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intec



2017

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Concurrent Events



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Krishnamurthi Venkataramanan, Chairman, L&T Hydrocarbon Engineering Ltd, speaking on the necessity of innovation for the growth of Indian MSMEs.



GMCV 2030 attendees listening to the speakers with rapt attention.

## Knowledge Sharing

# Innovation is the answer

Experts at the Global Manufacturing Cluster Vision 2030 (GMCV 2030) conference, an integral part of INTEC 2017, stressed on the need for an all-round innovation in the Indian manufacturing industry to minimize import of goods, generate more employment in the country and be capable of grabbing more export opportunities.

The attendees at the conference, organized by the Coimbatore District Small industries' Association (CODISSIA) in association with Texas Ventures, a global research and consulting

firm, mostly comprised the front runners and decision makers of the Coimbatore-based small manufacturing companies. They were exposed to cues to address the various emerging challenges they

## அறிவை பகிர்தல்

# புத்தாக்கமே ஒரே வழி

இன்டெக் 2017 கண்காட்சி நிகழ்வின் ஒரு ஒருங்கிணைந்த அம்சமாக நடைபெற்ற உலகளாவிய உற்பத்தி குவிமைய இலட்சியம் 2030 (GMCV 2030) என்ற கருத்தரங்கில், பொருட்கள் இறக்குமதியை குறைக்கவும், நாட்டில் அதிக வேலைவாய்ப்பை உருவாக்கவும் மற்றும் கூடுதலான ஏற்றுமதி வாய்ப்புகளை கைப்பற்ற திறன் கொண்டிருக்கவும் இந்திய உற்பத்தி தொழில்துறையில் அனைத்து நிலைகளிலும், புத்தாக்க செயல்பாட்டுக்கான அவசியத்தை நிபுணர்கள் வலியுறுத்தினர்.

ஒரு உலகளாவிய ஆராய்ச்சி மற்றும் ஆலோசனை நிறுவனமாக புகழ்பெற்றிருக்கும் டெக்ஸாஸ் வென்ச்சர்ஸ் நிறுவனத்தோடு இணைந்து கோயம்புத்தூர் மாவட்ட சிறு தொழிலகங்களின் சங்கத்தால் (கொடிசியா) ஏற்பாடு செய்து நடத்தப்பட்ட

இக்கருத்தரங்கில் கலந்துகொண்டவர்களுள் பெரும்பாலானவர்கள் கோயம்புத்தூர் மாவட்டத்தைச் சேர்ந்த சிறு உற்பத்தி நிறுவனங்களின் உரிமையாளர்கள் / முதன்மை நிர்வாகிகளாவர். பிசிஎன்ஸ்

Continued on page 2



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From page 1

face due to the vast transformation in the business ecosystem.

### Innovation, a requisite for growth

The focus in the manufacturing industry has been shifting from mass production to specialization in order to survive and succeed in the competitive global market.

“Without innovation we cannot stand ahead of what is going on worldwide,” said Padma Shri Rajshree Pathy, Chairman & Managing Director, Rajshree Sugars and Chemicals Ltd; and Founder, Indian Design Forum (IDF). After years of cautious approach, she added, now we should relook at the possibilities of a return on investment through innovation. According to Krishnamurthi Venkataramanan, Chairman, L&T Hydrocarbon Engineering Ltd, there is a need to merge strategy and innovation, which are traditionally seen as two different aspects of business. Considering innovation funding as a challenge for MSMEs, he suggested that MSMEs could initially hire high-end engineering for a faster growth.

### Barriers for MSMEs

MSMEs are the growth drivers of Indian economy. The sector is flourishing in the face of highs and lows for the last many years.

The major challenge to the MSMEs today is exploring methods to reduce their cost of production and shipping, pointed out Sundaram J Balu, Managing Director, GKS Engineering Pvt Ltd; Past President, CODISSIA; Secretary; COINTEC and Chairman, INTEC 2017.

### Indian exports show an uptick

India's exports have grown at its fastest pace in five years during the financial year 2016-17, despite the demonetisation drive that slowed domestic economic activity since November.

Hence, an opportune time for Dr Bart De Groof, Consul General, Consulate General of the Kingdom of Belgium, to speak on emerging business opportunities with his country.

Jean-Francois Aernouts; Counsellor (Commercial), Brussels Invest, Export, Ministry of Brussels; and Founder & CEO, UAVCO (Drone Manufacturers), Liège, BELGIUM emphasized on how export of Indian goods to Europe through Brussels could be most cost-effective.

குழலமைப்பில் ஏற்பட்டுள்ள மாபெரும் உருமாற்றத்தின் காரணமாக அவர்கள் எதிர்கொள்கின்ற பல்வேறு புதிய சவால்களை சமாளித்து தீர்வுகாண்பதற்கான வழிமுறைகளும், யோசனைகளும் இக்கருத்தரங்கில் அவர்களுக்கு விளக்கிக் கூறப்பட்டன.

### புத்தாக்கம்: வளர்ச்சிக்கான ஒரு அத்தியாவசிய அம்சம்

உற்பத்தி தொழில்துறையின் கூர்நோக்கமானது, போட்டிகள் நிறைந்ததாக மாறியிருக்கும் உலக சந்தையில் தாக்குப்பிடிக்கவும் மற்றும் வெற்றி காணவும் மிக அதிக எண்ணிக்கையில் உற்பத்தி செய்வதிலிருந்து குறிப்பிட்ட பிரிவில் / வகைமினத்தில் சிறப்பு கவனம் செலுத்தி நிபுணத்துவம் கொண்டிருப்பதென்று மாற்றம் கண்டு வருகிறது. “புத்தாக்க செயல்பாடுகள் இல்லாமல் உலகெங்கிலும் நிகழ்கின்ற நடவடிக்கைகளில் நாம் முன்னிலை வகிக்க இயலாது” என்று, இராஜ்மீ சுக்ரஸ் அண்டு கெமிக்கல்ஸ் லிமிடெட்-ன் தலைவரும், நிர்வாக இயக்குநரும் மற்றும் இந்திய டிசைன் :போரம் (IDF) அமைப்பின் நிறுவனருமான பத்ம ஸ்ரீ இராஜ்மீ பதி கூறினார். பல ஆண்டுகளாக எச்சரிக்கை அணுகுமுறையை கையாண்டதற்கு பிறகு, புத்தாக்கம் வழியாக முதலீட்டின் மீது நல்ல ஆதாயத்தை பெறுவதற்கான வாய்ப்புகள் குறித்து நாம் மறுபரிசீலனை செய்தாக வேண்டும் என்று அவர் மேலும் கூறினார்.

### MSME துறையில் இருந்துவரும் தடைச்சுவர்கள்

இந்திய பொருளாதாரத்தின் வளர்ச்சியை முருக்கிவிடுபவையாக MSME நிறுவனங்கள் இருக்கின்றன. கடந்த பல ஆண்டுகளாக ஏற்ற இறக்கங்கள் இருந்தபோதிலும்

இத்துறையானது, நல்ல வளர்ச்சியை கண்டு வருகிறது. GKS இன்ஜினியரிங் பிரைவேட் லிமிடெட்-ன் நிர்வாக இயக்குநரும், கொடசியாவின் கடந்தகால தலைவரும், COINTEC-ன் செயலரும் மற்றும் இன்டெக் 2017 நிகழ்வின் தலைவருமான திரு. சுந்தரம் ஜே. பாலு பேசுகையில், தங்களது உற்பத்தி செலவினத்தையும் மற்றும் பொருட்களை அனுப்பி வைப்பதற்கான விற்பிங் செலவுகளையும் குறைப்பதற்கான வழிமுறைகளை ஆராய்ந்தறிவதுதான் MSME-க்களுக்கு இன்றைக்கு இருக்கிற மிகப்பெரிய சவாலாகும் என்று குறிப்பிட்டார்.

### ஏற்றத்தை வெளிப்படுத்தும் இந்திய ஏற்றுமதிகள்

நவம்பர் மாதத்திலிருந்து உள்நாட்டு பொருளாதார செயல்பாட்டின் வேகத்தை குறைத்திருக்கிற பணத்தின் மதிப்பிழப்பு நடவடிக்கையையும் மீறி 2016-17 நிதியாண்டின்போது கடந்த 5 ஆண்டுகளில் இந்திய ஏற்றுமதியானது, அதிவேகமாக வளர்ச்சியடைந்திருக்கிறது. ஆகவே, தனது நாட்டோடு இந்தியா கொண்டிருக்கிற மிகச்சிறப்பான பிசினஸ் வாய்ப்புகள் குறித்து பெல்ஜியத்தின் துணை தூதரான டாக்டர். பார்ட் டி குருப் பேசுவது பொருத்தமான நேரத்தில் பேசப்பட வேண்டிய விஷயமாகும்.

பிரஸ்ஸல்ஸ் வழியாக ஐரோப்பாவுக்கு இந்திய பொருட்களை ஏற்றுமதி செய்வது எப்படி அதிக சிக்கனமானதாக இருக்குமென்பதைக் குறித்து, UAVCO-ன் நிறுவனரும் தலைமைச்செயல் அலுவலரும் மற்றும் பிரஸ்ஸல்ஸ் முதலீடு, ஏற்றுமதி அமைச்சகத்தின் ஆலோசகருமான (வர்த்தகம்) திரு. ஜான் :பிராங்காய்ஸ் ஏரோநட்ஸ் தனது உரையில் வலியுறுத்தினார்.

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## HMI Systems

# VisuNet GXP, an HMI modular system for explosion-hazardous areas

The new computing unit is optimally suited for mechanical engineers to use their machines in Zone 1/21 and Zone 2/22.



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The VisuNet GXP product family is low weight, compact and has flexible installation options. The new PC unit features an Intel quad-core processor and an open Microsoft Windows

operating system. The user therefore has the option of installing their own software packages such as SCADA applications in order to visualize and control applications in hazardous areas. A large number of serial interface options such as RS232, RS485 and Ethernet enable direct access from the hazardous area to the PLC or other peripheral devices.

VisuNet GXP also has a powerful AC or DC power supply and a display unit. 19 inch (48.3 cm) and 21.5 inch (54.6 cm) versions are available. The multi-touch display located behind hardened protection glass is durable and scratch-resistant, and optimized for use while wearing gloves. The 10-point multi-touch sensor enables modern, touch-optimized user interfaces to be used, similar to familiar smartphone and tablet interfaces. This sensor also incorporates important safety features for critical processes. Energy consumption is also extremely low due to LED backlighting.

### Easy maintenance

The GXP series also offers maximum mounting flexibility for efficient

operation. The devices are resistant to chemicals and detergents common in the industry, as stainless steel is used for all mountings and housings. All the surfaces are designed without gaps or horizontal surfaces to prevent an accumulation of liquid, dirt, or bacteria and to ensure fast and easy cleaning. A variety of applications are provided for by the dustproof, IP66-rated design, lack of moving parts like fans and the extended temperature range (-20 °C to +50 °C). Components can be replaced on-site by the user in the event of a fault without affecting hazardous area approval. Downtime is therefore reduced to a minimum. The modular system is rounded off by a multitude of further approved components such as keyboards, barcode reading devices and a wide range of standard housing and mounting options.



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Machine Tool Building

# Growing through Innovation

T K Ramesh, CEO & Whole Time Director, Micromatic Machine Tools, one of the leading machine tool builders of the country, believes that exhibitions prove to be the most effective way for promoting home-grown technologies. The company is walking the talk by having a presence at INTEC 2017.

Trade fairs and exhibitions provide opportunities, in a 360 degree manner, to developers, customers and competitors. They aid in the promoting, comparing and selling of products, that happen all at the same time at such events. According to Ramesh, customers can be divided into two categories. "One who knows you, who is the user of your product and the other one is

aware of the technology, but is not aware of you/your product. As a result we get new enquires, which helps in penetrating deeper into the market," he noted.

At INTEC 2017, the company aims to reach out to budding entrepreneurs with new start-ups. "Targeting new entrepreneurs helps in expanding our market and also enables us to gauge ourselves vis-à-vis our competitors," said Ramesh.

## Offerings at the show

This edition of INTEC will showcase the following products from the ACE Group:

### ■ Ace Manufacturing Systems

**DTC 400 XL:** It is a high speed drill tap machining center with high rapids, high spindle speeds, and pocket tilting tool change for minimum chip-to-chip time.

**430V:** The all new 430V is a compact and cost-effective vertical machining center with convenient chip disposal. It has ergonomically designed structure for good rigidity and is suitable for milling applications too.

### ■ Ace Designers

**LT 2 LM 1200:** This machine is ideal for shaft machining applications. Its rigid structure can comfortably accommodate two steady rests. It is IoT enabled, operator-friendly and easy to maintain.

**Simple turn 6075:** It bridges the gap between manual and CNC turning. Its robust double wall construction provides rigidity stability and vibration dampening.

### ■ Micromatic Grinding Technologies

**IG 150 U:** This high precision 2/3 Axes

CNC Cylindrical Internal Grinding Machine is ideal for a variety of internal, external and face grinding applications.

### ■ AmiT

**IoT & Smart Manufacturing:** It helps automate key business processes by collecting, analyzing and using real-time manufacturing data, and by online monitoring of productivity, energy, quality and conveyor.

## Making the most of INTEC 2017

The machine tool builder has its office and a technology center in Coimbatore to serve its local customers. The proximity helps in providing efficient services in a short time and, thus, strengthening its bond with them, claimed Ramesh.

The company is venturing deep into the pump industry and needs to promote its best suitable machines for the same. "Our presence in INTEC will surely help us in understanding the requirements and expectations of the pump industry which, in turn, will help us to bring out new machine models and offerings," he informed.

### Micromatic Machine Tools

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Source: Magic Wand Media Inc

## Launches @ INTEC

### Stark Gear Box

## Single Reduction Speed Reducer

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Source: Stark Motors

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### CNC Machine

## Quattro Turn CNC Vertical Lathe

The 4-axis CNC lathe is exclusively designed to achieve high productivity.

Quattro Turn CNC vertical lathe is fitted with two turrets which can be simultaneously operated for machining shafts and other chucking parts. While the first tool does the roughing operation, the other tool can follow the roughing tool for finishing operation. Similarly, threading/grooving at two different places can be done simultaneously using these two turrets. The machine is rigid in construction, having concrete filled column and heavy duty LM-Guides to minimise vibration.

### Other features

The machine is fitted with a programmable servo controlled tailstock moving on the LM-Guides and actuated by a separate servo motor. This arrangement enables machine shafts to have high L/D ratio without much difficulty and ensures minimum time for set up changeover for different lengths of parts. Using a gripper on one of the turrets, facing, center hole drilling, OD-Turning can be done in a single setting to attain high degree of accuracy on shafts machined. The spindle can be mounted with a 3-jaw power chuck or HAINBUCH collet attachment depending on the application requirement. The footprint of the machine is a small floor space, but it can accommodate shafts up to 500mm.



Source: Gedee Weiler Pvt Ltd

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Japanese CNC Wire EDM technology

# Co-manufacturing venture: S&T and EXCETEK

To support Indian Industrialists to make use of Japanese technology, S&T signed an exclusive agreement with Excetek to market its manufacturing products in India. As a result of this effort, S&T-EXCETEK was born. It is a Coimbatore-based manufacturing company aligned with the "MAKE IN INDIA" concept. The product range includes CNC Wire EDM machines with XYZ Travel 400 x 300 x 220 mm ~ 3000 x 2000 x 1000 mm in various models such as EX Series, V Series, G Series, G Plus series and NP Series.



T Venkatesan, General Manager – EDM, S&T Engineers Pvt Ltd explaining the features of the machine to a customer

**S&T Engineers**  
T: +91 (70) 4592 2633  
E: [riyazmalik@stengineers.com](mailto:riyazmalik@stengineers.com)  
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Electronic Switching Device

# Solid State Sensing Relays

Electronic Relays India Pvt Ltd (ERI) is a manufacturer, exporter and supplier of Solid State Relays (SSR) and Modules. The electronic industry consists of various advanced technologies and engineering processes, which are complex and intricate. ERI's Solid State Relays' features include: Opto isolation, zero switching and built-in circuits for monitoring line voltage and current. There is an alarm output when a fault is detected. Two LED indicators of which the red indicates fault and o/p short condition, whereas the green shows OK condition. The company's SSRs and I/O Modules have components from the world's most reputed manufacturers. Each is subjected to stringent testing and quality control at every stage of the manufacturing process. Special quality testing is conducted in standardized laboratories globally, such as ETDC, CMTI etc.



**Electronic Relays India Pvt Ltd**  
T: +91 (80) 2335 4190/89  
E: [sales@eri.co.in](mailto:sales@eri.co.in)  
[www.electronicrelaysindia.com](http://www.electronicrelaysindia.com)  
Hall & Booth: E - 397

Embedded PC

# CX2000 series Embedded PCs



Source: Beckhoff Automation Pvt Ltd

**Beckhoff Automation Pvt Ltd**  
T: +91 204004800 E: [info@beckhoff.com](mailto:info@beckhoff.com)  
[www.beckhoff.co.in](http://www.beckhoff.co.in)  
Hall & Booth: A - 18

Beckhoff's new embedded PCs use Intel Xeon D processors, each with 4, 8 or 12 CPU cores of the 5th generation Intel Core microarchitecture, and manufactured using 14 nm process technology. The 4, 8 and 12 processor cores offer ample processing power and parallelism, even for extremely demanding automation tasks. Optimal multi-core support from TwinCAT 3 automation software makes it possible to distribute the individual tasks of a control process across the available CPU cores. This means that the computing load can be planned in fine detail to achieve the best-possible processor efficiency.

**Important feature**

The CX2000 devices integrate a separate graphics

card, which is equipped with 2 GB RAM. Separating the CPU RAM from the GPU RAM prevents unwanted interactions between the two computing units. The high power density created by the CPU and GPU makes it necessary to incorporate a fan for heat dissipation. A cable-free plug-in connection facilitates easy fan replacement if required, and the regulated fan speed can be queried in the PLC. All basic interfaces of the CX2000 series are also available in the new units: 2 x GBit Ethernet, 4 x USB 3.0, DVI-I (including VGA) as well as the flexibly-configured, factory-fitted multi-option interface. All existing CX2000 plug-in modules – those attached from the left and right – can also be used on the new devices to ensure maximum flexibility.

# Stark Motors

Energy Efficient & Power Saving Motors

Stark Motors was established by Mr C. Muthusami at Coimbatore in the year 1984 to manufacture electric motors. Initially we were engaged in the manufacture of small FHP motors later we grew from strength to strength and today we are one of the leading manufacturers of single phase motors, NEMA standard motors, vibrator motors and motors suitable for Variable Frequency Drives (inverter application). Combining years of experience, we endeavours to offer innovative energy efficient products that help our clients achieve their business objectives. Our forte to deliver quality products gave us a reput & strong presence among large Indian companies throughout India.

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(0.18kw to 2.2kw.1440/2880rpm, 50/60cycles)



**Three Phase Motor**

(0.18kw to 30kw . rpm-370/500/720/960/1440/2880)  
(Volt- 42/48/110/220/380/415/670v)



**Vibrators**

(0.18kw to 11 kw, in all 2,4,6,8pole combinations,  
C.F 180n to 80kN)



[www.starkmotors.com](http://www.starkmotors.com)





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