

08 - 11 August 2019  
India Exposition Mart Limited  
Greater Noida

Published by



Indian Machine Tool  
Manufacturers' Association

Media Partner



Delivered by the organiser of **IMTEX**



## Reaching Out

# DMTX 2019: Expanding Horizons

In its pursuit to reach out to OEMs of the various industry sectors in the neighboring Tier II and Tier III cities and address their manufacturing requirements, Delhi Machine Tool Expo (DMTX) makes a comeback in its third edition on August 08–11, 2019 at India Expo Centre & Mart, Greater Noida. Here's a sneak peek into the show...



Source: IMTMA

Glimpse from DMTX 2017 Show

Organized by Indian Machine Tool Manufacturers' Association (IMTMA), DMTX has come to be recognized as a one-stop destination to catch sight and seek state-of-the-art manufacturing technologies and solutions by the SMEs and large industries of the northern region of the country.

### Focus this year

The displayed machines and accessories are meant to cater to the needs of key user industries such as aerospace, defence, railways, automotive, medical

engineering, construction, information technology, and electronics, etc. The show offers yet another opportunity for the manufacturing industry of the region to seek solutions to enhance its productivity and quality, and demonstrate the same to the small and medium enterprises.

Stating his views on DMTX 2019, P Ramadas, President, IMTMA, said, "We are glad to organize the third edition of the expo as the past two editions of the show evoked an encouraging response from the

machine tool industry. Manufacturers who participated in the previous shows were able to expand their range and I firmly believe that this edition of the show will help them to build on to their earlier success and reach out to the regional industries."

Citing the objective behind the expo, V Anbu, Director General & CEO, IMTMA, said, "IMTMA is organizing the show to enable India's regional industrial units to keep pace with the changing technologies. Shows like DMTX will play an enabling

role in addressing the numerous requirements of OEMs and component manufacturers in Tier II and Tier III cities. We expect a good turnout and I am confident that the expo will continue to evolve and grow bigger in future editions."

### North India potential

Himanshu P Shaparia, Vice President – Sales, Jyoti CNC Automation Ltd, plans to make the most from the company's presence at DMTX 2019 show.

*Continued on page 2*



Source: IMTMA



Source: IMTMA

“We are glad to organize the third edition of DMTX as the past two editions evoked an encouraging response from the machine tool industry. Manufacturers who participated were able to expand their range. I firmly believe that this edition too will help them reach out to the regional industries and grow.”

**P Ramadas**  
President  
IMTMA

“IMTMA is organizing the show to enable India’s regional industrial units to keep pace with the changing technologies. Shows like DMTX will play an enabling role in addressing the numerous requirements of OEMs and component manufacturers in Tier II and Tier III cities.”

**V Anbu**  
Director General & CEO  
IMTMA

*Continued from page 1*

“Considering the technological intensification and innovation required to cater to the North Indian market, we see tremendous potential in our products.

Automation and complete solutions are going to be the future call of the industry. Jyoti has the required product basket ranging from 2-axis to 5-axis machines, and the capability in terms

### Exhibitor Profile

CNC multi-function machines; Drilling, boring, tool grinding & milling machines; Electro erosion machines; Flexible manufacturing systems; Gear cutting & finishing machines; Heating and hardening machines; Honing, lapping, polishing & deburring machines; Machines for marking; Machine centers; Planing, shaping, slotting & broaching machines, Robotics & manufacturing automation; Sawing and cutting-off machines; Screwing & threading machines; Special purpose grinding machines; Turning machines; Bar, section and tube working machines; Casting & foundry; Die casting; Forging; Heat treatment & hardening; Hydroforming; Joining & welding; Machinery & processes for ceramics, ceramics, plastics; Machines for the production of bolts, nuts, screws and rivets; Sheet metal blanking, punching, cutting, forming machines; Sheet working cells and systems; Abrasive and polishing tools; Hydraulic and pneumatic systems and elements; Lubrication & coolants; Waste disposal equipment; Welding material & accessories; Work holding and many more.

### Visitor Profile

- Aerospace • Defence
- Railways • Automobile
- Windmill, Power and Thermal
- Electrical and Electronics
- Pharma Equipment
- Oil & Gas Equipment
- Earthmoving Equipment
- Space and Nuclear
- Textile Machinery
- Tractors and Farm Equipment

**DMTX 2019, like its predecessors, is slated to pull in delegates and visitors not just from Delhi and NCR, but also from the Tier II and Tier III cities such as Jagadhri, Sangrur, Rudrapur, Chandigarh, Ludhiana, Jalandhar, Manesar, Faridabad, Panipat, and also from the neighboring states of Rajasthan, Uttar Pradesh, Himachal Pradesh, Uttarakhand, and others.**

of technology and infrastructure to execute such projects,” he added.

“Our primary focus is to showcase the state-of-the-art technologies, enabling our customers to transform their business by enhancing their manufacturing capabilities essential in today’s competitive business scenario. Connecting with the SMEs and corporates will enhance our visibility and help us increase our market share in this region,” explained Shaparia. For Electropneumatics & Hydraulics (I) Pvt Ltd too, the North Indian market is crucial since it contributes a substantial share to its business volume. The presence of major OEMs like Maruti, Honda, HMSI, Hero MotoCorp, JCB, Escorts, etc. and a host of Tier I and Tier II suppliers makes the region of great value to the company. “The huge NCR region is a big user of Mechanical Presses. Therefore, at DMTX 2019, we will be exhibiting

our CNC Tube Bending Machine and Servo Mechanical Press. We will present a live demonstration of our Servo Mechanical Press, which is a superior technology machine over conventional Mechanical Presses and is also available at an affordable price,” informed Sanjay K Saha, Vice President – Marketing, Electropneumatics & Hydraulics (I) Pvt Ltd.

### On the same page

Micromatic Machine Tools Pvt Ltd will be displaying its latest technology machines at the expo. “DMTX has been a perfect platform for us to display our new products and interact with our existing and new customers. First time buyers of CNC Machines will get hugely benefitted at DMTX owing the variety offered to them all under one roof,” shared Ravi Rana, General Manager – Principal Development & Quality Systems, Micromatic Machine Tools.

Rana further added, “North India has been an important market for us as 25 percent of our business is generated by this part of the country. Being an automobile hub, several OEMs and their vendors have manufacturing units here. We expect delegates from OEMs and their vendors to visit our stall at the trade fair and be updated with our new offerings.”

Playing to its strengths, Hurco India Pvt Ltd will be displaying its newest 5-axis machine model VMX42HSRTi that can be used like a 5-axis simultaneous, 3+2-axis machine, and 3-axis.



Source: Jyoti CNC Automation Ltd



Source: Micromatic Machine Tools Pvt Ltd



Source: Electropneumatics & Hydraulics (I) Pvt Ltd



Source: Hurco India Pvt Ltd

“The industrial scenario in North is vibrant with it being an important hub for major industry segments such as Automobile, Auto components, Die and mould, Heavy engineering, etc. We see the market as one of our prime areas of business that holds great potential for our future growth.”

**Himanshu P Shaparia**  
Vice President – Sales  
Jyoti CNC Automation Ltd

“DMTX has been a perfect platform for us to display our new products and interact with our existing and new customers. Likewise, the first-time buyers of CNC Machines will get hugely benefitted at DMTX owing the variety offered to them all under one roof.”

**Ravi Rana**  
General Manager – Principal  
Development & Quality Systems  
Micromatic Machine Tools Pvt Ltd

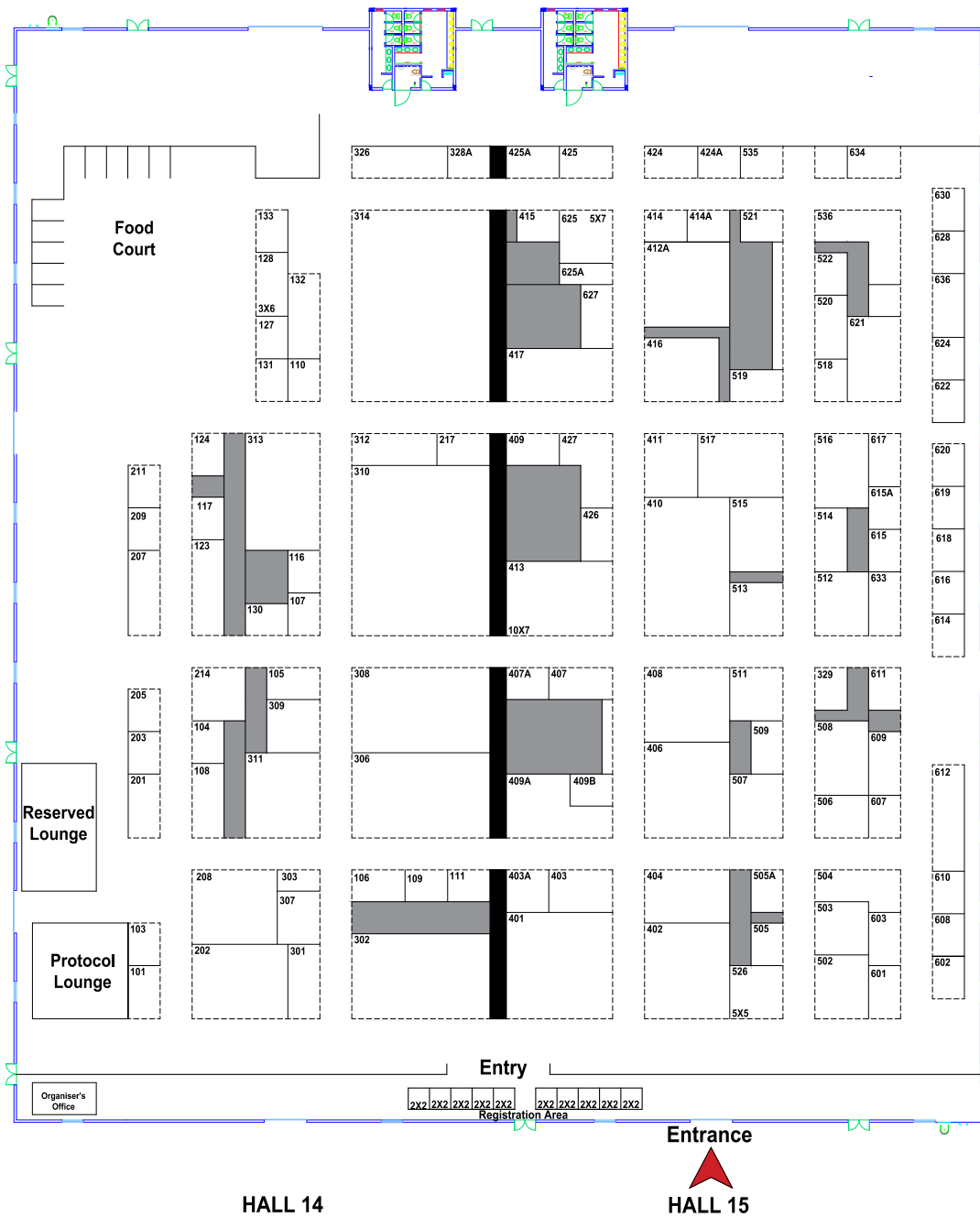
“Regional shows like DMTX facilitate reaching those potential users in small cities of North India who may not make it to bigger shows happening far from them. The show is an apt platform to present innovations in our products to them and explore business opportunities.”

**Sanjay K Saha**  
Vice President – Marketing  
Electropneumatics & Hydraulics  
(I) Pvt Ltd

“Due to the Government’s focus on road and rail infrastructure development, a boom in the automotive and construction equipment business is expected, increasing the demand for new tools moulds and prototypes further and making North India a potential market for Hurco India. DMTX 2019 will help us connect with our potential associates.”

**Mayank Tripathi**  
Area Manager Sales, North India  
Hurco India Pvt Ltd

**Floor Plan**



HALL 14

Entrance  
HALL 15

**Exhibitor list**

Company Name	Stall No
A.V. Engineers	508
Abbott Toolfast Pvt. Ltd	612
Abexmatic Hydraulics Pvt Ltd	217
Ace Micromatic Group	306
Adarsh CNC Services Pvt. Ltd	214
Ahire Machine Tools Pvt. Ltd.	424
ALMTI	209
Anand Engineers Pvt. Ltd	512
Anil Bearing Company	414A
Autoturners Automations Pvt. Ltd	130
Banbros Engineering Pvt Ltd	636
Batliboi Ltd	401
Beijing CTB Co., Ltd	127
Bettinelli Automation Components Pvt. Ltd	617
Birla Precision Technologies Ltd	520
Blum Novotest Measuring And Testing Technology Pvt.Ltd	312
Capital Goods Skill Council	514
Chain-Headway Machine Tools Co., Ltd	627
Changzhou Hiboo Tools Co.,Ltd	616
Changzhou Raiko Cutting Tools Co., Ltd	328A

Company Name	Stall No
Chengdu NEWKer CNC-Technology Co.,Ltd	109
Chennai Metco Pvt. Ltd	207
CRC India Manufacturing and Distributors Pvt. Ltd	203
Creintors Automation Solutions Pvt. Ltd	116
De Neers Tools LLP	614
Dongguan Kingjime Machine Ltd	618
Dosatron International	407A
Dynamic Engineering Company	615
Dynascan Inspection Systems Company	131
Dynemech Systems Pvt. Ltd	103
Electropneumatics & Hydraulics (I) Pvt. Ltd	413
Emtex Manufacturing	417
Epson India Pvt Ltd	502
Falcon Toolings	519
Faro Business Technologies India Pvt Ltd.	201
Fenwick and Ravi	132
Gedee Weiler Pvt. Ltd	416
Geo Informatics Consultant Pvt. Ltd	211
GH Induction India Pvt. Ltd	105
Golden Udyog	522

Company Name	Stall No
Hagg Mill Store Pvt. Ltd	630
Hind Hydraulics & Engineers	311
Honor Seiki Co., Ltd	625A
Hurco India Pvt. Ltd.	408
Hydax Hydraulics Pvt. Ltd	536
IMTMA Technology Centre	521
Indotech Industries (I) Pvt. Ltd	427
IRUS Engineering Pvt. Ltd	513
ITL Industries Ltd	123
Jagdeep Foundry (Regd.)	505A
Jaguar Machines	628
Jergens India Pvt. Ltd	110
Jinan Kaifeng CNC Machinery Co., Ltd	117
JVR Enterprises / Eastman Impex	615A
Jyoti CNC Automation Ltd	314
Kabelschlepp India Pvt. Ltd	106
Kinol Lubes Pvt Ltd	426
Kleenoil Filtration India Pvt. Ltd	518
Lakshmi Machine Works Ltd	310
Lamba Press & Shears	603
Linear Ways India	602

Company Name	Stall No
Lokesh Machines Ltd	409A
Losma India Pvt. Ltd	609
M. D. Corporation	507
Machine House (India) Pvt. Ltd	425
Maco Corporation (I) Pvt. Ltd	503
Macpower CNC Machines Ltd	313
Makino India Pvt. Ltd	302
Marposh India Pvt. Ltd	202
Marshall Machines Ltd	412A
MDL Vishal India Pvt. Ltd	205
Meiban Engineering Technologies Pvt. Ltd. / Muratec	403A
Millenia Technologies (I) LLP	535
Mitutoyo South Asia Pvt. Ltd	208
Miven Mayfran Conveyors Pvt. Ltd	104
M'La Sales Corporation	608
MMC Hardmetal India Pvt. Ltd	410
MMI India	409
Mogora Cosmic Pvt. Ltd	107
Muvtons Castors Pvt. Ltd	309
Nanjing Technical Equipment Manufacture	601
Nisha Engineering Works	111
Numeric -Novateur Electrical & Digital Systems Pvt. Ltd	407
Orcan Products of India	101
Oriental Motor (India) Pvt. Ltd	411
PAC Machine Tools India LLP	409B
PMT Machines Ltd.	326
Precision International	307
Precision Machines Corp	633
R.S. Hydraulics	124
Rapid Flow India Pvt. Ltd	634
Ravik Engineers Pvt. Ltd	404
Ringspann Power Transmission India Pvt Ltd	607
Riya Electrodes Pvt. Ltd	511
Sage Software Solutions Pvt Ltd	505
Sai Enterprises	611
Setco Spindles India Pvt. Ltd	619
Shandong Xingtian Sunshine Intelligent Equipment Co., Ltd	424A
Shanghai Yuhe Diamond Tool Co.,Ltd	622
Shilpin Machine Tools Pvt. Ltd	506
Singhal Power Presses Pvt. Ltd	403
SMW Autoblok Work Holding Pvt. Ltd.	516
Solarman Engineering Project (P) Ltd	515
Solidcam Software India Pvt. Ltd	414
Sparkonix (India) Pvt. Ltd.	504
Speciality Wire India	620
SriYantra Engineers Pvt. Ltd	301
Surya Machine Tools (I) Pvt. Ltd.	425A
Tech Mech Handling Equipment	108
Tongtai Machine & Tool Co., Ltd	625
Tsugami Precision Engineering India Pvt. Ltd	308
Tumakuru Machine Tool Park	509
UCAM Pvt. Ltd	402
Xtreme Gaming Pvt. Ltd	610
Yamazaki Machinery & Tools India Pvt. Ltd	406
Yushiro India Company Pvt. Ltd	526
Zhengzhou Jielida Abrasive Products Co., Ltd	517
Zhuzhou Lihua Cemented Carbide Co.,Ltd	329
Zigong Joint Carbide Co., Ltd	624

## CNC Machine Tools

# Getting Closer to Customer

In line with its mantra of being customer centric, Jyoti CNC Automation is eager to meet its existing customers and acquire new customers to strengthen and expand its network at DMTX 2019.

**D**MTX 2019, according to Himanshu P Shaparia, Vice President - Sales, Jyoti CNC Automation Ltd, provides an ideal platform for metal working and machine tool companies to showcase their products in the northern region that cater to industrial segments including Automobile, Die & Mould,

General Engineering, Tractor, Energy and the two-wheeler sector.

### Innovation on offer

The company, as a competitive solution provider, is exhibiting CNC machines with a technological edge with the aim to enhance productivity and efficiency of its customers. "We are showcasing

our upgraded turning centers and machining centers as complete solutions for the vast SME sector to boost their competitiveness. We will be leveraging our varied product basket to explore new business opportunities at this exhibition," he adds.

Jyoti CNC is showcasing a selective blend of five machines out of its exhaustive range - DX 170 nvu in Turning Center, Tachyon 7 in High Speed Drill Tap Center, VMC 1580 in VMC Performance Large Series, VTL 500 in Heavy Duty Vertical Turning Lathe and HX 500 in Horizontal Machining Center. The company is also offering visitors an opportunity to experience the world of Industry 4.0 through live demonstration of its new offering - 7<sup>th</sup> SENSE.

Speaking on the visitors that the company expects, Shaparia notes, "The exhibition holds tremendous significance for all manufacturing segments. We expect trade visitors from all major sectors of the industry including Machinery and



Source: Jyoti CNC Automation Ltd

"We see DMTX 2019 as the most important interaction point for exchanging, upgrading and expanding business opportunities. Along with Delhi and the NCR, the show attracts delegates and visitors from the nearby Tier II and Tier III cities, which is ideal to grow our customer base."

**Himanshu P Shaparia**  
Vice President - Sales  
Jyoti CNC Automation Ltd

Plant manufacturers, Automotive and its Components suppliers, Precision mechanics, Tool and Die manufactures, General Engineering, Tractor, and the two-wheeler sector."

"We see DMTX 2019 as the most important interaction point for exchanging, upgrading and expanding business opportunities. Along with Delhi and the NCR, the show attracts delegates and visitors from the nearby Tier II and Tier III cities, which is ideal to grow our customer base," he adds summing up.

Jyoti CNC Automation Ltd  
www.jyoti.co.in  
Hall & Stall: 14 / 314



Source: Jyoti CNC Automation Ltd



PMT Machines Ltd  
www.pmtmachines.com  
Hall & Stall: 14 / 326

Source: PMT Machines Ltd

## CNC Grinding Machines

# CNC Internal Grinding Machines

The construction of PMT's internal grinding machines is as per Swiss technical standards.

**P**M T Machines is one of the leading solutions providers for Internal Grinding of critical work pieces like gears, bearings, hydraulic spools, etc. The construction of its internal grinding machines is as per Swiss technical standards. The company offers an integrated solution along with work holding fixtures manufactured in-house to high precision. PMT has its presence all over India with its products and services. The presence of its more than 1,000 grinding machines in the market speaks of the high-quality standards followed at PMT complying with major international quality certifications. The Internal grinding machines are integrated with a high level of grinding software; user-friendly, menu-driven system; auto loading; and comprehensive diagnostics systems, which minimize cycle time and improve quality parameters. All of PMT's internal grinding machines are tooled up and tried out to establish a process capability of Cp/Cpk 1.66.

## Turning Machines

# Taking an Innovative Turn

VERSATURN slant bed turning machines from Gedee Weiler are the first in India to be based on a revolutionary new concept of integrating zero point clamping system onto the saddle of the slant.

**V**ersaturn is essentially a CNC chucking machine available with two different X-strokes. The unique feature of this machine is that in the long stroke version (X-300mm), the machine can accommodate larger diameter components up to 180mm with 4 linear tools facilitating high productivity. Optionally, this is offered with a combination of Linear tooling and Turret, enabling the customer to use more than 8 tools if called for.

As another variant, the machine is offered with a Stark zero point clamping system with interchangeable T-slot tables mounted with different combination of linear tool blocks for different components which can be changed within a few minutes. This unique innovation of Gedee Weiler is the first of its kind in India that combines high productivity of linear tools and high flexibility to accommodate different components

which call for medium batch production with near zero changeover time.

L.M.Roller guideways on both X & Z axis ensure rigidity and make the machine suitable for machining different materials like Steel, Cast iron and Aluminum. The machine is equipped with a spindle that delivers precision (Spindle R/O ≤ 0.003mm), a hallmark of Gedee Weiler.

Furthermore, these machines are offered with a wide range of spindles (A2-4, A2-5, A2-5 LB, A2-6) and controllers (Fanuc, Siemens and Mitsubishi).



Gedee Weiler Pvt Ltd  
www.gdweiler.com  
Hall & Stall: 15 / 416

Source: Gedee Weiler Pvt Ltd



# NATIONAL PRODUCTIVITY SUMMIT 2019

*"Showcasing Competitiveness in Manufacturing"*

20 - 21 August 2019 | BIEC | BANGALORE

KNOWLEDGE SHARING | CROSS LEARNING | NETWORKING

## Key Take Aways

- Insightful plant visits to renowned manufacturing companies
- Learn & benchmark from best manufacturing practices
- Listen to keynote presentations from industry leaders
- Learn innovative approaches to address productivity challenges
- Exchange new ideas & concepts – Knowledge networking
- Ideal platform to interact and network with several manufacturing professionals

## Industry Leaders speak



**Mr. Vipin Sondhi**  
Managing Director & CEO  
JCB India Limited



**Mr. Bhaskar Bhat**  
Managing Director  
Titan Company Limited



**Mr. G. Parthipan**  
CEO  
Rane TRW Steering Systems



**Dr. Babu Padmanabhan**  
Managing Director  
Steer Engineering Limited



**Mr. Sandeep Maini**  
Chairman  
Maini Group

## IMTMA - ACE MICROMATIC PRODUCTIVITY CHAMPIONSHIP AWARDS 2019

Live case study presentations on best productivity practices from renowned companies

### Contesting companies



## Plant Visits (19th August 2019, Monday)

### TOUR A

Ashok Leyland  
&  
TVS Motor Company

### TOUR B

Volvo Trucks  
&  
Honda Motorcycle and  
Scooter India

### TOUR C

Dynamatic Technologies  
&  
Volvo Construction  
Equipment

Registration for participation must be made online only. To register online, log on to [www.productivity.imtma.in](http://www.productivity.imtma.in)

For details or any queries/clarifications during 'Online registration' process, contact

Abhishek, tel: (080) 66246829, ([abhishek@imtma.in](mailto:abhishek@imtma.in)) | Prashant Kulkarni, tel: (080) 66246805, ([prashant.k@imtma.in](mailto:prashant.k@imtma.in))

Mobile : +91 9886611007



ORGANISED BY  
**Indian Machine Tool  
Manufacturers' Association**  
[www.imtma.in](http://www.imtma.in)

### AWARDS SPONSOR

**AceMicromatic®**  
Group

### MEDIA PARTNER

**M** MODERN  
MANUFACTURING  
INDIA

## Factory Metrology

# A Matter of Precision

Faro Business Technologies India Pvt Ltd  
<https://www.faro.com/en-in/>  
Hall & Stall: 14 / 201

An interesting account of how India's leading tooling and machining specialist, Techno Engineers attained higher precision and efficiency, and increased client satisfaction with FARO® Edge, a portable coordinate measuring machine (CMM).



The portable FARO Edge enables inspection anywhere on the shop floor.

### Problem

- Previously, the team used conventional methods with hand tools such as height masters, height gages, slip-gages, micrometers, and vernier calipers for measurements, which were time-consuming.
- The accuracy of the results was heavily dependent on the skills of the operator, and there were certain complex structures that the company's then tools were unable to handle.

### Solution

- Using the FARO Edge, Techno Engineers can now inspect complete bike frames within 60 to 90 min, with 1 – 2 team members instead of 5. Factoring in the time taken for corrections, assembly, and a second round of inspection, a process that used to take 7 – 10 days, now takes just 1 day.
- Operators no longer have to worry about moving a bulky, heavy object to a measuring room, or about finding a suitable hand tool that can accommodate the piece being checked.
- Moreover, measurements taken with the Edge are much more precise and accurate than those obtained with conventional methods, enabling Techno Engineers to provide readings with tolerance of 20 microns.

Established in 1985, Techno Engineers is a machine shop that specializes in manufacturing an array of high-quality special purpose machines (SPMs), robotic cells, jigs, fixtures, receiving gauges, welding fixtures, panel checkers, and tooling systems. The company is best known for its products of high functionality, dimensional accuracy, easy installation, low maintenance, rust resistance, and durability.

"We place great importance on quality control, and accurate measurements are required at every stage of the manufacturing process," said Davinder

Kumar Dhingra, Owner and Director, Techno Engineers.

### A machine shop's measurement needs

Given the work that Techno Engineers engages in, the team performs measurement tasks frequently for the alignment, calibration, and installation of jigs, fixtures, and gauges that they make. In addition, they also conduct inspections and obtain dimensional calculations of components to ensure that their products meet quality standards before delivery. Previously, the team relied on hand tools such as height masters, height gages, slip-gages, micrometers, and vernier calipers for measurements. While these conventional methods worked, it was very time-consuming. For instance, in the dimensional analysis of a pipe that the team machined, technicians could only access the outer corners of the structure with their tools. In order to inspect portions of the pipe that were further within the structure, Techno Engineers would have to cut the pipe in order to obtain measurements.

Dhingra added, "Back then, the inspection of one product alone would occupy a team of 4-5 people for several days. The accuracy of the results was heavily dependent on the skills of the operator, and there were certain complex structures that our existing gamut of tools were unable to handle. It was not ideal and we were determined to find a better solution."

### Taking the customers' recommendation

On separate occasions, the company's customers — which include familiar names from the automotive industry,

such as Hero, Maruti, and SKH Metals — recommended FARO's measurement solutions to them. While Techno Engineers is familiar with solutions such as fixed coordinate measuring machines (CMMs), the idea of a portable CMM was new to them.

Fundamentally, portable CMMs provide the benefits of fixed CMMs with the added versatility of mobility, which allows operators to deploy the solution wherever there is a need.

In addition to being less cost-prohibitive than fixed CMMs, portable CMMs do not require a controlled environment, making it more cost-effective to operate and maintain them.

When Techno Engineers first reached out to FARO in 2011, the team saw in a demonstration how the FaroArm could help enhance their entire production process, right from design through to manufacture, assembly, and final inspections. The company then decisively invested in a 9-ft FARO® Edge to meet its measurement needs, and the move has enabled Techno Engineers to boost customer satisfaction levels tremendously.

### One tool, multiple applications

Amit Singh, Technical Head, Techno Engineers, revealed, "Our work requires measurements to be performed at every stage of production, whether it's first article inspection, in-process inspection, machine calibration, or alignment. Careful measurements at every step of the way helps us to make sure quality is not compromised at the fundamental level." The team at Techno Engineers utilizes

the FARO Edge in various stages of production at numerous different locations, including its measuring room, shop floor, on-machine, and even off-site at customers' facilities. The single device is also deployed for applications that are vastly diverse.

Typically, the team works with parts that are as small as 10 × 10cm in size, or on SPMs as large as 2 × 1m. The corresponding weight range of these objects is relatively wide, from as light as 100g to about 1 metric ton (1,000kg). Despite the diversity in object size, weight, or shape complexity, the portability of FARO Edge allows inspection checks on these objects to be easily completed.

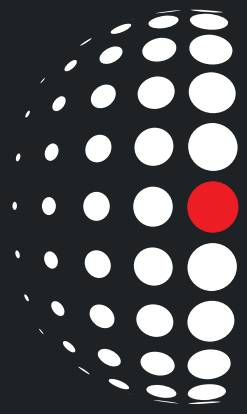
Operators no longer have to worry about moving a bulky, heavy object to a measuring room, or about finding a suitable hand tool that can accommodate the piece being checked.

Moreover, measurements taken with the Edge are much more precise and accurate than those obtained with conventional methods, enabling Techno Engineers to provide readings with tolerance of 20 microns.

In addition, the FARO Edge allows Techno Engineers to conduct CAD-based inspections in the final stages of production, just before products leave the plant. Singh stated, "We compare measurements of our components against original CAD data to check for any deviations. Any corrections that need to be made readily shows up on screen, and we can immediately zoom in to fix the problem areas. Until we are 100 percent satisfied with the quality, the part does not leave our plant."



The FARO Edge's infinite rotation allows users to measure anything — even hard-to-reach spots or awkward angles.



CHENNAI

TM

# MACHINE TOOL EXPO

2019

26 - 29 September 2019

Chennai Trade Centre, Chennai

India's most recognised regional machine tool expos

Delivered by the organizer of



Organiser



Indian Machine Tool  
Manufacturers' Association

Media Partner



[www.mtx.co.in](http://www.mtx.co.in)



# 200<sup>+</sup> FOCUSSED TRAINING PROGRAMMES

**Design**  
**Productivity**  
**Quality**  
**Automation**



**Maintenance**  
**Metal Forming**  
**CNC Machining**  
**Emerging Technologies**

@ Bangalore, Pune & Gurgaon



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



**IMTMA Technology Centre**  
Indian Machine Tool Manufacturers' Association