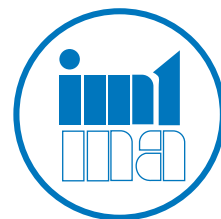




Annual Report 2012 - 2013



**Indian Machine Tool
Manufacturers' Association**

CONTENTS

	Pg. No.
Executive Committee 2012-2013	1
President's Foreword - 'Sailing through the rough Seas'	3
66th Annual Session	6
Calendar of Events	8
IMTEX 2013 and Tooltech 2013	12
Activities during 2012- 2013	15
Activities of Bangalore International Exhibition Centre	34
World Machine Tool Scenario in 2012	35
Trends in Indian Machine Tool Industry	38
New Products Developed by Members in 2012 -2013	41
New Members enrolled during 2012-2013	43

EXECUTIVE COMMITTEE 2012-2013

President

Mr. Vikram Sirur
Executive Chairman
Miven Machine Tools Limited

Vice President

Mr. L. Krishnan
Managing Director
TaeguTec India Private Limited

Members

Mr. Vikram Vilas Salunkhe
Managing Director
Accurate Engineering Company
Private Limited

Mr. Syed Amjed
Sr. Vice President - Marketing
Bharat Fritz Werner Limited

Mr. N. Umesh
Vice President
Bosch Limited

Mr. Deepak S. Shrivastava
Executive Director
Electronica Machine Tools Limited

Mr. M. D. Sreekumar
Managing Director
HMT Machine Tools Limited

Mr. Rupesh Mehta
Managing Director
Macpower CNC Machines Private
Limited

Mr. Satish Godbole
Vice President - Motion Control Systems
Siemens Limited

Mr. Indradev Babu
Managing Director
UCAM Private Limited

Past Presidents

Mr. M. Lokeswara Rao
Lokesh Machines Limited *

Mr. N. K. Dhand
Micromatic Grinding Technologies Limited *

Mr. C. P. Rangachar
Yuken India Limited *

Mr. V. S. Goindi
Parishudh Machines Private Limited *

Mr. Shrinivas G. Shirgurkar
Ace Designers Limited *

Mr. Bir D. Singh
Voltas Limited *

Mr. C. R. Swaminathan
PSG Industrial Institutions *

Mr. Shailesh Sheth
Simtools Limited *

Mr. S. N. Mishra
Bharat Fritz Werner Limited *

Mr. Nirmal Bhogilal
Batliboi Limited *

Mr. Jamshyd N. Godrej
Godrej & Boyce Manufacturing Company
Limited *

Mr. G. A. R. Shaikh
Voltas Limited *

Mr. Jayant H. Shah
Batala Engineering *

*Companies represented by Past Presidents during their tenure of Presidency.



EXECUTIVE COMMITTEE 2012-2013

Co-opted Members

Mr. Achal Nath
Executive Director
Ashok Manufacturing Company
Private Limited

Mr. R. D. Madan
Chief Business Officer
ISGEC Heavy Engineering Limited

Invitees

Mr. S. Sukhdial Singh
President
Association of Ludhiana Machine Tool
Industries

Mr. Milind Kulkarni
Chief Executive Officer
Batliboi Machine Tool Group
Batliboi Limited

Mr. Aditya Ratnaparkhi
Dy. Chairman - UDAAN &
General Manager - Production
Electronica Mechatronic Systems India
Private Limited

Ms. Sonali Kulkarni
President & CEO
Fanuc India Private Limited

Mr. N. K. Balgi
Director
Ferromatik Milacron India Private Limited

Mr. Parakram G. Jadeja
Chairman & Managing Director
Jyoti CNC Automation Limited

Mr. B. C. Rao
Managing Director
Kennametal India Limited

Mr. Shailesh D. Kawa
President
Machine Tools Manufacturers Association
(MTMA) Rajkot

Mr. T. K. Ramesh
Chief Executive Officer
Micromatic Machine Tools Private Limited

Mr. Nikhil Agrawal
Director
Nagel Special Machines Private Limited

Mr. D. S. Totre
Vice President - Machine Tool Division
Premier Limited

Mr. Rajendra S. Rajamane
Chairman - UDAAN &
Managing Director
Rajamane Industries Private Limited

Mr. Rajesh Khatri
Executive Director & CEO
TAL Manufacturing Solutions Limited

Secretary & Director General

Mr. V. Anbu

FOREWORD

ANNUAL REPORT 2012-2013



Sailing through the rough Seas

ECONOMIC CONDITIONS

2012 - 2013 was a challenging year not only for the industry but also for the whole economy. Indian economy registered a moderate growth of 5 percent and manufacturing sector registered a decadal low growth of just 1 percent during the period. As the year progressed, fallouts of uncertainty became more pronounced with high deficits, restrictive lending, low business sentiments, down market forecasts, depreciating Rupee, gloomy global trade, demotion by international rating agencies and beyond all crisis of confidence in institutional frameworks.

Owing to the uncertainties in the global and domestic markets, machine tool production in

India declined by around 10 percent during 2012-2013. Imports in US dollar terms have declined by 19 percent and consumption by around 4 percent. A few major machine tool companies have shown progress in exports, though the exports from industry on the whole were still low. During these challenging times, industry fared marginally better than the meltdown phase of 2008-2009.

However, there is optimism, as the order booking for machine tools appears to have picked up in the recent months. As it stands, 2013-2014 is expected to be a year of hardships for the economy and consequently for the industry. This calls for proactive measures by the Indian machine tool industry.



FOREWORD

First is the 'enhancement of internal capacities'. Second, 'upgrading technology levels in machine tools', including development of critical components. Third, 'institutionalising an efficient supply chain management' and fourth, 'making this industry an attractive career proposition' so as to bridge the workforce deficit which is plaguing the industry at the moment.

No doubt, there are formidable barriers such as high interest rates, technology acquisition difficulties and low availability of skilled manpower, but we will overcome the many challenges and perhaps even convert some of these into our forte. Necessity is the mother of all inventions, as they say. It is only apt that the long-term agendas of the industry should be taken up on a war footing.

ASSOCIATION ACTIVITIES

The most notable outcome of the Association's endeavour in the last one year was the articulation of a futuristic-yet-achievable "VISION 2020" strategy for the Indian machine tool industry by the turn of this decade. Together, with a well-defined mission and specific target-goals of where the industry needs to move forward over the next seven years, "VISION 2020" was clearly an inclusive collection of minds – young and experienced – representing the small, medium and large contours of our industry fraternity. We must definitely resolve to try and achieve this vision.

You will be happy to know that your association has partnered with various government entities and trade bodies for a number of initiatives aimed at achieving growth and enhancing the global competitiveness of the industry.

One of the key initiatives is the establishment of the proposed 'Machine Tool Industry Park' near Tumkur, about 90 kms from Bangalore. The machine tool park will facilitate a holistic integration of machine tool manufacturers and their supply chain units. IMTMA has signed a Memorandum of Understanding with the Government of Karnataka and has submitted the project application for approval. This facility would have state-of-the-art physical infrastructure for units operating in the Park.

The Association is also working closely with the Office of the Principal Scientific Advisor to the Government of India; National Manufacturing Competitiveness Council (NMCC) and the Department of Heavy Industry to facilitate 'Technology Development and Acquisition' for the machine tool industry. As an outcome of one of the 'Development Council' meetings, the Department of Heavy Industry, Government of India has proposed to setup 'Centers of Excellence' (CoE) for development of technology for various sectors of the manufacturing industry at four IIT's.

Further, the Government has constituted the 'Capital Goods Sector Skill Council'. To promote this unique initiative, IMTMA has joined hands with the Department of Heavy Industry, Federation of Indian Chambers of Commerce & Industry and National Skill Development Corporation (NSDC) in meeting this vital goal of training a large number of skilled personnel at all levels.

In addition to many of these collaborative initiatives, your Association has taken its own independent initiatives on skill related needs of the manufacturing sector in India which include the 'IMTMA Finishing School', 'Machine Building Skills Centre' as well as more than 110 short-term training programmes and seminars conducted by IMTMA's Technology Centre.

Another important step forward by the Association is the re-launch of its 'Design Institute' under the aegis of IMTMA Technology Centre to provide skills and knowledge to our engineers in the area of machine tool design. That apart, your Association has kept the tempo of organizing other key events for the benefit of members at large and particularly the customers of machine tool manufacturers. The last one year has been witness to mega events like 'International Seminar on Machining Technologies' and 'Productivity Summit' with a concurrent event – 'Productivity Buzz', a unique platform where 'solution providers' and 'solution seekers' had the opportunity to network with experts to exchange ideas and new concepts to resolve productivity challenges in metal working.

FOREWORD

TRADE FAIR FOCUS

The 16th IMTEX and the 15th Tooltech exhibition at Bangalore, highlighted the special focus of the Association on showcasing manufacturing technology to the World. Yet again, proving the optimism and sustained business expectations that the Indian manufacturing can offer to the global machine tool industry, the exhibition, attained a truly global image with an equal International participation, providing a gateway to a world class experience in metalworking manufacturing technology.

The other key activities undertaken by your Association were the group participation in Machine Tool Exhibitions of Russia (Metalloobrabotka) and IMTS 2012, Chicago, USA. The objective of promoting the 'Made in India' brand in these exhibitions was well achieved along with gathering more information about Machine Tool Industry in these countries as well as networking with dealers and distributors.

The last year also witnessed an increase in the activities of the three Regional Councils of IMTMA – North, West and South with the support of "UDAAN" group.

BIEC

BIEC is today recognized as a key destination for industrial expositions in India. With more than 25 trade fairs and mega events to its credit in the last one year, BIEC achieved a total of 133 Exhibition man days for the period 2012-2013.

The exhibition complex has clearly earned recognition as India's finest and preferred state-of-the-art exhibition and conference venue.

FOCUS IN FUTURE

2013-2014 is expected to be a year of hardship for the Indian economy and consequently for its industries. Given the unease in economic conditions at present,

pessimism in the market is likely to continue. There is a serious need to focus on technology innovation, design and new product developments.

The Indian machine tool industry would also need to prepare itself to equally focus on other potential sectors like aerospace, energy and healthcare for enhancing competitiveness.

In keeping with ever-increasing requirement of customers, there is need to focus on technology, design, aesthetics and product development. Efforts of the industry in this direction has to be continued while emphasising on other key aspects like TQM, TPM, Six Sigma, etc., These are now being seen as inherent requirements while placing orders on our industry- and also an aspect of comparison with competitors from elsewhere.

ADIEU

The last two years, for me as the President of IMTMA, have been indeed most rewarding. It has been a great learning experience for me personally. I share the steady achievements and accomplishments of the Association, with all my colleagues in the IMTMA Executive Committee, especially with our Vice President, Mr. L. Krishnan and the Secretariat, who have been by my side throughout these last two years. It was equally gratifying to have the guidance of all the Past Presidents of the Association.

As I lay down the office of President at the forthcoming Annual Session, I commit my whole-hearted support to my successor and to the new Executive Committee, for successfully strategizing for a brighter future for our industry in the years ahead.



Vikram Sirur
President

66TH ANNUAL SESSION OF IMTMA

29th August 2012 : BIEC, Bangalore



The 66th Annual Session of Indian Machine Tool Manufacturers' Association (IMTMA) was held on 29th August 2012 at Bangalore International Exhibition Centre (BIEC).

Delivering his annual address, IMTMA President, Mr. Vikram Sirur expressed concern about the current Indian economic environment and took cognisance of challenging global conditions in Europe, United States and China.

However, Mr. Sirur also noted that there was optimism prevailing in several key manufacturing sectors such as automotive, defence, etc. He said there was an increase in orders for manufacturing technologies from the defence sector.

Speaking about the conditions in the Indian machine tool industry, he called upon the industry to continue its renewed focus on technology, innovation and new product development. He further noted that the dynamics of machine tool business have changed and are now cast towards superior

performance, zero-tolerance, zero-breakdown, TPM and lean manufacturing, etc., Importance is given to safety and automation as also to integrating "green" aspects in manufacturing technologies.

Mr. Sirur also emphasised the need to augment production facilities, widen product portfolios and focus on new customer-segments. These include sunrise industries such as infrastructure, energy, construction, besides defence, aerospace and medical engineering. The industry further needed to concentrate its attention on human resources and skill development.

Speaking about various proactive initiatives of the Association, he also acknowledged the supportive role of the Government of India and the Government of Karnataka.

Mr. Sirur also informed members about steps taken towards establishing the "Machine Tool Park (South)". He noted that with the involvement of members, Machine Tool Park

66TH ANNUAL SESSION OF IMTMA



(South) will facilitate a holistic integration of machine tool manufacturers and related service providers to achieve quantum growth and global competitiveness of the industry. He disclosed that IMTMA had signed a Memorandum of Understanding with the Government of Karnataka. He assured that this Park would have state-of-the-art physical and infrastructure facilities in addition to other value added services.

On technology focus, Mr. Sirur spoke about the 'CEOs Delegation to Republic of Korea and Taiwan', a revelation of how technology and innovation can catapult industries into global prominence. He mentioned that learnings from Korea and Taiwan visit were shared with all key stakeholders, especially amongst policy-making bodies.

He said that "IMTMA - Naoroji Pirojsha Godrej International Exhibition and Conference Complex" facility had emerged as the most preferred destination for B2B trade fairs and mega events in the country.

IMTMA President then thanked the members, Executive Committee and Secretariat for providing assistance, guidance and support in all major endeavours of the association.

Mr. Sirur then took up the statutory agenda of the business session of the association, which was unanimously approved by a voice vote.

The annual session of IMTMA concluded with a vote of thanks to the office-bearers of the Association.



JULY

- Finishing School in Production Engineering in **Bangalore from 02 to 28**
- Idle Time Reduction in Metal working through Quick Changeover Techniques in **Bangalore on 11**
- Welding Technology in Automobile Industry in **Pune on 11**
- Process Capability in **Bangalore from 12 to 13**
- Servo Technology for Industrial Motion Control in **Pune on 13**
- Newer Manufacturing Strategies using multitasking & 5 axis CNC Machines in **Pune from 17 to 18**
- Applications of LASER in Manufacturing in **Bangalore on 20**
- Cost Reduction through Appropriate Automation in **Pune on 20**
- Heat Treatment Process in Metalworking in **Bangalore from 23 to 24**
- Work holding & Fixturing Techniques for Productivity Improvement on CNC Machines in **Pune from 24 to 25**
- Right Selection of Linear Motion Guideways, Ball Screws for Industrial Machinery in **Gurgaon on 25**
- Calibration of CNC Machines in **Pune on 27**
- Industrial Components Cleaning Processes in **Pune on 7**
- Hot Forming Process & Application in **Pune on 8**
- Manufacturing Excellence through TQM approach in **Bangalore from 10 to 11**
- Design of Workholding & Fixturing in **Gurgaon from 13 to 14**
- Tolerance Stack-Up Analysis in **Bangalore from 13 to 24**
- Design of Workholding & Fixturing in **Bangalore from 23 to 24**
- Getting best out of CMM's in **Gurgaon from 23 - 24**
- Cutting Fluids & Swarf Management in **Pune on 24**
- Latest Trends in EDM Machining & its Application in **Pune from 28 to 29**
- 66th Annual session of IMTMA in **Bangalore on 29**
- Advanced CNC Programming for CNC in **Bangalore from 28 to 30**

AUGUST

- Machine Tool Testing & Performance Evaluation in **Bangalore from 2 to 3**
- Machining Productivity through OEE in **Bangalore on 3**
- Finishing School in Production Engg (CERATIZIT) in **Bangalore from 6 to 25**

SEPTEMBER

- Heat Machining Centre Treatment Processes In Metal Working in **Gurgaon from 06 to 07**
- TPM featured machine tools for higher productivity in **Gurgaon on 12**
- Effective Utilization of CNC Grinding Machines for Productivity Improvement in **Gurgaon on 13**
- How to improve the accuracy of Machine tools in **Pune 11**
- Geometric Dimensioning and Tolerancing (GD&T) in Design through Manufacturing in **Pune from 25 to 26**

CALENDAR OF EVENTS

- Right Selection & Application of Tooling for CNC Machining Centres in **Pune from 4 to 5**
- Surface finish & Its Measurement in **Bangalore 13**
- Selection, assembly & trouble shooting of LM guideways & Ball screw in **Bangalore on 14**
- Calibration of Dimensional Measuring Instruments in **Bangalore from 21 to 22**
- High Performance Machining Technology (HPM) in **Bangalore from 25 to 26**

OCTOBER

- Operation of Co-ordinate Measuring Machines (CMMs) in **Bangalore from 08 to 12**
- Inspection and Testing of CNC Metal Cutting Machine Tools in **Pune on 9**
- Latest Trends in Gear Manufacturing in **Bangalore from 10 to 1**
- Design and Analysis of Structures of Industrial machines in **Pune on 12**
- Manufacturing automation using Robots in **Pune on 15**
- Basics of Programming & Operation of Turning Centres in from in **Bangalore 15 to 19**
- Design of Experiments in **Bangalore 16-17**
- Effective Maintenance of CNC Machines for Productivity Improvement in **Bangalore from 18 to 20**
- Spindle Maintenance for Metal Cutting & Industrial Machinery in **Gurgaon from 18 to 19**
- Design of Gauges in **Pune on 31**

NOVEMBER

- Finishing school in Production Engg in **Bangalore from 19 to 15 Dec**
- Total Safety Management in industries in **Bangalore on 21**
- Lean Manufacturing processes in workplace in **Bangalore from 22 to 23**
- VISION 2020: 13th Conclave for CEOs & UDAAN Members of Indian Machine Tool industry in **Kolkata on 22 to 25**
- Challenges and solutions in Thread cutting in **Bangalore on 28**
- Seminar on Industrial components cleaning processes in **Gurgaon on 23**
- Seminar on Welding Technology in Automobile Industry in **Gurgaon on 27**
- Spindle Maintenance for Metal Cutting & Industrial Machinery in **Pune from 06 to 07**
- Machining Productivity through OEE in **Pune on 27**
- Seminar on Heat Treatment Process in Metalworking in **Pune on 30 to Dec 1**

DECEMBER

- 6th IMTMA-Siemens Productivity Championship Awards & Productivity Summit and Productivity Buzz in **Bangalore on 7 and 8**
- Tolerance stack up analysis in **Bangalore from 12 to 13**
- Surface Finishing Processes (Polishing, Lapping, Honing and Burnishing) in **Bangalore on 19**
- Seducing Cycle Time & Machining Cost on CNC Machining Centres in **Gurgaon from 21 to 22**
- Primer Course on Sheet Metal Forming in **Pune from 17 to 18**



CALENDAR OF EVENTS

2013

ANNUAL REPORT 2012-2013

JANUARY

- Inhouse training program for TVS engineers on metal cutting -phase in **Bangalore from 7 to 12**
- PLC Technology in **Bangalore on 11**
- Servo Technology for Industrial Motion Control in **Bangalore on 12**
- Workshop on Calibration of CNC Machines in **Bangalore on 16**
- Workshop on Measurement of Form & Positional Errors in **Gurgaon from 17 to 18**
- Seminar on Design of Workholding & Fixturing in **Pune from 08 to 09**
- Improving Process Capability in **Pune from 11 to 12**
- Seminar on Welding Technology in Automobile Industry in **Pune on 18**
- International Seminar on Machining Technology in **Bangalore on 23**
- '5th JAGRUTI - IMTMA Youth Programme' in **Bangalore on 26-27**
- IMTEX 2013 - Indian metal-cutting Machine Tool Exhibition & Tooltech 2013 - International exhibition for cutting tools, accessories, CAD/CAM at BIEC, **Bangalore from 24 to 30**
- Cold Roll Forming in **Bangalore on 22**
- Geometric Dimensioning & Tolerancing in Design through Manufacturing in **Bangalore from 26 to 27**
- Total Quality Management in **Gurgaon from 22 to 23**
- Effective Maintenance of Presses in **Pune from 12 to 13**
- Challenges and Solutions in Thread cutting in **Pune on 15**
- Advanced GD&T in **Pune from 19 to 20**
- Effective Maintenance of CNC Machines for Productivity Improvement in **Pune from 25 to 27**

FEBRUARY

- Spindle Maintenance for Metal Cutting & Industrial Machinery in **Bangalore from 13 to 14**
- Design and Analysis of Structures of Industrial machines in **Bangalore on 15 to 16**
- Productive Utilization of CNC Grinding Machines in **Bangalore from 25 to 26**
- Interactive meeting of IMTMA Regional Council (West) in **Pune on 1**
- Seminar on Cost Effective Automation for Metalworking in **Bangalore from 5 to 6**
- Heat Treatment Processes for Metal Working in **Bangalore from 7 to 8**
- Advanced CNC Programming for CNC Turning Centres in **Bangalore From 14 to 15**
- Plastic Part Design & Processing in **Bangalore from 15 to 16**
- Interactive meeting and plant visit by IMTMA Regional Council (North) members to GNA Duropart limited in **Hoshiarpur on 19**
- Lean Manufacturing processes in workplace in **Pune from 18 to 19**
- Machining Productivity through OEE in **Gurgaon on 23**

MARCH

- Interactive meeting of IMTMA Regional Council (West) in **Pune on 1**
- Seminar on Cost Effective Automation for Metalworking in **Bangalore from 5 to 6**
- Heat Treatment Processes for Metal Working in **Bangalore from 7 to 8**
- Advanced CNC Programming for CNC Turning Centres in **Bangalore From 14 to 15**
- Plastic Part Design & Processing in **Bangalore from 15 to 16**
- Interactive meeting and plant visit by IMTMA Regional Council (North) members to GNA Duropart limited in **Hoshiarpur on 19**
- Lean Manufacturing processes in workplace in **Pune from 18 to 19**
- Machining Productivity through OEE in **Gurgaon on 23**

CALENDAR OF EVENTS

APRIL

- Workshop on Maintenance of Hydraulics and Pneumatics Systems in **Bangalore from 8 to 10**
- L.E.A.P. (Learn, Educate, Apply, Prosper) programme in **Goa from 12 to 14**
- Workshop on Design of workholding and fixturing in **Bangalore from 17 to 18**
- Workshop on Design of Gauges in **Bangalore on 19**
- Seminar on Latest Trends in Electric Discharge Machining (EDM) in **Bangalore from 23 to 24**
- Seminar on How to Improve the accuracy of Machine Tools in **Bangalore on 25**
- Reducing Cycle Time and Machining Cost on CNC Machining Centres in **Bangalore from 26 to 27**
- Seminar on Manufacturing Automation using Robots in **Gurgaon on 12**
- Newer Manufacturing Strategies using Multitasking and 5 Axis CNC Machines in **Gurgaon on 18**
- Getting the best out of Co-ordinate Measuring Machines (CMMs) in **Pune from 16 to 17**
- Seminar on Cleaning of machines components in **Pune on 19**
- Interactive meeting between IMTMA EC and Members of MTMA-Rajkot in **Rajkot on 22**
- Seminar on Maintenance and Trouble Shooting of Presses in **Pune from 22 to 23**
- Seminar on Die & Mould Manufacturing in **Pune on 26 to 27**
- Statistical Process Control (SPC) for engineers in **Bangalore from 17 to 18**
- Basics of Programming & Operation of Machining Centres in **Bangalore from 20 to 24**
- GD&T in **Gurgaon from 24 to 25**
- Failure Mode & Effects Analysis in **Pune from 10 to 11**
- Reducing Cycle Time & Machining Cost on CNC Turning Centres in **Pune from 14 to 15**
- Servo Technology for Industrial Motion Control in **Pune from 28 to 29**
- Interactive meeting and plant visit to Autoliv (India) Private Limited by members of IMTMA Regional Council (South) in **Bangalore on 30**
- PLC Technology in Industrial Automation in **Pune on 31**

JUNE

- System Approach to Precision Grinding Process in **Gurgaon from 3 to 6**
- Hands-on training in Operation of Co-ordinate Measuring Machines (CMMs) in **Bangalore from 10 to 14**
- Workshop on plastic part design and processing in **Bangalore from 13 to 14**
- Workshop on 'Measuring Productivity through OEE' in **Bangalore on 19**
- Seminar on Additive manufacturing Technologies in **Bangalore from 25 to 26**
- Visual management / Visual factory in **Bangalore from 27 to 28**
- Seminar on Heat Treatment Process in Metalworking in **Gurgaon from 14 to 15**
- Design of Experiments in **Pune 7 to 8**
- Applications of LASER in manufacturing in **Pune on 14**
- Idle Time Reduction in Metalworking through Quick changeover techniques in **Pune on 25**

MAY

- Calibration of Dimensional Measuring Instruments & Uncertainty in Measurements in **Bangalore from 9 to 10**



16th Indian Metal-Cutting Machine Tool Exhibition with International Participation

Concurrent Show



15th International Exhibition of Cutting Tools, Tooling Systems, Dies, Moulds, Forming Tools, Machine Accessories, Metrology & CAD / CAM

24 - 30 January 2013 : BIEC, Bangalore



The 16th IMTEX and the 15th Tooltech exhibition echoed a resurgent and competitive India by projecting its growing technological prowess besides recent innovations that have powered the growth of the global machine tools industry. Once again, the exhibition showcased the sustained competencies the Indian manufacturing sector can offer to the global machine tools industry, while attaining the stature of a global platform providing a universal perspective of metalworking manufacturing technology. IMTEX 2013 & Tooltech 2013 had equal participation from International players, a clear indicator of India's growing influence over the global machine tool industry.

IMTEX 2013 - the Indian Metal cutting Machine Tool Exhibition with international participation and Tooltech - the International Exhibition for Cutting Tools, Tooling Systems, Machine Tools Accessories, Metrology & CAD/CAM, was held at Bangalore International Exhibition Centre from 24th to 30th January 2013. The exhibition was

spread over a net area of 30,800 square meters featuring prominent Machine Tools companies from India and overseas. The exhibition hosted a record 980 exhibitors from 26 countries and visitors from 57 countries.

The exhibition had group participation from nine countries - China, Germany, Italy, Korea, Spain, Taiwan, Czech Republic, Singapore and USA. The other participating countries included Australia, Austria, Belgium, Canada, Denmark, France, Hong Kong, Holland, Israel, Japan, Romania, Sweden, Switzerland, Thailand, Turkey and UK.





16th Indian Metal-Cutting Machine Tool Exhibition with International Participation

Concurrent Show



15th International Exhibition of Cutting Tools, Tooling Systems, Dies, Moulds, Forming Tools, Machine Accessories, Metrology & CAD / CAM



The show was inaugurated by Mr. S. Sandilya, President, Society of Indian Automobile Manufacturers along with Mr. Harish Lakshman, Vice President, Automotive Components Manufacturers' Association of India (ACMA). Addressing an august gathering at the inaugural ceremony, Chief Guest, Mr. Sandilya said, "the machine tool industry plays an important and impartial role, catering to the need of both, small and large automakers alike. Forming the backbone of many major sectors of industrial activity in India in the traditional manufacturing context, the machine tool industry has played and will continue to play a key role in enhancing competitiveness and enabling development of quality and excellence in the output of the manufacturing industry."

Despite the downturn in the manufacturing industry, IMTEX 2013 lived up to its strengths

and created the buzz among thousands of potential business visitors visiting the show. The total visitors for the seven day exhibition exceeded 84,000, paving the way for yet another successful edition of the IMTEX show.

The show turned out to be the ideal forum launching many new technologies targeted at the Indian manufacturing industry. The visitors could witness latest innovations in machine tools ranging from small cutting tools to large machineries that can be deployed in cutting technology. The exhibition was the ultimate facilitator of B2B cooperation between manufacturers and users showcasing an exhaustive range of innovations and technological refinements across all product segments in metal-cutting machine tools from India as well as all over the world.

IMTEX 2013 was a trend setter in the Indian manufacturing sector, as the visitors mostly



16th Indian Metal-Cutting Machine Tool Exhibition with International Participation



15th International Exhibition of Cutting Tools, Tooling Systems, Dies, Moulds, Forming Tools, Machine Accessories, Metrology & CAD / CAM

looked for machines catering to new and emerging segments such as Energy, Aerospace and Defence. These exhibits were a great draw among the visitors and enhanced the traction for exhibitors among visitors. Even the small machine tool manufacturers brought in their best technologies and aesthetically enhanced machines in IMTEX 2013 adding considerable value to the exposition.

IMTEX 2013 attracted VIP visitors from various government departments and user industry, from across India and the globe. Praising the show, Mr. M.F. Farooqui, Secretary, Dept. of Heavy Industry, Government of India said; "this is an excellent way to showcase India's capacity in Machine Tool sector. This is a great platform for foreign companies to exhibit their products. The Centre itself is a fantastic facility and shows the farsightedness of IMTMA".

IMTEX 2013 & Tooltech 2013 hosted visiting delegations from Automotive Component Manufacturers Association of India (ACMA), Indian Space Research Centre Satellite Centre (ISRO), Bangalore Chamber of Industry and Commerce, Laghu Udyog Bharti-Karnataka, Indian Railways among others.

IMTEX showcased an array of new and emerging technologies that will continue to help spruce up the Indian manufacturing sector. These innovations, coupled with traditional equipment, offer solutions to all manufacturers who seek increased productivity and lower costs.

IMTEX 2013 & Tooltech 2013 recorded business orders worth INR 800 crores (160 Million USD) and generated potential business enquiries to the tune of INR 14100 crores (2820 Million USD).



ACTIVITIES DURING 2012-2013

MAJOR EVENTS

5TH INTERNATIONAL SEMINAR ON MACHINING TECHNOLOGIES

With the theme "Powering Manufacturing Growth and Competitiveness" the 5th International Seminar on Machining Technologies was held on 23rd January 2013 in conjunction with IMTEX 2013 at BIEC, Bangalore.

Two very interesting keynotes by Dr. Frank Brinken, Starrag Group Holding AG,



Switzerland on 'Continental Drift in Machine Tools' and 'Advances in High Precision Machining' by Dr. Anil Srivastava, Chief Technology Officer, TechsolveInc, USA set the tone for this seminar.

The seminar had three Concurrent sessions on Machine Tools & Machining, Tools & Tooling, Metrology & Controls, CAD/CAM where several national and international speakers made presentations on the evolving trends in the metal working industry.

ACTIVITIES DURING 2012-2013

PRODUCTIVITY SUMMIT, IMTMA - SIEMENS PRODUCTIVITY CHAMPIONSHIP AWARDS AND PRODUCTIVITY BUZZ 2012

The 6th edition of Productivity Summit was organized on 7 - 8 December 2012 at Bangalore. The event provided a great opportunity for sharing and learning with a concurrent event Productivity Buzz a unique platform where solution providers and solution seekers could network with experts, to exchange ideas and new concepts to resolve productivity challenges in metal working.

More than 50 companies in the areas of Machining, Manufacturing automation, Welding and IT enabled solutions, amongst others participated at Productivity Buzz.



The summit had a fine blend of keynote presentations by industry leaders and case study presentations on some of the best productivity improvement projects in metal working.

The IMTMA - Siemens Productivity Championship Awards 2012 were conferred on Bajaj Auto Ltd, Maruti Suzuki, TVS Motor Co, L&T Plastics Machinery, Badve Engineering Ltd, Shriram Pistons & Rings and Laxmi Oil Pumps.

The event witnessed active participation by over 650 industry professionals.

ACTIVITIES DURING 2012-2013

TRAINING PROGRAMMES

FINISHING SCHOOL IN PRODUCTION ENGINEERING

02 - 28 July 2012, Bangalore
03 Sep - 01 Oct 2012, Bangalore
19 Nov - 15 Dec 2012, Bangalore
15 April - 11 May 2013, Bangalore
17 June - 13 July 2013, Bangalore

To make the engineering graduates industry ready, IMTMA conducted the course on Finishing School in Production Engineering in Bangalore. The programme focused on all the practical aspects of modern machining - from reading an Engineering drawing through measurements and quality control - including machining processes,



CNC programming & operation, process planning, tool materials, selection of cutting tools and optimizing machining parameters, limits, fits and tolerances, GD&T and selection of measuring instruments. In addition to the technical inputs, emphasis was given to develop soft skills as necessary for manufacturing industries.

METAL CUTTING CL2 PROGRAMME (FIRST PHASE)

07 Jan - 12 Jan 2013, Bangalore

A customized programme to understand CNC Turning centers which includes



engineering materials, basic manufacturing process, over view of types of CNC machines, CNC programming for Turning centers using canned cycles, optimizing parameter for minimum cycle time, ISO designation / selection of turning tools, CAM programming for turning centers, etc., was organized for 6 days from 7th -12th Jan 2013 in Bangalore for engineers from TVS motors Ltd., Hosur

PLC TECHNOLOGY IN INDUSTRIAL AUTOMATION

11 Jan 2013, Bangalore

The PLC is a Powerful Automation tool and its role is of paramount importance as the production process goes through a fixed repetitive sequence of operations that involve logical steps and decisions. Thus PLCs offer a system with flexibility that is suited to withstand harsh industrial environment, reduced machine down-time and also easily maintainable.

Taking note of the role played by high quality and reliable Control systems in efficient manufacturing; a seminar was organized on this topic, on 11 January 2013 in Bangalore.

ACTIVITIES DURING 2012-2013

SERVO TECHNOLOGY FOR INDUSTRIAL MOTION CONTROL

12 Jan 2013, Bangalore

28 - 29 May 2013, Pune



Keeping in view the importance of Servo Motor Technology and its use in various industrial applications; a one day seminar was organized on this topic, on 12th January 2013 in Bangalore and a Two day seminar in Pune 28th to 29th May 2013.

CALIBRATION OF CNC MACHINES

25 April 2012, Bangalore

16 Jan 2013, Bangalore

Machine Tool Calibration is rapidly becoming an essential part of the manufacturing process with customers demanding higher accuracy from machine tools for handling

parts with tighter tolerances. The ability of a machine tool to perform at its optimum level is largely based on the geometrical and positioning accuracies of the machine slides and guide ways. Machine tools are subject to positioning errors which might increase over a period of time due to natural wear and tear or failing parts or worn out moving parts.

Hence an early detection enables to schedule preventive maintenance and



avoid unexpected downtime, especially during critical production runs. Thus calibration of machine tools becomes essential part of predictive maintenance programme in companies to achieve "Doing it right the first time".

Recognizing this need, two workshops were organized on 25th April 2012 & 16th January 2013 in Bangalore.

SPINDLE MAINTENANCE FOR METAL CUTTING & INDUSTRIAL MACHINERY

18 - 19 Oct 2012, Gurgaon

13 - 14 Feb 2013, Bangalore

To understand and learn various Bearing types & their application in metal working and industrial machinery, Bearing lubrication systems, Spindle failure &



reconditioning, Tools, tackles & assembly technique, Testing of assembled spindle units, Bearing failure, Bearing

ACTIVITIES DURING 2012-2013

nomenclature & equivalent selection, Spindle Bearing preloading, Preventive maintenance of spindles, etc. Two training programmes on "Spindle Maintenance for



Metal Cutting & Industrial Machinery" were organized on 18 – 19 October 2012 and 13 - 14 February 2013 at Bangalore.

DESIGN & ANALYSIS OF STRUCTURES FOR MACHINE TOOLS & INDUSTRIAL MACHINES

15 - 16 Feb 2013, Bangalore



The structure design of the machine has a decisive influence on the three major parameters that define the machine Accuracy, Productivity, and Reliability. Traditional machine structures are designed with maximum Factor of Safety, leads to high cost and lead time. Finite Element Analysis is the only appropriate process for better structural optimization. Taking note of the importance of a sound structural design in the performance of

machine tools and industrial machinery; a two days workshop was organized on 15th and 16th February 2013 at Bangalore.

IMPROVING PROCESS CAPABILITY

11 - 12 Jan 2013, Pune

Due to increasing complexities in manufacturing technology, companies are employing highly capable manufacturing processes, to achieve greater cost competitiveness. While there has been an exponential growth in India's manufacturing industry it is imperative for companies to maintain consistently high quality standards in order to sustain growth. Many leading companies, in their quest for achieving 'Zero Defect', are taking several proactive measures in



controlling and maintaining their processes. SPC techniques and QC Tools have been used by Quality / Process engineers in the Industry for many years, for calculating process capability. Yet there are few myths which need to be discussed and clarified in every practicing engineer's mind.

Keeping this in view, a two day workshop on Improving Process capability was organized on 11 - 12 January 2013 at Pune.

ACTIVITIES DURING 2012-2013

CHALLENGES AND SOLUTIONS IN THREAD CUTTING

15 Feb 2013, Pune



One of the most important but less understood machining processes is "Threads and Thread Machining". Most components produced today, whether in the Auto Sector, Process control, or Equipment manufacturing contain at least one form of thread. Hence thorough understanding of the basics and usage of Threads and Thread Cutting tools is of primary importance, especially so with internal threads, where the operation is constrained. In order to address various aspects on challenges and solutions in thread cutting operations, a one day seminar on "Challenges and Solutions in Thread Cutting Operations" was organized from 15 February 2013, in Pune.

ROLL FORMING TECHNOLOGY AND ITS APPLICATIONS

22 Feb 2013, Bangalore



In order to address appropriate methods to develop a roll formed product, right from selection of proper machine until production practices, a one day Seminar on "Roll Forming Technology and its Applications" was organized on 22 February 2013 at Bangalore.

EFFECTIVE MAINTENANCE OF CNC MACHINES FOR PRODUCTIVITY IMPROVEMENT

13 Sept 2012, Gurgaon

25 - 26 Feb 2013, Bangalore

25 - 27 Feb 2013, Pune

Effective usage of CNC machines is the key to achieve anticipated results & with rapid changes in hi-precision manufacturing process, there is a need to continuously update the knowledge and skills of the 'Man-behind-the-Machine', so as to precisely use them for maximum benefit. In



order to address various aspects on 'Why' & 'How' of Preventive & Break-down maintenance, Three workshops on "Effective Maintenance of CNC Machines for Productivity Improvement" were organized on 13 September 2012, Gurgaon, 25 - 27 February 2013 in Pune and 25 - 26 February 2013 in Bangalore.

GEOMETRIC DIMENSIONING AND TOLERANCING (GD&T)

26 - 27 Feb 2013, Bangalore

24 - 25 May 2013, New Delhi

To understand the system of GD&T and the methods of applying it in real time designs. Two training programme on 'Geometric Dimensioning and Tolerancing (GD&T) in Design through Manufacturing' were



organized on 26 - 27 February 2013 at Bangalore and 24 - 25 May 2013 in New Delhi.

COST EFFECTIVE AUTOMATION FOR METAL WORKING

5 - 6 March 2013, Bangalore

A two day seminar on "Cost Effective Automation for Metal Working" was organized on 5 - 6 March 2013 in Bangalore to focus on various elements of automation and the economic benefits derived through applying automation in the manufacturing process.

HEAT TREATMENT PROCESS IN METAL WORKING

7 - 8 March 2012, Bangalore

6 - 7 Sept 2012, New Delhi

To get an in-depth understanding of Basic Heat-treatment processes, Advanced techniques (Vacuum hardening,



Toughriding), Understanding of case depth determination (Carburising, Nitriding & Induction hardening particularly in case of components like gear, Shafts Plane & spline). Two seminars on Heat Treatment Process in Metal Working were organized on 6 - 7 September 2012 in New Delhi and 7 - 8 March 2013 in Bangalore.

MEASURING PRODUCTIVITY THROUGH OEE

7 - 8 March 2013, New Delhi

19 June 2013, Bangalore



Overall Equipment Effectiveness (OEE) is a key performance indicator, which measures out of available time, how much time is efficiently used in producing saleable goods. OEE is a performance metric compiled from data on machine

ACTIVITIES DURING 2012-2013

availability, performance efficiency and rate of quality that is collected either manually or automatically. Taking note of



the importance of understanding productivity metrics using OEE and losses in production, and the concept of OEE calculation and software solutions for capturing OEE on a regular basis; a Two days seminar on 7 - 8 March 2013 in Gurgaon and a one day workshop on 19th June 2013 at Bangalore were organized.

DESIGN OF GAUGES **19 April 2013, Bangalore**



To get a detailed understanding in various Types of gauges, Principles of gauge design, Design of plug and ring gauges, design of functional gauges, Selection of materials and manufacturing of gauges a one day workshop on "Design of Gauges" was organized on 19 April 2013 in Bangalore.

DESIGN OF WORK HOLDING AND FIXTURING

17 - 18 April 2013, Bangalore

Design of work-holding and fixturing is a key to effective utilization of machine tools. Basics of fixture design, if not implemented correctly results in poor productivity & quality problems. Set-up time and cycle time reduction, increased accuracy on



components, de-skilling the job setting operation are the obvious advantages of a good fixture. Keeping this in view a 2 day workshop was organized on "Design of Work holding and Fixturing" on 17 - 18 April 2013 in Bangalore.

LATEST TRENDS IN ELECTRICAL DISCHARGE MACHINING (EDM) **23 - 24 April 2013, Bangalore**

Taking note of the importance of the EDM process and to impart in-depth knowledge about the latest trends in EDM processes. Spark and Wire types including electrode materials, electrode planning, and maintenance of EDM machines; a two day seminar on this topic was organized on 23rd and 24th April 2013 in Bangalore.

ACTIVITIES DURING 2012-2013

HOW TO IMPROVE THE ACCURACY OF MACHINE TOOLS

25 April 2013, Bangalore



To learn about the role of direct and indirect measuring systems as well as Ball screws, LM Guides, etc., in accuracy and repeatability of CNC Machines. The presentations were supported by real time case studies from various machining applications and the experts presenting technical seminar were also shared their vast experience in the field. A one day seminar on "How to improve the accuracy of Machine tools" was organized on 25 April 2013 in Bangalore.

MAINTENANCE OF HYDRAULIC AND PNEUMATIC SYSTEMS

8 - 10 April 2013, Bangalore



To provided an in depth understanding of Elements of Hydraulics & Pneumatics circuits, Preventive Maintenance Procedures and Safe Trouble Shooting Practices. Hands-on practice and exercises were carried out using Hydraulics and Pneumatics trainer kits. A 3 day workshop on Maintenance of Industrial Hydraulics and Pneumatics systems was organized on 8 - 10 April 2013 in Bangalore.

REDUCING CYCLE TIME AND MACHINING COST ON CNC MACHINING CENTRES

13 - 14 April 2012, Gurgaon
26 - 27 April 2013, Bangalore
14 - 15 May 2013, Pune



Reducing cycle time requires eliminating or reducing non-value-added activity. Cycle times are often impacted due to operator errors, cutting parameters, improper work holding, loading and unloading, improper usage of tools / measuring devices and other components needed during the production run.

ACTIVITIES DURING 2012-2013

Taking note of the importance of this topic in order to improving the overall productivity of CNC machine shops; Three workshops were organized on this topic, on 13 - 14 April 2012 in Gurgaon, 26th and 27th April 2013 in Bangalore and 14 - 15 May 2013 in Pune.

DIE & MOULD MANUFACTURING

26 - 27 April 2012, Coimbatore

26 - 27 Feb 2013, Pune



To address various aspects of Die & Mould Manufacturing, Two Seminars on Die & Mould Manufacturing were organized on 26 - 27 April 2012, Coimbatore and later from 26 - 27 April, 2013 in Pune.

EFFECTIVE MAINTENANCE AND TROUBLE SHOOTING OF PRESSES

22 - 23 April 2013, Pune



To provide an in depth knowledge on various applications of Maintenance of presses, a two days seminar on "Effective maintenance and trouble shooting of presses" was organized from 22nd - 23rd April 2013 in Pune.

CLEANING OF MACHINED COMPONENTS

15 May 2012, Bangalore

19 April 2013, Pune

Machine parts cleaning are often the most ignored area in the production lines. Cleaning is commonly considered as non value adding process; without evaluating the consequences of ignoring component cleaning. A successful cleaning process requires careful selection of both the cleaning chemistry and equipment.



Cleaning process is influenced by various factors viz. manufacturing process, cleaning media, surrounding conditions, work piece quality, parts handling, machine technology, testing process (Millipore test), etc

In order to address various aspects on Cleaning of Machined Components, The association organized a one day seminar on "Cleaning of Machined Components" from 15 May 2012 in Bangalore and later on 19 April 2013, in Pune.

ACTIVITIES DURING 2012-2013

NEW MANUFACTURING STRATEGIES USING MULTI TASKING & 5 AXIS CNC MACHINES

18 April 2013, Gurgaon

While India is emerging as an important hub for aerospace manufacturing, adopting new manufacturing concepts with Multi tasking and 5 axis machines, has become very important.

Keeping this in view, a one day seminar was organized on "New Manufacturing Strategies using Multitasking and 5 Axis CNC Machines" on 18 April 2013 in Gurgaon.

MANUFACTURING AUTOMATION USING ROBOTS

12 April 2013, Gurgaon



Though the robotic revolution in India is driven by the automotive industry, other applications like – machine tending, foundry, medical components processing, etc., are also growing. Keeping this in view, the association organized a one day seminar on "Manufacturing Automation, using Robots" on 12 April 2013 in Gurgaon.

CALIBRATION OF DIMENSIONAL MEASURING INSTRUMENTS & EVALUATION OF MEASUREMENT UNCERTAINTIES

09 - 10 May 2013, Bangalore



The use of good practice such as traceable calibration, careful calculation, good record keeping, and checking can reduce measurement uncertainties.

Keeping this in view, a 2 day workshop on "Calibration of Dimensional Measuring Instruments & Evaluation of Uncertainties" was organized on 9 - 10 May in Bangalore.

BASICS OF PROGRAMMING AND OPERATION OF CNC MACHINING CENTRES

20 - 24 May 2013, Bangalore



ACTIVITIES DURING 2012-2013

To address the programming and operation of CNC Machining centres in detail including finer aspects like control of dimensions, surface finish and optimization of machining parameters. A 5 day workshop on "Programming and Operation of CNC Machining Centres" was organized from 20 - 24 May 2013 in Bangalore.

STATISTICAL PROCESS CONTROL AND BASIC 7 QC TOOLS

17 - 18 May 2013, Bangalore



Statistical Process Control (SPC) is a technique to enable measurement and analysis of the variations at the workplace and try and control the same at optimum levels. While SPC techniques involve extensive use of various types of control charts, an understanding of all the basic seven quality tools helps in a better understanding and implementation of SPC. Keeping this in view, a two day Workshop on "Statistical Process Control and Basic 7 QC Tools" was organized from 17 - 18 May 2013 in Bangalore.

REDUCING CYCLE TIME & MACHINING COST ON CNC TURNING CENTRES

14 - 15 May 2013, Pune



Reducing cycle time requires eliminating or reducing non-value-adding activity. Cycle times are often impacted due to operator errors, cutting parameters, improper work holding, loading & unloading, improper usage of tools & measuring devices and other components needed during the production run.

Recognizing this need, a two day's "Training Programme on Reducing Cycle Time & Machining Cost on CNC Turning Centres" was organized on 14 - 15 May, 2013 in Pune.

VISUAL FACTORY / VISUAL MANAGEMENT: PAVING WAY FOR LEAN, TQM AND TPM IMPLEMENTATION

27 - 28 June 2013, Bangalore

Taking note of the need of implementing Visual Management practices in manufacturing companies for proper 'workplace organization' and for sustaining visual management on a daily basis; Indian

ACTIVITIES DURING 2012-2013



Machine Tool Manufacturers' Association (IMTMA) had organized a two day workshop on this topic, on 27th and 28th June 2013 in Bangalore.

ADDITIVE MANUFACTURING TECHNOLOGIES

25 - 26 Jun 2013, Bangalore

Today Additive Manufacturing is a promising manufacturing alternative that accelerates production and reduces costs while creating new possibilities and new business models. To provide an in depth understanding of Additive manufacturing types, applications, advantages and limitations. A two days seminar on "Additive manufacturing Technologies" was organized on 25 - 26 June 2013 in Bangalore.



CO-ORDINATE MEASURING MACHINES (CMMS)

23 - 24 August 2012, Gurgaon

10 - 14 June 2013, Bangalore



The Association organized a comprehensive course with Hands-on training in Co-ordinate Measuring Machines from 10 - 14 June 2013 at IMTMA Technology Centre, Bangalore. This course covered in detail about all the aspects a practicing CMM engineer requires to know for effective use of CMM for reliable measurement results.

PLASTIC PART DESIGN AND PROCESSING

13 - 14 June 2013, Bangalore

Injection molded plastic parts offer unbeatable combination of Light Weight Construction, Flexibility, Toughness, Chemical Resistance, Long-term Performance and Cost Effectiveness. World Class Injection Moldings are a result of Knowledge of Plastics, Excellent Part Design, Robust Mold Design, Methodical Mold Manufacture, Optimum Process Parameters and Reliable Molding Machine. Keeping this in view, a 2 day workshop on Plastic Part Design and Processing was organized on 13 - 14 June 2013 in Bangalore.

DESIGN OF EXPERIMENTS (DOE) IN SOLVING REAL LIFE PROBLEMS

7 - 8 June 2013, Pune



DoE presents techniques for finding out those inputs which have maximum influence on the output through a minimum set of experiments. DoE saves considerable time & efforts in trouble shooting, identifying quality inputs and in rectifying the total system.

Keeping this in view a 2 day workshop on "Design of Experiments (DoE) in Solving Real Life Problems" was organized on 7 - 8 June 2013 in Pune.

LASERS IN METAL WORKING

14 June 2013, Pune

Laser technology has introduced significant advantages as well as new possibilities in cutting, joining, milling and drilling. The latest trends in Laser-based manufacturing processes include deep penetration welding, surface modification (cladding, hardening, alloying and cleaning), laser milling and specialized laser cutting, including thick section cutting and 3D profile cutting using multi- axis machines. . Co2 and Nd-Yag lasers are the common laser sources, the power source is varied



based on application. Fibre lasers are relatively new and are much more energy efficient.

Keeping this in view a seminar on Lasers in metal working was organized on 14 June 2013 in Pune.



IDLE TIME REDUCTION IN METAL CUTTING THROUGH QUICK CHANGEOVER TECHNIQUES

25 June 2013, Pune



(IMTMA) organized a day long seminar on Idle Time Reduction in Metal Cutting through Quick Changeover Techniques on 25 June 2013 at Pune.

THE SYSTEM APPROACH TO PRECISION MANUFACTURING GRINDING PROCESS

3 - 6 June 2013, Ghaziabad

A Workshop on "The System Approach to Precision Manufacturing" - Grinding Process was held from 3 - 6 June, Ghaziabad.



This was offered by the association as part of a series of initiatives to train the manufacturing professionals at all levels – Low, Mid and high levels.

DESIGN & ANALYSIS OF MACHINE TOOL SPINDLE

30 - 31 July 2013, Bangalore

Design of spindle is very important and a critical activity of machine tool design process. A two day training programme was initiated on "Design & Analysis of Machine Tool Spindle" on 30 - 31 July 2013 at Bangalore.

ACTIVITIES DURING 2012-2013

SPECIAL EVENTS

INTERACTIVE MEETING AND PLANT VISIT TO GNA DURAPART LTD. HOSHIARPUR

As part of the regional level initiative's IMTMA's Regional Council North (RCN) organized an interactive meeting plant visit to the premises of GNA Dura parts Limited, Hoshiarpur on 19 March 2013. GNA Duraparts Limited made an exhaustive presentation about its organization, its multifarious manufacturing facilities and their future objectives to the members of the RCN. This was followed by a short visit to the factory facilities.



INTERACTIVE MEETING AND PLANT VISIT TO AUTOLIV (INDIA) PVT. LTD.

The meeting of the IMTMA Regional Council (South) was conducted on 30th May 2013, coinciding with a plant visit to Autoliv (India) Pvt. Ltd. Two of the major learning's during the visit were the use of Autonomous Manufacturing centers to improve productivity from individual processes thereby improving overall productivity; and the efficient use of Japanese Management Techniques to ensure 'defect-free' production in mass production lines; which has been thoroughly encapsulated within the Autoliv Production System. This coupled with the



FIFO system (First in First Out) followed in their stores along with the Delivery Milk-Run Systems implemented for locally available parts; Autoliv India stood as a 'sterling' example on how companies can strive for achieving operational excellence on a day-to-day basis.

IMTMA Regional Council members were shown around the facilities of the company and were encouraged to partner in the progress.

INTERACTIVE MEETING OF IMTMA REGIONAL COUNCIL (WEST)

The Meeting of IMTMA Regional Council (West) was held on 1st March 2013 in Pune. President and other office bearers of IMTMA were present at the meeting and interacted



ACTIVITIES DURING 2012-2013

with members as well as non members in Western region. A presentation on Machine Tool Park project & Vision deployment was made by IMTMA Secretariat.

INTERNATIONAL MANUFACTURING TECHNOLOGY SHOW 2012 (IMTS)

International Manufacturing Technology Show 2012 (IMTS) was held at Chicago, USA



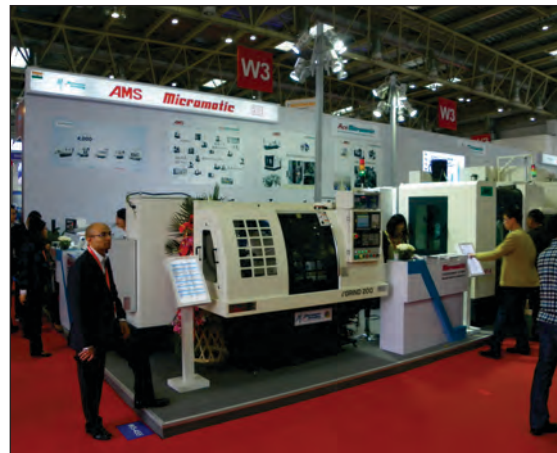
from 10-15 September 2012. The show was attended by over 100,000 visitors.

The exhibition had a remarkable display of new emerging technologies on Additive manufacturing, collaborative manufacturing, multi-spindle machines and multi-tasking machines and so on.

IMTMA participated with an information booth at this show to promote the association's activities.

THE 13TH CHINA INTERNATIONAL MACHINE TOOL SHOW 2013, CHINA

IMTMA organized a group participation of 6 Indian companies ; Ace Designers, Ace Manufacturing, Micromatic Grinding, Pragati Automation, Fenwick & Ravi & Forbes at the India Pavilion in the 13th China International Machine Tool Show 2013 (CIMT), Beijing, China from 22 - 27 April 2013. About 1500 exhibitors participated in CIMT and the show attracted over 2 lakh visitors.



SHOWCASING 'MADE IN INDIA' BRAND @ METALLOOBRABOTKA, 27-31 MAY 2013, MOSCOW, RUSSIA



Russia is a large market for machine tools with an estimated consumption of \$ 1,317 million. The imports contribute significantly to its key industry sectors such as Energy, Automobile, Defence and Aerospace.

Held annually, METALLOOBRABOTKA is one of the specialised exhibitions in the metal working sector in Russia. As an initiative of Export Development Cell, IMTMA had a group participation of six Indian companies; Accurate, Ace Micromatic Group, Bharat Fritz Werner, ISGEC, LMW and UCAM in METALLOOBRABOTKA exhibition from 27 - 31 May 2013 in Moscow, Russia. IMTMA also participated with an information booth at the show that witnessed over 25,000 visitors.

5th IMTMA - BFW LIFETIME CONTRIBUTION AWARD IN MEMORY OF H. R. GUPTA



The fifth 'IMTMA - BFW Lifetime Contribution Award in memory of H.R. Gupta was bestowed on Mr. S. N. Mishra, Vice Chairman, Bharat Fritz Werner Ltd. and Past President, IMTMA. The Award was conferred by Mr. S. Sandilya, President, Society of Indian Automobile Manufacturers (SIAM) at the inauguration ceremony of IMTEX 2013 and Tooltech 2013. Mr. Mishra thanked the association and all those with whom he worked throughout his illustrious career of 46 years in the machine tool industry. Speaking on the occasion he said, "This award has made me very humble. I am very grateful to everybody."

4th IMTMA - PREMIER OUTSTANDING ENTREPRENEUR AWARD IN MEMORY OF VINOD DOSHI



The Fourth 'IMTMA - Vinod Doshi Outstanding Entrepreneur Award was bestowed on Mr. Parakramsinh Jadeja, CEO, Jyoti CNC Automation Ltd. The Award was conferred by Mr. S. Sandilya, President, SIAM at the inauguration ceremony of IMTEX 2013 and Tooltech 2013.

MODERN MANUFACTURING INDIA - THE OFFICIAL MAGAZINE OF IMTMA



Taking the technology road ahead, IMTMA launched its official magazine 'Modern Manufacturing India' (MMI), the voice of the Indian Machine Tool Industry at the inauguration of IMTEX 2013. MMI is an effort from IMTMA for the users of technology, enabling them to achieve success in manufacturing.

5th JAGRUTI & UDAAN: IMTMA YOUTH PROGRAMME

To familiarize engineering students with the machine tool industry and the technological development in this industry segment, IMTMA organized the 5th "JAGRUTI - IMTMA Youth Programme", with support from "UDAAN" members. This unique initiative was organised during IMTEX 2013 and Tooltech 2013 on 26 and 27 January 2013 at BIEC.

The programme was attended by 52 mechanical engineering students representing 32 engineering institutions,

ACTIVITIES DURING 2012-2013

from all across India. It comprised a comprehensive guided tour of IMTEX 2013 and Tooltech 2010 as also a unique facilitation of IMTMA's state-of-the-art 'Technology Centre' and 'Productivity Institute'.

ACADEMIA - INDUSTRY PAVILION AT IMTEX 2013

IMTEX 2013 provided an opportunity for Indian academic and R&D institutions to showcase their capabilities and R&D activities related to machine tools, manufacturing & engineering fields. 16 institutions from all over India showcased an exhaustive range of innovations and technological refinements in the complete segment of metal-cutting machine tools.

VISION 2020: 13TH CONCLAVE FOR CEOs & UDAAN MEMBERS OF THE INDIAN MACHINE TOOL INDUSTRY

22 - 25 November 2012, Kolkata

The 13th edition of VISION 2020 Conclave for CEOs and members of UDAAN, an initiative of IMTMA, was organised from 22 - 25 November 2012 at Vedic Village,



Advanced Machine Tool Testing Facility (AMTTF)

(A Joint project of Govt. of India and Industry)

Advanced Machine Tool Testing Facility has been operational since August 2011. This is a dedicated facility equipped with the latest equipment and facilities to test machine tools, accessories, parts and subsystems to establish their performance and reliability against international standards. Infrastructure augmentation has been completed at AMTTF and testing assignments have also been taken up.

Kolkata with the theme "Leap Forward to a New Growth Orbit".

VISION 2020 Conclave attracted a record participation of 41 members from 21 companies and was a confluence of minds, both young and experienced, outlining a strategic roadmap for the Indian machine tool industry.

The interactions at the Conclave helped the industry move a step closer towards implementing 'VISION 2020' strategy.

'INTERACTIVE MEETING' OF IMTMA OFFICE BEARERS & MEMBERS OF MTMA-RAJKOT

22 April 2013, Rajkot

As part of IMTMA's Membership Engagement initiative, IMTMA office bearers had interactions with members of MTMA Rajkot on 22nd April 2013 in Rajkot.

Attended by office-bearers of IMTMA as well as majority of members from MTMA Rajkot, the 'interactive meeting' discussed about a wide range of issues concerning the machine tool industry. The 'interactive meeting' was mutually beneficial for IMTMA and MTMA Rajkot members. It helped them gain a broader perspective about the current status, imminent challenges as well as the future potential for the machine tool industry both in the Indian and global markets.





ACTIVITIES OF **BIEC** Bangalore International Exhibition Centre



The Bangalore International Exhibition Centre (BIEC) has been considered as one of the modern exhibition facilities for industrial exhibitions in the country .

In 2012 - 2013, apart from IMTMA's own exhibitions - IMTEX 2013 and Tooltech 2013, BIEC hosted more than 25 shows. BIEC is

playing a supportive role to the engineering and manufacturing industry sector in the country.

BIEC was also the venue for the Government of Karnataka's Prestigious Event 'Global Investors Meet'.

79th Annual UFI Congress



The 79th Annual UFI Congress was held from November 6 - 9, 2012, at "Abu Dhabi National Exhibition Centre" with a record number of over 450 attendees from 55 countries. The theme for this UFI Congress was 'Where is the growth coming from?.'

BIEC marked a strong presence and seized the opportunity to promote the brand through extensive networking in the international forum.

IEIA 3rd Open Seminar

The IEIA 3rd open seminar was organized in Delhi on 25th and 26th April 2013 with an overall participation of 200 delegates representing the exhibition industry from India and abroad. BIEC participated in the event.



WORLD MACHINE TOOL SCENARIO 2012

Dollar-volume production of machine tools around the world during 2012 dipped by 1%. Output by the 28 principal producing countries was \$93.2-billion. That represents a decline from 2011's \$94.3-billion, following previous increases of 35% and 25%. So the hole caused by the deep worldwide recession in 2009 has been filled. Most major producers had relatively small percentage changes in their output. Among the larger gainers were Germany with a 10% increase; the United States with a 7% improvement; Austria, +15%; and the Czech Republic, which increased one-quarter over 2011. Other countries declined in production, including Brazil, Belgium, and the United Kingdom.

China saw a slight dip in output in 2012 but remains by far the largest maker of machine tools. Japan ranks second, with no change in production from the year before, and it is followed by Germany. The output from those top three account for 64% of 2012's total world shipments measured in this survey. The United States, still seventh in output, shipped almost \$5-billion. It continues to be a large importer of factory equipment with a whopping 30% gain in 2012, and so total consumption of machine tools increased 19% to \$8.7-billion.

The largest-consuming country in the world continues to be China, which installed \$38.5-billion worth of machine tools, more than one-third of it in imports. On a per-capita basis, consumers Switzerland, South Korea, and Taiwan top the list.

Results of the World Machine Tool Output and Consumption survey 2013 conducted by Gardner Publication is ready and they have shared the results of the survey with all the respondents. Based on the survey report India's position in the world during 2012 is 13th in Production, 6th in Consumption, & 4th in Imports. Figures regarding Production, Import, Export & Consumption are attached. Brief analysis of the data compiled by them is as follows:

PRODUCTION OF MACHINE TOOLS

Global Machine Tool estimated production amounted to USD 93.2 Billion during 2012 a slight decline of 1% from revised USD 94.2 Billion during 2011. India Production now occupies 13th position in the world compared to 12th position during 2011. Top five countries are China (30%), Japan (20%), Germany (15%), Korea (6%), & Italy (6%). Top 3 countries accounts for 64% of the global output.

CONSUMPTION OF MACHINE TOOLS

Global consumption of machine tools amounted USD 85.4 Billion during 2012 had decreased by 3% from USD 87.6 Billion during 2011. China which occupies top position accounts for 41% of the world's consumption. Top 5 consuming countries are China (41%), Japan (8%), Germany (7%), USA (9%) & Korea (5%) India with about 3% global share occupies 6th position in the world compared to 7th position during 2011.



GLOBAL MACHINE TOOL PRODUCTION

Country		2011	2012	Change in US Dollars
Value in US\$ Million				
1	China, peoples Republic	28,270.00	27,540.00	-3%
2	Japan	18,326.60	18,252.90	0%
3	Germany	13,373.70	13,622.90	2%
4	Korea, Republic of	5,754.00	5,705.00	-1%
5	Italy	5,912.60	5,667.70	-4%
6	Taiwan	5,160.00	5,430.00	5%
7	United States	4,676.70	4,983.20	7%
8	Switzerland	3,607.00	3,199.30	-11%
9	Spain	1,072.60	1,060.30	-1%
10	Austria	971.1	1,032.00	6%
11	France	855.6	805.8	-6%
12	Czech Republic	646	728.4	13%
13	India	880.0	720.7	-18%
14	Canada	639.3	693	8%
15	United Kingdom	731.5	649.8	-11%
16	Turkey	659.4	649	-2%
17	Brazil	891.3	643.2	-28%
18	Netherlands	407.6	402.3	-1%
19	Belgium	357.5	296.9	-17%
20	Russia	263	263	0%
21	Sweden	218.4	201.8	-8%
22	Finland	196.2	185.1	-6%
23	Australia	150	155	3%
24	Mexico	122.4	122.4	0%
25	Denmark	76.5	70	-8%
26	Portugal	50.1	46.3	-8%
27	Romania	42.5	42.5	0%
28	Argentina	32.4	36.4	12%
Total		94,344.00	93,204.90	-1%

Source: Gardner Publications, Inc. : 2013 - Report

GLOBAL MACHINE TOOL CONSUMPTION

Country		2011	2012	Change in US Dollars
Value in US\$ Million				
1	China, Peoples Republic	39,090.00	38,510.00	-1%
2	United States	7,321.30	8,722.50	19%
3	Japan	7,417.70	7,462.80	1%
4	Germany	6,901.80	6,400.20	-7%
5	Korea, Rep. of	5,244.00	4,646.00	-11%
6	India	2,556.40	2,286.10	-11%
7	Italy	2,762.90	2,172.00	-21%
8	Brazil	2,385.70	1,867.20	-22%
9	Taiwan	1,989.00	1,844.00	-7%
10	Mexico	1,360.90	1,360.90	0%
11	Turkey	1,341.10	1,344.30	0%
12	Russia	1,317.00	1,317.00	0%
13	Canada	1,143.60	1,255.60	10%
14	France	1,309.10	1,118.10	-15%
15	Switzerland	1,274.50	1,034.40	-19%
16	United Kingdom	745.8	816.2	9%
17	Austria	620.5	586	-6%
18	Spain	427.1	392	-8%
19	Czech Republic	403.3	348.5	-14%
20	Sweden	372.8	344.4	-8%
21	Netherlands	346.4	343.1	-1%
22	Argentina	210.1	261.3	24%
23	Belgium	292.2	246.8	-16%
24	Romania	243	243	0%
25	Australia	213	210	-1%
26	Finland	150.3	140.1	-7%
27	Portugal	118.3	137.5	16%
28	Denmark	43.1	39.8	-8%
Total		87,600.90	85,449.80	-3%

Source: Gardner Publications, Inc. : 2013 - Report



TRENDS IN INDIAN MACHINE TOOL INDUSTRY

ANNUAL REPORT 2012-2013

INDIA'S POSITION GLOBALLY DURING 2012

	Value in US\$ Million	Rank
Production	721	13
Consumption	2286	6

PRODUCTION OF METAL WORKING MACHINE TOOLS

Machine Tool Segments	Years 2010-11		Years 2011-12		Years 2012-13	
	Qty	Value in Rs. Cr	Qty	Value in Rs. Cr	Qty	Value in Rs. Cr
Metal Forming	1841	463	3021	504	1383	565
CNC	1103	297	1733	332	820	376
Conventional	738	166	1288	172	563	189
Metal Cutting	15329	3161	16137	3795	12528	3320
CNC	12212	2704	13265	3249	9761	2811
Conventional	3117	458	2872	547	2767	509
Total Metal Working of which	17170	3624	19158	4299	13911	3885
CNC	13315	3000	14998	3581	10580	3187
Conventional	3855	623	4160	718	3330	698

Note: Production turnover adjusted to reflect the data of the companies outside IMTMA database

EXPORT OF METAL WORKING MACHINE TOOLS						
Machine Tool Segments	Years 2010-11		Years 2011-12		Years 2012-13	
	Qty	Value in Rs. Cr	Qty	Value in Rs. Cr	Qty	Value in Rs. Cr
Metal Forming	68	9	54	23	56	102
CNC	47	6	27	16	34	70
Conventional	21	3	27	7	22	32
Metal Cutting	413	126	529	157	449	112
CNC	312	96	425	128	416	104
Conventional	101	31	104	29	33	8
Total Metal Working of which	481	136	583	180	505	214
CNC	359	102	452	144	450	174
Conventional	122	34	131	36	55	40

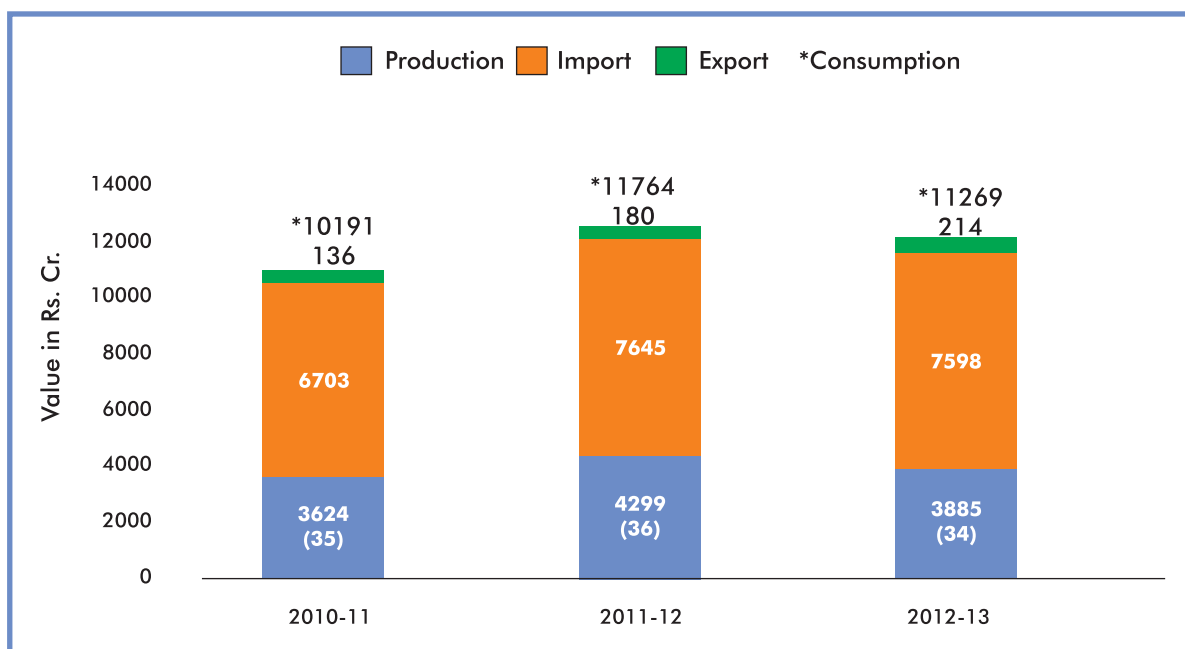
Note: Export turnover adjusted to reflect the data of the companies outside IMTMA database



TRENDS IN INDIAN MACHINE TOOL INDUSTRY

ANNUAL REPORT 2012-2013

Indian Machine Tool Industry 2010-11 to 2012-13



Note: Value in the bracket indicate share in Consumption.

Exchange Rate used 2010-11= Rs.47. 2011-12= Rs.45, 2012-13=Rs.55

NEW PRODUCTS DEVELOPED BY MEMBERS IN 2012-2013

ACE DESIGNERS LIMITED

1. Large Horizontal CNC Lathe [Model LT-40M 2000]
2. Centre Drive CNC Lathe [Model CDL-32]
3. Vertical TurnMill Centre [Model VTL-40 M]
4. Twin spindle CNC Chucker with Gantry [Model LCXT-12G]
5. Vertical CNC Lathe [Model VTL-25L]
6. Sliding Head Automat [Model SHA-20]
7. Centre Lathe [Model CL50125 PLUS]
8. Twin Turret Shaft Lathe [Model 2TSL12100]

R&D investment: INR 95 million.

CHENNAI METCO PRIVATE LIMITED

1. Mounting Press - Hydraulic Auto
2. Polishing Machine - Fully Automatic
3. Cutting Machine - High Speed Saw

R&D investment: INR 0.8 million.

EMAG INDIA PRIVATE LIMITED

1. Vertical Turning Machines
[Model VL 2, VL 2 Y, VL 2 P].
2. Vertical shaft machining
[Model VTC 100-2, VTC 100-4].

ELSCINT AUTOMATION

1. High speed Rotary / Centrifugal feeder for flat drippers (Model Rf60)
2. High speed Rotary / Centrifugal feeder for bearing races and rings (Model RF80 & Model Rf100)
3. Vision inspection & stacking machine for chain plates

4. Counting & dispensing equipment for ear plugs
5. High speed vibratory bowl feeder for conical FEZ Caps
6. Feeding, Orientation & Air Blow System for plugs
7. Sorting Equipment for Ceramic Balls
8. Feeding System for Plastic Bottles
9. Feeding & Packing Machine for Camphor Tablets
10. Bearing Cage Stacking Machine

R&D investment: INR 1.5 million.

FERROMATIK MILACRON INDIA PRIVATE LIMITED

1. Two Platen Maxima Servo Power Machine - Largest Injection molding machine produced in India [Model 3200 T]
2. Two Platen Maxima Servo Power Machine [Model 500T, 850T & 1300T].
3. All Electric Machine - Elektron. [Model 350T & 450T].
4. Omega Three color machines. [Model 250T, 350T & 450T]
5. Nova Servo Economic series of machines. [Model 50T, 80T, 110T, 150T & 200T]

HI-LIFE MACHINE TOOLS LIMITED

1. Robotic automation for CNC Grinding Machine (Cell type unit) [Model NA].
2. In-Process + Post Process Inspection System [Model NA].

R&D investment : INR 2 million.



NEW PRODUCTS DEVELOPED BY MEMBERS IN 2012-2013

ISGEC HEAVY ENGINEERING LIMITED

1. 63T High Speed Mechanical Press with Speed of 500 spm (Strokes Per Minute).
R&D investment: INR 10 million.

JYOTI CNC AUTOMATION LIMITED

1. Range extension of DX200 series turning centres [Model DX200-3 and DX200-4]
2. Chucker type slant bed lathe with linear tooling system and gantry type auto loader [Model DXG100]
3. Double column type vertical machining centre. [Model NX2215 with AHC]
4. Economical high speed small Vertical Machining Centre (Model PX 10R and PX 20R)
5. 5 Axis machining centre with Automatic Pallet Charger (Model MX 8 APC)
6. Heavy duty Turning Center (Model DX 750 - 3000)

LAKSHMI MACHINE WORKS

1. 10 Axes Multitasking machine [Model JM 300X Series].
 2. TurnMill center with Y Axis [Model LL20MY L5].
 3. One meter CNC Lathe with 200mm chuck dia [Model LL20T L10].
 4. Heavy duty Turnmill center. [Model LR30TML7]
 5. Vertical machining Center. [Model JV 55]
 6. Vertical machining Center with 1000 mm Stroke. [Model JV 100]
- R&D investment: NA.

PROFI-TECH MANUFACTURES

1. Hydraulic Cold Forging Press.
2. Hydraulic Ring Sizing Press.
R&D investment: INR 3.6 million.

RAJAMANE INDUSTRIES PRIVATE LIMITED

1. RTA-series coolant pumps
2. VFD for CNC machine-High pressure pumps
R&D investment: INR 1.1 million.

SOLITAIRE MACHINE TOOLS LIMITED

1. MINI and Heavy Duty Centerless Grinder equipped with Diamond Roll Dressing and Linear Guideways.
2. R & D investment : INR 0.6 million

UNIVERSAL CONVEYORS

1. Vacuum Bend Coolant Filter-4500 LPM [Model NA].
2. Chip Crusher-Rotary Type [Model NA].
3. Rotary Drum with Slat Conveyor [Model NA].
4. Coolant and Hydraulic Oil Chillers [Model NA].
R&D investment : INR 1.0 Million.

NEW MEMBERS ENROLLED DURING 2012-2013

AMADA (INDIA) PRIVATE LIMITED

D-115, Floral Deck plaza
Andheri (East), Mumbai - 400093
Maharashtra
(Distributor - Laser cutting, Punching machines)

ATUL MACHINE TOOLS

Gondal Road, Opposite Gokul Dham,
RAJKOT - 360004 Gujarat
(Manufacturer - Grinding Machines & Surface Grinding Machines)

BROACH TECHNOLOGY (INDIA) PRIVATE LIMITED

K-219/220, MIDC
Waluj, Aurangabad - 431136
Maharashtra
(Manufacturer - Broaching Machines & Broaches)

CNC SERVICING & SOLUTIONS PRIVATE LIMITED

22, Grow More Tower, Ground Floor,
Plot Bo.-5, Sector -2, Kharghar,
Navi Mumbai - 410210
Maharashtra
(Distributor - VMC, Turning, Lathe & HMC machines)

DARSHANA INDUSTRIES PRIVATE LIMITED

63, Industrial Estate,
Hadapsar, Pune - 411013
Maharashtra
(Manufacturer - Parts & Control Panels)

DUCOM INSTRUMENTS PRIVATE LIMITED

477A, 4th Phase, Peenya Industrial Area,
Bangalore - 560058 Karnataka
(Manufacturer - Measuring & Checking Instruments)

ELECTRONICA PLASTIC MACHINES LIMITED

Gat No. 399, Hissa No.1 & 2, Bhare
A/P Ghotwade
Tal Mulshi
pune - 412115
Maharashtra
(Manufacturer - Machinery for working plastics)

EAST COAST MAGNETS PRIVATE LIMITED

44/1/6, Phase- 1, I.D.A, Jeedimetla,
Hyderabad - 560058 AP
(Manufacturer - Tools & Work Holders, Drilling Machines)

FOURWENTS ENGINEERING COMPANY

Ashirvad, Opp. HK House
PB No, 4123, Ashram Road
Ahmedabad - 380009
Gujarat
(Manufacturer - Parts & accessories for machine tools)

INTERFACE DESIGN ASSOCIATES PRIVATE LIMITED

302, Ankur Greenfields,
Sector - 16-A, Vashi,
Navi Mumbai - 400703
Maharashtra
(Manufacturer - CNC Controllers, SPM & Controllers)



NEW MEMBERS ENROLLED DURING 2012-2013

INTELMAC MACHINE TOOLS PRIVATE LIMITED

S.No. 100/5, Ambegaon
Pune - 411046
Maharashtra
(Distributor - HMC, VMC & Turn-mill center)

INTEC CAPITAL LIMITED

708, Manjusha,
57-Nehru Place
New Delhi - 110019
Delhi
(Machinery Finance)

INNOVATIVE AUTOMATION PRODUCTS

Plot No. B / 24 , MIDC
Industrial Estate
Satara - 415004
Maharashtra
(Manufacturer - DROs, liner/Rotary encoders)

KAUSHICO MACHINE TOOLS PRIVATE LIMITED

Plot No. 250, Sector -24,
Sohna Road, Faridabad - 121005
Haryana
(Manufacturer - Presses & Shearing machines)

KOMET PRECISION TOOLS INDIA PRIVATE LIMITED

16 J, Attebele Industrial Area
Bangalore - 562107
Karnataka
(Manufacturer - Cutting tools for Drilling, Threading & Taps)

KRIATEC SERVICES PRIVATE LIMITED

Second Floor (S1), New No.12 (Old No.46),
Lake View Street (Erikkarai Street)
Adambakkam, Chennai - 600088
Tamilnadu
(Distributor - CAD, CAM, CAE & Simulation software for machines tools)

LIPSON MACHINE TOOLS PRIVATE LIMITED

Plot No.8
Atika Industrial Area
Dhebar Road(South), opp to Kotak Gas Godown
Rajkot - 360002
Gujarat
(Manufacturer - Bending press brake, Shearing machine power press)

MACHT EXIM LLP

702, Safal Prelude, Prahlad Nagar,
Corporate Road, S K highway,
Ahmedabad - 380015 Gujarat
(Distributor - CNC lathe machines and Grinders)

MTAB ENGINEERS PRIVATE LIMITED

133, Developed Plots,
E&E Industrial Estate,
Perungudi, Chennai - 600096
Tamilnadu
(Manufacturer - CNC Lathes, Milling Machines, Mini Robots)

PMP MACHINE TOOLS

Behind Rajkamal Petrol Pump
Off. Gondal Road, Punit Nagar Road,
Kotharia
Rajkot - 360004
Gujarat
(Manufacturer - Hydraulic Presses, Hydraulic Cylindrical for machine tools)

NEW MEMBERS ENROLLED DURING 2012-2013

PROFI-TECH MANUFACTURERS

Plot No. G-1015, Lodhika G.I.D.C,
Kisan Gate Main Road, Gate No.-1,
Metoda, Rajkot - 360021
Gujarat
(Manufacturer - Stamping Press, Punching &
Power Pack Units & Cylinders)

PERFECT BORING PRIVATE LIMITED

3822/A, Phase IV, Behind India German
Tool Room, Vatva GIDC, Ahmedabad -
3824451
Gujarat
(Manufacturer - Machinery for Rubbers &
Plastics)

PRECISION MACHINEKRAFT PRIVATE LIMITED

No. 11/2, Lakshmipura Main Road,
Abbigere Industrial Area,
Bangalore - 560090
Karnataka
(Manufacturer - Parts & accessories
for machine tools spindles)

QUATTRO ENGINEERING INDIA LIMITED

1/A-1, First Street,
Jyothi Nagar, Uppilipalyam P.O
Coimbatore - 641015
Tamilnadu
(Distributor - Automation,
Machines tools & Toolings)

RAVI MACHINE PRODUCTS

2, Samrat Industrial Area,
Behind S.T Works, Gondal Road
Rajkot - 360004
Gujarat
(Manufacturer - Lathe Machines)

RATNAPARKHI ELECTRONICS INDUSTRIES PRIVATE LIMITED

E-52, MIDC, Satpur, Nashik - 422007
Maharashtra
(Manufacturer - CNC wirecut, EDM
machines)

SAH PETROLEUMS LIMITED

406 & 407, Embassy Centre
Nariman Point, Mumbai - 400021
Maharashtra
(Manufacturer - Industrial & Speciality Oils
& lubricants)

SKF INDIA LIMITED

Mahatma Gandhi Memorial Building,
Netaji Subhash Road,
Mumbai - 400002
Maharashtra
(Distributor - Deep Grove ball bearing
& Taper roller bearings)

SPECTRA TOOLS

Plot No.127, Part1 and Part 1A,
1st phase, KIADB Industrial Area
Harohalli post, Kanakapura Taluk
Ramanagara - 562112 Karnataka
(Manufacturer - PCD & CBN Tools,
Blade type reames)

SWASTIK ENGITECH PRIVATE LIMITED

Ambe', 54B, Panchsheel Society - 7
Gondal Road, Rajkot - 360004
Gujarat
(Manufacturer - Power presses, Seaming
machines & Lathe machines)

TASA MICRO SPM PRIVATE LIMITED

Plot No. 162 C,
Sector -24
Faridabad - 121005
Haryana
(Manufacturer - Broaching machines
& CNC Vertical lathe)



NEW MEMBERS ENROLLED DURING 2012-2013

TECH MECH HANDLING EQUIPMENT

B-7/3, Industrial Estate, Partapur, Delhi Road,
Meerut - 250103, U.P
(Manufacturer - Material Handling Equipment)

TECHNOCRATS ALLIANCE ENGINEERING PRIVATE LIMITED

812, Vikasdeep Building,
Dist Centre, Laxmi Nagar
Delhi - 110092 Delhi
(Distributor - Automation control Device,
Motor & Drive)

TURNMAX MACHINE TOOLS

10 – Samrat Industrial Area
Near S.T. Work shop, Gondal Road
Rajkot - 360004 Gujarat
(Manufacturer - CNC Tool holders,
High Speed CNC Center)

UNIVERSAL PRECISION TOOLS

M. T Sagar, Industrial Estate, Hubli -
580020
Karnataka
(Manufacturer - Coolant & Oil Filtration
Systems, Chip Conveyers)

VIPUL TOOLS CENTRE

Warden Court,
August Kranti Marg,
Flat No. 4, 4th Floor,
Mumbai - 400036
Maharashtra
(Distributor - Cutting Tool Holders)

WATER JET GERMANY PRIVATE LIMITED

Plot No. F-66, (Part -2)
SIPCOT Industrial Par
Rungattukottai,
Sriperumbudur Taluk,
Kancheepuram District - 602105
Tamilnadu
(Manufacturer - Water Jet
CNC cutting machines)

WOHLHAUPTER INDIA PRIVATE LIMITED

162-A19, Kishangaru Main Road
Vasant Kunj, New Delhi - 110070
Delhi
(Distributor - Clamping tools, Boring &
facing heads)

XCEED TOOLINGS PRIVATE LIMITED

"105, Ashoka Apartement 10th Floor"
Runghta Lane
Nepeansea Road,
Mumbai - 410218
Maharashtra
(Distributor - Threading, Milling cutting
toolholders & insert)

YASKAWA INDIA PRIVATE LIMITED

No. 17/A, Electronic City
Electronic City
Phase - I, Hosur Road
Bangalore - 560100
Karnataka
(Manufacturer - AC - Drives, Motion control
equipments servo & Controllers)

**Total Membership of IMTMA
as on 31st March 2013 : 471 members**

Impressions

NEWS

Metal cutting exhibition

The Indian Machine Tool Manufacturers' Association (IMTMA) celebrated the 45th anniversary of IMTEX and inaugurated IMTEX 2013 and Tooltech 2013 on Thursday. The two-day metal cutting exhibition at IEC was inaugurated by S Sandhya, President, Society of Indian Automobile Manufacturers, Harish Krishnamurthy, Vice-President, Automotive Components Manufacturers' Association and Vikram Singh, President, IMTMA. The expo will focus on high-end metal cutting technology for sectors like defence, automobile, medical engineering and others. It will also showcase the latest trends in metal cutting along with innovations which are imperative for companies to adopt in order to keep ahead of competition. "The expo will showcase the latest trends in metal cutting along with innovations which are imperative for companies to adopt in order to keep ahead of competition."

TOOL EXHIBITION

The 16th Indian Metal-cutting Machine Tool Exhibition was held in Bangalore

PG 2

इंडीअन मशीन टूल एक्सपोज़िशन

वर्षा 2013 में

इंडीअन मशीन टूल एक्सपोज़िशन (इमटेक्स) 2013 का आयोजन 24 से 30 जनवरी, 2013 को बंगलूरु में हुआ। यह 16वां भारतीय मशीन टूल एक्सपोज़िशन था। इसमें 25 देशों के 300 से अधिक एक्सपोज़िटरों ने भाग लिया।

इंडीअन मशीन टूल एक्सपोज़िशन

वर्षा 2013 में

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Swiss section

companies joined the guest of honour, Consul General of Switzerland, Rolf Frei, Dr Margrit Leuthold, Executive Director, Swissnex and Raguram, SICCI President-Southern India. The evening was held to help create awareness about Swiss technological leadership in the Swiss Machine tools industry and opportunities for the sector in India and provide a platform for business networking. Speaking at the occasion, Raguram said, "This is a great initiative to celebrate Swiss technological excellence in the machine tool industry. The Swiss Indo Chamber of Commerce is happy to have 30 Swiss companies in Bangalore and it is growing steadily. We would want to keep advancing our Indo-Swiss economic relationships."

इमटेक्स 2013 का आयोजन

इमटेक्स 2013 का आयोजन 24 से 30 जनवरी, 2013 को बंगलूरु में हुआ। यह 16वां भारतीय मशीन टूल एक्सपोज़िशन था। इसमें 25 देशों के 300 से अधिक एक्सपोज़िटरों ने भाग लिया।

Workshop on metal-cutting

Indian Machine Tool Manufacturers' Association (IMTMA) is organising an international seminar on Machining Technologies. Get information about the latest metal-cutting technologies for your industries. The seminar will be conducted and attended by 400 delegates from a wide array of experts from metal working industry.

WHERE: Bangalore International Exhibition Centre, Tumkur Road
WHEN: Jan 23, 9:30 am
CALL: 66246600

इंडीअन मशीन टूल एक्सपोज़िशन

वर्षा 2013 में

इंडीअन मशीन टूल एक्सपोज़िशन (इमटेक्स) 2013 का आयोजन 24 से 30 जनवरी, 2013 को बंगलूरु में हुआ। यह 16वां भारतीय मशीन टूल एक्सपोज़िशन था। इसमें 25 देशों के 300 से अधिक एक्सपोज़िटरों ने भाग लिया।

इमटेक्स 2013 का आयोजन

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इमटेक्स 2013 का आयोजन

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Indian Machine Tool Manufacturers' Association

HEAD OFFICE

10th Mile, Tumkur Road, Madavara Post
Bangalore - 562123, Karnataka (India)
T: +91 80 6624 6600 F: +91 80 6624 6661
E: imtma@imtma.in

REGIONAL OFFICE (NORTH)

Plot No. 249F, Phase IV, Udyog Vihar
Sector-18 Gurgaon - 122015, Haryana (India)
T: +91 124 401 4101 to 4104 F: +91 124 401 4108
E: imtma.ggn@imtma.in

REGIONAL OFFICE (WEST)

503, South Block, "Scared World"
S.No. 75/2/2 Opp. Sacred Heart Town
Wanorie, Pune - 411040, Maharashtra (India)
T: +91 20 40091501 T/F: +91 20 26852047

www.imtma.in