



An AIEMA Initiative

**15 - 19 June 2023**

Chennai Trade Centre, Chennai, India

**THEME: SMART MANUFACTURING****DAY 5 • 19 JUNE 2023, MONDAY****MACHINE TOOLS****FOCUSED ON PRECISION**

To leverage the most out of ACMEE 2023, AceMicromatic Group has strategically selected products that emphasize innovation, technology, and automation for its target customers. The company aims to create memorable experiences for attendees by offering interactive displays, live demonstrations, and comprehensive post-sales services.



Source: Magic Wand Media

The ACMEE show offers an ideal platform for the Group to meet potential customers from its target industries. Chennai, the host city of ACMEE, is a major hub for automobile manufactu-

ring, electrical machinery, and light engineering goods. The diverse industries present in Chennai align well with the wide range of CNC solutions offered by AceMicromatic Group. "With more than 400 participating

companies and an expected foot-fall of over 40,000, ACMEE provides a conducive environment for building relationships, networking, and showcasing products tailored to specific customer segments," says Yogasundaram

M, Regional Head – Operations (Tamil Nadu), Micromatic Machine Tools Pvt Ltd.

*To be continued on 3 ▶*

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Turret Punch Press

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### An array of displays

At ACMEE 2023, AceMicromatic Group is displaying the following products –

**CNC Turning Centers from Ace Designers Ltd:**

- Jobber Evo JE06LM • Sliding Headstock SHA20 Magna
- Chucker SLC16LM

**CNC Machining Centers from Ace Manufacturing Systems (AMS):**

- VMC 740V DM • Drill Tap Center DTC500L XL • Horizontal Machining Center MCH400XL

**Grinding Machines from Micromatic Grinding Technologies (MGTL):**

- PLUTO 18

**Sheetmetal Solutions from Sinar Sheetmetal Solutions Pvt Ltd:**

- Laser Cutting Machine LCM3015 EC-O

**Special Purpose Machine from Taurus Pvt Ltd:**

- Circular Saw SPM HCS80
- Additionally, • Industry 4.0 solutions from AmiT • Complex and intricate components manufactured using 3D Metal Printing from Amace • A gamut of services offered under Micromatic 360 • Products and Services offered through the Group's Ecosystem partners and • Services from



**“With more than 400 participating companies and an expected footfall of over 40,000, ACMEE provides a conducive environment for building relationships, networking, and showcasing products tailored to specific customer segments.”**

**YOGASUNDARAM M**  
**Regional Head – Operations (Tamil Nadu)**  
**Micromatic Machine Tools Pvt Ltd**

its Tech Centers, are also part of the display.

### Exhibitions continue to be valuable

When asked to comment on the changing role of trade fairs in contributing toward lead generation and sales, Yogasundaram says, “With advancements in technology and changing customer behavior, the role of exhibitions has now been evolving. Exhibitions are no longer the primary source of information catering to a general customer segment. Instead, they have become focused where innovative products and prototypes are showcased, and discussions are in-depth. Customers research and compare options, which, in turn, affects the number of leads generated but the quality of

leads has improved leading to targeted lead qualifications.”

“Integrating digital strategies, personalized experiences, and relationship-building help maximize the benefits derived from participating in exhibitions,” he adds.

### Group's help in serving emerging sectors

The Indian machine tool industry has been gearing up to address various challenges coming in from new industry sectors like electric vehicles, aerospace, and defence. “The current focus has been to improve machine tool efficiency, precision, and automation. These sectors have exposed the machine tool industry to component materials like super alloys, aluminum alloys, and composites. These new

materials address the light weighting requirements,” Yogasundaram. The Indian machine tool industry has overcome this challenge by developing machine tools that can handle these new materials while ensuring high precision as well as reducing energy consumption. “MCV Series from AMS addresses these unique requirements by having structural components made of Cast Iron and designed to perform under demanding working conditions and component complexities,” informs Yogasundaram. Complex components in electric vehicles, aerospace, and defence also require intricate geometries. This requires machine tools to have multi-axes to machine such components. 4+1 axes machines like Ace Designers' AMT-i 1500S that has a B axis capability with a swivel of +/- 120 degrees with a minimum indexing increment of 0.0001° is developed to enable simultaneous machining from multiple angles, reducing setup times and improving accuracy.

**Micromatic Machine Tools Pvt Ltd**  
[www.acemicromatic.net](http://www.acemicromatic.net)  
**Hall & Stall: AMS/A-100 & A-101**

GEAR CUTTING & MEASURING EQUIPMENT
DO-3I PC FROM GEARSPECT

Source: Gearspect India Pvt Ltd



Gearspect India Pvt Ltd  
[www.gearspect.com](http://www.gearspect.com)  
Hall & Stall: SIDBI/C-52

The DO-3i PC is a measuring instrument designed for comprehensive testing of geometric deviations in spur involute gearing. It accurately assesses pitch, profile, helix angle, radial run-out, and dimensions, with scanning and evaluation performed through a connected PC. The instrument has a maximum measured wheel diameter of 180/280 mm, a minimum pitch circle diameter of 10 mm, a module range of 0.5 to 15 mm for the measured wheel, a maximum tooth helix angle of 40°, a maximum gear width of 350 mm, and a distance between centers of 700 mm.



DIAMOND DRESSERS
DIAMOND PRECISION REDEFINED

Balaji stationary diamond dressers are of single- and multi-point types used in a variety of applications like CNC grinding, surface grinding, cylindrical grinding, centerless grinding, gear grinding, internal grinding, profile grinding, etc.

The diamond dressers are manufactured with select high-quality natural diamonds, natural diamond grits, and CVD and SCD raw materials to deliver the highest level of consistency in terms of finish and to maintain a high degree of dimensional accuracy. The company also offers customized solutions to meet specific customer requirements.

The selection of the type of stationary dressers depends upon the job parameters and other critical factors like tolerance, finish, and tool life. The CVD and SCD dressers are employed for their advantages including excellent thermal stability, high wear resistance to chipping and fracture, uniform wear resistance, and performance independent of dressing orientation.

Balaji Diamond Tools  
[www.balajidiamondtools.com](http://www.balajidiamondtools.com)  
Hall & Stall: D-4

EXPANSION BELLOWS
RELIABLE SOLUTION FOR THERMAL EXPANSION

ZAKFLEX SS expansion bellows are made from high-quality stainless steel that is designed to withstand extreme temperatures and corrosive environments. Their flexible design allows them to compress or expand in response to temperature or pressure changes, helping protect a piping system from stress and damage.

One of the key benefits of ZAKFLEX SS expansion bellows is their ability to absorb vibration and noise in piping systems. This can lead to improved performance and lifespan for one's piping system and a more comfortable working environment for their employees.

The company experts can help select the right SS expansion bellows for one's specific application, taking into account factors such as operating temperature, pressure, and corrosive environment. With a variety of sizes and styles to cater to specific requirements, their product selection guarantees long-term protection for piping systems.

AA Expansion Joints Pvt Ltd  
[www.aaexpansionjoint.com](http://www.aaexpansionjoint.com)  
Hall & Stall: C-101

LASER CUTTING MACHINES
FOR A PERFECT CUT

GMT Engineers Pvt Ltd installs high-quality CNC Fiber Laser Cutting machines. The machines are installed in bed sizes of 3000 x 1500 mm to 6000 x 2500 mm and are equipped with laser sources ranging from 1 kW to 6 kW. In combination with CNC Press Brakes, which are offered in various tonnages and sizes, the company's comprehensive product line has garnered repeat orders from numerous satisfied customers; some have installed four CNC Laser Cutting machines in their plants and certain other customers have over the last 3 decades installed 16 machines in one plant.

The Laser machines are renowned for their consistent performance, exceptional accuracy, reliable repeatability, and comprehensive application support. GMT Engineers also offers excellent after-sales service to its clients and training to the operators to know the application and maintenance of the machine.



GMT Engineers Pvt Ltd  
[www.gmtengineers.com](http://www.gmtengineers.com)  
Hall & Stall: A-48



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## LED WORK LIGHTS BRIGHTENING INDUSTRIAL SITES


Qlight has been a world-leading provider of visual and audible status-indicating systems and solutions for the last three decades. It prides itself in developing products that help its customers' improvement, productivity, safety, and quality control in industrial automation and commercial improvement.



Source: Acme Switchgears

**Acme Switchgears**  
[www.acmeswitchgears.in](http://www.acmeswitchgears.in)  
Hall & Stall: Mells/E-13

Qlight's products are certified by the International Quality Management System (ISO9001), IECEX, ATEX, UL, CE, Lloyd, KIMM, and KOSHA.

Qlight has been contributing to industrial safety and efficiency by producing various signaling devices and industrial LED lights since its founding in 1986. Based on the core technology of LED light source, heat dissipation, explosion-proof structure, and a number of technical patents, Qlight has been recognized for quality and technology in various industries. It is leading the innovation of the manufacturing industry through the wide global networks of more than 80 countries, brightening industrial sites around the world. 


## HANDLING SYSTEMS BINAR QUICK LIFT RAIL

Vacuum specialist Schmalz has acquired the Swedish company Binar Handling AB and its four subsidiaries in Europe and Asia, strengthening its market position in ergonomic handling technology. Binar Handling manufactures handling systems for loads weighing up to 600 kg.




Source: Schmalz India Pvt Ltd

**Schmalz India Pvt Ltd**  
[www.schmalz.com](http://www.schmalz.com)  
Hall & Stall: G-12

The rail systems are available in Quick-Lift Rail (QLR) and Quick-Lift Driven (QLD). Quick-Lift Rail is a rail-mounted equipment with manual movement in the X and Y axes with rail. Vertical lifting from 50 to 600 kg can be done using QLR and it is very smooth when using the company's precision control handle. QLD is mounted to the ceiling or floor rails and offers unique motor-assisted operation on the X and Y axes, following even the most minor movements of the operator. This helps maintain a high speed over long distances without strain. This is an optimum solution when working in a large area. 

## HYDRAULIC FITTINGS SOURCING FROM THE BEST

Minerva Hydro Pneumatics is a renowned organization engaged in supplying and trading of premium quality range of Hydraulic Valves, Pumps, Hoses, Hydraulic fittings, Pneumatic accessories, 'O' rings, Oil seals, Hydraulic Cylinders, Seal kits, Filters, Vee belts, Timing belts, Compressor and Spares, Lubrication Spares etc. It is an authorized dealer of Top Hydrofit, a leading manufacturer of Hydraulic Fittings and Falcon Hydro Tech, a manufacturer of high-pressure hydraulic valves and couplings. 

**Minerva Hydro Pneumatics**  
[www.minervahydro.com](http://www.minervahydro.com)  
Hall & Stall: C-67



Source: Manav Marketing Pvt Ltd

**Manav Marketing Pvt Ltd**  
[www.manavmarketing.com](http://www.manavmarketing.com)  
Hall & Stall: B-130

## CNC MACHINE TOOLS CELEBRATING MILESTONES AT ACMEE

Manav Marketing Pvt Ltd proudly commemorates its 30<sup>th</sup> anniversary, marking three decades of excellence, growth, and success. The company is offering various cutting-edge CNC technologies at a special price at ACMEE 23 as part of its celebration.

It specializes in the marketing and service of imported CNC Machine Tools and Cutting Tools with a portfolio that includes a wide number of brands such as Haas Automation, Mikron, CHMER, Nakamura-Tome, Ethereal, Hexagon Metrology, and many more.

At ACMEE 23, the company is displaying three technologies – Haas VF-2I VMC from Haas Automation, GX 430 LAE linear drive Wirecut EDM from CHMER, and AS-200 MY, a high-precision multitasking machine from Nakamura-Tome.

One can also experience live cutting demonstrations and witness some of the precisely finished components displayed during the show.

With over 4,500 machines installed in South India alone, Manav Marketing aims to provide state-of-the-art technologies to all its customers. 

## GASKETED PLATE HEAT EXCHANGERS FOR SWITCHING TEMPERATURES

Varalka Engineers is in the field of Gasketed Plate Heat Exchangers, Laser Welded Plate Heat Exchangers, and Aluminum Bar and Plates Coolers, which are widely used for various industrial heating and cooling applications.

Its manufacturing facility in Gurugram is approved by ISO 9001:2015 Quality Standards and its sales offices are in Delhi, Chennai, Baroda, Bangalore, and Pune. Varalka makes Gasketed Plate Heat Exchangers in technical collaboration with SRP Heat Exchangers that has manufacturing facilities in Taiwan and Germany. 



Source: Varalka Engineers Pvt Ltd

**Varalka Engineers Pvt Ltd**  
[www.varalka.com](http://www.varalka.com)  
Hall & Stall: B-44

CORPORATE  
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GIFTS MATTER

Staufa specializes in providing exceptional corporate gifting solutions to help businesses strengthen relationships with their clients, employees, and partners. The company's mission, it claims, is to create meaningful and memorable experiences through its carefully curated gift offerings.

Whether one needs gifts for a specific event, a large-scale gifting program, or individual occasions, Staufa ensures timely delivery to any location, locally or internationally.

Staufa Enterprises  
Hall & Stall: SIDBI/C-19

ETHERCAT-ENABLED PLC  
THE EASY SERIES PLC

The Easy Series PLC offers a high-performance and compact solution for automation needs. With EtherCAT capability, it provides seamless integration and communication in industrial applications. The compact footprint allows easy installation and space-saving in the control panel. From simple to complex motion control, it offers a complete product range to meet diverse automation requirements. Its other features include:

- PLC Open Compliant Axis Control
- Simulation Mode
- Real-Time Fieldbus
- Axis Group Functionality
- Function Block and Function Support
- Push-In Terminal
- Built-in Ethernet Port with Switch.

The Easy Series PLC supports various programming languages, including ST, LD, and SFC, providing flexibility in programming approach. The Type-C port serves as a programming port, supporting program transfer. It offers support for various communication protocols, including Modbus RTU/TCP, CANopen (optional), and Ethernet/IP (scanner), ensuring seamless connectivity with different devices.



Franc Automation and Drives  
www.francautomation.com  
Hall & Stall: F-19

Source: Franc Automation and Drives

COLUMN MOVING FAST  
MACHINES  
TACHYON 5 FROM JYOTI

The TACHYON is an innovative and one-of-a-kind column moving fast machine designed specifically for applications that demand high-speed drilling and tapping on a continuous production line that requires precision component output in mass. It introduces a unique concept of base and column structure, where all the moving axes are concentrated on the column.

TACHYON has its integral workpiece changer, which operates seamlessly without any pneumatic or hydraulic systems. Equipped with a powerful 10,000 rpm direct coupled spindle, the TACHYON offers rapid acceleration with a ramp-up time of less than 1 second. Its high-speed rapid motion capability of 60 m/min enhances overall efficiency. Additionally, it features a fast Twin-Arm Automatic Tool Changer (ATC) with 16 stations, boasting an impressive tool change time of only 1 second.

The TACHYON finds applications in industries such as automobile, medical, and electronics, where rapid drilling and tapping operations are paramount.



Jyoti CNC  
Automation Ltd  
www.jyoti.co.in  
Hall & Stall: B-122

Source: Jyoti CNC Automation Ltd

Vox Pop

ACMEE: THE IDEAL PLATFORM  
FOR SOURCING SOLUTIONS

Let's hear from the visitors of ACMEE 2023 as they share their experiences and insights from this highly coveted event.



M Ramadoss  
Weldone  
Technocrats

"I have been involved in the press tools and pressed

components business. ACMEE has been a regular event for me for the last 20 years. This year, I have noticed an increase in the number of stalls at the exhibition. I must acknowledge that the overall arrangement of the event is excellent. I hope to see new technologies and innovative solutions in the next edition of ACMEE."



R Ananthakrishnan  
Deputy Manager  
UCAL Fuel  
System Ltd

"We find this exhibition to be

extremely valuable for our business. We have come across several machine tools that would greatly benefit our operations. I have taken detailed notes and gathered literature from these companies. Additionally, I have come across some innovative spare parts that have caught my attention. Being located in Chennai, we recognize the immense benefits of such diverse exhibitions for local businesses like ours."



R Balakrishnan  
Head - Trading  
Cetex  
Petrochemicals  
Ltd, Chennai

"ACMEE is an excellent

platform for expanding knowledge. As someone from the petrochemical industry based in Chennai, I was particularly intrigued by the opportunity to explore new types of lathes and drilling machines. Today, I had a satisfying visit to those stalls, gathering valuable information. Tomorrow, I plan to focus on collecting information from the automation companies. All in all, I find this exhibition to be highly worthwhile and beneficial."



Shivakumar  
Design Engineer  
Jays SPM Pvt  
Ltd, Trichy

"My main purpose for attending

ACMEE was to explore cutting tools and automation, and I must say it has been a fruitful experience. I have discovered numerous options here. I appreciate the well-organized arrangement of the exhibition, particularly the strategically placed stall indicators that have saved me time. Additionally, this exhibition has provided me with valuable insights into the potential of IT and automation in our industry."



**PRESS BRAKES****ALL-ELECTRIC BALL SCREW PRESS  
BRAKE BB4013**

Source: Meiban Engineering Technologies Pvt Ltd




Muratec BB series AC Servo Press Brake realizes high productivity and high precision due to AC Servo Motor Technology. RAM Shaft drive enables high-speed movement at 100 mm/sec and a stable repeat-stop accuracy by adopting a ball screw drive mechanism by AC Servo motor and ball screw drive. This drive mechanism is superior in environmental performance as it is oil-less and comprises a noise reducer. The consistent repeat stop accuracy (repeatability)

makes BB Series machines highly accurate.

The machine comes in 3 different models: BB4013, BB6013, and BB6020.

It comes with a large-sized operation panel (22" wide display), a newly developed MOS (Muratec Operating System), which has a completely redesigned UI (user interface), and a newly developed Advanced Ram Acceleration Control (ARAC) technology.

Additionally, BB4013 comes with a high rigidity offset frame which permits the back gauge to be used up to the full machine length, enabling step bend. The machine also comes with a high-precision back gauge. 

**Meiban Engineering Technologies Pvt Ltd**  
[www.meibanengg.com](http://www.meibanengg.com)  
Hall & Stall: B-86

**ROTARY TABLES**  
**USSR-200qTN**

UCAM's USSR-200qTN rotary table, a standout from UCAM's new Q series, is the perfect choice for heavy-duty operations. Boasting a sleek design, this rotary table is 30 percent lighter and more compact compared to traditional rotary tables, making it a seamless addition to one's machining operations.


The USSR-200qTN is equipped with dual-lead worm technology. It can be custom-built to offer exceptional rigidity and heightened positioning accuracy, thus ensuring ultra-precise machining. These superior features enhance machining operations, significantly improving one's machine's acceleration and deceleration capabilities and reducing both setup and machining times.

In addition to being user-friendly and easily adjustable, this solution is maintenance-friendly and offers convenient



Source: UCAM Pvt Ltd

mounting of servo motors, ensuring hassle-free operation and upkeep.

UCAM's rotary tables are designed to deliver excellence and superior performance with improved reliability. 

**UCAM Pvt Ltd**  
[www.ucamind.com](http://www.ucamind.com)  
Hall & Stall: A-60

**CARBIDE ROD CUTTING MACHINES**  
**CUT LIKE A PRO**


The Carbide Rod Fully Automatic Cutting Machine is an essential tool for cutting carbide materials, which have become the most common material for cutting tools. When producing cutting tools, the first step is to section the carbide rod to determine the desired length. This allows the cutting tool to be manufactured from the carbide stock through further processing.

Carbide rod cutting is a complex operation that requires specialized machines, blades, and processing techniques. It is necessary for various applications, ranging from small-volume manufacturing to high-volume production of cutting tools. Chennai Metco offers a comprehensive range of carbide cutters to meet different cutting needs, whether it's simple low-volume cutting or high-volume automated cutting.

For simple cutting tasks, manual or automatic cutters are available. These cutters utilize appropriate blades and coolants to ensure effective sectioning of carbide materials. The machines come equipped with coolant delivery systems, work holding devices, and coolant filtering systems to enhance the cutting process.

Source: Chennai Metco Pvt Ltd



In high-volume mass production scenarios, sophisticated automated systems are required. These systems incorporate sensors, auto feeders, and auto cutters with modern PLC-based automation. They provide a total solution for uninterrupted operation and operator safety. Additionally, the machines incorporate various safety features, such as spark suppression, safety modules, fume extractors, and coolant filters, to ensure a safe working environment. 

**Chennai Metco Pvt Ltd**  
[www.chennaimetco.com](http://www.chennaimetco.com)  
Hall & Stall: B-66

**INDUSTRIAL  
METROLOGY &  
AUTOMATION**  
**HIGH-  
PRECISION 3D  
SCANNING  
METROLOGY**

Focus Nano has launched a small, highly compact, high-precision blue laser scanner, Freescan Combo, which utilizes a combination of Blue Laser and Infrared VCSEL technology and achieves precision up to an impressive 0.02 mm. Weighing just 620 g, it offers exceptional portability and ease of use. It has dimensions of 193 mm x 63 mm x 53 mm. 



**Focus Nano Technology**  
[www.focusnanotechnology.com](http://www.focusnanotechnology.com)  
Hall & Stall: SIDBI/C-75

Source: Focus Nano Technology