</sup> in consumption of machine tools globally in 2021. The country moved up by two ranks in the global machine tool producing nations list as against its ranking in 2020.

Indian machine tool production is estimated to have reached around ₹9,307 Crores, and consumption estimated to have reached around ₹15,791 Crores. Production is estimated to have increased by around 40% year-on-year in 2021-22 and consumption is estimated to have increased by around 30% year-on-year in 2021-22.

## Indian Machine Tool Industry 2019-20 to 2021-22

All Values in ₹ Crores



# Association Initiatives

## Policy Advocacy

The financial years 2020 - 21 and 2021 - 22 were unprecedented in terms of advocacies as well as continuous engagements and interactions with policy-making institutions for your Association and IMTMA Secretariat vis-à-vis governmental outreach.

The scale and intensity of Association's liaison with a wide spectrum of ministries and departments of the Government resulted in IMTMA being co-opted on a coveted high-powered Consultative Group, comprising select apex industry chambers, chaired by Shri Piyush Goyal, Hon'ble Minister for Commerce and Industry, Consumer Affairs, Food & Public Distribution, and Textiles, Government of India. Regular meetings of the Consultative Group were scheduled from 28 March 2020 till 12 January 2022 – primarily to deliberate on issues affecting the Indian industry from the pandemic-induced disruption, and seek suggestions from the industry. Office-bearers of IMTMA participated in the meetings, and advocated a range of recommendations, for and on behalf of the Indian machine tool industry.

IMTMA Office bearers were able to advocate and get opportunities to make exclusive presentations about challenges confronting the industry to several Government of India dignitaries – Hon'ble Minister for Heavy Industries & Public Enterprises, Hon'ble Member (Industry), NITI Aayog, Hon'ble Secretaries, Additional and Joint Secretaries in Ministry of Heavy Industries, Department for Promotion of Industry & Internal Trade, Department of Commerce, Ministry of MSME, Ministry of Railways and NITI Aayog.

A key outcome from the advocacies was the close-connect established between Indian Railways and the Indian machine tool industry. This led to IMTMA Delegation's visits to five railway production units and three railway workshops across north and south India – first-ever by IMTMA post-liberalisation. These visits enabled IMTMA

delegation members to understand the existing set-up, and type of machines and technologies that could be indigenised for the railway establishments.

IMTMA was lauded by the Ministry of Heavy Industries & Public Enterprises for bringing industry and academia on a common platform for development of eleven technologies in collaboration with “Advanced Manufacturing Technology Development Centre” (AMTDC), under the Scheme on “Enhancement of Competitiveness in the Indian Capital Goods Sector”.

IMTMA desires member companies to come forward with their technology development challenges and proposals, which can be supported through the Phase - II Scheme.

Making availability of financing options towards capex and working capital requirements for Indian machine tool industry was the other major focus of the Association in the last one year. IMTMA organized several interactive meetings between the membership and financial agencies, such as Export - Import Bank of India, Small Industries Development Bank of India and State Bank of India. IMTMA also organized webinars for the Membership on 'tax compliances, banking and corporate laws' as well as on 'Trade Receivables e-Discounting System'.

Beyond all, the Association together with Ministry of Heavy Industries, Government of India and Government of Karnataka undertook a concerted campaign to vigorously promote “Tumakuru Machine Tool Park” (TMTP), within the manufacturing industry in India as also in the machine tool industries of Japan and Taiwan. The ecosystem in TMTP has been developed with modernised infrastructure by the Government of Karnataka, with support from the Ministry of Heavy Industries, Government of India.

# Association Initiatives

## Advanced Machine Tool Testing Facility



Advanced Machine Tool Testing Facility (AMTTF) is a public-private partnership initiative between the Indian machine tool industry represented by IMTMA and the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. AMTTF serves the manufacturing industry by testing the machine tools and engineering equipment, to qualify the performance, as per relevant Indian and international standards.

Apart from periodic testing, calibration and vibration monitoring activities, AMTTF delivered greater value by investigating performance issues that affect the final output from machine tools and related equipment. AMTTF has rendered such

services to many manufacturing units, and the services rendered by AMTTF have been well appreciated by companies. The special testing and investigation assignments carried out by AMTTF include, root cause analysis for chatter, surface roughness, static and thermal study, vibration and dynamic stability and mode shapes. AMTTF has provided safety certification of CNC Machines and wood working machines as per relevant standards.

AMTTF has carried out around 350 assignments, serving more than 70 customers during FY 2021-22. AMTTF clients have expressed satisfaction with the speed and quality of services rendered by it.

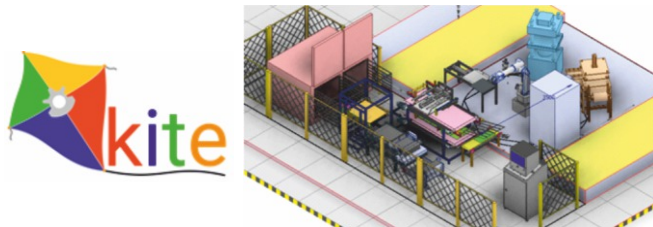




# Association Initiatives

## Advanced Manufacturing Technology Development Centre

Advanced Manufacturing Technology Development Centre (AMTDC) is a Centre of



Excellence for machine tools and production technology set up by IIT-Madras in 2016 under the 'Scheme for Enhancement of Competitiveness of Indian Capital Goods Sector' of the Ministries of Heavy Industries (MHI), Government of India.

During the year 2020 - 2021, AMTDC developed and deployed 'Kite', a technology innovation platform for indigenization of technologies. The key objective being to curate knowledge from different sources including users data that is publicly available and store them as graphs, connect businesses with OEMs that can deliver the required products, allow users to determine best possible manufacturing process, etc.

AMTDC has proposed 6 projects under Scheme on Enhancement of Competitiveness in the Indian Capital Goods Sector with industry participation which are in various stages of sanction. This is for machine tool related product and technology development.

## Vision Symposium

**Realigning Strategies for Disruptive Challenges & New Opportunities – Transformation Imperatives for Indian Machine Tool Industry**

**17-18 December 2021: Hotel Taj Yeshwantpur, Bengaluru**



'Vision' Conclave for CEOs and "UDAAN" members of the Indian machine tool industry have been an apt forum for discussions connected to the industry's future. Given the pandemic environment, a need for continuity of the 'Vision' journey became more realistic. IMTMA organized the 'Vision' Symposium for CEOs and "UDAAN" members on 17 and 18 December 2021 in Bengaluru, with the theme "Realigning Strategies for Disruptive Challenges & New Opportunities – Transformation Imperatives for Indian Machine Tool Industry".

The event was inaugurated by Mr. Vinayak Chatterjee, Chairman National Council on Infrastructure, CII, who gave an extensive elaboration about recent public policy interventions in Indian infrastructure along with the interventions framework.

Other key highlights included a 'Special Keynote Address' by Mr. Vikram S. Kirloskar, Former President, CII & Vice Chairman, Toyota Kirloskar Motor on benefits of "AatmaNirbhar Bharat" for Indian manufacturing; as well as 'Special Session Address' by Mr. T. R. Parasuraman, President & Deputy Managing Director, Toyota Industries Engine on collaborative approach in managing tech-transformations.

Besides, there were two 'Special Sessions' – new avenues of financing and managing talent & harnessing skill-sets.

Unique facets of 'Vision' Symposium were the addresses by 'Vision' "Gurus" – 'development of a robust supply-chain' and 'criticality of indigenising vital aggregates' by Mr. R. Srinivasan and 'scanning the future' by Mr. Shailesh Sheth.



# Association Initiatives

## IMTMA - MSME Cluster Initiatives



### COBIZ - 'Collaborative Business'

IMTMA formed MSME clusters in 2021 to support micro and small enterprises. IMTMA MSME Cluster initiative in Pune, 'COBIZ' was formed in February 2021 to enable SME members to discuss and work together for mutual benefit, continually learn, nurture and grow into competitive companies. Around 15 companies are part of 'COBIZ'.

Sessions have been conducted on effective digital marketing, registration and use of government e-marketplace, succession planning, working beyond boundaries, building business immunity, school of inspirational leadership, workshop on developing vision, mission and defining values. Based on learning from interactions, factory visits, sessions and meetings of cluster and members have taken steps for creation of content for presence in digital space, registration and use of



GEM portal for business with government sector, development of vision and value systems for individual organizations, various tools and system implementation for better management of production and better resource utilization, effective human resource management by deployment of better HR practices, employee engagement methods, improvement in productivity, and exploring business opportunities among members.

### SAHAYOG - 'Collaboration for Success'

IMTMA MSME Cluster initiative for northern region which comprises of members from National Capital Region of Delhi and Punjab was formed in 2021. A total of 5 e-interactions have taken place. It was opined that on technology, innovation, quality and self-reliance besides having a steering committee and a roadmap akin to other regional clusters.

## Green Manufacturing Cell

IMTMA's 'Green Manufacturing Cell' (GMC) was set up in 2018 to enable member companies in their quest to become world-class green manufacturing companies and enable them manufacture machine tools as green products. IMTMA organizes the training and facilitates hand hold support to implement the green manufacturing practices as

per standards for evaluation and certification from CII-GBC GreenCo.

During year 2021-22, M/s ACE Manufacturing Systems (AMS) rated GreenCo - Gold and M/s ACE Designers rated as GreenCo - Bronze, by CII-GBC GreenCo.



# Association Initiatives

## Special Interest Task Forces

The Task Forces formed by IMTMA is a special initiative to explore opportunities in machine tools and accessories in emerging sectors such as toys, furniture / woodworking, agriculture machinery, construction equipment, earthmoving, electronics, medical devices, railways, aerospace and defence, etc. These Task Forces have carried out visits to various industry sectors.

### **Bharat Earth Movers Limited (BEML), Bengaluru**

IMTMA delegation visited BEML, Kolar Gold Fields on 12 August 2021 to understand the manufacturing requirements of BEML. Requirements captured during the visit and interactions included replacement of existing machines with multi-spindle machines, SPMs for integrating multiple operations, machining area and pin press, need for medium and large size metal cutting equipment, low cost automation for welding operations, IoT related general automation solutions for tracing and tracking of components, etc.

### **Rising Star Mobile India (A Foxconn manufacturing facility)**

IMTMA delegation visited Rising Star Mobile India Limited (RSMIL), a Foxconn manufacturing facility on 12 August 2021. The delegation visited two plants of RSMIL, L6-L10 manufacturing facility, an electronic PCB assembly and testing facility (L6) and final assembly facility (L10). Second plant was the L5 manufacturing facility which carries out final assembly of feature phones, largely manually.

### **IWST - Advanced Wood Working Training Centre, Bengaluru**

IMTMA delegation visited Institute of Wood Science and Technology (IWST), a research institute in Bengaluru, on 1 October 2021. The delegation captured first-hand information about various wood working machineries, types of woods, wood processing aspects, basics of seasoning and also exploring and generating opportunities for

machine tool industries to build machinery and equipment for the wood working and furniture manufacturing industries.

### **TATA Motors and Tata Auto Comp Systems, Pune**

IMTMA delegation visited TATA Motors and Tata Auto Comp Systems, Pune, on 12 November 2021. The delegation gained information on electric vehicle manufacturing and supply chain requirements. Business opportunities in transmission, battery assembly, testing and automation were identified. Battery pack manufacturing and motor and associated sub-system manufacturing units at Tata Auto Comp Systems Plant Facility were visited. Laser welding of individual cells, gear manufacturing offers opportunity for our members, apart from other opportunities.

### **Railway Units**

IMTMA delegation visited key railway production units in Punjab on 16 and 17 November 2021 to understand the requirements of rail coach factories in Kapurthala, Patiala, etc. Some of the key requirements of the Kapurthala unit includes laser / plasma / infrared heating process, robotic shell assembly jig, automated bogie assembly line, etc. Patiala unit was keen to identify solution providers of retro-fitment of CNC system and upgradation, alternative cost-effective system on grinding machines, retro-fitment of spindle drive, etc.

### **Dasmesh Mechanical Works | Preet Agro | Manku Agro Tech**

IMTMA delegation visited Dasmesh Mechanical Works, Preet Agro, Manku Agro Tech units on 17 and 18 November 2021. At Dasmesh Mechanical Works, there is a need for indigenous manufacturers to develop products at competitive rates, stability in pricing of after-market sub-supplies / key aggregates. Preet Agro sought support of the Indian machine tool industry in training of its workforce on machine maintenance,

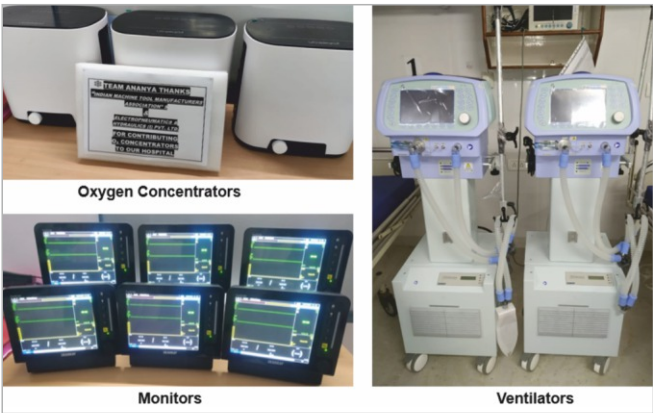
# Association Initiatives

preferably in local language. Indian machine tool companies were apprised of the need to indigenise key components. Manku Agro Tech stressed on a need to maintain consistency in quality by Indian manufacturers.

## Woodtech Consultants, Bengaluru

IMTMA delegation visited Woodtech Consultants in Bengaluru on 11 March 2022 to explore opportunities for machine tools in woodworking sector and enable the machine tool industry build capital goods (machinery) for this sector.

## CSR Initiatives of IMTMA



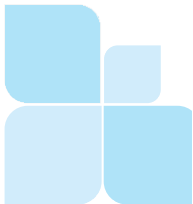
IMTMA provided critical care medical equipments for Covid treatment such as monitors, ventilators and oxygen concentrators to Ananya Hospital in Bengaluru. Integrated Project for Development of People (IPDP), a Bengaluru based NGO partnered IMTMA in executing this project.

## Key Activities by Agastya Foundation



IMTMA has been partnering with Agastya Foundation, an Indian education trust and non-profit organization based in Bengaluru for school children by conducting Mobile Science Lab in neighbouring villages of Madanayakanahalli and Madavara. The following events were conducted in 2021-2022:

- Face to Face Intervention
- Mini Science Fair
- World Animals Day
- National Constitution Day
- Mathematics Day
- Virtual Interaction Program for Resource People





# Association Initiatives

## IMTMA Regional Council (North)

### Meeting on 21 July 2021: Digital Platform

The 44th meeting of IMTMA Regional Council (North) was held online. Mr. Vivek Nigam, Chairman, Regional Council (North) chaired the meeting. Members shared their views on current business conditions such as agriculture implement manufacturers getting affected due to ongoing farmers' agitation and import policies. Ms. Sanchita Majumdar, DGM, Direct Credit Virtual, Small Industries Development Bank of India (SIDBI), briefed members on SIDBI's financing schemes for MSMEs.

### Meeting on 8 January 2022: Digital Platform

The 45th meeting of IMTMA Regional Council (North) was held online. Mr. Sunil Taneja,

Chairman, Regional Council (North), chaired the meeting. He invited members of the regional council to share their views especially on members availing finance facility being provided by SIDBI. A briefing on 'visit to Agri-implement manufacturers in Punjab' was also organised.

### Meeting on 22 April 2022: Digital Platform

The 46th meeting of IMTMA Regional Council (North) was held online. Mr. Y. Balaramaiah, Director, AMTTF and the team briefed members about AMTTF and its services to the industry. Mr. Satish Kumar, Senior Advisor, IMTMA briefed members on the Scheme for "Enhancement of Competitiveness in the Indian Capital Goods Sector" Phase-II.

## IMTMA Regional Council (West)

### Meeting on 24 December 2021: Digital Platform

A meeting of IMTMA Regional Council (West) was held online. Mrs. Mohini Kelkar, Chairperson, Regional Council (West) briefed members about the activities of Regional Council (West) organised during the year, highlighting the following developments:

- Interactive meeting with the Dean, R&D and team of professors from IIT, Bombay was held on 22 June 2021 with the objective of exploring the possibility of joint working in R&D.
- CEO Connect webinars connecting academia and engineering colleges was held on 16 August 2021 for WADIA College of Engineering and for DKTE COE, Kolhapur on 28 September 2021.
- A special session for regional council members on "Building Business Immunity" was organized on 12 October 2021.

### Meeting on 23 April 2022: Digital Platform

A meeting of the IMTMA Regional Council (West) was held online. Members discussed industry trends, reviewed the activities of the Regional Council (West), the progress of COBIZ cluster, and the Machine Tool Industry Summit. Members also discussed on connecting with academia / engineering colleges and conduct sessions by SIDBI on finance schemes, sessions on HR practices, banking and finance, cash flow management, supply chain challenges, etc. Other proposed initiatives included arranging factory visits, plant visits, etc.

### Meeting on 11 May 2022: Digital Platform

A meeting of IMTMA members (Western region) along with a special session by SIDBI on Financing and Credit Schemes was held online. Members discussed the activities undertaken by the Regional Council (West). Mr. Rajesh Mandlik made a presentation on the journey of COBIZ Cluster.

# Association Initiatives

## IMTMA Regional Council (South)

### Meeting on 19 November 2021: Digital Platform

The first meeting of the reconstituted IMTMA Regional Council (South) for the year 2021-2022 was held online. Coinciding with this meeting, a special session on “Living in a Dysfunctional World – Strategies for Survival, Revival and Growth” was organized. Mr. Shailesh Sheth, Past President, IMTMA, shared his thoughts on the current dynamics of the VUCA world and how companies need to adopt paradigm shifts in their business processes to ensure sustained growth. Members were apprised about industry trends in the Indian machine tool industry. The following initiatives were discussed and proposed to be implemented during the forthcoming Regional Council (South) meetings:

- Special session on Finance and cash flow management, and other areas of mutual pertinence.
- Intra member facility / plant visits
- Fostering collaborative / partnership approach amongst member companies
- Initiatives to boost exports
- Consortium approach for purchase of input components for machine tool building (Eg. Raw materials, components, sub-systems etc.)

### Meeting on 4 June 2022: BFW, Bengaluru

A meeting of IMTMA Regional Council (South) was held at Bharat Fritz Werner (BFW) Limited.



Coinciding with this meeting, a visit to BFW and m2nxt was organised. Members were apprised on industry trends pertaining to consumption, production, and exports of the Indian machine tool industry, over the previous financial year. Initiatives discussed and proposed to be implemented during forthcoming Regional Council (South) meetings included:

- Consortium approach for procurement of steel
- Fostering collaborative / partnership approach amongst member companies to boost exports
- Connect with associations in overseas countries to promote exports amongst their member companies



## Trade Fairs



16 - 21 June 2022: BIEC, Bengaluru, India



### The Show at a Glance

IMTMA organized its flagship IMTEX FORMING 2022 & Tooltech 2022 along with Digital Manufacturing after a gap of more than 2-and-a-half years as an in-person show. The exhibition generated around ₹500 crore worth business orders and around ₹4600 crore worth business enquiries.

IMTEX FORMING 2022 drew an encouraging response from exhibition industry stakeholders worldwide, featuring around 350 exhibitors from 19 countries and attracting a footfall of 25,656 business visitors. Laser cutting machines, presses and press brakes were widely prevalent.

This would further fuel India's journey of becoming a global manufacturing hub. Visitors also connected with Additive Manufacturing and Industry 4.0 in the concurrent Digital Manufacturing show as well as the indigenous technologies displayed in the AatmaNirbhar Bharat pavilion.

For the first time in IMTEX, digital tools developed in-house for seamless to and fro freight vehicle movements during set up and dismantling was implemented.





# Trade Fairs

## Key Facts and Figures

### Total Number of Exhibitors

350

### Number of Visitors

25,656

### Exhibitors from 19 countries

Austria | China | Czech Republic | Denmark | France | Germany | India | Italy | Japan | Korea | Malaysia | Netherlands | Portugal | Singapore | Spain | Switzerland | Taiwan | Turkey | United Kingdom

### International Associations from 5 Countries

AMT - The Association for Manufacturing Technology, USA | Japan Machine Tool Builders' Association, Japan | Taiwan Association of Machinery Industry, Taiwan | UCIMU-Sistemi Per Produrre, Italy | VDW (German Machine Tool Builders' Association), Germany

### Participation from 7 Partner Associations / Institutions

Advanced Manufacturing Technology Development Centre | Advanced Machine Tool Testing Facility | Confederation of Indian Industry | The Indian Institute of Welding | Karnataka Udyog Mitra | Tool & Gauge Manufacturers Association | Tumakuru Machine Tool Park

### 20 Institutions Represented in the i2 Academia Pavilion

Acharya Institute of Technology, Bengaluru | Cambridge Institute of Technology, Bengaluru | Dayananda Sagar University, Bengaluru | IIT Bombay, Mumbai | NMAM Institute of Technology, Udupi | PSG College of Technology, Coimbatore | PSG College of Technology (Robotics and Automation Engineering), Coimbatore | Dr. Vishwanath Karad MIT World Peace University, Pune | Government Tool Room and Training Centre, Bengaluru | IIT Madras, Chennai | Jawaharlal Nehru Engineering College, Aurangabad | Kalpataru Institute of Technology, Tiptur | New Horizon College of Engineering, Bengaluru | Siddaganga Institute of Technology, Tumakuru | Vemana College of Engineering, Bengaluru | KLS Gogte Institute of Technology, Belagavi | Vishwakarma Institute of Information Technology, Pune | Shri Vishnu Engineering College for Women, Andhra Pradesh

### Jagruiti IMTMA-Youth Programme had participation from 6 Institutions

Atria Institute of Technology | BMS Institute of Technology and Management | Indian Institute of Technology, Chennai | Raja Rajeswari College of Engineering | Acharya Institute of Technology | Jain University.

### Live Demo on Industry 4.0

Around 230 participants got themselves acquainted with the evolutionary Industry 4.0 concepts at the IMTMA Technology Centre during the exhibition.

### 750 industry delegates from 250 companies visited as Trade Delegations

Comprising of decision makers, purchase and plant heads, and technology experts from: Government of India | Government of Karnataka | Automotive | Defence | Railways | Aerospace | Power | White and Brown Goods | Medical Equipment Manufacturing | Woodworking | Electronics | Textiles | Steel | Agriculture Machinery | Turbines | Alstom | Ashok Leyland | Axles India | Bajaj Auto | BDL | BEL | BHEL | Bosch | Carborundum | Escorts | Havells | Hawkins | Hero Cycles | HAL | Hitachi Astemo | Honda Motorcycles | India Yamaha | Infosys | Rolls Royce | ISRO | L&T Construction | Neel Metal | Rail Wheel Factory | Sterling Tools | Tata Sikorsky Aerospace | ThyssenKrupp | TII India | Titan | Toyota Industries Engine India | Toyota Kirloskar Auto Parts | TVS Motors | U R Rao Satellite Centre, and many more. **(List illustrative)**

### Orders Booked

Around ₹ 500 crores\*

### Enquiries Generated

Around ₹ 4600 crores\*

\*As reported on last day of the show

# Trade Fairs

## Concurrent Events



# i2

### Academia Pavilion

The i2 Academia Pavilion, a platform for sharing academic innovations with industries witnessed participation from 20 colleges including IITs.

CMR Institute of Technology won the first prize for Additive Manufacturing for Medical Implants. Vemana Institute of Technology won the second prize for Dynamic Behaviour of Materials. KLS Gogte Institute of Technology bagged the third prize for Joining of 3D printed parts by FSW technique to overcome the bed size limitation of an FDM 3D printer applied to UAV wings. Dr. Vishwanath Karad MIT World Peace University won a consolation prize for Micro Forming Analysis of Aerospace Materials. IIT, Bombay won a consolation prize for Advanced Manufacturing.



### Jagruti IMTMA-Youth Programme

IMTMA along with UDAAN members organized Jagruti to familiarize students with the manufacturing industry. 12 students from 6 colleges: Atria Institute of Technology, BMS Institute of Technology and Management, IIT - Madras, Raja Rajeswari College of Engineering, Acharya Institute of Technology, and Jain University, attended the programme.

### Digital Manufacturing

As part of Digital Manufacturing pavilion, companies showcased a wide range of technologies in Additive Manufacturing and Industry 4.0 concepts. The aim was to help companies maximize the value of their products and processes by providing end-to-end visibility and control of production processes.



# Trade Fairs

## Special Highlights



**AatmaNirbhar  
Bharat Abhiyan** | **my  
GOV**  
मेरी सरकार



### AatmaNirbhar Bharat Pavilion

Exhibitors displayed indigenous technologies advocating self-reliance in manufacturing. Around 10 companies, Ace Designers, Amace Solutions, Bharat Fritz Werner, Chennai Metco, Electropneumatics & Hydraulics, Grind Master Machines, MTAB Engineers, Pragati Automation, and Sahajanand Laser Technology, UCAM, participated in the pavilion.

### IMTMA & IIW join hands for WELDEXPO

IMTMA and Indian Institute of Welding (IIW), Pune signed an agreement on 16th June 2022 to jointly organize WELDEXPO, an exhibition on welding, cutting and joining along with IMTEX FORMING 2024 onwards at BIEC, Bengaluru.

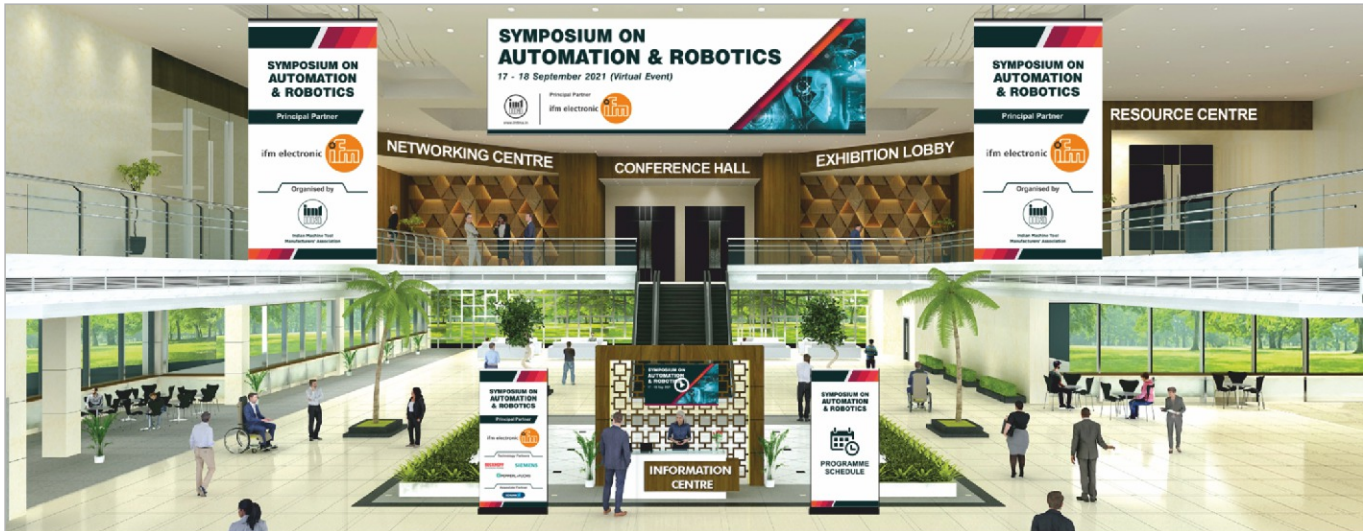




# Mega Events

## Symposium on Automation & Robotics 2021

17 - 18 September 2021: Virtual Event



Indian Machine Tool Manufacturers' Association (IMTMA) organized the "Symposium on Automation & Robotics" on September 17 & 18, 2021 as a virtual event. The Symposium featured presentations on various facets of automation through case studies and technology presentations. The event witnessed a record participation of 2,500+ delegates from over 190 companies, across a wide cross-section of the manufacturing industry.

The symposium featured keynote presentations from industry experts, viz.

- Dr. Vijay P. Bhatkar, Chairman, Centre for Development of Advanced Computing, Government of India (CDAC) and Chancellor, Nalanda University, on "Automation beyond Imagination"
- Dr. Michael Kleinkes, Managing Director, VMT Vision Technic, Germany, on "Machine Vision for Manufacturing"
- Mr. Bernd Lieberth, Head of Factory Automation, on "Artificial Intelligence in Automation and Manufacturing".

Twelve case studies and four technology presentations were presented over the course of 2 days at the Symposium. The 'IMTMA – ifm electronic Automation Excellence Awards 2021' were conferred on companies which have excelled in achieving superior performance in the industry through implementation of automation and robotics projects.

### Winners of 'IMTMA – ifm electronic Automation Excellence Awards 2021'

- First prize was awarded to Dana Anand India Pvt. Ltd. for their case study presentation on "Nissan line automation and digitalization".
- Second prize was awarded to Mekhos Technology Services & Terumo Penpol for their case study presentation on the "Breakable cannula assembly machine".
- Third prize was awarded to Godrej & Boyce for their case study presentation on "Throughput Improvement at the Medical Refrigerator Line by Automating the Processes".

# Mega Events

## National Productivity Summit 2021

10 - 11 December 2021: Virtual Summit



The 15th edition of the National Productivity Summit was organised on the virtual platform on 10 - 11 December 2021, with the theme “Showcasing Excellence in Manufacturing”. The Summit featured insightful keynotes and live case-study presentations on various facets of manufacturing competitiveness and excellence. The event witnessed a record participation of around 2700 delegates from over 160 companies across a wide cross-section of the manufacturing industry.

The National Productivity Summit 2021 featured 3 keynote presentations from industry experts, viz.

- Leveraging I4.0 and Digitization to improve Competitiveness', Mr. Soumitra Bhattacharya, President & Managing Director, Bosch Limited

- Managing Costs by Improving Productivity', Mr. T. R. Parasuraman, President & Whole Time Director, Toyota Industries Engine India, and
- Leveraging Digital Technology to Enhance Productivity', Mr. B Santhanam, CEO - Asia Pacific & India Region, Saint-Gobain Group, on.

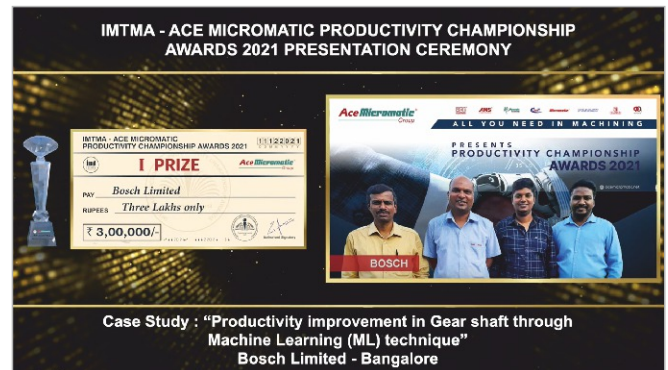
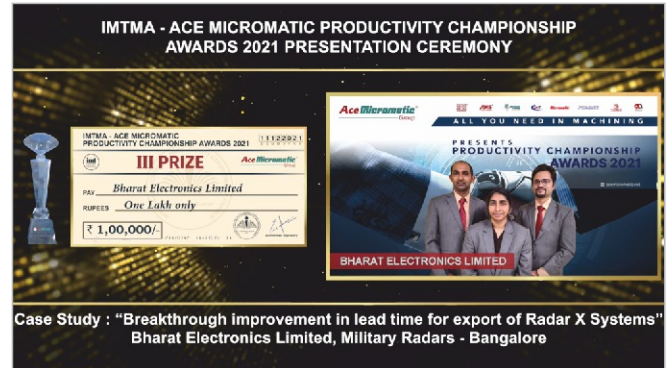
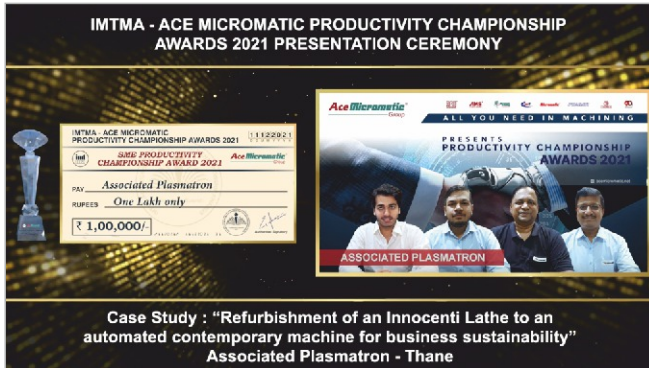
Leading manufacturing companies such as Bharat Electronics Limited, Hindustan Aeronautics Limited, Mahindra & Mahindra, TVS Motor Company, Bosch, ZF Wabco, Badve Autocomps, UCAL Fuel Systems, ROOP Automotive, Associated Plasmatron, and Watson & Chalin India, presented their case studies at this summit.





# Mega Events

## IMTMA-ACE MICROMATIC Productivity Championship Awards 2021



First prize was awarded to Bosch, Bangalore, for their case study presentation on 'Productivity Improvement in Gear Shaft through Machine Learning (ML) Technique'.

Second prize was awarded to UCAL Fuel Systems, Chennai, for their case study presentation on 'Business Transformation through Process Re-engineering:- Process, Product, People'.

Third prize was awarded to Bharat Electronics Limited, Bangalore, for their case study presentation on 'Breakthrough Improvement in Lead Time for Export of Radar X Systems'.

SME Productivity Championship Award 2021 was awarded to Associated Plasmatron, Mumbai, for their case study presentation on 'Refurbishment of an Innocenti Lathe to an Automated Contemporary Machine for Business Sustainability'.



# Mega Events

## Machine Tool Industry Summit

19 - 21 May 2022: Goa



IMTMA organized the 8th Machine Tool Industry Summit in Goa from 19-21 May 2022. This Summit provided a forum to the entire machine tool fraternity, viz., machine tool builders, sub-suppliers, accessories, and allied equipment manufacturers, vendors, R&D institutions, industry experts and individuals to network, collate ideas and set forth a process of organized thinking, analysis and deliberations.

Around 300 delegates from the machine tool industry participated in this Summit. The 3-day summit featured panel discussions and presentations from industry experts. The summit had multiple thought-provoking sessions which provided a platform for introspection and brainstorming.

Mr. Rajesh Khatri, Vice President- PV Operations, Tata Motors Passenger Vehicles Limited, delivered the keynote address on “Transformation in Indian auto sector : 2022-32”, wherein he spoke about the evolving developments in the automotive industry and the opportunities & challenges that lie ahead for the Indian machine tool industry.

The 3 day summit witnessed deliberations on various pertinent topics such as Opportunities and disruptions in a new India, Machine Tool industry prospects in sunrise sectors, Global reach for Indian Machine Tools, Selling & marketing in the digital age, Input Cost Management and Value Engineering in a VUCA World, Improving Manufacturing Performance, Reinvigoration of Human Resources in a Tech-Focused Industry, amongst others.



# Technology & Training

## IMTMA TECHNOLOGY CENTRES

IMTMA Technology Centres are closely associated with skill development initiatives. During the financial year 2021 - 2022, IMTMA conducted a total of 316 programmes, inclusive of 165 online training programmes and 96 webinars for students and industry professionals. The Association also conducted 55 physical training programmes including courses initiated by Productivity and Design Institutes. While 3,019 delegates attended the online training programmes, a record 12,399 delegates attended the webinars. Through offline programmes, IMTMA delivered 5,926 person-days of training during 2021-2022.

### eLearn

#### Access – Anybody, Anytime, Anywhere

The E' Learning programme is an initiative to disseminate knowledge in 10 courses with 75 hours of content from design to manufacturing



which can be accessed 24\*7. The courses are prepared by subject matter experts from various industry domains and by providing industry examples connect the learners to shopfloors. Digital interactivity through animations and videos and embedded periodical knowledge checks ensure ease of learning. Candidates are certified after the final assessment. The initiative is well recognized by industries and institutions Companies such as TVS Motors, Wabco India, Buhler India, Buhler Switzerland, Hindustan Aeronautics Limited, ELGI Equipment, and several IMTMA member companies besides institutions such as KLE Technological University, Hubballi and Sri Vishnu Group of Institutions, have procured licenses.

### Short-term Training Programmes

#### IMTMA Certified SIX SIGMA Green Belt Professional

##### 24 August - 22 September 2021: Online

Indian Machine Tool Manufacturers' Association (IMTMA) conducted a 36 hours online training programme on 'Certified Six Sigma Green Belt Professional' for manufacturing and service industry professionals in August - September 2021. The training was imparted by Mr. Subrata Mitra Majumdar, Six Sigma Master Black Belt from Indian Statistical Unit Bengaluru.

The training had virtual classroom exercises and assignments to enable participants learn the various tools and practices. Training was done in staggered sessions over a period to ensure that participants can read the materials after every session. Candidates were awarded with Certified Green Belt Professional only after successful implementation of the six sigma project, test and evaluation by experts.

#### Placement Drive - Graduate Apprentice Trainee – TIEI

##### 1 October 2021: IMTMA, Bengaluru

Indian Machine Tool Manufacturers' Association (IMTMA) hosted a placement drive for Toyota Industries Engine India (TIEI) at its office in Bengaluru. Around 70 students of 2020-2021 batch from prominent engineering colleges in Karnataka participated in the drive. The candidates underwent a 30 minutes technical written test and a face-to-face technical interview.

A quick tour of IMTMA Technology Centre equipped with Industry 4.0 lab was conducted for



# Technology & Training

the students. A presentation highlighting skill development initiatives at IMTMA was delivered alongside a thought provoking technical quiz



session for the participants. The programme was conducted in a seamless manner following all the Covid protocols.

## India Skills - National Competition on Robot System Integration

**28 - 30 December 2021: IMTMA, Bengaluru**

Indian Machine Tool Manufacturers' Association (IMTMA) conducted the India Skills - National Competition on Robot System Integration, which was organized as part of the IndiaSkills Competition 2021. The 3 day programme drew participation from 14 students. A 3 member jury from FANUC India, Indian Institute of Technology - Kharagpur (IIT-K) and IMTMA evaluated the



students. Two students were shortlisted to participate in WorldSkills Shanghai 2022.

## IMTMA FEdream Women Empowerment Initiative

**21 February to 21 April 2022: IMTMA, Bengaluru**

Twenty-three women candidates selected as part of the "women exclusive initiative" underwent a

comprehensive training on "Design and Manufacturing of Special Purpose Machine". The budding engineers from various regions of India attended the training as part of a joint initiative of IMTMA and FEdream, a non-profit organization that sends underprivileged girls in India to college. The course was designed to make the women engineers an asset to any company by inculcating



in them skills which would enable them to manage the challenges of working in manufacturing industries.

As part of the training process, in addition to imparting design and manufacturing skills, candidates were taken through various activities such as soft skills, quiz completion, advisory talks from women entrepreneurs, tests, projects and group discussions to facilitate effective learning. All of them were hired by IMTMA member companies.

## IMTMA - PMC TECH "Specialisation in Design and Production Engineering"

**25 April - 4 June 2022**

A batch of 56 students from Er.Perumal Manimekalai College of Engineering (PMC TECH) underwent a six weeks training at Indian Machine Tool Manufacturers' Association (IMTMA) Technology Centre in Bengaluru. IMTMA in imparting training in Design Engineering at Design Institute and Production Engineering at Productive Institute adopted the "Learning by Doing" methodology to enhance the knowledge and skill sets of students in their respective domains. More than 25 industry experts delivered sessions on multiple topics to bring in specialized inputs and industry best practices.



# Technology & Training



Students got hands-on practice in working with conventional machines, CNC machines, measuring instruments, tooling and fixturing, 3D CAD Design and modelling, 2D manufacturing drawings, etc. besides soft skills such as communication, presentation, mock interviews,



etc. A valedictory function to award and certify the students was held on 7 June 2022 at IMTMA. Students who were presented with certificates shared their experiences on the six weeks training, and mentioned that the six weeks course took them through a “transformation journey”.

## Live Industry 4.0 Demonstration

IMTMA organized a live demonstration of Industry 4.0 at IMTMA Technology Centre during IMTEX FORMING 2022. It was attended by 230 delegates. Participants were able to see a model smart factory, digitally connected CNC turning, CNC machining, coordinate measuring machines, real-time machine monitoring through data acquisition devices and CNC controls, etc.



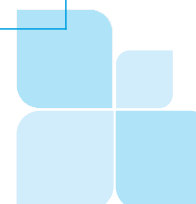
# Calendar of Events - 2021 - 2022

## July 2021

Online Training Programmes	
30 June -1 July 22	Hot Forging Technology - Processes, DFM, Quality and Cost Considerations
2	Cleaning of Machined Components - Need, Process, Do's and Don'ts
6 - 7	Quick changeover techniques in Manufacturing through SMED principles
8 - 9	How to become an effective FMEA Practitioner as per combined AIAG & VDA Version
8 - 9	Induction hardening - Metallurgy, Process and Equipment
12 - 16	Design Optimization using Finite Element Method (FEM) - An Industrial Approach
13 - 14	Selection of Motors for Industrial Applications
13 - 14	Hot Forging Technology - Processes, DFM, Quality and Cost Considerations
15 - 16	How to get the best out of CMMs
21 - 23	Fundamentals of Tolerance Stack-up Analysis
22 - 23	Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance
22 - 23	Effective New Product Development (NPD) Process
22 - 23	Improving Energy Efficiency at Plant Level
26 - 30	Know your Pressure Die Casting Dies (PDC) Design Considerations, Diecast Parts, Process, Manufacturing and Troubleshooting
26 - 30	Advanced Programming for CNC Machining Centres
26 - 30	Design, Integration, Maintenance & Troubleshooting of Hydraulics Systems
Certification Programme	
13 - 31	Certified Lean Practitioner - Achieving MAXimum from MINimum
Unique Programme	
19 - 24	Effective Sales and Marketing of Machine Tools and Accessories (Six Modules)
Classroom Training Programme	
19 July - 28 August	Hands-on Training on Industrial and Machine Automation for Digital Manufacturing
26 July - 18 Sept	Hands On Training on Machine Tool Design - CNC GPM / SPM (Hybrid program)

## August 2021

Online Training Programmes	
3 - 4	Programmable Logic Controller (PLC) – A Key Technology for Industrial Automation
3 - 4	Defects Analysis and Troubleshooting of Injection Moulded Plastic Parts



# Calendar of Events - 2021 - 2022

## August 2021

5 - 6	Testing, Calibration and Accuracy Measurement of CNC machine tools
10 - 11	Gear Metrology and Measurement Methods
10 - 11	Powder Coating Technology - Process, Applications, Defects Analysis and Prevention
10 - 11	Effective New Product Development (NPD) Process
12 - 13	Implementing Process Capability, One Step To World Class Manufacturing
17 - 18	Advanced Technologies in Sheet Metal Forming
19	8D Problem Solving Methodology
20	Role of Augmented Reality / Virtual Reality (AR / VR) in Industry 4.0 for manufacturing
23 - 27	Fundamentals of Press Tool Design
23 August - 3 Sept	Essential Skills for Smart Mechanical Designers
24 - 25	Heat Treatment - Metallurgy and Processes
24 - 25	Fundamentals of Product Quality Planning (APQP) & Implementation of the Production Part Approval Process (PPAP)
25 - 26	Metal 3D Printing - Technology of Near Future
<b>Certification Programme</b>	
24 Aug - 22 Sept	IMTMA Certified Six Sigma Green Belt Professional
<b>Unique Programme</b>	
25 - 26	Electric Mobility – Fundamentals and Sub-systems
<b>Classroom Training Programme</b>	
16 Aug - 14 Sept	Finishing School in Production Engineering - Bengaluru

## September 2021

<b>Online Training Programmes</b>	
2 - 3	Casting Technology in Product Manufacturing - Types, Design, Process, Defects and Remedies
7 - 8	Creating Differentiation and Cost Competitiveness through Efficient Supply Chain
7	Variable Frequency Drive (VFD) for Industrial Applications
9	Data Analytics in Manufacturing
14 - 15	Cost and Cycle Time Reduction in CNC Machining Applications
16 - 17	How to Reduce Cost of Poor Quality (COPQ)



# Calendar of Events - 2021 - 2022

## September 2021

17 - 18	<b>Symposium on Automation &amp; Robotics 2021</b>
20	<b>75th Annual General Meeting</b>
21	Business Planning and Budgeting for Sustained Profitability
21 - 22	Automation and I4.0 in Welding
21 - 23	Advanced Concepts in GD&T
23 - 24	Surface Plating and Protection Technology
27 - 29	Value Engineering & Value Analysis (VA/VE)
27 Sept - 1 Oct	Die Design and Die Engineering for Automotive Sheet Metal Components
27 Sept - 13 Oct	Value Analysis and Value Engineering
28 - 29	Plant Maintenance – Electrical Aspects
<b>Unique Programme</b>	
23 - 30	Global Best Practices in Failure Mode and Effects Analysis (Design - FMEA and Process - FMEA) as per AIAG - VDA

## October 2021

<b>Online Training Programmes</b>	
4 - 8	Design for Manufacturing and Assembly (DFMA) - Plastics, Sheet Metal, Castings, Forgings and Machined Parts
4 - 8	Advanced Networking & PLC Programming
5 - 13	Value Stream Mapping - Real Time Implementation - Hands on Workshop
11 - 13	Intelligent Selection of Cutting Tools for Higher Machine Utilisation, Productivity Enhancement and CPC Reduction in CNC Machining
12 - 13	CE Marking - Entering Global Markets - An Overview of Conformity Requirements for Europe, North America, GCC and Asia Pacific regions
20 - 21	Electrical Engineering Concepts for Non-Electrical Engineers
21 - 22	Advancements in Heat Treatment Processes
26 - 27	LM Guideways and Ball Screws - Types, Applications, Selection, Assembly and Troubleshooting
27 - 28	Welding Technology - Behaviour of Engineering Materials in Welding
28 - 29	Lean Daily Management System
<b>Classroom Training Programme</b>	
18 Oct - 20 Nov	Finishing School in Production Engineering - Bengaluru



# Calendar of Events - 2021 - 2022

## November 2021

Online Training Programmes	
11 - 12	Essentials of Precision Metrology
11 - 12	Manufacturing Automation using Robots - Types, Selection, Integration Aspects
15 - 19	Development of Machining Fixtures - A Practical Approach
17 - 19	Servo Technology - The Future of Industrial Motion Control
23 - 24	Defects Analysis and Trouble Shooting in Painting Applications
24 - 25	Surface Roughness Measurement, Validation and Improvement
25 - 26	Enhancing Productivity in Grinding Operations
30 Nov - 1 Dec	Primer Course in Sheet Metal Forming
Certification Programmes	
22 - 26	ASME Y14.5 Geometric Dimensioning and Tolerancing in Design thru Manufacturing (including preparatory for GDTP-Technologist Level Examination)
23 - 30	Certified Root Cause Analyst
Classroom Training Programme	
8 Nov - 31 Dec	Hands on Training on "Machine Tool Design – Special Purpose Machine (SPM)"

## December 2021

Online Training Programmes	
7 - 8	Hot Forging Technology - Processes, DFM, Quality and Cost Considerations
8 - 9	Machining Aerospace Materials - Challenges and Solutions
9 - 10	Metallurgy for Non Metallurgists - Ferrous Materials
10 - 11	<b>National Productivity Summit 2021</b>
13	Limits, Fits and Tolerances - Practical Approach
13 - 17	Design of Gearbox for Industrial Machinery
14 - 16	Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing
14 Dec - 6 Jan	Advanced Product Quality Planning (APQP) & Production Part Approval Process (PPAP)
17	Good Earthing Practices
20 - 21	Effective New Product Development (NPD) Process
21 - 23	Failure Mode and Effects Analysis (FMEA)
28 - 30	Measurement System Analysis (MSA)

# Calendar of Events - 2021 - 2022

## December 2021

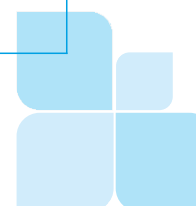
Certification Programme	
14 Dec - 6 Jan	Certified Practitioner in Core Tools of Quality - APQP, FMEA, MSA, SPC, and PPAP (As per IATF 16949:2016)
Classroom Training Programmes	
13 - 18	Servicing, Maintenance and Trouble Shooting of CNC Machine Tools - Mechanical, Electrical and Electronics Aspects
20 - 24	Hands-on training in Programming & Operation of CNC Machining Centres
21 - 27	Hands-on Training Program in Robot Programming & Operation

## January 2022

Online Training Programmes	
4 - 5	Statistical Process Control (SPC)
4 - 5	Defect Analysis and Trouble-shooting of Casting Defects
5 - 6	Programmable Logic Controller (PLC) – A Key Technology for Industrial Automation
6 - 7	Industrial Safety - Shopfloor Perspective
10 - 12	Tolerance Stack-up Analysis
11 - 12	Powder Coating Technology - Process, Applications, Defects Analysis and Prevention
12 - 13	Design for Welding - A Scientific Approach for Strength and Cost Optimization
17 - 21	Press Tools- Basics, Types, Design Considerations, Manufacturing and Troubleshooting
18 - 19	8D Problem Solving Methodology
18 - 19	Heat Treatment - Metallurgy and Processes
20 - 21	Improving Energy Efficiency at Plant Level
28	Interviewing Skills -The Key to Build Brand and Hire the Right Talent

## February 2022

Online Training Programmes	
1 - 2	Powder Coating Technology - Process, Applications, Defects Analysis and Prevention
3 - 4	Industrial Sensors - Types, Selection, Applications for Process Control
7 - 11	Design, Integration, Maintenance & Troubleshooting of Hydraulic Systems
8 - 9	How to Reduce Cost of Poor Quality (COPQ)
10 - 11	Design of Experiments (DOE) for Problem Solving





# Calendar of Events - 2021 - 2022

## February 2022

10 - 11	Cost and Cycle Time Reduction in CNC Machining Applications
14 - 18	Die Casting Die Design - Basics, Design Considerations, Diecast Parts, Process, Manufacturing and Troubleshooting
15 - 16	Plant Maintenance - Electrical Aspects
16 - 18	Value Engineering & Value Analysis (VA/VE)
17	Business Planning and Budgeting for Sustained Profitability
17 - 18	Testing, Calibration and Accuracy Measurement of CNC Machine Tools
17 - 18	Fundamentals of Advanced Product Quality Planning (APQP) and Implementation of the Production Part Approval Process (PPAP)
22 - 23	Cold Forging Technology - Process, DFM and Quality Considerations
24 - 25	Quality Challenges and Solutions for the Aerospace Industry
<b>Certification Programme</b>	
21 - 25	ASME Y14.5 Geometric Dimensioning and Tolerancing in Design through Manufacturing (including preparatory for GDTP-Technologist Level Examination)
<b>Classroom Training Programme</b>	
28 Feb - 12 April	Finishing School in Production Engineering - Making Engineers Industry Ready - Bengaluru
21 Feb - 21 April	Comprehensive Training on "Design and Manufacturing Special Purpose Machine - Women Exclusive

## March 2022

Online Training Programmes	
2 - 4	Advanced Concepts of GD&T
7 - 11	Design for Manufacturing and Assembly (DFMA) - Plastics, Sheet Metal, Castings, Forgings and Machined Parts
8 - 9	Selection of Cutting Tools for Improving Productivity and Cost Reduction in CNC Machining Centres
8 - 9	How to Become an Effective FMEA Practitioner as per Combined AIAG & VDA Version
15 - 16	LM Guideways and Ballscrews - Types, Applications, Selection, Assembly and Trouble Shooting
15 - 16	Surface Plating and Protection Technology
17	Lean Daily Management System
22 - 23	Advancements in Heat Treatment Processes
24	Implementing Industry 4.0 in the Indian Context

# Calendar of Events - 2021 - 2022

## April 2022

Online Training Programmes	
12 - 13	Effective New Product Development (NPD) Process
13 - 14	Electrical Engineering Fundamentals for Non-Electrical Engineers
22	Electrical Engineering Fundamentals for Non-Electrical Engineers
25 - 29	Development of Machining Fixtures - A Practical Workshop with Project
28 - 29	Enhancing Productivity in Grinding Operations
Certification Programme	
25 - 29	ASME Y14.5 Fundamentals of Geometric Dimensioning and Tolerancing in Design thru Manufacturing ( including preparatory for GDTP-Technologist Level Examination)
Classroom Training Programme	
19 - 21	Hands-on Training Program in Robot Programming & Operation - Bengaluru
25 April - 4 June	Intensive Course on "Specialization in Production Engineering - Bengaluru
25 April - 4 June	Intensive Course on "Specialization in Design Engineering" - Bengaluru

## May 2022

Online Training Programmes	
3 - 4	Essentials of VDA 6.3 Implementation
5 - 6	Design and Processing Techniques of Plastic Parts
9 - 11	Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing
10 - 18	Value Stream Mapping – Real Time Implementation - Hands on Workshop
12 - 13	CE Marking for Export Markets - Europe, North America & GCC Countries
12 - 13	Industrial Safety - Shopfloor Perspective
17 May - 15 June	IMTMA Certified Six Sigma Green Belt Professional
18	Good Earthing Practices
19 - 21	<b>Machine Tool Industry Summit</b>
31 May - 1 June	How to Get the Best Out of CMMs
Unique Programme	
23 -28	Effective Sales and Marketing of Machine Tools and Accessories (Six Modules)



# Calendar of Events - 2021 - 2022

## June 2022

Certification Programme	
2 - 30	Certified Lean Practitioner - Achieving MAXimum from MINimum (2-3 June 2022 And on 29-30 June 2022)
Online Training Programmes	
2 - 3	Powder Coating Technology - Process, Applications, Defects Analysis and Prevention
7 - 8	Programmable Logic Controller (PLC) - A Key Technology for Industrial Automation
9 - 10	Improving Energy Efficiency at Plant Level
10	Interviewing Skills - Key to build Brand and Attract Talent
13 - 17	Press Tools - Basics, Types, Design Considerations, Manufacturing and Troubleshooting
14 - 15	Plant Maintenance -Electrical Aspects
14 - 15	Heat Treatment - Metallurgy and Processes
16 - 17	Design for Welding - A Scientific Approach for Strength and Cost Optimization
<b>16 - 21</b>	<b>IMTEX FORMING 2022, Tooltech 2022 &amp; Digital Manufacturing 2022</b>
20 - 24	Reliability Engineering - Concept, Calculations, Techniques and Tools
21 - 22	Gear Metrology and Measurement Methods
23 - 24	8D Problem Solving Methodology
Classroom Training Programmes	
13 - 18	Servicing, Maintenance and Trouble Shooting of CNC Machine Tools - Mechanical, Electrical and Electronics Aspects
27 - 29	Applying GD&T in Design through Manufacturing - Practical Workshop on What, Why and How?



## Activities of BIEC

The outbreak of global Covid pandemic adversely affected the exhibition industry landscape. With the pandemic receding, the Government of India, from September 2021 onwards decided to allow fully vaccinated tourists to visit India which provided a big boost to the exhibition and events industry.

### IIJS Premiere 2021 at BIEC

India International Jewellery Show Premiere 2021 was organized by the Gem & Jewellery Export Promotion Council from 15 - 19 September 2021 at BIEC. IIJS Premiere 2021 was inaugurated by Smt. Anupriya Patel, Hon'ble Minister of State, Commerce & Industry, Government of India, in the presence of Sri Murugesh Nirani, Hon'ble Minister

for Large and Medium Scale Industries, Government of Karnataka, Dr. E.V. Ramana Reddy, Additional Chief Secretary, Department of Commerce and Industries, Government of Karnataka and Sri S. Suresh Kumar, Joint Secretary, Department of Commerce & Industry, Government of India.



The exhibition was a grand success, it restored the confidence of other exhibition organizers to plan and host their flagship shows at BIEC.



# Activities of BIEC

## Green Vehicle Expo 2021



Green Vehicle Expo was organised at BIEC from 27 - 29 November 2021. Exhibitors displayed new range of electric and hybrid vehicles, components, batteries, GPS systems and allied industry. The event was organized by Media Today with support from Government of India, Government of Karnataka, and industry bodies. The expo featured 80+ exhibitors and attracted a footfall of around 8,000 visitors.

## IEIA Open Seminar 2021



The premier event of the exhibitions sector in India – 10th IEIA Open Seminar was organized by the Indian Exhibition Industry Association (IEIA) at Bangalore International Exhibition Centre, Bengaluru on 20 - 21 December 2021.

The seminar commemorated the completion of IEIA's 15 years of dedicated service to the exhibition industry in India. Around 200 delegates participating in the seminar deliberated on positioning India as the preferred exhibitions destination in the world with the underlying theme: 'Exhibitions in India – Building' Global Business Platforms.



# Activities of BIEC



## EXCON 2022

The Confederation of Indian Industry (CII), India's apex industry body and premier exhibition organizer, organized the 11th edition of EXCON, one of the largest exhibitions on construction equipment and technology at BIEC from 17 to 21 May 2022.



## Global Exhibitions Day 2022

UFI, the Global Association of the Exhibition Industry together with Indian Exhibition Industry Association (IEIA) celebrated Global Exhibitions Day 2022 (GED 2022) on 1 June 2022. BIEC extended its support to GED 2022 to propagate the importance of exhibitions for the development of various industries.



## IndiaWood 2022

The 12th edition of IndiaWood, the international trade fair for furniture production technologies, woodworking machinery, tools, fittings, accessories, raw materials and products was organized by NürnbergMesse at BIEC from 2 to 6 June 2022. The 5 day exhibition provided ample opportunities for industry stakeholders to establish India as one of the top furniture manufacturing destinations.





# New Products Developed by Members in 2021 - 2022

## **ELSCINT INDIA PRIVATE LIMITED**

1. Vibratory Feeding & Stacking / Looping Equipment for Circlips / Half Rings
2. Semi-Automatic Riveting Machine

## **MESSER CUTTING SYSTEMS INDIA PRIVATE LIMITED**

1. PROFITHERM, a robust and precise CNC oxyfuel and plasma cutting machine
2. FIBERLIGHT, an ergonomically designed, compact and robust CNC laser cutting machine

## **SRI LAVEN ENGINEERING PRIVATE LIMITED**

1. CNC Centerless Grinding Machine

# New Members Enrolled in 2021 - 2022

As on 30 June 2022

## ANDREAS MAIER WORKHOLDING TECHNOLOGY PRIVATE LIMITED

No.116, II Cross, NHCS Layout  
Basaveshwaranagar  
Bangalore - 560 079  
Karnataka

## AVILASH ENGINEERING CORPORATION

B-15/217/A, Nirankari Mohalla  
Street No.2, Overlock Road  
Gill Road, Ludhiana - 141 003  
Punjab

## BOSS HYDRAULICS

C-1/276, Phase - 1  
GIDC, Naroda  
Ahmedabad - 382330  
Gujarat

## CKD INDIA PRIVATE LIMITED

Unit No. - 67, Welldone Tech Park  
Sohna Road, Sector - 48  
Gurgaon - 122 018  
Haryana

## EMCUT EMCO MACHINES INDIA PRIVATE LIMITED

52/1, Shakespeare Sarani  
Kolkata - 700 017  
West Bengal

## GLOBAL CNC PRIVATE LIMITED

Plot No. 2617, Lodhika  
GIDC, Gate No.1  
Rajkot - 360 021  
Gujarat

## HYT ENGINEERING COMPANY PRIVATE LIMITED

Plot No.29/10, 29/10/1 & 29/10/2  
D-II Block, MIDC, Chinchwad  
Pune - 411 019  
Maharashtra

## INDO NIHON TECHNOLOGIES

No.1/1, Ekambaram Naicker Industrial  
Estate, Alapakkam  
Chennai - 600 116  
Tamil Nadu

## SINAR SHEETMETAL SOLUTIONS PRIVATE LIMITED

Plot No. 31, 2nd Phase  
Peenya Industrial Area  
Bangalore - 560 058  
Karnataka

## SPERONI INDIA PRIVATE LIMITED

Sr. No. 96, Near Panjarpool Trust  
Landge Nagar, Pune - Nasik Highway  
Bhosari, Pune - 411 039  
Maharashtra

## SRI LAVEN ENGINEERING PRIVATE LIMITED

B 37, 3rd Stage, Peenya Industrial Area  
Peenya, Bangalore - 560 058  
Karnataka

## SUHAS HYDROSYSTEMS PRIVATE LIMITED

Shed No.20, Harichand Textile Mill  
Compound, LBS Road, Vikhroli West  
Mumbai - 400 079  
Maharashtra

## TESCO TOOLS

KH - 75, Rasoolpur Yakutpur  
Morta Industrial Area  
Ghaziabad - 201 003  
Uttar Pradesh

## VALGRO INDIA LIMITED

"Valgro House", 2nd Floor, Shailly  
Near Bharat Petroleum Pump  
N.H. No - 8, Virat Nagar  
Ahmedabad - 382 350  
Gujarat

## Y H TOOLS MANUFACTURERS PRIVATE LIMITED

No.7 A, Gadaipur, Bulandpur Road  
Jalandhar - 144 012  
Punjab

**Total Membership of IMTMA as on 30 June 2022: 462 Members**



# Enhancing Machine Tool Industry's Competitiveness

## IMTMA Initiatives

### TRADE FAIRS



### TRAINING



### MEGA EVENTS



### ASSOCIATION INITIATIVES



### INFRASTRUCTURE



### PUBLICATION



[www.imtma.in](http://www.imtma.in)





## Media Coverage





Glimpses



## Notes





**Indian Machine Tool  
Manufacturers' Association**

[www.imtma.in](http://www.imtma.in)

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#### **Head Office**

Bangalore International Exhibition Centre (BIEC)  
10th Mile, Tumkur Road, Madavara Post, Bangalore - 562 123, Karnataka (India).  
T: +91 80 6624 6600 F: +91 80 6624 6661 E: [imtma@imtma.in](mailto:imtma@imtma.in)

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#### **Regional Office (West)**

12/5, D-1 Block, MIDC, Chinchwad,  
Pune - 411 019, Maharashtra (India).  
T: +91 70660 30531 / 532  
E: [imtma.pune@imtma.in](mailto:imtma.pune@imtma.in)

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#### **Regional Office (North)**

Plot No. 249 F, Udyog Vihar Sector - 18,  
Gurgaon - 122 015, Haryana (India).  
T: +91 124 4014101 F: +91 124 4014108  
E: [imtma.ggn@imtma.in](mailto:imtma.ggn@imtma.in)

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