The Phillips Machinist

Volume 02 | Issue 04 | August - September 2018

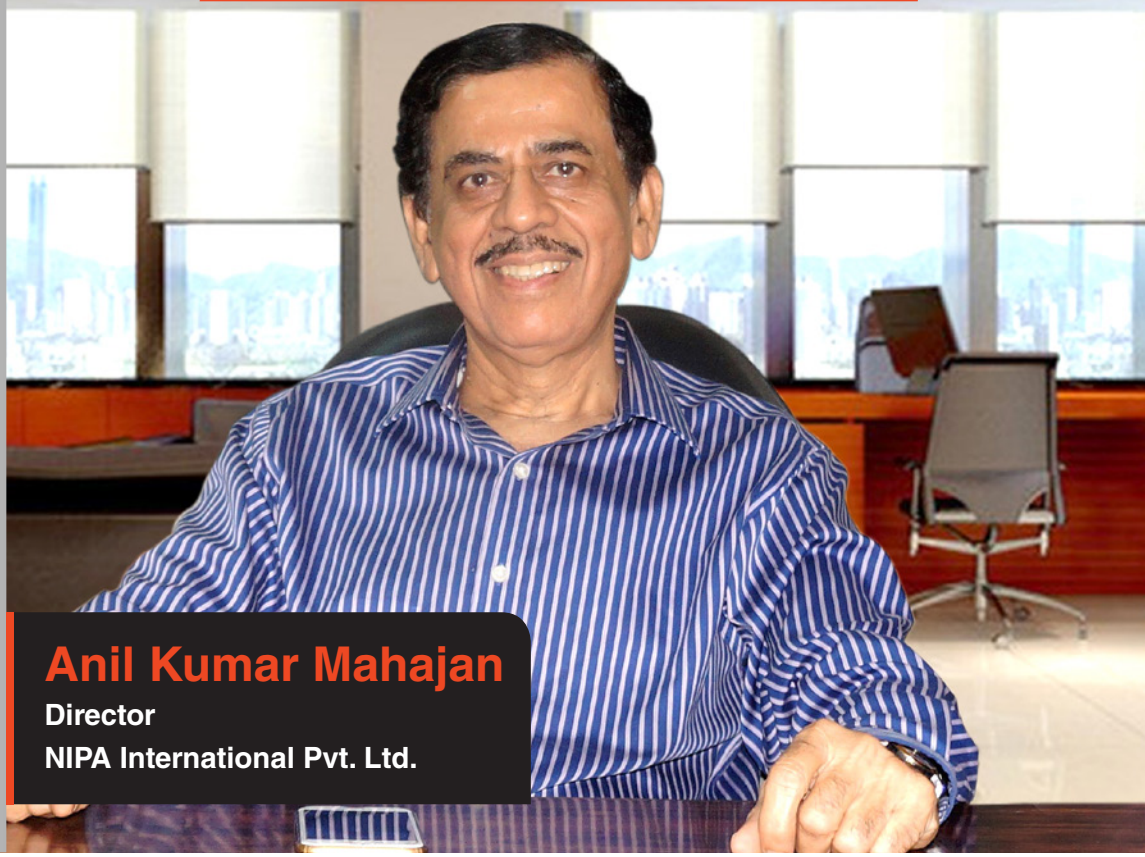
What's Inside

02 Additive Manufacturing
Phillips and EOS

05 Maintaining Right
Machining Right Part V

07 PMTX 2018
HFO Phillips & Phillips EPD to Exhibit Latest Machine Tools Solutions

HAAS THE MAJOR CONTRIBUTOR IN OUR GROWTH STORY



Anil Kumar Mahajan
Director
NIPA International Pvt. Ltd.

David Harris
Vice President - Service
Phillips Corporation

"With JOB CONNECT, The Phillips Machinist APP goes to the next level of industry Engagement"

India is blessed with a large pool of young engineers graduating each year. These bright young engineers are India's future and need guidance in finding jobs that challenge, motivate them and suit their skill set. At 'Job Connect' it is our commitment to handhold the pool of young engineers towards the right direction in their careers."

Phillips and EOS conduct a seminar on the impact of AM in Investment Casting Industry

India's leading Machine Tool Solutions provider Phillips Machine Tools India & the global leader in 3D Printing solutions, EOS partnered to organize a seminar on Additive Manufacturing at Imperial Palace Hotel, Rajkot. The seminar was conducted to explore the possibilities of Additive Manufacturing in the Investment Casting industry.

Titled 'How Will Additive Manufacturing Impact Investment Casting?' the seminar focused on educating attendees about digitizing the pattern making process; thus, building efficiency and agility to react to industrial needs.

Additive Manufacturing or 3D printing is one of the disruptive technologies changing the entire scenario of the manufacturing industry with improvement in process and productivity. "To further catalyse the process of integrating AM, we not only provide our customers with cutting edge technology, but also support them with the expertise of how to utilize AM technology effectively," says Anand Prakasam, Country Manager, EOS India.

3D Printed components showcased during Additive Manufacturing Seminar

Anand Prakasham
Country Manager
EOS India

We aim to provide a detailed understanding of using Additive Manufacturing in investment casting. We want more manufacturers to realize the potential of digital transformation, especially in a city like Rajkot that contributes so much to the manufacturing sector in India.

Some of the key advantages of using Additive Manufacturing in investment casting include the reduction of the number of process steps and lead time, increase efficiency, (a better option for the manufacturing of complex parts) more cost-effective–as it is a tool-less process–a higher degree of accuracy, and use of a wider range of materials.

"PHILLIPS Machine Tools India is driven by our mission to partner with our customers and be their most valuable resource in improving competencies in manufacturing technology. Additive manufacturing offers exciting possibilities and EOS is the undisputed leader in this field.

We are happy to partner with EOS in this path-breaking technological seminar. The seminar is especially relevant to the vibrant city of Rajkot and its innovative industrialists who are always ready to embrace the latest manufacturing techniques and use these to grow their businesses exponentially on a global level." Terrence Miranda, Managing Director, Phillips Machine Tools India.

The seminar was attended by CEOs, R&D personnel, engineers, and casting designers among others from the related industry industries. Other aspects that were discussed include how 3D printing can make an impact in investment casting applications, a comparison between lost wax investment casting vs direct 3D printing and the range of 3D printers available in the market.

HAAS Offers Best Value For Money Coupled With Unbeatable Customer Service

"In our growth story, HAAS has been a major contributor. The best part of buying HAAS machines is that they are value for money, and the support system of the company is excellent. This motivates us to buy more machines from them. We will recommend HAAS machines to others who have similar applications."

Anil Kumar Mahajan
Director
NIPA International Pvt. Ltd.

Infrastructure

There is not a lot of competition in the market for Nipa International. Their strength lies in the fact that they don't outsource any job. They have the complete setup in-house and that gives them the advantage to compete with the existing competitors.

Today, they have about 75 injection molding machines and are soon going to add another 20 machines. They have a modern state-of-the-art Tool Room as well as production plants. Nipa International has got approximately 1,400 employees across India.

In the tool room, they have nine CNC milling machines, of which five are HAAS machines. The company also has five wire-cut EDMs and eight EDMs with a host of conventional machines such as grinders, surface grinders, and milling, etc.

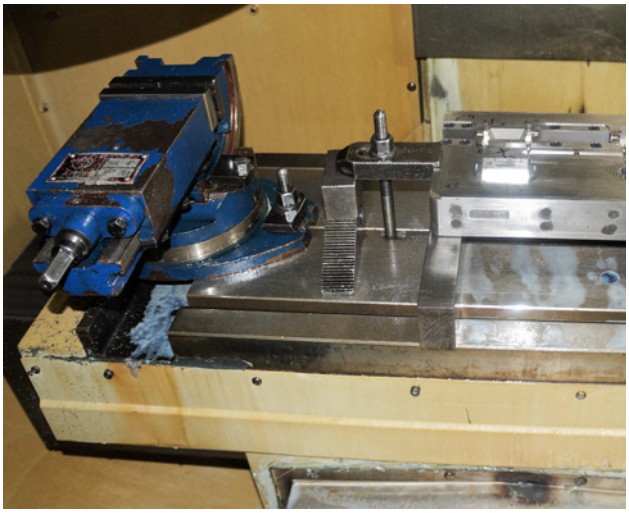
Getting introduced to CNC technology

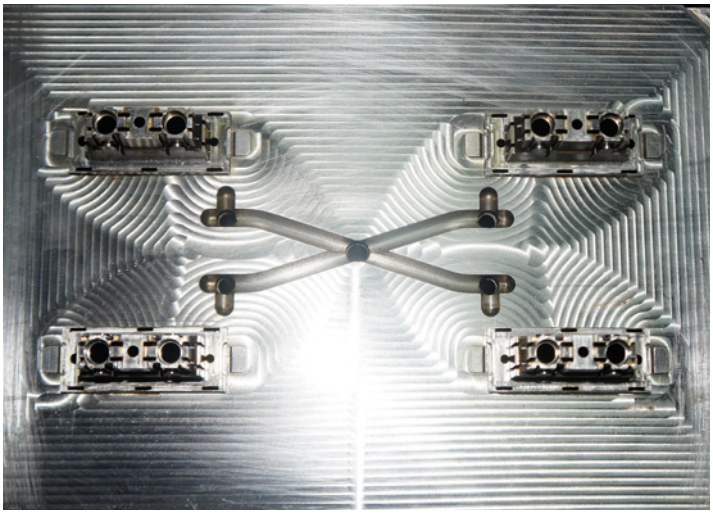
"We bought our first CNC machine in 1996 and that changed our entire perspective. We bought our first HAAS CNC machine in 2002, which was a VF-3. We now have nine CNC machines, out of which five are from HAAS. We have one VF-3, two VF-2s, and two Super Mini Mill machines from HAAS," said Mr. Mahajan.

Selecting HAAS

"I selected HAAS because I was happy with the way they convinced us to buy the machine. Though we did not know HAAS at that time, we got some excellent references from the market and decided to opt for it. After we bought the machine, we were delighted by its performance and were pleased that we had made the right choice. Our HAAS machines are sturdy and reliable. Even now, when we compare the price and features of a HAAS machine with other brands, HAAS offers the best value for money," said Mr. Mahajan.

We find Super Mini Mill from HAAS very good for our application because we make small multi-cavity moulds.





"Regarding productivity, HAAS is giving us desired cycle times. We have planned to test the newly bought inline VF-3 and VF-2 in our new plant for performance. In our tool room, we look for accuracy and finish, which we are getting on our HAAS machines. We find the Super Mini Mill from HAAS very good for our application because we make small multi-cavity moulds. The average accuracy involved in our process is 20 to 40 microns," said Mr. Mahajan.

After Sales Support

"The service support from HAAS is also excellent. We had service issues with other brands, but with HAAS, we never faced any problems. With other brands, there are inconsistencies in their customer service, and the cost of aftersales is also very high compared to HAAS," said Mr. Mahajan.

Nipa International has not faced any problems with HAAS regarding breakdowns. Overall, it has been a pleasant journey. HFO Phillips investment in their aftersales support process has helped to increase NIPA's confidence in the HAAS brand.

Spare Parts availability

"The spare parts are immediately available with HAAS, and the backup support is very good as compared to other brands. These are the factors that have influenced us to add more HAAS machines in our line-up. I believe that any machine without a backup part is a real issue," said Mr. Mahajan.

Partners in growth

According to Nipa International, they are very satisfied with HAAS as it suits their requirements for tolerances, and the desired finish is excellent. Both companies have a perfect working relationship, which was started with Mr. Terrence Miranda and is now continuing with Mr. Rathore.

> Once we bought the machine, we were pleased that we had made the right choice. Our HAAS machines are sturdy and reliable. Even now, when we compare the price and features of a HAAS machine with other brands, HAAS offers the best value for money.

Nipa International
www.nipa.co.in

The NIPA Group traces its history back to the year 1982, when it started with manufacturing Tape Deck Mechanisms and Television Cabinets. Carrying its expertise in tooling and moulding, the company has successfully evolved and is now one of the most significant OEM and manufacturer for modular switches and other accessories, for various global brands in India, for domestic and export markets.

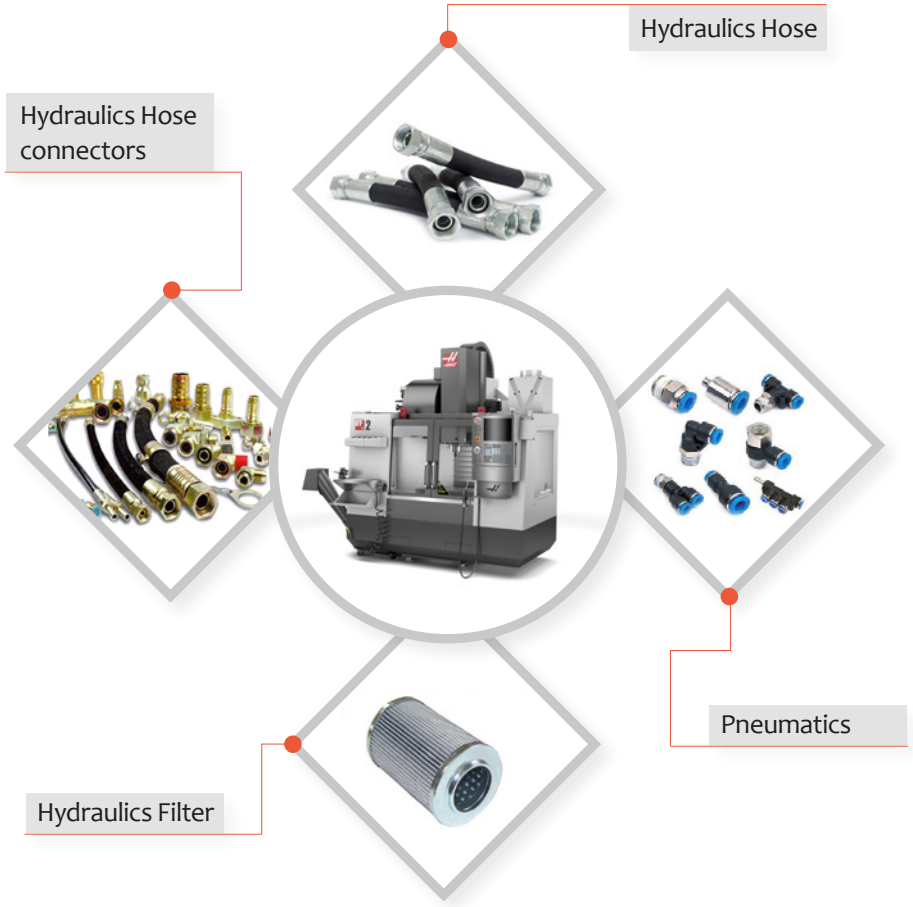
Now, Nipa International manufactures electrical switches for all the premium brands such as Havells Schneider Electric, Anchor, Crabtree, Finolex, Hager, Honeywell, L&T, Luminous, Phillips, Vguard, Orient, Simon, Standard, and Wipro, etc. The company provides end-to-end solutions, right from concept designing to the finished product. They have in-house facilities such as prototyping, validation, cutting, stamping, grinding, and painting, etc.

Today, with four globally competent units across India, NIPA is racing ahead on the path of success, providing complete turnkey solutions for electrical wiring accessories projects. They are the preferred partners for almost all the leading brands in this business today.

Timely Check Prevents Untimely Breakdown of Hydraulic and Pneumatic System

Maintaining Right, Machining Right Part V

In between major preventive maintenance, regular inspection of seemingly small areas can prevent a small issue from becoming a major one. In this part of 'Maintaining Right, Machining Right' series, let us delve into parts such as hydraulics hose, hydraulics connectors, which play major role in hydraulic system, and pneumatics where any defect in one component can quickly damage the entire chain of components in hydraulics with a threat of untimely breakdown of machining process.



Hydraulics Hose

Hydraulic hoses are pipes that are meant for transporting fluid from one component to another in a hydraulic system. The flexibility of hose enables components to be positioned in the most efficient or convenient places, because the hose has the ability to bend around corners through tight spaces or across long distances. When hoses are exposed to high external and internal temperatures concurrently, there will be a considerable reduction in hose service life leading to leakage and burst.

Hydraulics Hose Connectors

Hydraulic hose connectors join hoses to pumps, valves, cylinders and other components used throughout a hydraulic system. These secure connections help contain and direct the flow of hydraulic fluid to where it is needed while preventing leaks and safely maintaining pressure. If not fitted well, these connectors can lead to seepage through the thread and leakage of fluid from the hose.

Hydraulics Filter

Hydraulic systems commonly incorporate some sort of filtration in the system design. Hydraulic filters keep the hydraulic fluid free from contaminants, which can result by wear of the components, poor plumbing, etc. Failure of hydraulics filters can lead to failure of the power fluid, most of the time.

Pneumatics

Pneumatic systems are similar to hydraulics in function. Hydraulic systems use liquid to power movement, while pneumatic systems work with compressed air or gas. Pneumatic tools' failure is mostly seen due to dirt build-up and water-caused corrosion. In many cases, cleaning is a matter of wiping grime and moisture off the tool as needed.

However, most of these issues can be detected early with visual checking and Phillips Machine Tools India offers a comprehensive range of solutions for a timely check of your machinery.

The sets of machine qualification instruments are available at various locations in India to support the customers. The qualification of machine condition can be assured by a specific protocol and quantification of parameters for machine condition analysis during a preventive check. It is always advisable to qualify the machines from the certified agency/ engineer. A record file of periodic check results should be maintained for every machine. The analysis of these records will provide wear pattern of the components and helps in predictive spare parts planning. The unpredictable machine breakdowns can be reduced considerably with this check as well as it helps to control the spare parts inventory cost.

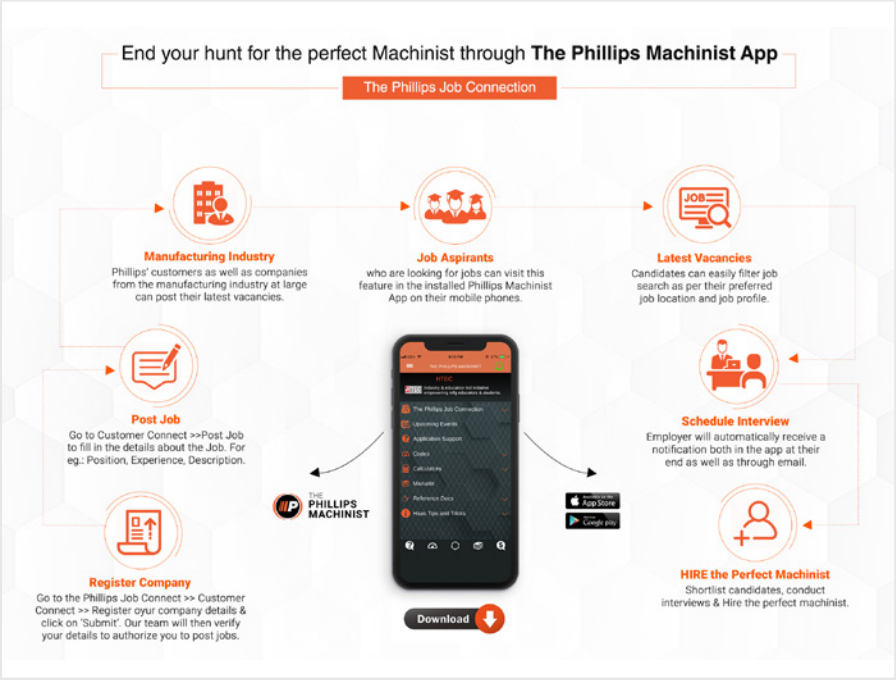
*The author **Shardul Itkalkar** heads the Engineered Products Division of Phillips Machine Tools India Private Limited. With more than two decades of industry experience, he advocates right maintenance for your machines. He can be reached at sitkalkar@phillipscorp.com*

Phillips launches 'Job Connect' feature on The Phillips Machinist App

Phillips Machine Tools India, announces the addition of all new feature 'Job Connect' to its widely popular The Phillips Machinist App. With this 'Job Connect' feature, Phillips is now targeting to bridge the connection gap between young engineering job aspirants and industry.

Though regular job portals in the country list job vacancies as industry-specific, there is still lack of enough information about the jobs for engineers or skilled technicians in the manufacturing sector, as per requirement and role.

Phillips' customers, as well as companies from the manufacturing industry at large, can post their latest vacancies. Engineering job aspirants who are looking for jobs can visit this feature in the installed Phillips Machinist App on their mobile phones. They can easily filter job search as per their preferred job location and job profile. Once they select a listed position, upload their resume for the position, and click on the 'Apply' tab, the employer will automatically receive a notification, both in the App as well as through email. The employer can schedule an interview with the candidates based on their eligibilities and qualifications.



"We have extended our presence from selling and servicing products to enabling an ideal platform for employment generation" said Terrence Miranda Managing Director, Phillip Machine Tools India.

This will benefit the industry at large, especially the customers of HAAS. "Frequently our customers tell us that they are looking for operators or programmers. Through this feature, we can help them find the right candidates for their vacancies" adds Mr. Miranda.

Most leading engineering institutions use HAAS machines not just for training the students, but for their R&D activities too. Engineering students from these colleges are, therefore, already oriented with HAAS machines and HAAS controls, which makes it easier for them to find employment and work smoothly with HAAS customers and companies operating with HAAS machines. "We are happy to facilitate this industry - academia link" Mr. Miranda remarks.

Unemployment in India is projected to increase 18.6 million in 2018 higher than the previous year. In terms of percentage, the unemployment rate remained at 3.4 per cent in 2017-18. According to Centre for Monitoring Indian Economy (CMIE), the number of jobs that can be created, in 2018, is limited to an estimated 600,000.

With the number of engineering students graduating each year in India rising, the number of unemployed engineers is also rising. This is primarily the result of the slow growth of employment generation for them, which often leads to difficulty in finding a job or else getting stuck in the wrong job. On the other hand, this situation also becomes troublesome for companies as it is difficult for them to find the right candidates.

Terrence Miranda
Managing Director
Phillips Machine Tools India

Frequently our customers tell us that they are looking for operators or programmers and through this feature we can help them find the right candidates for their vacancies.

HFO Phillips & Phillips EPD to Exhibit Latest Machine Tools Solutions at PMTX 2018

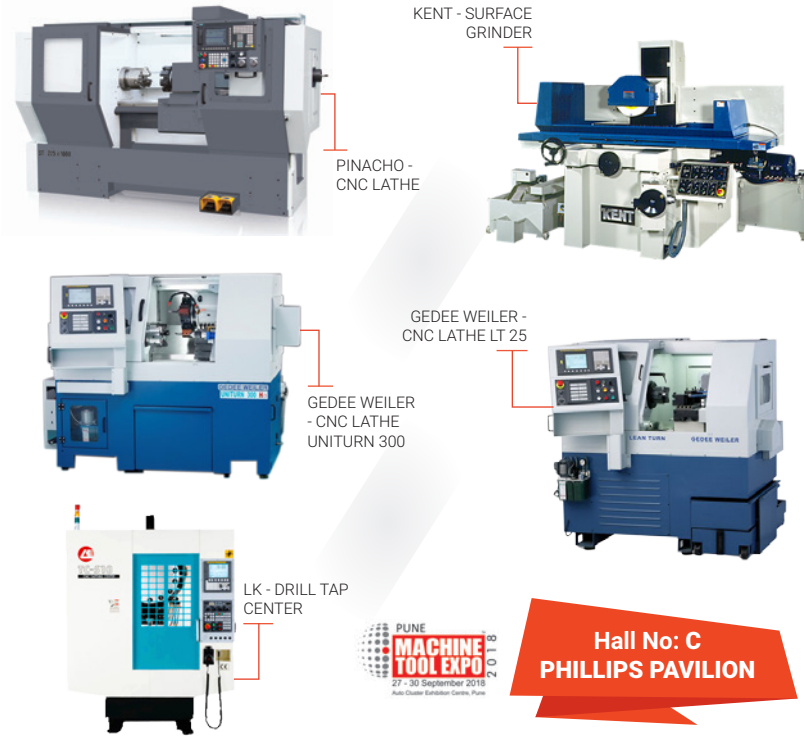
Continuing their successful journey across India, HAAS Factory Outlet - Phillips India and Phillips Engineering Products Division (Phillips EPD) will be exhibiting at Pune Machine Tools Expo 2018 (PMTX 2018), organized by IMTMA, which will be held from 27th-30th September 2018 at Auto Cluster Exhibition Centre, Pune.

For the last couple of years, Indian machinery industry has been witnessing global machines foraying into the Indian shop floor, and Phillips Machine Tools India is spearheading this revolution through its world-class solutions. After its successful display at AMTEX 2018-Delhi, Phillips is all primed to showcase their latest machines in India's largest manufacturing hub Pune at PMTX, organized by Indian Machine Tool Manufacturers' Association (IMTMA).

Known as the 'Detroit of Western India', Pune is home to a large number of industries in automotive, heavy engineering, aerospace, defense, ordnance and many other manufacturing segments. Pune's proximity to Mumbai and other industrial cities such as Aurangabad, Nagpur, Kolhapur, Satara, Ahmednagar, and the neighboring state of Gujarat, makes it a strategic location in the western part of the country for the expo. The event unveils the latest manufacturing technologies and solutions, which would enable large industries, and other small and medium enterprises (SMEs), to leverage and enhance their manufacturing capabilities.

USA's largest and a global machine tool leader HAAS Automation, provides innovative CNC machining solutions to the manufacturing engineering industry. HFO PHILLIPS Machine Tools India is the HAAS authorized partner providing solutions and best in class service and applications support.

HFO Phillips will be displaying two latest models a 5 axes Vertical Machining Center HAAS VF-2-I and a Y axis turning center HAAS ST-10Y cutting live for your review. Please visit our HAAS FACTORY OUTLET booth in PMTX at Hall No: C, Booth No: A102.



In the Phillips EPD section, some of the brand-new products and solutions being exhibited are:

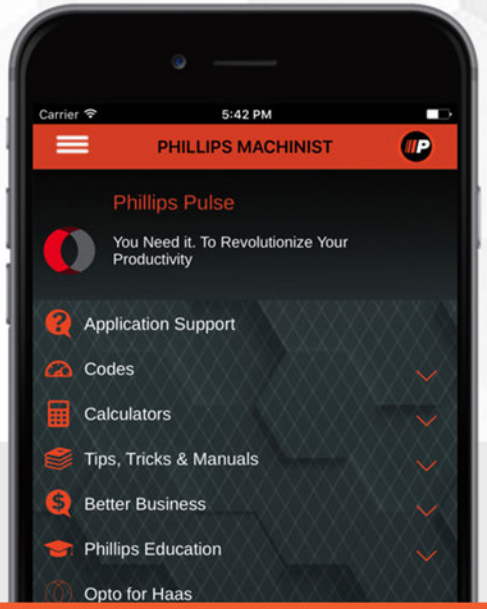
PINACHO – CNC LATHE SE 250x1000
LK – DRILL TAP CENTER (TC-510)
GEDEE WEILER – CNC LATHE UNITURN 300
GEDEE WEILER – CNC LATHE LT25
KENT – SURFACE GRINDER KGS84AH.

"Phillips Machine Tools is driven by our mission to provide innovative manufacturing solutions and enhance manufacturing competencies of our esteemed customers. PMTX is an ideal platform for us showcase our solutions" said Mr. Ramkripal Yadav, General Manager, Phillips Machine Tools India.

THE PHILLIPS MACHINIST

"OUR ENGINEERS SWEAR BY THIS APP. THIS IS SOMETHING EVERY MACHINIST SHOULD **INSTALL & USE.** MY PERSONAL FAVORITE IS THE **TIPS & TRICKS** SECTION WHICH HAS LARGE POOL OF EDUCATIONAL VIDEOS."

Mr. Nishikant Ahire
Chairman & Managing Director
Ahire Machine Tools (AMT Group)



DOWNLOAD TODAY

Available on the App Store

GET IT ON Google play

For Private Circulation only © Phillips Machine Tools India Private Limited