15th International Machine Tools Exhibition

AIEMA Initiative

15 - 19 June 2023 Chennai Trade Centre, Chennai, India

DAY 4 • 18 JUNE 2023, SUNDAY

AUTOMATION TURNING SOLUTIONS

OFFERING CUTTING-EDGE SOLUTIONS

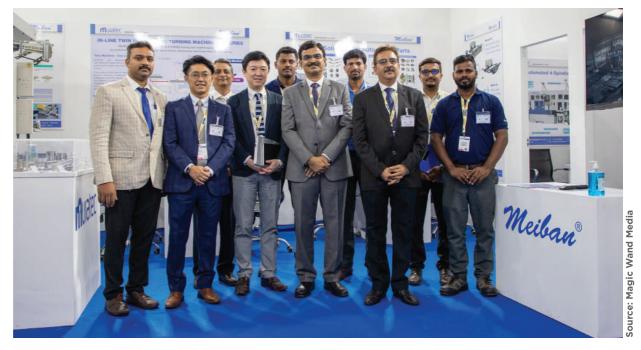
Meiban Engineering Technologies Pvt Ltd, an associate company of Muratec Machinery, Ltd., Japan, has been at the forefront of delivering turnkey automation turning solutions to the Indian automotive industry. By participating in ACMEE 2023 and showcasing its latest machines, Meiban Engineering aims to meet the right set of customers and address the evolving needs of the automotive and non-automotive sectors.

eiban Engineering is eager to leverage the ACMEE 2023 exhibition as an opportunity to showcase its cutting-edge machines. "We are very excited to participate and demonstrate some of the best-in-class machines from Muratec," says AV Srinivasan, CEO, Meiban Engineering Technologies Pvt Ltd.

The company has long been delivering Turnkey Automation Turning Solutions to the Indian automotive industry with Muratec Turning machines and offering Muratec Turret punch presses and Press Brakes in Sheet Metal solutions.

Meeting target customers

ACMEE is viewed by Meiban Engineering as an excellent platform to connect with the right set of customers, especially in the automotive segments of Tamil Nadu.



The region boasts a significant presence of top original equipment manufacturers (OEMs) and

tier-1, tier-2, and tier-3 suppliers. Meiban Engineering recognizes the importance of addressing the evolving manufacturing processes, including machining and

To be continued on 3

Meiban® TURNKEY SOLUTIONS FOR AUTOMATED TURNING OPERATIONS Introduced















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J1

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From page 1

stringent quality requirements driven by emission norms.

At ACMEE 2023, the machines on display include the MW100 CNC Twin Spindle Chucker, ML400 Shaft Turning Machine, and BB 4013 AC Servo Press Brake. These machines, equipped with advanced servo gantry loaders, exemplify Meiban Engineering's commitment to delivering state-of-the-art solutions to its customers. Moreover, to emphasize the importance of the exhibition, a team from Japan is also present during the event to provide valuable insights and support.

Meiban's core expertise

Established in 2005, Meiban Engineering primarily operates in the turning and turn-mill sectors of the automotive and non-automotive markets. Its core area of expertise lies in delivering turnkey automation solutions that enable unmanned operation 24/7. It has recently introduced two remarkable machines: the Muratec Multi-Tasking Machine MT200 and the Twin Spindle CNC Chucker MW80. The MT200 is a multitasking machine designed



"We are preparing our solutions and deliveries of turnkey automation to cater to the automotive and non-automotive segments of this market. The key to success here would be timely delivery and appropriate solutions. We are strengthening our capability in turnkey solutions and localizing more in the engineering area."

AV SRINIVASAN CEO **Meiban Engineering Technologies Pvt Ltd**

for medium to high-volume production, capable of machining complex parts. With twin inline spindles and two or three turrets, this machine caters to both automotive and non-automotive markets. On the other hand, the MW80 is a twin-spindle CNC chucker equipped with a highspeed gantry loader and gang toolings/linear toolings. The main spindles are the built-in type with a max rpm of about 8000 rev/min. It is specifically suitable for hard part turning.

The company takes pride in introducing the Muratec Robot System SL2512, which serves as an efficient and cost-effective solution for Turret Punch Press machines. "This is entry-level automation for loading and unloading sheet metal to the machine. Our customers can run the process unmanned by CNC programming and scheduling. It significantly saves manual labor and downtime and brings in consistency to the loading/unloading operations. It is a servodriven swing arm type loader, and it comes with pneumatic gripping suction pads and 2 sheet detector as standard. The table storage capacity is 3 tonne," informs Srinivasan.

Automation is pivotal

To optimize manufacturing operations, Meiban Engineering leverages automation and digital solutions extensively. Muratec's turning machines, renowned for their builtin automation, provide 24x7 productivity, especially in high-volume requirements such as the automotive industry. Meiban Engineering also offers automation solutions for multi-tasking machines, catering to both batch production and highvolume production scenarios.

The company has several projects and plans in the pipeline to strengthen its position in the manufacturing industry. With a focus on turnkey automation solutions, it aims to further enhance its offerings and expand its customer base. By staying at the forefront of technological advancements and market demands, Meiban Engineering continues to provide innovative solutions and drive the growth of the Indian manufacturing industry. 🥸

Meiban Engineering Technologies Pvt Ltd www.meibanengg.com Hall & Stall: B-86

Source: Ace Designers Ltd



ACE PRODUCTS

ACING IT ALL

ce Designers is the largest producer of CNC lathes in India. It has installed over 75,000 machines globally. The company has the right range of high-volume products and a complete basket of appropriate products for multiple segments. It has created a huge infrastructure to address the needs of large-volume products and low-volume special requirements.

ACMEE has always been a special place for Ace Designers to showcase its products and technology innovations. In this

edition of the show, it is displaying the below products.

JE 06 LM

The Jobber Evo, the next generation of the Jobber Series, has been specifically designed and developed taking inputs from the company's valued customers. JE 06 is a horizontal 2-Axes Turning Center with a turning length of 300 mm measured from the chuck's jaw face and maximum turning diameters up to 320 mm. It also features a heavyduty hydraulic turret and a step-up construction offering higher rigidi-

> ty. With the option of Linear Motion Guideways (Ball or Roller) or Hardened and Ground Box Guideways and capable of delivering power

> > of 5.5 kW (continuous) / 7.5 kW (15 min), the machine has the versatility of fulfilling a wide range of turning needs.

Ace Designers Ltd www.acemicromatic.net Hall & Stall: AMS/A-100 & A-101

SLC 16 LM / M

SLC 16 LM is a 2-Axes Flat Bed horizontal CNC Turning Center designed primarily for small-sized disc-like (chucking applications) components. SLC 16 LM is capable of delivering power of 5.5 kW (continuous) / 7.5 kW (15 min) and comes standard with a chuck size of 165 mm and Table Mounted Gang Tooling. Alternatively, an 8-station BTP-63 Turret, Polygon Attachment or Single Live Tool Attachment with C Axis can be offered optionally.

SHA 20 Magna

SHA 20 Magna is designed specifically to bring high productivity in machining small-sized components. This machine is available in 5, 6 or 7 axes configuration which includes Y2 Axis. Equipped with a powerful compact built-in motor for the main and subspindle with the oil-cooled headstock, this SHA model is capable of delivering high productivity at great precision. 🥸

INJECTION **MOLDS AND PLASTIC PRODUCTS SETTING NEW STANDARDS**

Radiant Design is a pioneer in building Injection Molds for a variety of sectors including medical, automobiles, home appliances, and toys. The company's capabilities include concept to production, thus offering end-to-end solutions to its customers. It offers Mold making and Plastic production services globally. It is a processdriven company and its cross-functional team enables it to achieve a common goal of delivering top-notch, high-quality tools for production. 🥸

RDes Engineering Pvt Ltd www.radiantdesign.in Hall & Stall: C-40

WORKHOLDING SYSTEMS GRIPPING IT FLEXIBLY

FlexGrip High Precision Workholding System is exclusively designed and manufactured in India by Adept ProSign Pvt Ltd. This range of products is based primarily on Segmented Rubber Vulcanized Collets and Expanding Sleeves and the corresponding Collet Chucks and Expansion Mandrels. The range covers an extensive portfolio of products for ID & OD clamping in Stationary/Rotating as well as Pull Back/Dead Length configurations. These products find application in CNC Turning/ VMC/HMC/Grinding/Gear Machining/Other Special Purpose machine tools. 🥸



FlexGrip (Adept ProSign Pvt Ltd) www.flexgrip.in Hall & Stall: B-164

PRECISION MEASURING INSTRUMENTS

FOR A STEADY SUPPLY

DASOUA and HARLINGEN are prominent brands with headquarters in Lodi, Italy, and two additional fulfillment facilities in Los Angeles and Shanghai. Tradelinkers is the authorized agent for the two brands in India. DASOUA is a world leader in the supply of precision measuring instruments like Vernier Calipers, Micrometers, Gauges, etc. HARLINGEN brand has been supplying various metal cutting tools and tool-holding parts with reliable quality to the industrial fields since the early 1980s. 🥸

Tradelinkers www.dasquatools.com Hall & Stall: B-161

MACHINE TOOLS AUTOMATION WITH CUSTOMIZED OPTIONS

Amech India specializes in multi-slide forming machines, high-speed press machines, progressive tooling, process automation, customized projects, spring coiling, forming and bending machines, training, installation, and service support.

Its machines are unique and have a compact design. The German-made CNC, Servo, and Electronics system allows 4-5 machines to operate simultaneously. Other features include low power consumption, space saving, lower maintenance, repeatability, and durability.



Amech India www.amechindia.com Hall & Stall: G-05





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MACHINE TOOLS

COMMITTED TO EXCELLENCE

S&T Group takes pride in delivering cutting-edge and precise machine tools to a wide range of industries. At ACMEE this year, it endeavors to showcase its latest offerings, demonstrate its technological prowess, and engage in insightful dialogue with industry experts and potential customers.



CMEE 2023 holds great significance for S&T Group as it provides a perfect platform to showcase its expertise and a wide range of machining solutions in the machine tool industry. "Chennai, known for its thriving manufacturing sector and robust industrial base, offers a conducive environment for us to connect with industry leaders, potential

clients, and technology enthusiasts," shares T Venkatesan, Vice President, S&T Group.

The city's flourishing automotive industry and the emerging EV sector is another motivation to partake in ACMEE as the company specializes in providing solutions for Tool Room Machines, Precision Machining, Component Production, and Assembly Lines, making it well-equipped to meet the specific requirements of the auto industry. The aerospace and defence sector in Chennai is also experiencing a boom and presents a valuable opportunity to Indian machine tool manufacturers, including S&T Group.

"In addition to the automotive and EV sectors, ACMEE also attracts participants from the mobile manufacturing industry," he adds.

Innovations displayed

From SENFENG, S&T has featured its Fiber Laser Cutting Machines that offer high precision and efficiency in cutting various materials. The Excetek EX400 CNC Wire Cut EDM machine on display is proving its capability in precision cutting applications. In addition, there is a live demonstration of SKITEK Surface Grinding and Bending Machines and SKITEK SR400S CNC

Wire Cut EDM machine and Conventional Milling Machine, highlighting their versatility and accuracy. As a proud 'Make in India' manufacturer, S&T Machinery is showcasing its cutting-edge machines. The VL1050 VMC is featuring its high-speed performance and excellent machining capabilities. The VD510 Compact Machining Center's efficiency in small-scale machining operations can be witnessed. S&T's new launch, the STM EGA2550 CNC Angular Cylindrical Grinding Machine, is also being unveiled.

S&T Machinery Hall & Stall: A-77 **S&T Engineers** www.stgroup.co.in Hall & Stall: A-62

INTEGRAL JUNCTION BOXES ALUMINUM & PVC TERMINAL BOX

The aluminum terminal box is an integral junction box with terminals located inside the box. Jeet Engineering Store's aluminum terminals are manufactured from aluminum with a standard rating of 10 Amp to 250 V and painted in exterior gray. Aluminum terminal boxes are packed with polyurethane gasket foaming, just like the company's aluminum boxes, providing excellent



Jeet Engineering Store www.jeetengineeringstore.com Hall & Stall: ITC/F-20

waterproof and dust proofing, and are used in a wide range of industrial machinery, robotics, commercial wiring, and low voltage control systems.

Plastic terminal boxes use flame retardant ABS and are suitable for sensors, limits S/W, V/V BOX, and various kinds of intermediate terminal boxes. Assembling existing prefabricated terminals and boxes is not a hassle. It maximizes productivity with all-in-one production and saves resources so that they can be used more practically and safely. 🥯

SME ERP SAP BUSINESS ONE

eNoah iSolution India Pvt Ltd www.enoahisolution.com

eNoah, an SAP Business One Partner, helps SMEs implement, support, and run the SAP Business One solution that best fits their business needs. eNoah delivers exceptional ERP expertise and personalized solutions, empowering businesses with seamless implementation and ongoing support to maximize operational efficiency and fuel growth.

SAP Business One provides integrated tools for streamlining key business processes, including accounting, sales, purchasing, production, MRP, quality, subcontracting, plant maintenance, customer relationship management, inventory management, and project management.

With its user-friendly interface and scalability, SAP Business One empowers SMEs to optimize operations, gain real-time insights, and make informed decisions, ultimately driving growth and competitiveness in the market.

DISC SPRING EMPOWERING MACHINES

International Industrial Springs offers Disc Springs with special sizes and load ratings with the widest material options. They are manufactured using special processes which reduce edge stresses leading to machine uptime. Group 1 and 2 Disc Springs are Austempred. This method of Heat Treatment is particularly effective for High Fatigue Disc Springs. Group 2 and 3 Disc Springs are 100 percent machined and checked for OD, ID, and Height using gauges. IIS Disc Springs can be used as single or arranged in stacks. The stacks can consist of Disc Springs either used in Series or Parallel Sets. Disc Springs are available with or without contact flats.

The company has an in-house Tool manufactu-



International Industrial Springs www.internationalsprings.com Hall & Stall: C-41

TURNING CENTERS

GIGATURN I FOR TOUGH MATERIALS



state-of-the-art machine is equipped with distinctive features to enhance turning operations. With a maximum turning diameter of 510 mm and a turning length of 590 mm, this machine can handle a variety of turning operations with ease. The machine is equipped with an A2-11 spindle and 18-inch chuck, making it ideal for working with large workpieces. With spindle power ranges from 15 kW to 30 kW, this machine can handle even the toughest of materials and produce high-quality finished products.

Source: Lakshmi Machine Works Ltd

The 12-station hydraulic turret provides stable cutting, ensuring efficient and precise results. This machine also boasts roller LM guideways on all axes, delivering exceptional accuracy. Gigaturn offers enhanced chip disposal capacity in addition to powerful cutting capacity.

Gigaturn can be optimized for the machining of aluminum alloy wheels with necessary work holdings and accessories.

Lakshmi Machine Works Ltd www.lmwcnc.com Hall & Stall: LMW/B-72

MOLD DESIGN, MANUFACTURING AND ASSEMBLY

INNOVATIVE SOLUTIONS FOR MOLDING INDUSTRY



Tooling experience in India and overseas, Saro Technologies is here to play as an import substitute to cater to the precision molding industry in the country. *Turn Key Solutions:* The company offers innovative solutions, right from Product Design, Prototyping, Mold Design, Mold Manufacturing, Plastic Injection Molding, and Sub Assembly of Molded Components.

Robust Mold Design: Saro Technologies is equipped with an in-house team of mold designers with a vast experience in hot runner molds, multi-cavity, insert molds, and family molds.

Machine Shop: The world-class machine shop houses renowned Hi-tech CNC tool room machinery from Charmilles, Sodick, Fanuc, and Haas

Automation in VMC and EDM: Electrode machining with the Erowa system enables the company to achieve faster setting time, repeatability, and precise quality in VMC and EDM. Thus, resulting in a shorter lead time to deliver molds as per the committed time plan to its customers.

Saro Technologies www.sarotechnologies.in Hall & Stall: C-76

FINANCIAL INSTITUTIONS SHOWCASE SUPPORT FOR INDIAN MSMES

With the aim to alleviate funding challenges and promote growth in the manufacturing sector, ACMEE 2023 has come up with an initiative of assembling financial institutions to connect with exhibitors and visitors alike, showcasing their innovative financial solutions.





Venkat, General Manager, EZLEASE, elaborated on their support for Indian MSMEs, stating, "When customers face fund shortages despite having a ready machine, we step in to assist. We purchase the machine on their behalf, with a small deposit, and they can utilize it through a rental arrangement. After five years, we offer them the opportunity to purchase the machine at a subsidized rate.

Alternatively, we find new parties interested in renting the machine." Ashwin Kumar S, Deputy Manager, Retail Lending, Axis Bank, informed, "To support the growth of MSMEs, we offer loans up to INR 10 lakh without requiring collateral security. Moreover, we provide simplified templated products for working capital and term loan facilities, guaranteed by CGTMSME, up to INR 1.00 crore to MSE borrowers."

Shrenivasan RA, Manager BUB Sales RM, Federal Bank, shared, "In case of a new enterprise, where no prior ITR is available, our investment is based on the self-declaration of the promoter of the enterprise and such relaxation shall end after March 31 of the financial year in which it files its first ITR. Additionally, we consider the Udhyam Certificate as a criterion for MSME loans. Federal Bank also facilitates direct transfer of government subsidies to its clients."

TS Vasan, Regional Head – Retail, ICICI Bank and N Karthick, RHS – Wealth & Trade, ICICI Bank, said, "We provide loans to MSMEs and startups without any collateral based just on their Monthly Average Balance."

Anburaj C, Deputy General Manager (Branch Incharge – Chennai), SIDBI,

shared, "In Chennai alone, we serve 30 to 40 MSME customers daily. We focus on three years' balance sheet before committing to any loan."



T Sivanesan from Sundaram Finance Ltd, Chennai, handing over a cheque of INR 1 crore as a loan to a customer at ACMEE 2023 show.

ource: ACMEE

INTERNATIONAL BUYER-SELLER MEET

BROADENING HORIZONS









CMEE 2023, in a pioneering move, has introduced an International Buyer-Seller Meeting platform, offering a dedicated space for buyers and sellers to connect and engage. Coordinated by EEPC India and supported by the Ministry of Commerce, Government of India, this program aims to facilitate international buyerseller interactions, foster business collaborations, and drive growth in the machine tools industry.

Leslie Mensha Asare, the representative from Consume - ATE International Ltd. in Ghana, expressed his excitement about attending the meeting for the first time. "As a

mechanical engineer with expertise in food processing, I am keen on exploring opportunities to source high-quality equipment for my own setup, which focuses on converting raw materials into final products," he said.

Sharing his intention to import machinery from India to meet the demands of the challenging economic environment in his home country, Hyo-Seok Yang, Manager, JL Trading Co. Ltd., from South Korea, said Indian machines are reputed for their quality and affordability and he is eager to expand his sourcing efforts from India. His interest exemplifies the cross-border collaborations and the global appeal of Indian machinery within the industry.

Ishara Lahiru Amarsinha, Owner, Ishara Auto Service & Motors, talked about his focus on sourcing air pumps and vacuum pumps for his unit. "Although I explore sourcing options from various countries, India is close to my own country, making it a convenient and promising choice," he added.

Expressing her interest in exploring the reputed quality of Indian machinery, Damayanthi Kulathunga, Project Manager, Dynamic Constructions International Pvt Ltd, in Sri Lanka, said, "Being in

the construction industry, I am keen on viewing construction machinery and purchasing pipe manufacturing machinery. Additionally, our company requires high-quality motors."

Sonungul Usupova, Marketing Specialist, www.xcmg1.kg in Kyrgyzstan, represents the Oil & Gas sector and is interested in various types of machinery. "Language barriers have posed a challenge in initiating discussions with some parties. The exhibition otherwise provides a comprehensive showcase of diverse machinery under one roof. We hope to establish valuable contacts during the event," he said.

VERTICAL TURNING LATHES

VTL 400 FOR HEAVY COMPONENTS

Introducing the VTL 400, a recent addition to Jyoti CNC Automation's VTL Series. This cuttingedge machine is specifically designed to meet the demand for turning hefty, large-diameter components, resulting in reduced cutting time and delivering consistent, stable machining performance and high-quality surface finish.

The VTL 400 is the top choice when it comes to mass production of components such as flywheels, brake discs, brake drums, hubs, valves, and large-sized gears.

With its rigid machine bed design, the machine minimizes thermal distortion and absorbs vibrations. This feature guarantees exceptional surface quality and precise machining even at high speeds. The machine design is space-efficient and conducive for easy loading and unloading of heavy gcomponents. The VTL 400 provides the optimal work envelope within the specified dimension

range, allowing for complete diameter machining throughout the entire length.

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

SAWING MACHINES NC CONTROLLED CIRCULAR SAW MACHINE

ITL has developed India's first NC & CNC Controlled Circular Saw Machine with TCT as well as HSS saw blades. TCT Circular Saw Machines are the new benchmark of productivity in mass production applications.

Circular Sawing Machine Model ITL-CSNC 80 XL is a high-precision machine with cutlength accuracy up to +/- 0.050 mm per 100 mm. It has a controlled crop cut feature for precise length setting of the first cut piece of a new bar. It delivers an excellent cut-surface finish that does not require any facing operations, leading to significant material and production time savings. Longer cut pieces can be cut very easily as the shuttle stroke is 1000 mm with multi-indexing. The double bar

cutting feature enables the efficient and precise cutting of round jobs with a maximum diameter of 30 mm and a minimum diameter of 10 mm.



ITL Industries Ltd www.itl.co.in Hall & Stall: B-62

DHYDRAULIC SYSTEMS FOR MOBILE

APPLICATIONS

Hydraulic Systems for mobile applications include Hydraulic Integrated Circuits (HICs) for Excavators, Diggers, Front End Loaders, Wheeled Cranes, Track Cranes, Slew Cranes, Forklifts, Telehandlers, Tipper Trucks, Tuck Mounted Cranes, Backhoe Loaders, Rock Drills, Well Drills, and Side Dump Loaders.

These systems integrate a variety of valves in Screw-in Cartridge Valve forms to create a single valve bank or manifold system. The cartridges are connected using cavities with internal holes and external ports for integration with the rest of the equipment. Strategic gauging points are $added \ to \ monitor \ the \ functioning \ of \ the \ system.$

HICs have a variety of benefits ranging from a more compact system envelope and lightweight to reduce leakage points and power usage. Solenoid Valves with Deutch Moulded connectors

and minimum cycle life of 1,000,000 cycles are used to reduce servicing and downtime. Only cartridges that are forgiving to ingress of particles are used. 🥸



Chaman Associates www.chamanassociates.com Hall & Stall: ITC/F-63