A Times Group publication

THE MACHINIST

ULTIMATE GUIDE TO PROFITABLE MANUFACTURING

RNI No 71129/98

Volume 13 Issue 12 • December 2018 • Rs 75

Gearing Up for the change

Automotive industry is transforming with EVs & connected cars. Are you ready for an exciting journey?

IT IN MANUFACTURING
Investing in future

MATERIAL HANDLING
Being future ready

Enabling **technology adaption**

V. Anbu, Director General and CEO, IMTMA talks to The Machinist about Industry 4.0 and its benefits for the Indian manufacturing industry.

By Swati Deshpande

Please tell us about your experience with regard to implementation of Industry 4.0. What benefits do technologies/solutions pertaining to Industry 4.0 offer?

Industry 4.0 is a boon for manufacturing sector to ramp up their shopfloor activities and manufacture high precision products. From users' perspective especially industry sectors such as automotive, power, defence, railways, aerospace, and many others, Industry 4.0 application has helped streamline operations by establishing connectivity between humans and machines to work seamlessly for the end product. Operators however need to learn and understand machine language for deriving optimum results.

Using Industry 4.0 enables OEMs and suppliers get an agility to quickly adapt manufacturing specifications and respond well to the changing standards. Plants which are enabled with Industry 4.0 will have robust monitoring systems for identifying potential maintenance issues before they cause downtime. Often customers seek to personalize the configuration of their products. Traditional manufacturing processes have limitations but with Industry 4.0 manufacturers can customize products as per individual needs besides shortening the delivery time.

IMTMA is celebrating 50 years of IMTEX, is holding a pavilion on Industry 4.0 during the exhibition. The expo on Industry 4.0 will serve as a platform to see and experience all facets of implementation of Industry 4.0 including sensors, analytics, connectivity, automation, smart machines, digitization, internet of things, cyber security, and so on. Large companies will be showcasing their innovations in the Industry 4.0 pavilion.

Using Industry 4.0 enables OEMs and suppliers get an agility to quickly adapt manufacturing specifications and respond well to the changing standards.

Technology upgradation calls for disruption as well. What disruption does Industry 4.0 cause at the operations level & how to deal with it?

Technology upgradation can cause disruptions. Many of the erstwhile manual functions are becoming digitalized/automated. Organisations build technologies in-house by hiring and training the right staff and undertaking solution development. IMTMA's training facilities are continuously upgraded to facilitate new programmes such as Internet of Things, 3D printing, and other technologies useful in the realm of digital manufacturing. This helps engineers to deal with technology disruption.

Technology upgradation can cause disruptions. Many of the erstwhile manual functions are becoming digitalized / automated.

Any technology upgradation calls for new skills set. How to deal with the challenge of skill upgradation?

India's manufacturing industry certainly needs to compete globally and this is not possible without a skilled workforce. There is a mismatch between the requirements of industry and what engineers learn in academic institutions. IMTMA to address this gap in skill sets has set up Technology Centres at its offices in Bengaluru, Pune and Gurugram. The centres are equipped with state-of-the-art training facilities including CNC turning and machining centres, metal forming presses, CAD/CAM/CAE, CMM and Metrology equipment, cutting tools and other accessories for imparting hands-on training. The training imparted at these centres makes fresh engineers and new recruits to be industry ready with practical knowledge to take on production responsibilities.