

## Global Machine Tool Sourcing Made Simpler at IMTOS 2019

India is an attractive hub for foreign investments in the manufacturing sector. With impetus on developing industrial corridors and smart cities, the government aims to ensure assist in integrating, monitoring and developing a conducive environment for the industrial development and promoting advance practices in manufacturing.

The machine tool industry is key to the government's flagship 'Make in India' and 'Skill India' initiatives, given that it makes the machines required for the manufacturing sector. Machine tools are used extensively by companies across several applications such as die molding, part manufacturing, aerospace, shipbuilding, electrical and electronics, defence, railways, healthcare, and consumer durables of which the automotive industry is the largest consumer.

The growth of automotive industry in India is the primary growth driver for this market. The automotive and auto components industry has accounted for about 40% of machine tools consumption in India. India is the automotive export hub in the South Asian market for some of the major auto OEMs like

Ford, Isuzu, Suzuki, Honda, BMW, Mercedes-Benz, and Fiat. This growth in the overall consumption is attributed to the increasing import of advanced product lines from countries like Japan, Germany, and Italy.

- In April-March 2017 exports of PV and Commercial Vehicles (CV) registered a growth of 16.20% and 4.99% respectively, over April-March 2016.

- The sales of passenger vehicles, commercial vehicles and two wheelers grew by 9.23%, 4.16% and 6.89% respectively, during the period April-March 2017.

- India's electric vehicle (EV) sales are poised to rise further on the back of cheaper energy storage costs and the Government of India's vision to see six million electric and hybrid vehicles in India by 2020

From emerging market sellers/buyers to expert industry professionals, IMTOS offers to appeal and efficiently cater to differing strata. A prestigious name for global machine tool trading and sourcing, the eighth edition of IMTOS 2019 shall showcase the industry's giants and international pavilions from key

countries and makers. With a high focus on providing real value business opportunities to exhibitors, IMTOS steadily shows strong efforts in increasing its exhibitors' rate of return. By providing profitable trade opportunities, IMTOS 2019 promises solid and strong growth.

With an exhaustive range of overseas participation, worthy and nationally acclaimed enhanced technologies and business tactics, IMTOS 2019 is the appropriate portal to explore the market trends and watch out for competition. IMTOS is built on immaculate responses and participation from various domestic and international stalwarts. Keen interest from renowned industry and global change makers has set newer and higher standards in terms of footfalls, serious business inquiries and business generation.

With every successful edition, IMTOS follows through with an even more promising one. With its launch in 2007 the exhibition that was spread over 12000 Sq Mtr of exhibition space and generated around \$120 million worth of business turnover, IMTOS has grown leaps and bounds over the years.



A GLOBAL DISPLAY OF TECHNOLOGIES IN  
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8<sup>th</sup> **INDIA SHOW 19**  
**MACHINE TOOLS**

14 - 15 - 16 - 17 June, 2019  
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# 14<sup>th</sup> ENGIMACH geared up to set higher milestones and sharper standards

Over the years, ENGIMACH has been one of the prime contributors to the development of the machine tools industry, that enables its participants and visitors with cutting edge and power house technology that stands for engineering excellence, innovation, quality and reliability.

The showcase at ENGIMACH has offered a quintessential launch pad for new ideas, products and services, a conducive environment for forging joint ventures, collaborations and an open marketplace to source ideal solutions with over 10,00,000 business visitors and beneficiaries.

The 14th ENGIMACH, a step ahead of its previous editions, to be held from 4th to 8th December, 2019 shall prove to be an apt platform for presenting and viewing the industry's technological prowess and innovations in all its glory. Products, processes, technology, emerging innovations, active participation of national and international companies, knowledge exchange with world leaders, ample investment opportunities, business tie-ups and much more will be the highlights of the event. The focus sectors this year include Machine Tools & Machine Tool Accessories, Automation & Robotics, Tooling Systems, Hydraulics and Pneumatics, Pumps &

Valves, Fasteners & Hardware, Automobile, IT Enabled services, Electrical & Electronics, Fabrication & Welding, SPMS & Pipe Technology among others.

Scheduled to be organized at a world class venue- The Exhibition Centre, Gandhinagar, ENGIMACH shall engineer change in the future by introducing, inspiring and refining the dynamics of the concurrent sciences. This edition shall feature an impressive line up of exhibitors from over 25 countries like Japan, Germany, USA, UK, Austria, Italy, Spain, Canada, Switzerland, Netherlands, Australia, Singapore, Taiwan, Korea, China, Hong Kong, Thailand, UAE, Turkey, Egypt, Poland, Ukraine & Czech Republic showcasing an extensive range of more than 1500 industrial products.

The previous edition of Engimach, held between 6th to 10th December 2017 was a roaring success. Spread over 50000 square meters of area, the exhibition saw participation from almost 500 exhibitors from across the globe. With 27 participating countries and 296 participating regions across India, it saw a whopping 76,662 visitors resulting in a total of INR 2000 Crore business turnover. With the support of EEPIC India and Ministry of Commerce and Industry Government of India, the 13th Engimach also hosted a technology

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meet focusing on General Engineering and Machine Tools. The meet encompassed knowledge sharing sessions from industry experts on technological status, challenges and requirements for enhancing exports in the country.

The progressive ascendancy of the 21 years of ENGIMACH can be attributed its pre-emptive planning & execution, worldwide networking and meticulous control of operations at macro & micro level. ENGIMACH has always endeavored to identify, applaud and encourage all such technological innovations at organizational levels. The show is an integration of enduring abiding integrity and resolute success inscribed by K AND D Communication Limited.



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4 | 5 | 6 | 7 | 8 DEC 2019  
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Bharat Fritz Werner Ltd. (BFW) is India's leading solution provider in the area of machine tools. They provide a wide range of product offerings including Vertical machining centers, Horizontal machining centers, Vertical turning, Horizontal turning, Multi process technologies, Five axis machines, special purpose machines, Beyond the box process Engineering, IRIS & Factory Automation that caters to diverse requirements of customers.

Their excellent innovation and design capability behind a wide product portfolio allows them to offer multiple solutions designed to meet the performance, productivity and reliability expectations of their customers. With 40,000 machines in use across the world by some of the best known companies in manufacturing.

They started their journey in 1961 to realise the dream of a young economy that was on the cusp of industrialisation. Ever since, Bharat Fritz Werner Ltd. has been at the heart of manufacturing. Supporting the growth of the Indian Manufacturing industry by creating the machine tools vital for industries, across verticals - from Agriculture to Aerospace.

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# Explore Limitless Applications of Additive Manufacturing

Invented at MIT and redefining Production Technology for the future, Additive Manufacturing (AM) refers to a group of technologies that create 3D objects by adding layer upon layer of any form of material: from carbon fibre to concrete, as well as to build bones, and body tissues.

Several industries are making extensive use of AM include Aerospace, Defence, Housing and Medicine; which in addition vastly use AM for Research & Development to improve their tooling fabrication processes, and faster prototype building. Majority of companies being from Automobile and Consumer Goods industries.

From Marking, Cutting, Engraving to Cleaning, AM technologies such as 3D Printing, Rapid Prototyping, Direct Digital Manufacturing (DDM), layered manufacturing and additive fabrication have redefined Industrial Production with great future potential for multiple functions.

The simple ability to create prototypes using any material, or combination of material offers a great advantage to businesses, inventors, and innovators alike. Offering flexibility and precision, AM technologies allow adding ultra-fine layers down to just a fraction of a millimeter thick.

As one of the most disruptive emerging technologies, Additive Manufacturing also provides many new routes in structure building, construction and exhibition space design. With different materials to choose from, AM can be applied to any part of space design from small design units to large moulds for building houses, and structures.

The synergy of Additive Manufacturing and Computational Geometry has the potential to radically expand the "design space" of solutions available to designers. Introducing first entirely "digital" method of fabrication in the sense that there is no intermediary representation, such as drawings. Definition of the geometry to be built comes from a 3-



dimensional CAD model and control of the building process is entirely computer-driven. There are many variations of AM but they all share common features: the geometry of the part comes from a CAD model, the model is "sliced" into 2D cross-sections, the printer builds up the part geometry by "stacking" the cross-sections in successive layers of a fluid raw material (typically liquid resin, powder, or molten plastic), and the cross-sectional areas are solidified by precise application of energy such as light, heat, or a chemical binder.

The possibilities which Additive Manufacturing offers are endless, but it's up to us to make the most sound and smart use of it: for whichever purpose we choose.

## AN EXHIBITION OF LATEST TECHNOLOGIES IN MACHINE TOOLS AUTOMATION ENGINEERING INNOVATION



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## Laser Cutting Technology in 2019: Growth, Trends & Key Players

Modern technology allows us to do many things. From creative pursuits to architectural endeavours, in addition to making advancements in Industrial Production in sectors such as Aerospace, Automotive, Electronics, Semiconductor and Medical fields. Offering quality and reliability, Laser Cutting Machines have a huge potential for any market looking to advance its businesses technologically.

In India, the Industrial Laser Market is growing steadily and is already making advances towards becoming the next hub for manufacturing. With major imports of Laser Cutting Machines from international players such as Mazak, Trumpf, Amada, Coherent etc are now directly competing with Indian players such as SLTL, SIL, Mehta Cad Cam etc. whose machines are at par with international benchmarks.

Growing steadily, India accounts for about 5% of the \$12 billion or more global laser market. With the overall market between 300 and 400 machines for 2017. In 2018-2019, it may reach 600-800 lasers for cutting machines.

Yet the significant growth in number of Laser Cutting Machines in India indicate towards the fact that the Blue Light technology has a lot of takers in several of the industries. From surface treatment market, to high-power laser market for applications like cutting, welding, cladding, and heat treatment. The Make in India initiative has also put thrust on setting up local manufacturing sectors such as defense and aerospace, with joint ventures being done between leading world companies and Indian companies such as TATA, Reliance, L&T, and Mahindra.

The reason this technology has so many takers despite the initial high costs is due to numerous beneficial characteristics. Such as 1) It is one of the faster cutting processes. 2) The workpiece does not need clamping but workholding is advisable to avoid shifting with the table acceleration 3) Tool wear is absolutely zero as the process is a non contact cutting process 4) Cuts can be multi directional 5) The entire process can be made automated with adaptive control in the future 6) Highly flexible process; and 7) Nearly all engineering materials can be cut.

Still the technology is open to numerous developments, and can be greatly & effectively in a lot of everyday life functions across multiple applications -- presenting several uses of Laser Cutting for independent makers who can drive innovation, or create entirely new methods of application for Industrial design at any scale.

# Renishaw to showcase how its smart technologies are driving tomorrow's production at IMTOS 2019

Precision engineering and manufacturing technologies company Renishaw is showcasing its diverse technology portfolio and extensive experience in automated process control at IMTOS 2019, 14 - 17 June, Pragati Maidan, New Delhi, INDIA.

At IMTOS 2019, Renishaw is demonstrating its range of smart factory process control solutions, which are proven to help machine shops across many industries transform their production capabilities. Renishaw's product portfolio supports the full spectrum of industrial metrology applications, delivering benefits in speed, ease-of-use and flexibility, which help manufacturers integrate smart factory technologies into their existing operations, today.

Visitors to Renishaw's stands in hall 9 stand P1-A will be able to discover Renishaw's diverse portfolio of technologies for smart manufacturing and witness the benefits of Industry 4.0 in action, including process automation and innovations in collecting and managing actionable data about devices, processes and parts. As Paul Maxted, Director of Industrial Metrology Applications at Renishaw, explains, "Although 'smart manufacturing' is being widely discussed as a current theme, Renishaw has been evolving and implementing smart factory principles successfully for over 25 years across our own manufacturing operations.

Renishaw can be found in Hall 9 on stall P-1A.

## CMM automation, speed and throughput – without compromising on accuracy

Visitors to Renishaw's stand can experience the multi-sensor capability of the REVO® 5-axis measurement system on co-ordinate measuring machines (CMMs). The system offers a multi-sensor capability to provide touch-trigger, high-speed tactile scanning and non-contact vision measurement on a single CMM. Renishaw will also highlight the SPZ2 surface finish probe, which increases the surface finish measurement ability of the REVO system, combining surface finish measurement and dimensional inspection into a single platform to give unrivalled advantages

in time, part handling and return on investment.

## Process control and automation for CNC machining operations

Renishaw's latest SPRINT™ technology will also be showcased – high-accuracy machine tool probing systems for rapid part set-up and machining process control. With the unique 3D sensor technology within Renishaw's OSP60 probe, probing systems with SPRINT technology provide exceptional, high-speed, high-accuracy scanning for CNC machine tools.

Renishaw will demonstrate its range of high-accuracy machine tool probes with

RENGAGE™ technology for workpiece set-up, in-process control and post-process inspection. The latest addition to Renishaw's range of machine tool probes with RENGAGE technology is RMP400 – a new, ultra-compact and highly repeatable probe that uses radio transmission technology. Each probe in the range is tailored to suit different machine tool sizes and machining applications, combining proven silicon strain gauge technology with ultra-compact electronics to deliver world class 3D performance and sub-micron repeatability. Excelling in the measurement of complex shapes and contours, probes with RENGAGE technology are ideally suited to mould and die and aerospace applications, where the use of 5-axis machines is common. An ultra-low trigger force helps to eliminate surface and form damage on



components; ideal for inspecting delicate workpieces. All the probes in the range can benefit from SupaTouch technology – embedded within the latest versions of Renishaw's Inspection Plus macro software – which intelligently optimises on-machine probing cycles, leading to a cycle

time reduction of up to 60% on CNC machine tools.

## Intelligent process control

Renishaw's Equator™ shop-floor gauging systems are being used to great effect around the world to measure a vast array of manufactured parts, particularly in the aerospace and automotive industries. They enable intelligent process control of manufacturing cells and lines by delivering highly repeatable, thermally insensitive,

versatile and reprogrammable shop-floor gauging. Renishaw will demonstrate the Equator gauging system in use on a range of components and assemblies, including those for electric motors. Featuring Renishaw's intelligent process control (IPC) software, the Equator system provides manufacturers with the functionality to automate process control and tool offset correction directly to CNC machines. The proximity of the Equator gauging system to CNC processes allows rapid measurement and process adjustment at the point of manufacture, avoiding time delays or relying on finished part ('tailgate') inspection. Available in two size variants –



the 300 and the 500 – the Equator gauging system is unique in its design and method of operation.

To remain globally competitive, manufacturers must satisfy the need for parts produced to closer tolerances, reduced product life cycles and increasingly consumer-driven demand for product variety. This, coupled with a need for increased factory automation, requires a range of intelligent process control solutions throughout the factory. Manufacturers find that partnering with Renishaw's process control experts offers them an unrivalled breadth of experience and product solutions, which help them to achieve smarter manufacturing processes. They benefit from optimum quality, efficiency and resource utilisation on the shop floor.



# Uphill Growth for the Metrology Market in India

Metrology refers to the science and process of measurement. In Industrial terms, Metrology holds a special place for its endless capabilities and uses. From Quality Control to Large Volume Inspection, the Metrology market size in India increases with every new technology adoption. The growth of India's Metrology market in India for conducting test & measurement can be attributed to the rise of electronics usage in India including rise in use of smart devices, and growth of wireless technology government initiatives.

According to the industry experts, the current Indian market size for Testing & Measurement equipment used in the ESDM industry is worth approximately US\$ 150 to US\$ 200 million. The market however, presents a much bigger opportunity. Frost & Sullivan, a market research firm, forecasts that the Indian market for general-purpose electronic T&M instruments will touch US\$ 300 million by 2022.

Driven by both domestic and international demand, growth in the Metrology market is a result of growth registered by key segments like automotive, aerospace and defence, electronics design and more. The decision of automotive companies switching to automated testing has also been instrumental in increasing the demand for T&M equipment.



Encompassing various technologies and machines such as CMMs Systems, Optical Sensors, Verification of MMC, Metrology Software, MT Measurement Software, Verification Software for Machine Tools, Fixture Technology to Complete Metrology Solutions -- companies offering Industrial Metrology products in India are namely Nikon, Zeiss, Accretech etc.

As a highly precise field of work, Metrology

Services and Manufacturing require proper knowledge of measurement techniques for construction of engineering works and structures. Even a small error of 24.5 instead of 25.4 can result in catastrophic consequences. That's why in India, several regulation bodies such as Metrology Society of India, NABL and NTH are in operation to ensure strict quality measures with implementations of The Legal Metrology Act, 2009 and Standardisation Testing and Quality Certification.

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