



Indian Machine Tool Manufacturers' Association

ANNUAL REPORT 2017-2018



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Executive Committee 2017 - 2018

President

P. Ramadas

Managing Director
Ace Manufacturing Systems Limited

Vice President

Indradev Babu

Managing Director
UCAM Private Limited

Members

Chandrashekar Bharathi

Managing Director
Ace Micromatic Manufacturing Intelligence
Technologies Private Limited

Kabir Bhogilal

Vice President - Corporate Strategy
Batliboi Limited

Ravi Raghavan

Managing Director
Bharat Fritz Werner Limited

D. Srihari

Director
CADEM Technologies Private Limited

Sonali Kulkarni

President & CEO
FANUC India Private Limited

G.D. Rajkumar

Director
Gedee Weiler Private Limited

B.M. Shivashankar

Principal Consultant (T&O)
HMT Machine Tools Limited

B.C. Rao

Managing Director
Kennametal India Limited

K. Soundhar Rajhan

President - Machine Tool Foundry & ATC Divisions
Lakshmi Machine Works Limited

Rupesh J. Mehta

Chairman & Managing Director
Macpower CNC Machines Limited

Nikhil Agrawal

Managing Director
Nagel Special Machines Private Limited

Dr. P. Radhakrishnan

Advisor
PSG Industrial Institute

Rajendra S. Rajamane

Managing Director
Rajamane Industries Private Limited

Co-Opted Members

Achal Nath

Executive Director
Ashok Manufacturing Company Private Limited

Vikram R. Sirur

Past President - IMTMA and Executive Chairman
Miven Machine Tools Limited

Executive Committee 2017 - 2018

Past Presidents

P.G. Jadeja

Chairman & Managing Director
Jyoti CNC Automation Limited

L. Krishnan

Managing Director
TaeguTec India 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

C.R. Swaminathan

PSG Industrial Institutions*

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

Madhavi Chandrashekar

Chairperson - 'UDAAN' &
Executive Director - Business Development
Ace Designers Limited

S. Jagtar Singh

President
Association of Ludhiana Machine Tool Industries

Praful Shende

Chief Sales & Marketing Officer
Bharat Fritz Werner Limited

Mohini Kelkar

Director - Sales & Marketing
Grind Master Machines Private Limited

Vivek Nigam

Executive Vice President &
Head of Business Unit - Machine Building
ISGEC Heavy Engineering Limited

Raju Bhandari

President
Machine Tool Manufacturers Association - Rajkot

Vijay Pratap Singh

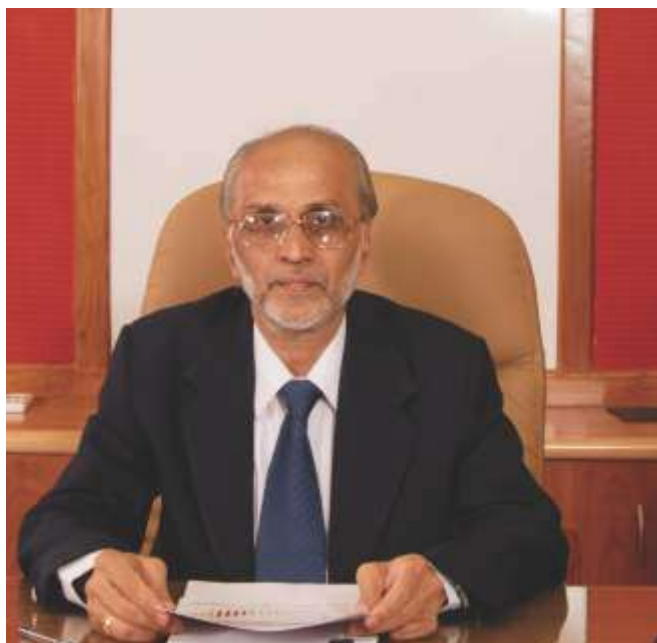
Head - Motion Control
Siemens Limited

Secretary, Director General & CEO

V. Anbu



Foreword



Empowering Manufacturing to the Next Level of Growth

I feel privileged to present the Annual Report and the Audited Statement of Accounts of Indian Machine Tool Manufacturers' Association (IMTMA) for the year 2017 - 2018. The Association has continued to guide its member companies to prepare for the challenges and opportunities that lie ahead. I am pleased to highlight in this annual report, some of our achievements in the last one year.

Economic Growth Setting the Growth Pattern

The year 2018 - 2019 is seen as a promising one for the manufacturing industry. Reserve Bank of India estimates the country's economy to grow by 7.3% during FY 18 - 19. There will be a gradual increase in India's growth rate as structural reforms raise potential output. World Bank gave India a 30 place jump to rank 100th in its "Ease of Doing Business" report. These developments have boosted the confidence of investors in India's economy.

Brighter Prospects on the Horizon for Manufacturing

Manufacturing industry now needs to tap into the various opportunities which are likely to arise in defence and aerospace manufacturing as well as other sunrise sectors. This would open doors for research and innovations and also strengthen the inherent capabilities of the industry. It would also supplement the industry's export potential besides strengthening 'Make in India'.

As India's manufacturing segment takes an upward course, it is expected that the contribution of manufacturing to India's economy may improve which is expected to

strengthen the Government of India's aim of manufacturing sector contributing to around 25% of the country's GDP. For this, the industry needs to tap into various opportunities and forge partnerships with overseas companies for technology reforms, which can pay rich dividends. This would also enable the manufacturing sector to explore possibilities of substituting import machinery with indigenous ones and meet the strategic needs of various industries. The reduction in corporate tax for entities with turnover of upto ₹ 250 Cr to 25% is a positive step towards development of MSME sector and enhancing their production capacities. India has a significant number of MSMEs and this move is expected to foster their development.

Machine Tool Industry

Indian machine tool industry has been coasting well over the last one year. Machine tool production for FY 2017-18 is estimated to be around ₹ 7,300 crores and consumption is estimated to be around ₹ 14,700 crores. There is a growth of around 26% in production and around 27% in consumption. It is estimated that machine tool production during 2018-19 would touch ₹ 9,000 crores and consumption may touch ₹ 17,000 crores. Production is estimated to grow by around 25% and consumption may reach around 20% during the period.

As per Gardner's 'World Machine Tool Output Survey 2018', **India is ranked 8th in Consumption and 10th in Production** in the global list of world machine tool consuming and producing countries.

I would like to inform readers that it is a matter of satisfaction for the machine tool industry that the Government of India has extended concessional custom duty on critical imports to all categories of CNC metalworking machine tools.

The foundation stone for Tumakuru Machine Tool Park in Vasanthanarasapura near Tumakuru was laid earlier this year. The machine tool park is being developed jointly by the Government of India and the Government of Karnataka. The machine tool park once fully functional is expected to trigger the production of hi-tech machine tools and attract investments later on.

Vibrant manufacturing is essential for our country's growth. With the Indian machine tool industry showing its readiness to embrace advanced technologies such as Industry 4.0, 3D Printing, Automation, etc., manufacturing is turning 'smart'. Manufacturers are able to address complex machining processes, build new technologies, increase precision, productivity, and quality to bring out best products to meet the aspirations of customers.

Foreword

Association Initiatives

Training

Over 170 short-term as well as long-term training programmes were conducted during 2017 - 2018 at its Technology Centres in Bengaluru, Pune and Gurugram. The efforts enabled IMTMA to record over 16,750 mandays of training and support the Indian manufacturing industry in skill development and skill upgradation. IMTMA was able to place 85% of the participants who underwent training at its Productivity Institute and Design Institute.

I feel proud to inform you that IMTMA was a recipient of the "Country-level Annual Award for Responsible Indian BMOs" (Business Membership Organizations), also known as the Industry Associations and Chambers of Commerce in the "Social Category" organized by Foundation for MSME clusters on February 8, 2018 in New Delhi. The award was given in recognition of the positive impact that IMTMA created in the Indian machine tool industry and customer segments through training programmes conducted at its Technology Centres.

Mega Events

Our Association has been continuing with its endeavours to keep up with the changing requirements of the industry. To champion the cause of productivity in metalworking industry, the Association organized 11th edition of National Productivity Summit in Pune. National Productivity Summit 2017 once again showcased the best productivity practices in metalworking and proved to be an excellent platform for knowledge sharing.

Development and proliferation of additive manufacturing in aerospace and defence sectors may present some opportunities for the machine tool industry. These were intensively discussed during the Vision 2020 Conclave held from 7-9 December 2017 in Gujarat. The focus was on navigating uncharted path for accelerated growth including possible long-term impact of electric mobility on the machine tool industry.

To give an exposure to participants in the latest technologies in metal forming, IMTMA organized International Seminar on Forming Technology 2018 coinciding with IMTEX FORMING 2018 & Tooltech 2018 in Bengaluru.

Trade Fairs

Regional Expos

IMTMA organized the second edition of the Delhi Machine Tool Expo (DMTX 2017) in New Delhi. The show attracted a footfall of over 11,000 visitors including 93 business

delegations. The next edition of DMTX will be held from 4 - 7 July 2019. The show has received an enthusiastic response from the manufacturing sector and we expect a large visitor turnout and good business generation.

IMTMA has scheduled the second edition of Pune Machine Tool Expo (PMTX 2018) at Auto Cluster Exhibition Centre in Pune from 27 - 30 September 2018.

IMTEX FORMING 2018 & Tooltech 2018

The Association had a great start at the beginning of the year 2018 with IMTEX FORMING 2018 & Tooltech 2018 bringing substantial business orders and enquiries.

- Business orders worth Rs.539 crores and enquiries worth Rs.4819 crores were generated during the exhibition.
- Buyers from 7 countries participated in the International Buyer-Seller Meet, a platform for Indian machine tool manufacturers to interact with international buyers.
- Forty-four institutions participated in the i2 Academia Pavilion. More than 2000 students from over 50 institutions attended 'CONNECT', an awareness programme for young engineers.

The advent of information technology (IT) plays an important role in manufacturing and Industry 4.0 is the latest trend. It is gratifying to know that several companies have developed Industry 4.0 and exhibited them at IMTEX 2017 and IMTEX FORMING 2018. This technology development is continuing and more can be seen in the special pavilion at the forthcoming IMTEX 2019 & Tooltech 2019. IMTMA is also participating in the 4.0 project rolled out by the Department of Heavy Industry (DHI) at Central Manufacturing Technology Institute (CMTI), Bengaluru.

IMTEX 2019 & Tooltech 2019

IMTMA will cross a milestone by celebrating 50 years of IMTEX in the year January 2019 at BIEC. IMTMA is introducing two exclusive pavilions: **Additive Manufacturing: Opening New Horizons** and **Factory of the Future: Evolve with Industry 4.0**. The exhibition will further strengthen the position of IMTEX as the premier exhibition of metal-working machine tools and manufacturing technology in South and South East Asia.

Publications

The Association brought out two publications: (a) 'Country Report on Mexico' to enable member companies understand the Mexico market and (b) 'Comprehensive Report on Indian Metal Forming Machinery' which highlights the current demand trends in metal forming industry.

Foreword

Modern Manufacturing India (MMI) magazine is now owned and published by IMTMA. MMI today stands out as a leading magazine among manufacturing fraternity with insightful content covering various technological trends of the manufacturing industry. The Association also has a strategic tie-up with Gardner Publication who are also contributing to the content which has enriched the magazine for readers.

Bangalore International Exhibition Centre (BIEC)

BIEC's newly constructed exhibition hall (Hall 4) which was opened during IMTEX 2017 & Tooltech 2017 was conferred with 'Gold' rating by Indian Green Building Council (IGBC) and US Green Building Council (USGBC). The award has been a crowning achievement for BIEC's efforts in ushering a green building movement in India. With this award, BIEC has set a benchmark in the exhibition industry in maintaining green norms.

BIEC was also awarded the first prize for being India's leading exhibition venue at the Exhibition Excellence Awards 2018.

Construction of Hall 5 is in progress. With the completion of the construction of Hall 5, BIEC will have a gross space of around 77,000 sq.mts.

Infrastructure in and around BIEC is also being upgraded. Bangalore Metro has begun construction work for the corridor from Nagasandra Metro Station to BIEC. National Highways Authority of India is constructing a vehicular underpass in front of BIEC to smoothen the flow of traffic. The underpass is expected to provide motorists a hassle free entry into BIEC.

It is heartening to note that BIEC has since inception hosted over 260 events occupying more than 1500 days.

Future Thrust

India is emerging as a prime destination for manufacturing in Asia. Machine tool sector is expected to become thoroughly competitive. Technology tie-ups with global machine tool companies can create opportunities for Indian companies to develop their business in overseas market.

I would like to reiterate that the Association will continue to project the machine tool industry as a key enabler of the 'Make in India' initiative and continue with its role of uplifting the industry to greater heights.

Felicitation

I would like to record that 2017 - 2018 for me was a year of reckoning as I took the office of Presidency. Certainly, all the achievements of the Association have been a gratifying experience for me. These have been made possible due to the proactive assistance of IMTMA's Executive Committee and membership, the enduring guidance and untiring contribution of Past Presidents. I shall look forward to their continued encouragement in all future endeavours of the Association. I hope to get renewed support from all quarters in future as well, especially, in carrying out the tasks for the Association in the years ahead.



P. Ramadas
President

71st Annual General Meeting

6 September 2017: Bangalore International Exhibition Centre, Bengaluru

Indian Machine Tool Manufacturers' Association (IMTMA) held its 71st Annual General Meeting (AGM) on 6 September 2017 at Bangalore International Exhibition Centre (BIEC), Bengaluru. At the Executive Committee meeting following the AGM, Mr. P. Ramadas, Managing Director, Ace Manufacturing Systems Limited was elected as the President of IMTMA and Mr. Indradev Babu, Managing Director, UCAM Private Limited was elected as the Vice President of the Association for the year 2017-2018.



Prior to the AGM, IMTMA held a special session. Dr. S. Raghunath, Professor of Corporate Strategy & Policy, Indian Institute of Management Bangalore (IIMB) made a presentation on 'Preparing for Transformation in Manufacturing Industries - EVs Impact on Machine Tool Industry' and Mr. Shailesh Sheth, Past President - IMTMA made a presentation on 'IMTMA Corporate Governance Policies'. Mr. P.G. Jadeja, President - IMTMA and Mr. V. Anbu, Director General & CEO - IMTMA were present on the occasion.

Dr. Raghunath presented his view on the impact of electric vehicles on machine tool industry and the need for industry to integrate latest robotics technology.

Delivering his annual address at the AGM, IMTMA President, Mr. P.G. Jadeja briefly spoke about the positive signs emerging in the Indian economy and the Government of India's impetus to manufacturing. Mr. Jadeja said that the Indian machine tool industry registered an impressive growth of 23 per cent during 2016-2017.



He spoke about the major policy initiatives such as the Goods and Services Tax, and the approval of 4 Centres of Excellence on advanced manufacturing under the Scheme for Enhancement of Competitiveness in the Capital Goods Industry. He further touched upon the New Industrial Policy that the Government of India is drafting. He said that all these developments are likely to change the manufacturing landscape in future.

Mr. Jadeja thanked Members, Past Presidents, Executive Committee of IMTMA for providing guidance and support in all major endeavours of the Association during his tenure. He then took up the statutory agenda of the Association which was unanimously approved by a voice vote. The Annual General Meeting of IMTMA concluded with a vote of thanks.

Trends in Indian Machine Tool Industry

As per the world machine tool consumption report by Gardner's publication, global machine tool production estimated amounted to USD 86.6 Billion during 2017 registering growth of 6.9% from revised USD 81.0 Billion during 2016. Global consumption of machine tools amounted USD 82.8 Billion during 2017 had increased by 4.5% from USD 79.2.0 Billion during 2016.

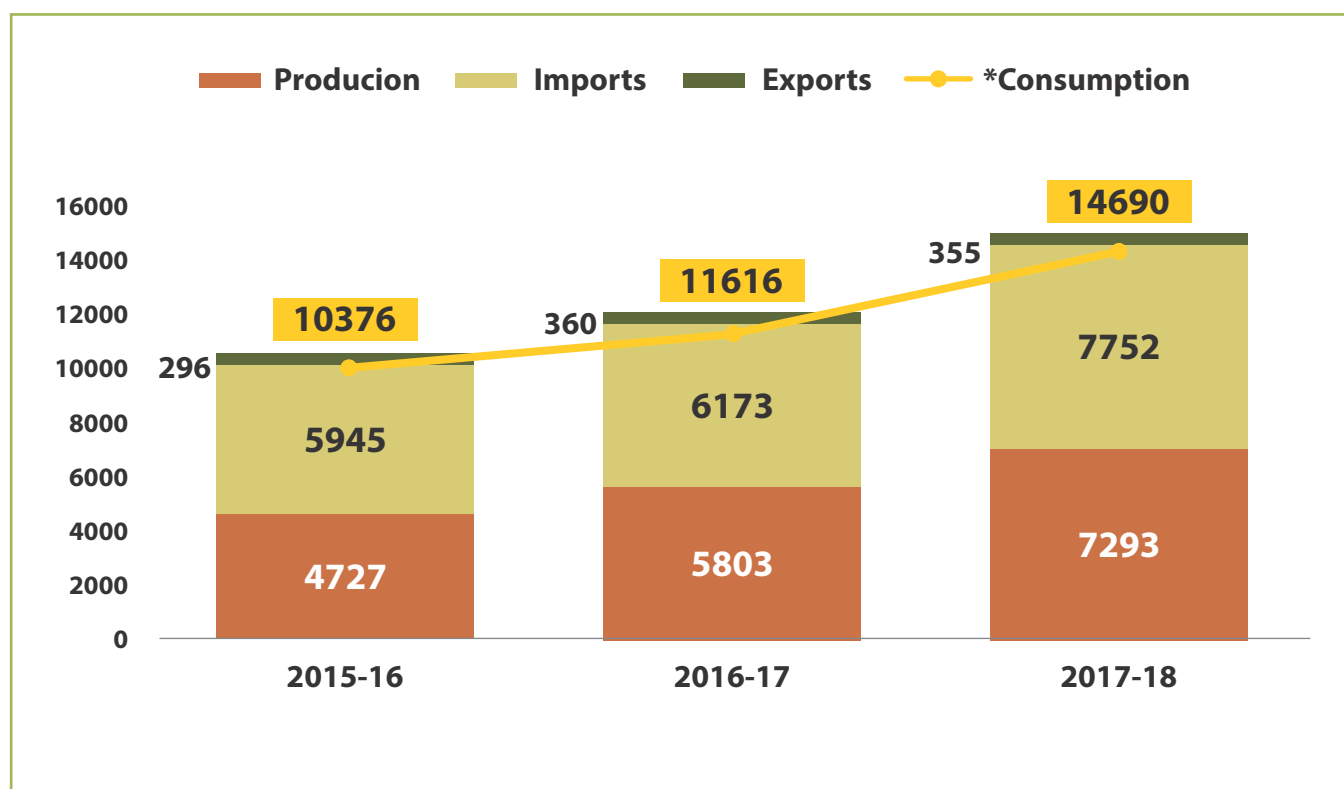
India now occupies 10th position in production and 8th position in consumption of machine tools in the world.

Indian machine tool production (estimated) amounted to ₹ 7300 crores during 2017-18 registering growth of 25% from ₹ 5803 crores during 2016-17. Consumption of machine tools amounted to ₹ 14,700 crores during 2017-18 had increased by 27% from ₹ 11,600 crores. It is estimated that machine tool production during 2018-19 would touch ₹ 9,000 crores and consumption may touch ₹ 17,000 crores.

Demand is estimated to increase by 20% during the year 2018-19 and production is estimated to increase by 25% during same period. Defence and aerospace sectors would spur demand for machine tools. The country aspires to become a key player in the global machine tools industry.

Indian Machine Tool Industry 2015-16 to 2017-18

All Values in ₹ Crores



Source: IMTMA

Calendar of Events - 2017

July 2017

27 Jun - 22 Jul	Machine Tool Design - Electrical - Bengaluru
4 - 5	Injection Molding Process Development via Scientific Principles - Bengaluru
5 - 7	Structured Innovation (Product/Process) TRIZ Methodology - Pune
10 - 14	Hands on Training in Programming & Operation of CNC Machining Centres - Bengaluru
11 - 12	Cost of Quality & how to reduce COPQ - Pune
13 - 14	Effective Maintenance and Trouble Shooting of Presses - Pune
17 - 19	Effective Sales and Marketing of Machine Tools and Accessories - Pune
17 - 22	Design of Spindle - Specialization - Gurugram
18 - 19	Understanding and Implementation of Risk Assessment through FMEA - Bengaluru
20 - 21	Automation Project Implementation - Key Driver to Smart Manufacturing
24 - 26	Practical Approach towards Process Planning for Machined Parts
24 - 29	Design of Fixture - Specialization (Machining / Welding / Assembly and Inspection Fixtures) - Bengaluru
26 - 27	Heat Treatment Process in Metal Working - Chennai
27	Implementing Industry 4.0 in Indian context - Pune
27 - 28	Fundamentals of Painting & Coating Technologies - Gurugram

August 2017

2 Aug - 28 Sep	Machine Tool Design - Mechanical - Bengaluru
8 - 9	Manufacturing Automation using Robots - Bengaluru
8 - 9	Burr Management in Machining - Pune
10 - 13	Delhi Machine Tool Expo - New Delhi
18 - 19	Cost & Cycle Time Reduction in CNC Machining - Gurugram
21	Gear Metrology and Measurement Methods - Pune
21 - 24	Advanced Programming for CNC Machining Centres - Pune
22 - 23	Large Part Machining - Pune
22 - 23	Calibration of Dimensional Measuring Instruments & Evaluation of Uncertainty - Bengaluru
28 - 29	Gear Manufacturing Processes - Gurugram
29 - 30	Assembly, Welding and Inspection Fixtures - Pune

Calendar of Events - 2017

September 2017

5 - 6	Design of Workholding & Fixturing - Bengaluru
6	Annual General Meeting - Bengaluru
7 - 8	ASME Geometric Dimensioning and Tolerancing in Design through Manufacturing (GDTP Senior Level) - Bengaluru
11 - 15	Hands-on training in Programming and Operation of CNC Machining Centres - Pune
12 - 13	Heat Treatment Processes in Metal Working - Gurugram
13 - 15	Tolerance Stack-Up Analysis - Bengaluru
14 - 15	Manufacturing Composite Materials - Bengaluru
17 - 22	Design of Gear Box - Pune
19 - 20	GD & T - Pune
21 - 22	Seminar on Zero Defects in Welding Applications - Gurugram
22 - 23	Cost & Cycle time reduction in CNC Machining - Coimbatore
25 - 27	Hands-on training in Dimensional Metrology - Bengaluru
26 - 27	Forging Die Design - A Practical Approach (Hot Forging) - Bengaluru
26 - 27	Understanding & Implementation of Risk Assessment through FMEA - Pune

October 2017

3 Oct - 30 Nov	Machine Tool Design - Electrical - Pune
9 - 11	Sheet Metal Dies - Tryout and Proving
9 - 12	Advanced Programmes for CNC Machining Centres - Bengaluru
9 - 14	Design of Fixture – Specialization - Bengaluru
10 - 11	Product Validation through FEA/FEM - Bengaluru
12 - 13	Product Validation through FEA/FEM - A Practical Approach - Bengaluru
12 - 13	Applied Metallurgy for Engineering Industry - Pune
13	CE Marking and Global Compliance requirements - Gurugram
23 Oct - 20 Nov	Finishing School in Production Engineering: Enhancing Productivity in Machining - Bengaluru
26 - 27	Selection, Assembly and Troubleshooting of LM Guide ways and Ball Screws for Industrial Machinery - Pune
26 - 27	Inspection, Testing and Calibration of CNC Machine Tools - Bengaluru
31	Selection of Tools and Cutting Parameters for CNC Machining - Pune

Calendar of Events - 2017

November 2017

6 - 10	CNC Programming & Operation of Machining Centre - Pune
8	Surface Finish Measurement & Improvement - Pune
12Nov - 5 Jan	Machine Tool Design - Mechanical - Bengaluru
17 - 18	Burr Management in Machining - Gurugram
20 Nov - 16 Dec	Finishing School in Production Engineering: Enhancing Productivity in Machining - Pune
22 - 24	Effective Sales and Marketing of Machine Tools and Accessories - Bengaluru
23 - 24	Enabling Industrial Automation - Role of PLC, VFD and Servo - Pune
28 - 30	Tolerance Stack-Up Analysis - Pune
29 - 30	GD&T in Design through Manufacturing - Gurugram

December 2017

3 - 15	Machine Design Basics - Gurugram
7 - 8	Fundamentals of Cold Forging & Its Applications - Bengaluru
7 - 9	Vision 2020 Conclave - Vallabh Vidhya Nagar
10 - 15	Machine Design Advance - Bengaluru
12 - 13	Advanced Concepts of GD&T - Pune
14 - 15	Implementing Industry 4.0 in Indian context - Bengaluru
17 - 22	Hydraulic System Design Basics - Pune
18	Challenges and Solutions in Thread Cutting Operations - Pune
18	Gear Metrology & Measurement Methods - Gurugram
18 - 23	Design of Stamping Dies for Sheet Metal Parts - Pune
19 - 20	Additive Manufacturing / 3D Printing Technologies - Bengaluru
19 - 20	Design for Manufacturing and Assembly - Pune
21 - 22	Energy Conservation / Energy Saving in Manufacturing - Bengaluru
27 - 28	GD&T - Coimbatore

Calendar of Events - 2018

January 2018	
7 - 12	Design of Fixture - Pune
7 - 12	Design of Gear Box - Bengaluru
8 - 10	Gear Manufacturing Processes - Pune
8 - 13	Design of Fixture – Specialization (Machining / Welding / Assembly / Inspection) - Pune
8 Jan - 5 Feb	Finishing School in Production Engineering - Bengaluru
9 - 10	Defect Analysis & Trouble shooting of Injection moulded components - Bengaluru
11 - 12	Defects Analysis of Paint & Powder Coating Applications - Pune
15 - 17	IDR Approach to trouble shoot Component Defects in a Press Shop - Pune
15 Jan - 12 Feb	Finishing School in Production Engineering: Enhancing Productivity in Machining - Pune
16 - 17	Heat Treatment Processes in Metal Working - Bengaluru
17 - 19	ASME Training on Geometric Dimensioning and Tolerancing in Design through Manufacturing (for GDTP-Technologist level) - Bengaluru
19	CE Marking-Gate Way to Global Market - Bengaluru
24	International Seminar on Forming Technology - Bengaluru
25 - 30	IMTEX FORMING 2018 & Tooltech 2018 - Bengaluru
29	Automated Productivity Measurement - Pune

February 2018	
4 Feb - 30 Mar	Mechatronics - Bengaluru
8 - 9	ASME Geometric Dimensioning and Tolerancing in Design through Manufacturing (GDTP Senior Level) - Bengaluru
8 - 9	Effective Maintenance towards Zero Down Time - Electrical Aspects of CNC Machines - Pune
9	Defects Analysis and Trouble Shooting of Castings - Bengaluru
12 Feb - 12 Mar	Finishing School in Production Engineering: Enhancing Productivity in Machining - Bengaluru
15 - 16	Spindle Maintenance for Metal Cutting & Industrial Machinery - Pune
22 - 23	Manufacturing Excellence through SPC and Problem Solving Tools - Bengaluru
26 Feb - 12 March	Foundation Course in Sheet Metal Manufacturing - Pune
27 - 28	Fundamentals of Product Quality Planning (APQP) & Implementation of the Production Part Approval Process (PPAP) - Pune
27 - 28	Towards Zero Defects in Welding Applications - Bengaluru

Calendar of Events - 2018

March 2018

4 - 9	Machine Design Advance - Gurugram
12 - 14	Robots Operation and Programming - Bengaluru
18 - 23	Design of Fixture – Specialization (Machining / Welding / Assembly / Inspection) - Gurugram

April 2018

9 - 12	Advanced Programming for CNC Machining Centres - Bengaluru
10 - 11	Cost & Cycle Time Reduction in CNC Machining - Pune
11 - 12	Design for Manufacturing and Assembly - Bengaluru
12 - 13	Applied Metallurgy for Engineering Industry - Pune
16 - 18	Sheet Metal Dies - Tryout and Proving - Pune
19 Apr - 30 May	Machine Tool Design - Mechanical - Bengaluru
20	Cleaning of Machined Components - Pune
23 - 25	Geometric Dimensioning and Tolerancing (GD&T) in Design through Manufacturing - Pune
26 - 27	Enabling Industrial Automation - Role of PLC, VFD and Servo - Bengaluru
26 - 27	Effective Maintenance of CNC Machines for Productivity Improvement - Mechanical aspects - Pune
26 - 27	Fundamentals of Painting & Coating Technologies - Gurugram
26 Apr - 26 May	Finishing School in Production Engineering: Enhancing Productivity in Machining - Bengaluru

May 2018

3 - 4	Gear Metrology and Measurement Methods - Bengaluru
6 - 11	Design of Spindle - Specialization - Pune
8 - 9	Defects Analysis of Paint & Powder Coating Applications - Bengaluru
9 - 11	Machine Tool Industry Summit - Goa
14 - 16	Structured Innovation using TRIZ Methodology - Bengaluru
15 - 16	Hands-on Training in Dimensional Metrology - Pune
17 - 18	Process Capability - The Quality Route to Sustained Growth in Manufacturing - Bengaluru
20 - 25	Design of Hydraulics - Gurugram

Calendar of Events - 2018

May 2018

21 - 25	CNC Programming & Operation of Machining Centre - Pune
21 - 26	Training on Hydraulic System Design for Machines - Gurugram
22 - 23	Design of Workholding & Fixturing - Pune
23 - 24	Automation Project Implementation - Key Driver to Smart Manufacturing - Gurugram
23 - 25	Tolerance Stack-Up Analysis - Bengaluru
24 - 25	Fundamentals of Cold Forging & Its Applications - Pune
28 May - 2 Jun	Design of Gearbox - Industrial Machinery - Bengaluru
28 May - 9 Jun	Foundation Course in Sheet Metal Manufacturing - Pune

June 2018

4 - 8	Hands-on training in Programming and Operation of CNC Machining Centres - Bengaluru
8	CE Marking - Compliance Requirements - Pune
10 - 15	Machine Tool Basics - Bengaluru
11 - 15	Robots Operation and Programming - Bengaluru
12 - 13	Practical approach to Gears and Gear Design - Spur and Helical Gears - Pune
13 - 14	Design for Manufacturing & Assembly - Delhi
18 - 22	Hands-on training in Co-ordinate Measuring Machines (CMMs) - Bengaluru
18 - 23	Design of Fixture - Specialization (Machining / Welding / Assembly / Inspection) - Bengaluru
19 - 20	Advanced Technologies in Sheet Forming - Pune
21 - 22	Towards Zero Defects in Welding Applications - Pune
24 Jun - 24 Jul	Electrical & Electronics for Machineries - Bengaluru
26 - 27	Advanced concepts of GD&T - Pune
26 - 27	Manufacturing Excellence through Productivity Improvement - OEE Monitoring and Improvement - Bengaluru
28	Calibration of CNC Metal Cutting Machine Tools - Bengaluru
28 - 30	Gear Manufacturing Processes - Gurugram
28 - 29	Fundamentals of Product Quality Planning (APQP) & Implementation of the Production Part Approval Process (PPAP) - Pune

Association Initiatives

Policy Advocacy

Financial year 2017-2018 was a significant one on policy front. IMTMA was able to effectively prevail upon policymakers to include metalworking machine tools along with accessories and aggregates under the standard GST rate. It was also a matter of satisfaction to see that government agreed to extend customs duty reduction on three critical components CNC systems; ballscrews; & linear motion guides to all categories of CNC machine tools.

IMTMA also held high-level interactions with Government of India functionaries such as Shri Suresh Prabhu, Hon'ble Minister for Commerce and Industry; Shri Babul Supriyo, Hon'ble Minister of State for Heavy Industries & Public Enterprises; Dr. R. Chidambaram, then Principal Scientific Adviser to Government of India; Dr. Asha Ram Sihag, Secretary - Department of Heavy Industry; Shri Pranab Kumar Das, Special Secretary & Member (Customs), Department of Revenue, Ministry of Finance; Chairman and Members of Ordnance Factory Board; Member - Rolling Stock in Railway Board, among others.

IMTMA also cemented its partnership with Department of Heavy Industry with its alignment to 'Industry 4.0 Centre for Excellence' along with Central Manufacturing Technology Institute. With this initiative, your Association has been able to bring to the doorstep of the industry, four unique institutional-frameworks designed to further propel technology and competitiveness development; others being "Advanced Manufacturing Technology Development Centre", AMTTF and "Tumakuru Machine Tool Park". The latter – "TMTP" had its stone-laying ceremony with Ministerial-presence of the Governments of India and Karnataka on 10 February 2018 in Tumakuru. We call upon the industry, specifically the membership, to take utmost advantage of these initiations.

AeroDef Group

Visit to Aerospace and Defence division of Bharat Forge Limited

IMTMA AeroDef Group visited Bharat Forge Limited's (BFL) Forging Plant in Baramati as well as Aerospace - Defence Division in Mundwa, Pune on 26 April 2018. Members of AeroDef Group discussed about the support from Indian machine tool builders.

BFL at Baramati comprises five plants including three machine shops, one hammer line and one ring rolling shop. The company as part of an expansion would have a 12,500 tonne press and 8,000 tonne press, both enabled with Industry 4.0 features. It is the only forging company in the world to have high-level automation in its hammers.

IMTMA also visited BFL's defence division in Mundwa, Pune.



Association Initiatives

IMTMA Regional Council (North)

Meeting on 10 August 2017: Pragati Maidan, New Delhi

The 32nd meeting of IMTMA Regional Council (North) was held in New Delhi coinciding with Delhi Machine Tool Expo 2017. Members highlighted concerns where GST for some specific parts of machine were higher (28%) than that of complete machine which was 18%. IMTMA President urged members to take MUDRA bank's help for raising working capital.



Meeting on 12 January 2018: Ludhiana, Punjab

The 33rd meeting of IMTMA Regional Council (North) was held in Ludhiana. CII-Centre of Excellence for competitiveness made a presentation on 'energy audit and management, including financing modalities for energy efficiency projects'.

Meeting on 27 April 2018: Escorts Limited, Ludhiana, Punjab

The 34th meeting of IMTMA Regional Council (North) was held in Ludhiana. Key suggestions made by Escorts to the Indian machine tool industry was discussed. During the meeting a discussion with ALMTI on the future agenda was also held to chalk out the plan regarding the setting up of a McKinsey made a brief presentation on "Design to Value" - 'How can manufacturing players optimise product design and cost using "Design to Value" tool kit'.



Association Initiatives

IMTMA Regional Council (West)



Meeting on 19 December 2017: IMTMA Technology Centre, Chinchwad, Pune

IMTMA Regional Council (West) organized a meeting in Pune in December 2017. Prior to the meeting, an interactive meeting and plant visit to Mercedes-Benz Private Limited, Chakan was organized. Mercedes-Benz India made a presentation which was followed by a visit to the vehicle assembly plant.

Meeting on 24 February 2018: IMTMA Technology Centre, Chinchwad, Pune

IMTMA Regional Council (West) held a meeting at IMTMA office in Pune in February 2018. A special session on Industry 4.0 was organised.



IMTMA Regional Council (South)

Meeting on 5 January 2018: Bangalore International Exhibition Centre, Bengaluru



A meeting of IMTMA Regional Council (South) was held at BIEC in Bengaluru. Prior to the meeting a presentation on "Credit Rating" by CARE Rating Limited and a presentation by State Bank of India on "Financial Support available for MSMEs" were made.

Association Initiatives

Vision Conclave for CEOs & “UDAAN” members of the Indian Machine Tool Industry

7 - 9 December 2017: Madhubhan Resort: Vallabh Vidhya Nagar, Gujarat

India is entering a new phase in manufacturing and has benchmarked a higher growth in the coming years. There is a Vision for manufacturing which is of achieving 25% share in

overall GDP by the year 2025 with concerted focus on technology and depth value addition, and to generate for the country a hundred million manufacturing jobs.



The country's aerospace industry is projected to grow, defence sector has been opened for private enterprises and there is huge scope for infrastructure development. Future automotive sector growth may come through changes towards “light-weighting” and use of composites where some of the metal-cutting applications may get replaced by metal-forming. Proliferation of additive manufacturing may also present opportunities. These formed the key elements for discussions at 15th Vision Conclave for CEOs and “UDAAN” members of the Indian Machine Tool Industry.

Green Manufacturing Cell

Green Manufacturing Cell is an initiative by IMTMA to help member companies manufacture green machine tools. Five companies (ACE, WENDT, UCAM, KENNAMETAL and YUKEN) have registered under this programme. IMTMA sees green manufacturing as prevention of pollution, means of conserving energy and saving natural resources through innovations and development of new knowledge that will reduce or eliminate the generation of hazardous substances while manufacturing products. The first interactive meeting of IMTMA-Green Manufacturing Cell was held at Kennametal India in Bengaluru on 22nd February 2018. IMTMA-Green Manufacturing Cell also participated in the CII-Green Summit in Chennai.

Advanced Machine Tool Testing Facility



Advanced Machine Tool Testing Facility (AMTTF), a joint project of machine tool industry and the Department of Industrial Policy and Promotion, Govt. of India carried out special testing and investigation assignments including chatter, surface roughness, vibration and dynamic mode shapes. AMTTF was awarded ISO 9001:2015 certificate to “provide advanced testing and/or inspection services to machine tools and /or accessories”, by TUV RHEINLAND during 2017-18 and same is renewed for 2018-19 as well.

Advanced Manufacturing Technology Development Centre (AMTDC)

AMTDC has been set up at the Indian Institute of Technology - Madras (IIT-Madras) to engage in world-class R&D in machine tools and production technology for enhancing the competitiveness of capital goods sectors under the support Scheme for creation of Centres of Excellence by the Department of Heavy Industry, Government of India. IMTMA is a promoter member. Some of the machine tool products developed under this scheme were exhibited at IMTEX 2017 & Tooltech 2017 and received appreciation from the customer and government alike. More products are expected to be exhibited during IMTEX 2019 & Tooltech 2019.

Trade Fairs



10 - 13 August 2017

Pragati Maidan, New Delhi



Indian Machine Tool Manufacturers' Association (IMTMA) organized the second edition of the Delhi Machine Tool Expo 2017 at Pragati Maidan in New Delhi. The show unveiled the latest manufacturing technologies and solutions that would enable OEMs and small and medium enterprises to leverage and enhance their manufacturing capabilities

Delhi Machine Tool Expo 2017 attracted a footfall of 11,279 visitors including 93 business delegations.

The expo was a significant event for the Northern region including various original equipment manufacturers (OEMs) and small and medium enterprises (SMEs) spread across Delhi, Haryana, Uttar Pradesh, Punjab, Rajasthan, etc. The expo featured 242 exhibitors from 10 countries.

Trade Fairs



25 - 30 January 2018, BIEC, Bengaluru, India



IMTMA's flagship event and South East Asia's largest exhibition on metal forming 'IMTEX FORMING 2018 & Tooltech 2018' was held from 25 to 30 January 2018 at BIEC in Bengaluru.

The exhibition was inaugurated on 25 January 2018 by Shri R.V. Deshpande, Hon'ble Minister for Large & Medium Industries & Infrastructure Development, Govt. of Karnataka.

The show at a glance

The exhibition catered to 504 exhibitors spread in 3 halls covering a gross exhibit space of around 33,000 square metres. The exhibition featured 292 Indian exhibitors and 212 foreign exhibitors. The show had participation came from 24 countries, including 3 country group pavilions from Germany, China and Taiwan. The show attracted a footfall of 36,000 visitors.



Mr. A. S. Kiran Kumar, Former Chairman, ISRO and Mr. Nirmal K. Minda, President - Automotive Component Manufacturers Association of India (ACMA). Mr. Jamshyd N. Godrej, Chairman - Exhibitions, IMTMA, Mr. P. Ramadas, President, IMTMA, Mr. Indradev Babu, Vice President, IMTMA and Mr. V. Anbu, Director General & CEO, IMTMA also presided over the inauguration.



Trade Fairs



Many decision makers and business heads from across the spectrum of Indian metalworking industry participated in the exhibition. IMTEX FORMING 2018 & Tooltech 2018 recorded business orders worth ₹ 539 Cr and generated a high potential of business enquiries to the tune of ₹ 4819 Cr. The exhibition size grew by 18% and showcased advanced technologies which could be vital for enhancing productivity for India's manufacturing industry.

International associations from Japan, UK, USA, Italy, Taiwan and Germany participated in the exhibition. Delegations from public and private sectors representing user industries such as automotive, aerospace, defence, railways, power, electrical and electronics, plastic machinery, white and brown goods, medical engineering, etc. took part in the show.

Overall, the exhibition served to open up the way for development of Indian metal forming sector by acting as an enabler to forging long-term business relationships which could lead to the growth of the country's economy.



Mega Events

National Productivity Summit 2017

4 - 5 August 2017: Hyatt Regency, Pune



Indian Machine Tool Manufacturers' Association (IMTMA) organized the eleventh edition of National Productivity Summit (National Productivity Summit 2017) in Pune.

The theme of the summit was "Showcasing Competitiveness in Manufacturing". The summit was inaugurated by Mr. Girish Shankar, Secretary, Department of Heavy Industry, Govt. of India and Mr. Shishir Joshipura, Managing Director, SKF India.

The summit featured keynote presentations by Mr. Sunil Kaul, Group President, Excellence in Manufacturing, Innovation and Technology, Anand Group, Mr. Dattatreya Gaur, Vice President and Business Unit Head, Robert Bosch Engineering and Business Solutions, Dr. Ravi Damodaran, President - Technology & Strategy, Varroc Engineering and Mr. Parag Satpute, Managing Director, Sandvik Asia.

Plant visits were arranged a day prior to the Summit to Spicer India, Bosch Chassis Systems India, Cummins India, Tata Cummins, Mahle Behr India and Concentric Pumps, which enabled the delegates to witness best practices in manufacturing and productivity improvements on the shop floor.

The summit featured presentations on productivity improvement projects from various companies such as Bajaj Auto, Akurdi, TVS Motor Company, Wabco India, Mahindra & Mahindra, Mahle Behr India, Titan Company, Hero Motocorp and Bajaj Auto, Waluj, all of which contested for the IMTMA-ACE Micromatic Productivity Championship Awards 2017.

Mahindra & Mahindra was awarded the first prize for its case study presentation on 'Enhance Productivity and Quality of life in Cold Box Process for Barrel Core Making', while Wabco India and Bajaj Auto, Waluj, bagged the second and third prizes respectively.



Mega Events

International Seminar on Forming Technology 2018

24 January 2018: BIEC, Bengaluru



Indian Machine Tool Manufacturers' Association (IMTMA) organized the International Seminar on Forming Technology coinciding with IMTEX FORMING 2018 & Tooltech 2018 exhibition at Bangalore International Exhibition Centre in Bengaluru.

The theme of the seminar was "Stretching the Limits". The seminar had concurrent sessions on Processes, Equipment & Software, and Materials & Tools, and broadly focused on the changing trends in metal forming processes with the advent of increasing use of composites, electric vehicles and light-weighting. Maturing of hot forming, tube hydroforming, roll forming and flow forming were also discussed.

Dr. Dirk Landgrebe, Director, Department of Forming Technology and Joining, Fraunhofer Institute for Machine Tools and Forming delivered the keynote address. Dr. Landgrebe threw light on latest developments in aerospace and automotive sector and stressed upon the strategic approaches to meet future challenges especially in the field of forming technology.

The seminar brought together 22 national and international speakers from across the globe representing renowned companies such as Fraunhofer IWU, AIDA, Schuler,

Dieffenbacher, AP&T, Laserline, Amada, MJC Engineering & Technology, Mahindra & Mahindra, Electropneumatics & Hydraulics, Autoform, IIT Bombay, Trumpf, and APM Technologies. Over 300 delegates participated in the seminar.



Mega Events

7th Machine Tool Industry Summit

9 - 11 May 2018: Goa



Indian Machine Tool Manufacturers' Association (IMTMA) organized the 7th Machine Tool Industry Summit in Goa. Held once in every two years, the Machine Tool Industry Summit provides a forum to the machine tool fraternity to network, collate ideas and set forth a process of organized thinking, analysis and deliberations.

Over 300 delegates from a wide cross section of the machine tool industry participated in this summit. The 3 day summit featured panel discussions and presentations from experts and achievers from the Indian machine tool industry. The summit had multiple thought provoking sessions with some of them being held concurrently.

Mr. Ram Venkataramani, Managing Director, IP Rings Limited spoke about the evolving developments in auto component manufacturing industry and the expectations from Indian machine tool industry, keeping in mind the futuristic technologies and requirements.

Dr. Omkar Goswami, Founder and Chairman of CERG (Corporate and Economic Research Group Advisory) Advisory Private Limited delivered the keynote address on the economic scenario vis-à-vis the opportunities and

challenges in Indian manufacturing industry. Ms. Madhavi Chandrashekar, Chairperson-UDAAN, presented "Vision 2022" of the Indian machine tool industry.

A special session on "Time to Reboot - Future of Work", clearly addressed the newer approach to application of knowledge that is required to address the huge generation transition that the Indian machine tool industry is experiencing.



Participation in International Events

As part of Export Development initiatives, IMTMA participated in international events / exhibitions.

MF-Tokyo 2017

12 - 15 July 2017: Tokyo, Japan

The 5th Metal Forming and Fabricating Fair was organized by Japan Forming Machinery Association and Nikkan Kogyo Shimbun Limited in Tokyo in July 2017. IMTMA took part in the exhibition to promote IMTMA activities including IMTEX FORMING 2018 & Tooltech 2018 besides showcasing information on Indian machine tool industry. JIIPA agreed to do roadshows on IMTEX FORMING 2018 and CCMI and Intermold Development Association agreed to promote IMTEX FORMING 2018 among their members.



EMO Hannover 2017

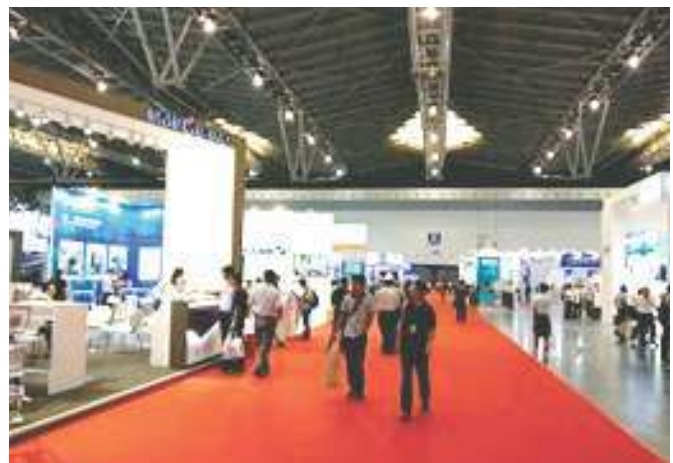
18 - 23 September 2017: Hannover, Germany

IMTMA had a strong presence at the EMO Hannover 2017 exhibition representing Indian companies and connecting with industries as well as associations through various forums such as India Day. The exhibition was organised by VDW, Frankfurt am Main, Germany on behalf of the European Association of the Machine Tools Industries from Brussels, Belgium in conjunction with Deutsche Messe AG, Germany.

Metal Form China 2017

19 - 22 September 2017: Shanghai, China

MetalForm China is an exhibition on forging, stamping and fabricating in China. IMTMA took part in the show with an information booth. The objective behind IMTMA's participation was to further establish the Indian machine tool industry brand in China as well as promote its flagship show IMTEX FORMING 2018 & Tooltech 2018.



Participation in International Events



SIMTOS 2018

3 - 7 April 2018: Kintex, Korea

SIMTOS 2018, The 18th Seoul International Manufacturing Technology Show, organized by Korea Machine Tool Manufacturers Association (KOMMA) was held from 3 - 7 April 2018. Over 1000 exhibitors showcased products such as cutting and forming machines, machine tools and automated parts, 3D printing and materials, manufacturing robots, solutions in welding, measurement, and software amongst others. IMTMA participated in the exhibition with an objective to promote IMTEX & Tooltech 2019, Pune Machine Tool Expo 2018 and Delhi Machine Tool Expo 2019.

MACH 2018

9 - 13 April 2018: Birmingham, UK

MACH is UK's premier event for engineering-based manufacturing technologies, organized by Manufacturing Technologies Association (MTA). MACH took place from 9 - 13 April 2018 in England. The exhibition proved to be the destination of choice for engineers and manufacturers bringing together the best of UK manufacturing under one roof. IMTMA participated in the exhibition with an objective to promote IMTEX & Tooltech 2019, Pune Machine Tool Expo 2018 and Delhi Machine Tool Expo 2019.

Taipei Intelligent Machinery & Manufacturing Technology Show

9 - 12 May 2018: Taipei Nangang Exhibition Center: Taipei, Taiwan

IMTMA participated in 27th Taipei International Machine Tool Show to promote various activities such as IMTEX 2019 & Tooltech 2019 and the new concurrent shows on additive manufacturing and Industry 4.0 to be held during IMTEX 2019. IMTMA held meetings with TAMI and visited Tongtai Machine and Tool Co. Ltd., Industrial Technology Research Institute, Hsinchu, and G-Shank-Enterprise Co. Ltd., Taoyuan.

Metalex 2017

21 - 24 November 2017: Bangkok, Thailand

The 31st edition of Metalex, "Metalex 2017" was organized by Reed Tradex Co. Ltd. at Bangkok. Metalex 2017 showcased over 10,000 state-of-the-art technologies including 4,000 innovations and features such as first super robots in ASEAN. IMTMA organized a delegation of 14 companies to this show with an objective to promote Made in India brand, market IMTEX FORMING 2018 & Tooltech 2018, IMTEX & Tooltech 2019, Pune Machine Tool Expo 2018 and Delhi Machine Tool Expo 2019.



Technology & Training

IMTMA Technology Centres are closely associated in skill development initiatives. IMTMA delivered 16746 mandays of training during 2017-18. The training benefited over 3000 professionals and IMTMA was able to place around 85% of candidates who underwent training in over 170 short-term as well as long-term training programmes at IMTMA Technology Centres in Bengaluru, Pune and Gurugram.

BMO Award



IMTMA was recipient of the "Country-level Annual Award for Responsible Indian BMOs" (Business Membership Organizations), also called Industry Associations and Chambers of Commerce in the "Social Category" organized by Foundation for MSME clusters on February 8, 2018 in New Delhi.



The award was given in recognition of the positive impact that IMTMA created in the Indian machine tool industry and customer segments through training programmes conducted at its Tech Centres in Bengaluru, Pune and Gurugram.

IMTMA Technology Centre

IMTMA training programmes comprise 3 elements: Productivity Institute, Short-term Training Programme for Industry Professionals and Design Institute. Glimpses of new programmes conducted at IMTMA Technology Centres are presented.

Productivity Institute

Five Point Strategy - A key to an Effective Die Maintenance

8 - 9 June 2017: Pune

IMTMA organized a two day programme that focused on die maintenance team's role in tool room and press shop, general die manufacturing process, die tryout process, die maintenance processes and methodology, etc. The training centered on inculcating skills which personnel in mass production environment would normally have.



Technology & Training



Practical Approach towards Process Planning for Machined Parts

24 - 26 July 2017: Bengaluru

IMTMA organized a 3 day programme that focused on process planning for cylindrical parts, process planning for prismatic parts, overview of auxiliary machining processes, etc. The training gave an insight on deciding the process by which a part drawing is manufactured.

Implementing Industry 4.0 in Indian Context

27 July 2017: Pune

14 - 15 September 2017: Bengaluru

Industry 4.0 or "Smart Manufacturing" is a buzzword in manufacturing. To leverage this further IMTMA organized a one day programme that focused on what and why of Industry 4.0, benefits of supply chain management, data analytics and system integration, options for smart sensing and communication of data, and the like.



Large Part Machining

22 - 23 August 2017: Pune

Free form machining is used in aerospace and die and mould industries. Other industries like defence equipment manufacturing, earth movers, railway and heavy engineering use large machines for heavy jobs and odd operations.

To impart training for engineers in these industries IMTMA organized a 2 day programme. The training focused on enabling the engineers meet challenges of machining large parts, accuracy issues with large machines, calibration and checking inaccuracy, etc.

Technology & Training

Hands on Training on Spindle Assembly & Maintenance

9 - 13 October 2017: Bengaluru



IMTMA organized the first ever batch of "Hands-on training in Spindle Assembly & Maintenance" in Bengaluru. The workshop was conducted by industry experts. Industry visit



to Precision Machinekraft (P) Ltd., Bengaluru was organized for participants to get the live experience of actual spindle assembly and maintenance.

Design of Stamping Dies for Sheet Metal Parts

18 - 23 December 2017: Pune



IMTMA organized a 6 day programme on Design of Stamping Dies for Sheet Metal Parts to give participants an illustrative hands-on exposure to the entire process and equipment for mass manufacturing a fairly complex sheet part, including design of entire set of dies which can be physically seen and tried out by the end of the course. The programme focused mostly on sheet forming processes, basics of cutting, bending and forming operations, etc.

Defect Analysis & Trouble Shooting of Injection Moulded Components

9 - 10 January 2018: Bengaluru

IMTMA organized a 2 day programme on Defect Analysis & Trouble Shooting of Injection Moulded Components at IMTMA Technology Centre in Bengaluru. The programme primarily focused on the types of defects in injection moulded parts with examples from real life case studies and examples from the industry.



Technology & Training



Defects Analysis and Trouble Shooting of Castings

9 February 2018: Bengaluru

IMTMA organized a one day training that focused on casting process variables, material characteristics influencing casting quality, review of casting processes, etc. The training focused on imparting skills to young engineers so that they could avoid the occurrence of defects in the first instance itself.

Design Institute

Machine Design Basics

24 - 29 July 2017: Bengaluru

IMTMA organized a training programme that focused on developing the basic design skill sets for design engineers to enhance their efficiency and productivity. The training covered aspects of design fundamentals which were important for design engineers working in any industrial sector. Fundamentals of designs such as drafting standards, manufacturing drawings, limits, fits, tolerance and GD&T, design of machining elements required for systematic and quantitative design engineers were also covered. The training session was highly interactive and covered an entire 360° view on basic machine design aspects.



Design of Fixture - Special

11 - 15 June 2018: Bengaluru



IMTMA organized a training programme which covered all aspects relating to jigs and fixtures. The training focused on providing the engineers with skills on effective utilization of machine tools, fixture design, set-up time and cycle time reduction, increased accuracy on components, etc.

Activities of Bangalore International Exhibition Centre

Hall 4 awarded 'Gold Rating' from Green Building Councils

The new Exhibition Hall (Hall 4) of BIEC was awarded 'Gold' rating by Indian Green Building Council and US Green Building Council. Completed in January 2017, BIEC's Hall 4 is India's largest columnless exhibition hall. The award has been a crowning achievement for BIEC's efforts in ushering a green building environment in India. BIEC's achievement will in a big way encourage stakeholders to walk the green path.



Exhibition Excellence Awards 2018

BIEC was awarded first prize for being India's leading exhibition venue at the Exhibition Excellence Awards 2018 organized by Exhibition Showcase at India Exposition Centre, Greater Noida on 17 March 2018. The award will serve as an added impetus for BIEC to continue its endeavours for the betterment of the Indian exhibition industry besides serving customer requirements.

Global Direct 2017 & UFI Asia Pacific Conference 2018

BIEC participated in two international events. Global Direct 2017 held in July 2017 at Westin Lake Las Vegas Resort & Spa for which BIEC was a silver sponsor. The exhibition enabled BIEC to increase its presence in Europe and USA. UFI Asia Pacific Conference 2018 held at Kuala Lumpur in March 2018 was an opportunity to debate on the future direction of exhibition industry with stakeholders.



IEIA Open Seminar 2018

The 8th Annual Open Seminar of the Indian Exhibition Industry Association (IEIA) was held from 9th to 11th May 2018 at HITEX Exhibition Center, Hyderabad. Bangalore International Exhibition Centre (BIEC) attended the seminar which also featured participants and leaders of the exhibition industry from all across the globe and hosted around 100 international participants with over 500 delegates that include leading players from our country.

New Products Developed by Members during 2017 - 2018

ABHIJAT EQUIPMENTS PRIVATE LIMITED

1. Turbo Turn CNC Lathe – 2 Axis [Model TT20]
2. Centreless Grinder [Model ARYA 100]
3. 2 Axis CNC Lathe [Ecoturn 42]

FIBRO INDIA PRECISION PRODUCTS PRIVATE LIMITED

1. Universal Rotary Table with Cam Drive [Model – FIBROTOR]

IND-SPHINX PRECISION LIMITED

2. Axis CVD-Diamond Coated High Precision End Mills and Drills for Graphite Machining.
3. Axis CVD-Diamond Coated High Precision End Mills and Drills for CFRP Machining.
4. INDSPHINX CVD-Diamond Coated PCB Routers, Drills and Specials for NexGen Printed Circuit Boards.

ISGEC HEAVY ENGINEERING LIMITED

1. Monobar Transfer System – For Productivity enhancement in Small size Presses to meet requirement of Ancillary Sector.

MILACRON INDIA PRIVATE LIMITED

1. Injection Moulding Machines
 - Quantum 150, 180 & 230 – High Performance machine
 - Two Platen Maxima Performance Servo (MPs) 1000 for Automotive part manufacturing
 - Two Platen Maxima Performance Servo (MPs) 650-2K for Two Component Parts used in Packaging
 - Two Platen Maxima Servo 1425 T for Automotive part manufacturing
 - Hydron Servo 80 & 300 for Packaging and houseware part manufacturing
2. Twin Conical Extrusion Machine for Pipe Manufacturing [Model – TC55]

SCHENCK ROTEC INDIA LIMITED

1. Automatic Universal Machine – for Screw compressor balancing [Model – H3BK]
2. Tyre Testing Machine – Dynamic 2 plane Balancing machine with runout measurement for tyre in inflated condition.
3. Crank Shaft Balancer – Automatic final Crankshaft Balancing Machine

WELDOR ENGINEERING PRIVATE LIMITED

1. NC Hydraulic Section Bending Machine [Model – WSB-60 with Cyblec NC Controller].
2. CNC Hydraulic Sychro Press Brake with Cyblec – 8PS 6 Axis Controller, Capacity 600 Ton Size 6000 X 12 MM.

New Members enrolled during 2017 – 2018

[As on 30 June 2018]

ARNTZ TECHSAW PRIVATE LIMITED

1st Floor, 30 RR Pvt Industrial Area,
Near Indotech Industries Ltd, Sanwer Road, Indore
Indore - 452015, Madhya Pradesh
(Manufacturer - Bi-Metal & Carbide Band Saw Blades,
Cermet & Carbide Tipped and Coated Tipped Circular Saws)

CNC INDIA TOOLS & SERVICES PRIVATE LIMITED

No 64, 3rd Floor, Parimala Towers, MES Road Yeshwanthpur
Bangalore - 560022, Karnataka
(Manufacturer - SPM's, Cutting Tools, Jigs & Fixtures &
Electrical Panel Boards.)

EAGLE INDUSTRIES

Furniture Street, 7/2 New Bapu Nagar
Near Jilla Garden, Rajkot - 360002, Gujarat
(Manufacturer - Vibrator Finishing Machine, Bead Blaster
Machine, Finishing Machine, Ultrasonic Machine, etc.)

GUSTI TOOLS WORKS LLP.

No 21, Imperial Court
Cunningham Road, Bangalore - 560052, Karnataka
(Manufacturer - Tooling Solutions in High Performance
Solid Carbide, Special designed PCD Tools, etc.)

MESSER CUTTING SYSTEMS INDIA PRIVATE LIMITED

No. 198/2A 2B & 199/2B, SNMV College Road,
Malumichampatti, Coimbatore - 641050, Tamil Nadu
(Manufacturer - CNC Thermal Cutting Machines (Oxyfuel,
Plasma & Laser)

MULTISPAN CONTROL INSTRUMENTS PRIVATE LIMITED

Plot No. 72/B, Phase-1 G I D C Vatva,
Ahmedabad - 382445, Gujarat
(Manufacturer - PID Temperature Controllers, Process
Control Instrument, Programmable Timers, Programmable
Counter,
Power & Energy Meters & Protection Devices.)

OM MANUFACTURERS

Plot No. 368/B, Road No "O"
Aji GRIDC Near 80 feet Road, Rajkot - 360004, Gujarat
(Manufacturer - Moulding Boxes for Metal Foundry, Mould
Bases, Moulding Patterns, etc.)

P R SALES CORPORATION PRIVATE LIMITED

No. 1 Kedar Apartment, Plot No. 48 Mayur Colony, Kothrud,
Pune - 411038, Maharashtra
(Distributor - Indexable Reamers, Taps Grinding Auto
Steady Rests, Solid Carbide Drills, Reamers Gun Drills & Tool
Holders.)

CAPRICOT TECHNOLOGIES PRIVATE LIMITED

No. 6, 2nd Floor, Service Road, 2nd Stage,
West of Chord Road,
Bangalore - 560086, Karnataka
(Service Provider - CAD/CAM/CAE)

DEWAN HOUSING FINANCE CORPORATION LIMITED

Warden House, 2nd Floor, Sri P M Road, Fort Mumbai,
Mumbai - 400051, Maharashtra
(Service Provider - Financing SME Plant & Machinery)

FUEL INSTRUMENTS & ENGINEERS PRIVATE LIMITED

Plot No. 68-69, Parvati Co-op Ind Estate,
Yadav Inchalkaranji Shirol
Kolhapur - 416145, Maharashtra
(Manufacturer - Universal Testing Machines, Hardness
Testers, Impact Testing Machine & Balancing Machines.)

J K MACHINES

E-64A, Jivan Park,
Uttam Nagar, New Delhi - 110059, Delhi
(Manufacturer - Spark Erosion Machine, EDM's, Machine
Tools & Accessories, Tool Room Machines CNC Machines,
Testing & Measuring Equipment, Cutting Tools &
Accessories.)

MICRO FLAT DATUMS PRIVATE LIMITED

Plot No. 25-28, Zone D-3, GIDC Estate, Vithal,
Udyognagar - 388121, Gujarat
(Manufacturer - Precision Surface Equipment, Lapping
Machine & Accessories, Cast Iron Casting, Calibration Sales.)

NRB-IBC BEARING PRIVATE LIMITED

Dhannur, 2nd Floor, 15 Sir P. M Road, Fort,
Mumbai - 400001, Maharashtra
(Manufacturer - Ball Screw Support Bearings, Super
Precision Bearings, Cylindrical Roller Bearings)

OMKAR ENGINEERING

Sr. No. 14 Dhadge Industrial Estate, Pune Sinhgad Road,
Nanded Phata, Pune - 411041, Maharashtra
(Manufacturer - Tool Holders, Hydro Power Pack, Pneumatic
Cylinders, Power Chucks, Soft Jaws / Hard Jaws, Fixtures, T
Nuts, Turret Sleeves & Others.)

PANCHSHEEL FILTERS PRIVATE LIMITED

C/38/14 Globe Hs, Premlok Pk. P.O. Box 10
Chinchwad, Pune - 411033, Maharashtra
(Manufacturer - Air Filtration (Pleated Media Filters, Panel
Filters (Dry Type), Liquid Filtration (Pleated Media Filtration,
etc.)

New Members enrolled during 2017 – 2018

[As on 30 June 2018]

PURSHOTAM COMPANY PRIVATE LIMITED

No. 8, Lyons Range 1st Floor,
Kolkata - 700001, West Bengal
(Manufacturer - Column Mounted Marking Machine,
Autoloader Hardness)

SCHNEEBERGER INDIA PRIVATE LIMITED

406, Satra Plaza Palm, Beach Road, Sector 19D,
Vashi Navi Mumbai, Mumbai - 400703, Maharashtra
(Distributor - Roller & Ball Linear Guideways, Liner Bearing
Geared Racks.)

SUNTECH LANDRIANI MACHINE TOOLS PRIVATE LIMITED

Plot No. 19 Gat No. 605/2, Mukaiwadi Road, Pirangut,
Pune - 412115, Maharashtra
(Manufacturer - Broaching Machines & Broaching Tools)

S & T MACHINERY PRIVATE LIMITED

Corp. Off: 20 Vasanth Nagar,, Trichy Road, Singanallur,
Coimbatore - 641005, Tamil Nadu
(Manufacturer - Vertical Machining Center, Double Column
Machining Center & Turning Centers.)

SHRI BALAJI PRESSES PRIVATE LIMITED

C-96, Sector-1, Ramghat Road,
Talanagri Industrial Area
Aligarh - 202001, Uttar Pradesh
(Manufacturer - Pneumatic Power Presses)

THE NEW BALL BEARING CO.

P.O. Box No. 933, Aaj Ka Anand Building,
Shivajinagar, Pune - 411005, Maharashtra
(Distributor - Bearing & Units, Seals, Lubrication Systems,
Reliability Systems, Mechatronics & Power Transmission
Products.)

Total Membership of IMTMA as on June 2018 : 475 Members

IMTMA Initiatives



In the Press



Glimpses of BIEC



Notes

Notes



Indian Machine Tool Manufacturers' Association

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Bengaluru - 562 123, Karnataka (India).
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Plot No. 249 F, Udyog Vihar Sector - 18, Gurugram - 122 015, Haryana (India).
T: +91 124 4014101 F: +91 124 4014108 E: imtma.ggn@imtma.in

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