The Phillips Machinist

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What's Inside

02 New Launch
MT-800P Dual Pallet CNC Machining Center

04 Hermle AG
Open House at Gosheim

06 Display Award
Best Technology at MachAuto Expo

RELIABLE & TRUSTWORTHY

HAAS sets benchmark with exceptional service, states Mr. Mayank Momaya, Director, Leonine Engineers: a machine shop renowned for precision component machining and the proud owner of several HAAS VF Vertical Machining Centers including the latest VF-2-I models with the India Value Package.

Mayank Momaya
Director
Leonine Engineers Pvt. Ltd.

Shubhra Miranda
Business Manager
Phillips Machine Tools India

"It is a pleasure for the entire PHILLIPS Machine Tools India team to introduce you all to the Second Edition of our TPM Newsletter.

PHILLIPS sees great potential in the Indian market. The recent budget is definitely welcoming for the manufacturing sector. Relaxation in tax structure incentivizes domestic manufacturing and boosts "Make in India" in various sectors including the machine tools industry, creating more job opportunities and opening up the Indian market to global companies like PHILLIPS.

We at PHILLIPS Machine Tools through our products and services help machine shops in India improve productivity and meet global manufacturing demands of quality, affordability and scalability thereby making the "Make in India" dream a reality."

New Launch

L.K. Drill Tap Centre with Auto Pallet Changer BTC 550 APC

Phillips Machine Tools India launches L K Machinery Corporation's Ultra High Speed CNC Compact Milling Center for the Indian market.

The growth in the Indian manufacturing sector has resulted in increasing demand for highly productive, automated CNC machines. PHILLIPS Machine Tools is proud to introduce the innovative BTC-550 APC to the Indian market.

BTC-550 series machines are designed for demanding production requirements and 3- axis high-speed cutting on hard material in addition to multi-face or multi-axis interpolation. Based on the box-in-box cubical structure, BTC machines can be fitted with a standard table, pallet change unit or integrated 5-axis rotary table.

The BTC-550 APC is built for high productivity and is a combination of a sturdy mould making structure with high acceleration/ deceleration features of a tapping center. The rapid APC system eliminates work piece loading and unloading with a 3.2 seconds pallet change time. The entire pallet change unit is anchored on the machine eliminating overhang. Also, the centre hole is in the middle of the pallet changer providing easy access to piping and wiring.

New Launch

MT-800P Dual Pallet (850 x 500) CNC Machining Center

Phillips Machine Tools India introduces a CNC machining center with enhanced feed rates, tremendous rigidity and excellent machining quality.

MT-800P is a high productivity dual pallet CNC machining center for medium size components. Its high -speed swing type pallet change reduces waiting time during pallet change which results in pallet change in only seven seconds, providing high efficiency and automation features. It is equipped with a direct -drive spindle with speeds of 10,000 rpm making it a versatile choice for a variety of industries including automotive and general engineering.

Rapid traverse rates on 3-axes are 36/36/36 m/ min which effectively reduce non-cutting time. It is designed with high speed, high rigidity and heavy duty type linear ways for increasing circle cutting rate, feed rate and fine milling quality. A special extension is designed for the APC system, in order to avoid non-balance at the outside pallet, which is very different than most manufacturers. This design has increased the rigidity much while machining.

Delivering Value to Maximize Profits

Anne Peng
Sales Manager
L K Machinery

"On the product launch occasion of L. K. Machinery Drill Tap Machines by Phillips Machine Tools India in the Indian market in late 2017, Ms. Anne Peng, spoke about the Indian market as well as about her recent visit for Engimach 2017 Exhibition."

What made you enter the Indian market?

India is among the top growing economies in the world. The growth in its manufacturing and industrial sector is set to propel huge demand for CNC machine tools. Secondly, while China is certainly one of the world's largest manufacturing economy at present, we can see that India also is developing in similar scale with large production factories coming up in various sectors.

Please share your experience about your recent visit to India and Engimach.

I was highly impressed and I felt lucky to have had the opportunity to visit India. The most interesting was the presence of many large scale machine tool manufacturers not only from India but also from countries such as Europe, Japan, Taiwan etc. I could feel the value these companies see in the Indian market.

How are you looking at LK's contribution to the Indian Machine Tool industry?

We provide A TOTAL SOLUTION: we combine our machines with fixtures, automation systems, to satisfy customer requirements in the most efficient and cost effective way to reduce cycle time, in order to maximize clients' profitability and solve their problems in production. In this way, buyers obviously can see what LK's total value is presented, and not just focus on machine price.

How do you look at Phillips as a partner to grow with in India?

Phillips has been continuing to devote time and efforts in India for years. Phillips shares the same principle as of LK Machinery, which is also to assist customers. Phillips culture also tells significantly from great team work, immediate service response and an aggressive customer friendly attitude.

HAAS - Enabling Leonine Deliver Highly Precise, Highly Accurate, High Volume Components

The HAAS VF-2-I series fulfils all the needs of Thane based Leonine Engineers. Phillips HAAS Machine stands to be the best in design, repeatability, consistency and affordability making it a valuable investment in Leonine's outstanding growth.

Team Leonine with their Haas VMC

"One day, one of our new operators encountered an error in our machine during the night shift. The operator called our local HAAS Service Engineer on his phone at midnight. He helped us resolve the error immediately on the phone. I was not aware that this had happened and came to know only the next morning. This kind of support while exceptional is the norm at HFO Phillips. HAAS is a very reliable and trustworthy brand" said, Mr. Mayank Momaya, Director, Leonine Engineers Private Limited.

Getting introduced to CNC Technology

Mr. Mayank Momaya was passionate about engineering and technology since his childhood. In 1976, after graduating with a Mechanical Engineering degree from VJTI, he started working for L&T and later moved to Gabriel India. In 1984, he quit his job and started his own manufacturing facility that made parts for Gabriel.

"We soon realized that CNC is the future of machining and if we wanted to grow, it was important to move from working on conventional machines to having CNC machines in the plant" said, Mr. Momaya, Director, Leonine Engineers Private Limited.

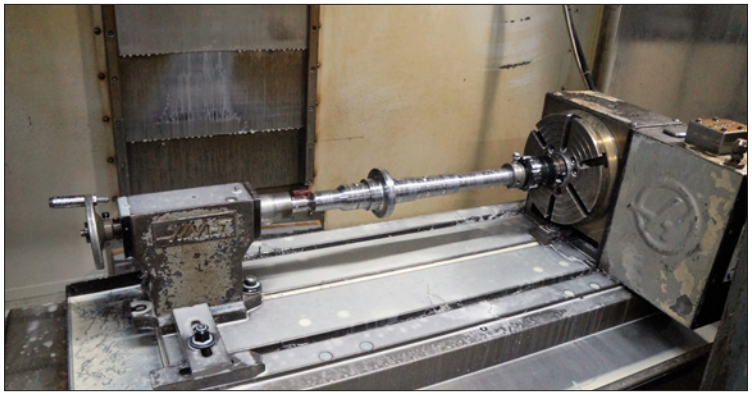
Investing in the Future

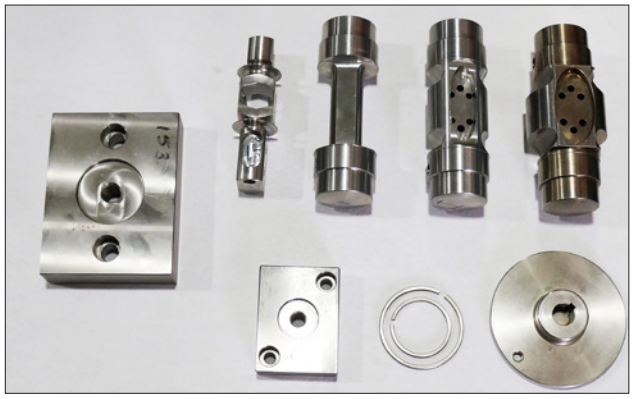
Currently, the company has 6 Vertical Machining Centers: ALL HAAS Equipped with 4th Axis, Probing, TSC and 13 CNC Lathes.

> Leonine appreciates not just the design of machines built by HAAS but also its state of the art control with its dedicated one touch button features, ergonomic key pad with single function keys, large 15" split screen display, USB, Ethernet and 1 GB memory all included standard.

Leonine Engineers
Private Limited
www.leonine.co.in

Leonine Engineers Private Limited based in Thane, India, is an ISO 9001:2008 certified precision machined component manufacturing unit. They have been meeting the needs of high profile industrial OEMs since 1984, providing uncompromising quality in close tolerance parts, competitive pricing, and on time delivery. Their trained and dedicated personnel make Leonine a responsible corporate entity in the global market. They provide their customers with high value, cost-effective, and reliable solutions giving them a definite edge over the competition. Their commitment towards professionalism and years of experience in the local industry enables them to meet the requirements of clients with large and complex projects, while still ensuring each client receives the personal services they expect.





Initiating the Journey with HAAS

In 2008, Leonine got an order for a job to produce a component that required accuracies < 10 microns for which a VMC was an essential requirement. The necessary features required were precision 4th axis, high pressure through spindle coolant and a powerful spindle and control system. HAAS was an obvious choice for Leonine as HAAS manufactures all critical components and options in house and has its own advanced control system.

"In 2007-2008, we bought our first VMC machine, which was a VF-2 from HAAS, and I personally checked HAAS machine's repeatability. If a CNC machine achieves consistent repeatability and sets a benchmark in this key aspect, it means that the machine design is optimum and that is what I got in my HAAS" said, Mr. Momaya.

Continuing the Journey with HAAS

Before selecting HAAS, Mr. Momaya's main concerns were accuracy and affordability. Leonine got outstanding results by using their 1st HAAS VF-2 and decided to increase their capacity by ordering more machines from HAAS. Now the company has three VF-2s', one VF-1, one VF-2SS, and one MINIMILL-2, all from HAAS.

Leonine appreciates not just the design of machines built by HAAS but also its state of the art control with its dedicated one touch button features, ergonomic key pad with single function keys, large 15" split screen display, USB, Ethernet and 1 GB memory all included standard. According to Mr. Momaya "When a manufacturer has its own control, it has tremendous advantages not just during a breakdown but also in optimizing machine performance."

The experience till now with HAAS

"My experience with HAAS has been amazing. HFO Phillips India not only has an excellent technical team, but it also provides an outstanding customer experience" said, Mr. Momaya.

Leonine is very happy with the line-up of machines provided by HAAS. The best examples are the VF-2-I and VF-4-I machines, which have been priced keeping the Indian market in mind.

Future with HAAS

According to Leonine, the support provided by HAAS is outstanding. "I will definitely consider buying HAAS machines in the future. HAAS machines have not only helped me increase my productivity, but also have helped me to enhance the quality of my finished products," Mr. Momaya concluded.

HERMLE gears up to enthrall visitors in open house at Gosheim

Maschinenfabrik Berthold Hermle AG welcomes visitors to its annual Open House event at its Technology and Training Centre in Gosheim from 18 - 21 April 2018. Like every year, a large number of visitors are expected to attend, to keep abreast of the latest development trends in milling, milling-turning and generative manufacturing at Maschinenfabrik Berthold Hermle AG.

Visitors will get to witness innovative machine models from the Performance-Line and High-Performance-Line, which illustrate the output spectrum of Hermle AG in a wide range of configurations. Some of the models are designed with cutting-edge automation tools, various pallet changers, and robot systems.

A complete production hall will be converted into a small trade fair, accommodating numerous exhibitors from the sectors clamping technology, CAD/CAM, software and control technology. Besides, interesting lectures from professional practitioners, factory tours will provide the visitors with an ideal platform to discover more about Hermle and its products first hand.

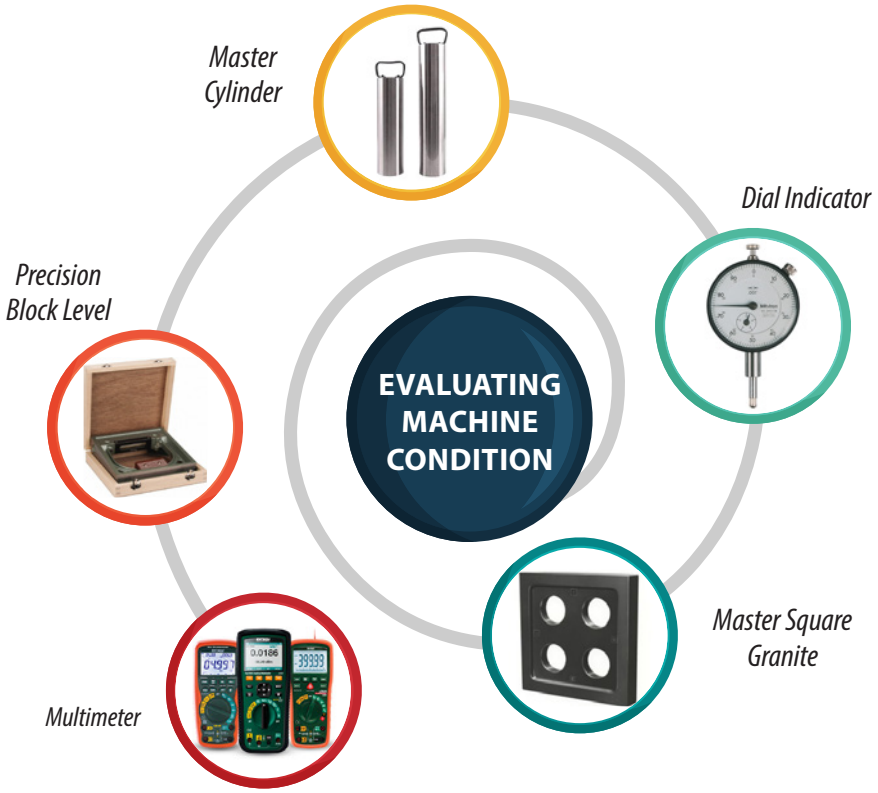
Phillips Machine Tools India represents Hermle in India and makes Hermle products and solutions available across various locations in the country.

During the last edition of the event in 2017, there was an encouraging turnout of more than 2,700 visitors from 1,200 companies, including 900 international guests. There were visitors from over 30 countries.

Precision Makes Machining Perfect!

Maintaining Right, Machining Right Part II

We started this series 'Maintaining Right for Machining Right' where we are focusing on precision measuring instruments that are inevitable for maintaining machine conditions at optimum level and reducing breakdown incidents. In the first part of the series, we discussed about Belt Tension Measurement, Spindle Mandrel, Clamp force gauges, Ball Bar instruments and Laser Interferometer. In this part, we are focusing on Precision Block Level, Dial Indicators, Master Cylinder and Master Square Granite, Multimeter.



Master Cylinder and Master Square Granite

These instruments are used mainly for gauging, inspection, squareness testing and for checking three axis geometric accuracies of machine tools. Master Cylinders, Squares provide most reliable reference standards for checking of squareness of vertical axis with reference to horizontal axis. Cylindrical Squares are made of quality steels. Granite Squares provide one of the most reliable squareness inspection references. Work is positioned against the square and sighted for checking squareness of components by comparison method. Granite Squares are also used for checking squareness of measuring axis in Co-ordinate Measuring Machines and geometrical alignment of machine tools. Granite block master (square) is very stable and rigid, providing the ultimate in squareness references. Granite block master (square) are made from selected black granite stone.

Dial Indicators

This is the basic instrument used in every machine shop. The axis backlash, repeatability and spindle sweep can be measured on periodic basis with these instruments. The readings from the instrument are used to accurately measure small distances and angles, and amplify them to make them more obvious.

Multimeter

A Multimeter or Volt-Ohm meter, is a device used to measure voltage, current and resistance. Multimeter might be analog type Multimeter or digital Multimeter, depending on the type of circuit being used. Normally, these hand-held devices are very useful to detect faults or provide field measurements at a high degree of accuracy.

Precision Block Level

This instrument is used to ensure that the machine base is not distorted. The bed is levelled by observing bubble in instrument of accuracy 0.020mm/meter. It is important as the transmission element ball screw and bearing also can be affected over a period of time if bed is not levelled properly. The machine squareness is not correct if bed is not leveled within tolerance limits.

In the next series of 'Maintaining Right for Machining Right Part III' we will bring you information about more such precision measurement instruments such as Megger, Laser Thermometer, Vibration Analyzer, Torque Wrench.

PHILLIPS Machine Tools Technical Centers and regional locations throughout India have one or multiple sets of these tools/instruments. 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 bags 'Best Technology on Display Award' accolade at MachAuto Expo 2018

Phillips Machine Tools India bagged the 'Best Technology on Display Award' racing ahead of more than 400 exhibitors globally across 11 nations at MachAuto Expo 2018. Added to this, it bagged orders of more than 20 machines in the presence of more than 1,200 brands.

Salil Jain
General Manager - North
Phillips Machine Tools India

"The Machine Tool industry is key to the government's flagship 'Make in India' and 'Skill India' initiatives. We are looking at offering end-to-end solutions, which will help the end users."

Phillips India tasted doubled success by grabbing the 'Best technology on Display Award' as well as seizing the orders of more than 20 machines at this exhibition. These awesome feats categorically endorse the company's leading position in India's biggest Micro Small and Medium Enterprises (MSME) congregation pertinent to engineering and manufacturing of machine tools and automation technology.

Phillips India exhibited the following products at this exhibition: HAAS VF-4-I & ST-10Y (an optimum, user-friendly CNC control), LK-TC 510 (a vertical CNC tapping center), Kent KGS-84AHD (a 3-axes automatic surface grinder), Tsugami M08J-II (a turning machine), and Pinacho SE 200×750 (a machine with the combination of lathe and the advantages of CNC).

To facilitate adequate attention to visitors, Phillips India had in place at least one Applications Engineer & sales consultant per machine. It received an overwhelming response from more than 1,000 visitors who visited our booth & provided positive feedback that they had been benefited by the helpful demeanor and crystal-clear explanations of our engineers. Our visitors opined that we reinforced our tagline 'Think Machine Tools, Think Phillips' by displaying disparate machines (milling, turning, grinding, etc) under one roof. Our HAAS VF-4-I was the machine demanded mostly by the visitors.

Phillips India's machines are of utility to various sectors such as Aerospace, Agriculture equipments, Automobile and Auto components, Defense, Earth Moving equipments, Electrical and Electronics, Infrastructure, Material Handling, Medical Engineering, Oil and Gas, Plastics, Railways, Research and Development Organization, Telecom, and Textile Machinery, among others.

MachAuto Expo was the ideal foundation for visualization of quality through competitiveness. It endeavors to boost the slogan 'Make in India.' It is a unique gathering of eminent industrialists and businessmen to appraise the technologies and innovations that are propping up in the world. MachAuto Expo 2018 boasts of more than 50,000 visitors; more than 15,000 products and services; and more than 700 running machineries.

This exhibition was organized by UDAN Media and Communications Pvt. Ltd. On this occasion, Mr. G. S. Dhillon, MD UDAN, remarked that the current 7th edition of this expo was very well received. . This expo was supported by Auto Parts Manufacturers Association, Association of Ludhiana Machine Tools Industries, Apex Chamber of Commerce and Industry Ludhiana, Fastener Manufacturers Association of India, and Tractor Parts Manufacturers Association Ludhiana.

Phillips India is a worldwide supplier of products and services relevant to manufacturing technology. The company has completed more than 10 years in India during which it has successfully done more than 10,000 installations. It has ventured into robotic integration and offers state-of-the-art integration to facilitate its customers to stay ahead of the competition. It designs, amends, delivers, and installs a complete robotic integration system.

The credit of this award goes to VF-2-I and VF-4-I, the most-acclaimed machines in the market.

Phillips steps ahead in Customer Experience

"The Phillips Machinist" newsletter launched at Engimach 2017.

The first copy was received by Mr. Senthil Kumar, Director, Leo Precision Products, Silvassa from Mr. David Harris, Vice President-Service, Phillips Corporation. Mr. Terrence Miranda, Managing Director, Phillips Machine Tool India & Mr. Saravanan, MSN Precision, Silvassa can be seen to the left.

Being the world's largest and India's leading machine tools solutions provider, Phillips Machine Tools India launched its Newsletter "The Phillips Machinist" at the recently concluded Engimach 2017 Exhibition, Gandhinagar, Gujarat.

Engaging our customers and creating a fun, interactive and informative customer experience is of prime importance for us at Phillips. We do this in various ways and continue to innovate to deliver value and build connect with our extended Phillips family of customers, vendors and the machine tool community at large.

Recently the PHILLIPS Machine Tools India website was re-launched with updated content. The Phillips Machinist App is a unique app designed with the machine tool user in mind and works on both Android and iOS platforms.

TPM: THE PHILLIPS MACHINIST will be a bi-monthly newsletter, which will include the details of our latest product and service offerings; case studies from leading manufacturers, tech highlights from the machine tool and additive world, machine maintenance and a lot more.

Response and feedback regarding our inaugural issue of TPM during the ENGIMACH show and subsequently motivates us to take this newsletter to the next level. Want to subscribe to TPM newsletter, mail us at support.india@phillipscorp.com

Senthil Kumar

Director, Leo Precision Products
Silvassa

"The Phillips team delivers what they commit and they are very practical in their approach. HAAS machines are excellent providing quality, affordability and operational efficiency. I keep recommending products and services from Phillips Machine Tools to vendors, associates, and suppliers."

HAAS VF-4-I

Did You *Know?*

HAAS VF-4-I Engimach 2017 Showstopper!

HAAS VF-4-I, the latest innovation offered by Phillips Machine Tools India, stole the show and received rave reviews for its custom configured features for the Indian market. HAAS VF-4-I, manufactured in Oxnard, California, USA, has the industry leading, user-friendly HAAS CNC control with an updated user interface and improved connectivity. It is configured with the popular India Value Package. In the words of a highly satisfied customer, the powerful HAAS spindle, 24+1 SMTC and high-speed machining options helped his company reduce cycle time and improve part accuracy and consistency.

Phillips Performance Evaluation

PPE

ENHANCING

- Flexibility
- Productivity
- Profitability
- Longevity
- Reliability

PPE: A Service Exclusively Offered To HFO Phillips – HAAS Machine Owners

Factory Certified Service for your most valuable investment with our complete expertise & knowledge.

PPE: How We Do It?

Our HFO is equipped with state-of-the-art instruments and factory certified service engineers to make our PPE program most effective.

Phillips Performance Evaluation (PPE)		
Part#	**Description**	**Original Value**
PPE	Geometry Inspection	₹ 15,000
	Ball Bar Calibration	₹ 7,500
	Drawbar Force Test	₹ 2,500
	Vibration Analyser Spindle	₹ 5,000
	Analyses report with recommended service/part	NA
Total Value		₹ 30,000
Value Under PPE		**₹ 20,000**

VALUE OFFER

₹10,000* per machine

*For more than 20 Machines

For More Information, Visit:
www.hfophillips.com/ppe