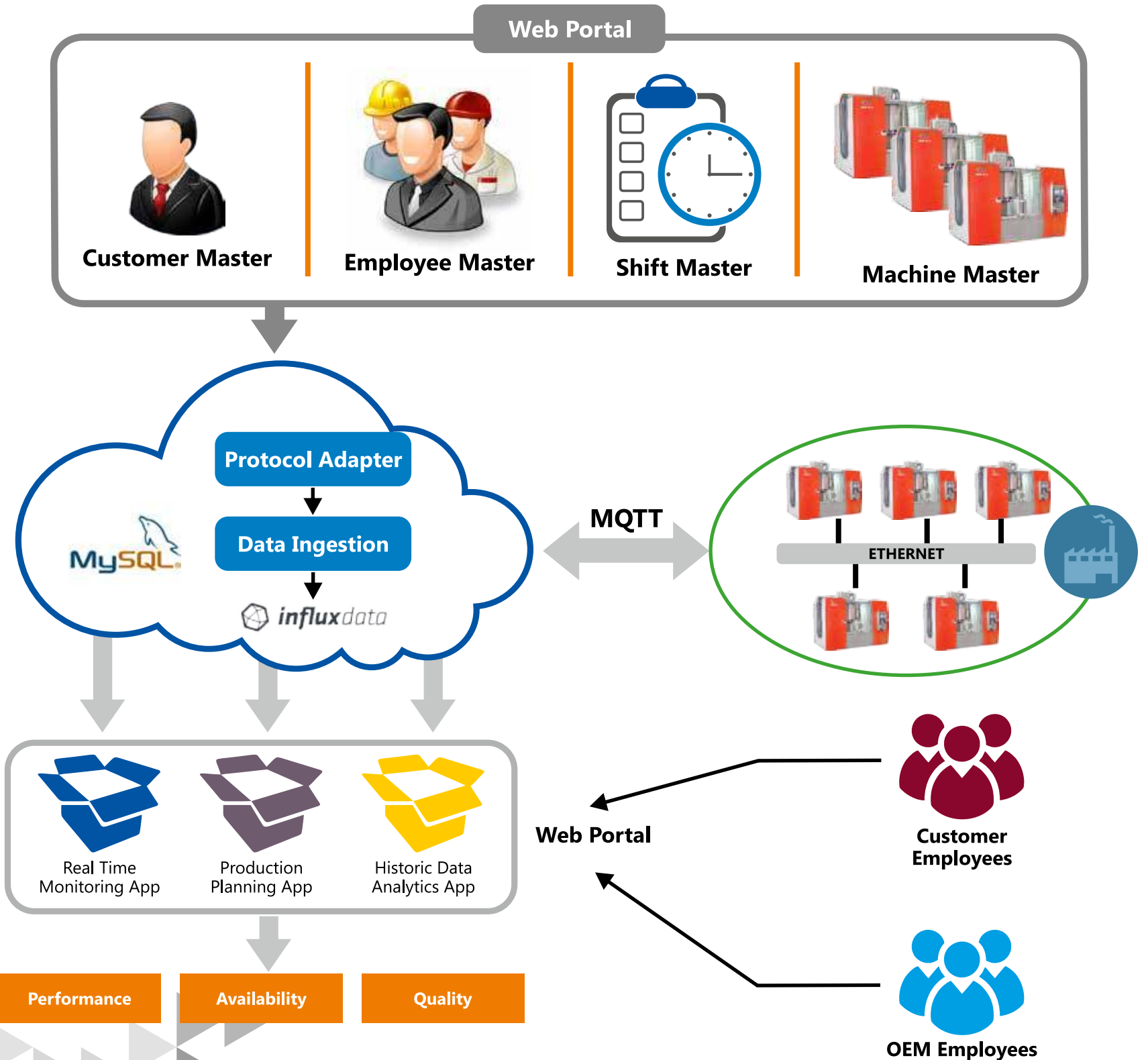




## Iris: Application Context



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# PL Series



PL 360



PL 360 Twin Chucker



PL 500 EX



PL 500 S



PL 600 S



PL 600 R-Y

# SPM



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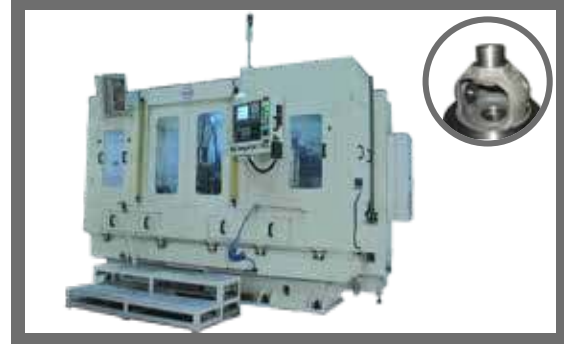
Axle Housing SPM



Tripod SPM



2 Way Horizontal SPM



Spherical Milling Machine



26 JAN - 1 FEB 2017

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# SHOW DAILY

The official showdaily of IMTEX 2017

DAY 4 | SUNDAY, JANUARY 29, 2017

PUBLISHED BY



Indian Machine Tool Manufacturers' Association

VENUE



Bangalore International Exhibition Centre



Approved Event

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### Liquid Tool

## THE JOURNEY So Far

**"Serving comes before earning" – This is the customer-focused corporate value under which the Swiss lubricant manufacturer Blaser Swisslube is celebrating its 80<sup>th</sup> company anniversary. Read on to know about their journey so far...**

🇬🇧 Blaser Swisslube started its humble beginnings with a water-repellent shoe polish—"Blaha-Glanz" in 1936. Since then, the company has grown leaps and bounds & has its own subsidiaries and channel partners in around 60 countries across the globe and employs a total of 600 employees—300 of which are in Switzerland.

### From metalworking fluid to Liquid Tool

The company continued to develop its all-round expertise on metalworking fluids and inaugurated its very own Technology Center in 2009, which is unique in the industry (~ 3500 sq m).

Managing Director, Blaser Swisslube AG, Marc Blaser avers, "Our Technology Centre is truly state-of-the-art and enables us to carry out stringent tests on new metalworking products and system solutions. It also ensures that we are able to work in partnership with customers helping them improve their productivity, economic efficiencies and machining quality by

Blaser Swisslube India Pvt Ltd  
www.blaser.com  
Hall 3A, Booth A119



Machining test setting.

### Liquid Tool

## सफर अब तक 'कमाई से पहले सेवा'

इस ग्राहककेन्द्रित कोर्पोरेट मूल्य के आधार पर स्वीझ सिग्धकारी द्रव्य उत्पादक ब्लेसर स्विझल्यूब अपनी कम्पनी की 80वीं वर्षगाँठ मना रही है। उनके अब तक के सफर के बारे में जानने के लिए आगे पढ़िए।

🇮🇳 ब्लेसर स्विझल्यूब ने वर्ष 1936 में पनरोधक जूते के पॉलिश ब्लाहाग्लान्ज की निर्मिती से छोटे से पैमाने पर अपनी शुरुवात की। तब से कंपनी ने दिन दुगुनी रात

### Liquid Tool

## 到目前為止；屬於他們的企業之旅

先講求做好服務，而不是考慮營收-這是以客戶為中心的企業價值，瑞士的潤滑油製造商BLASER SWISSLUBE，日前慶祝公司成立80週年。讓我們一起來閱讀，到目前為止；屬於他們的企業之旅。

🇨🇳 BLASER SWISSLUBE於1936年，由販售"BLAHA-GLANZ"，一種防水的鞋油，這個產品起家。時至今日，

### Liquid Tool

## Die REISE Bisher

**"Dienen kommt vor dem Verdienen" – Dieses ist die kundenfokussierte Wertevorstellung, damit die Schweizerische Schmiermittel Hersteller Blaser Swisslube Ihre 80. Jubiläum feiert.**

🇩🇪 Blaser Swisslube hat einen bescheidenen Anfang in 1936 als einen hydrophoben Schuhcrem Hersteller unter



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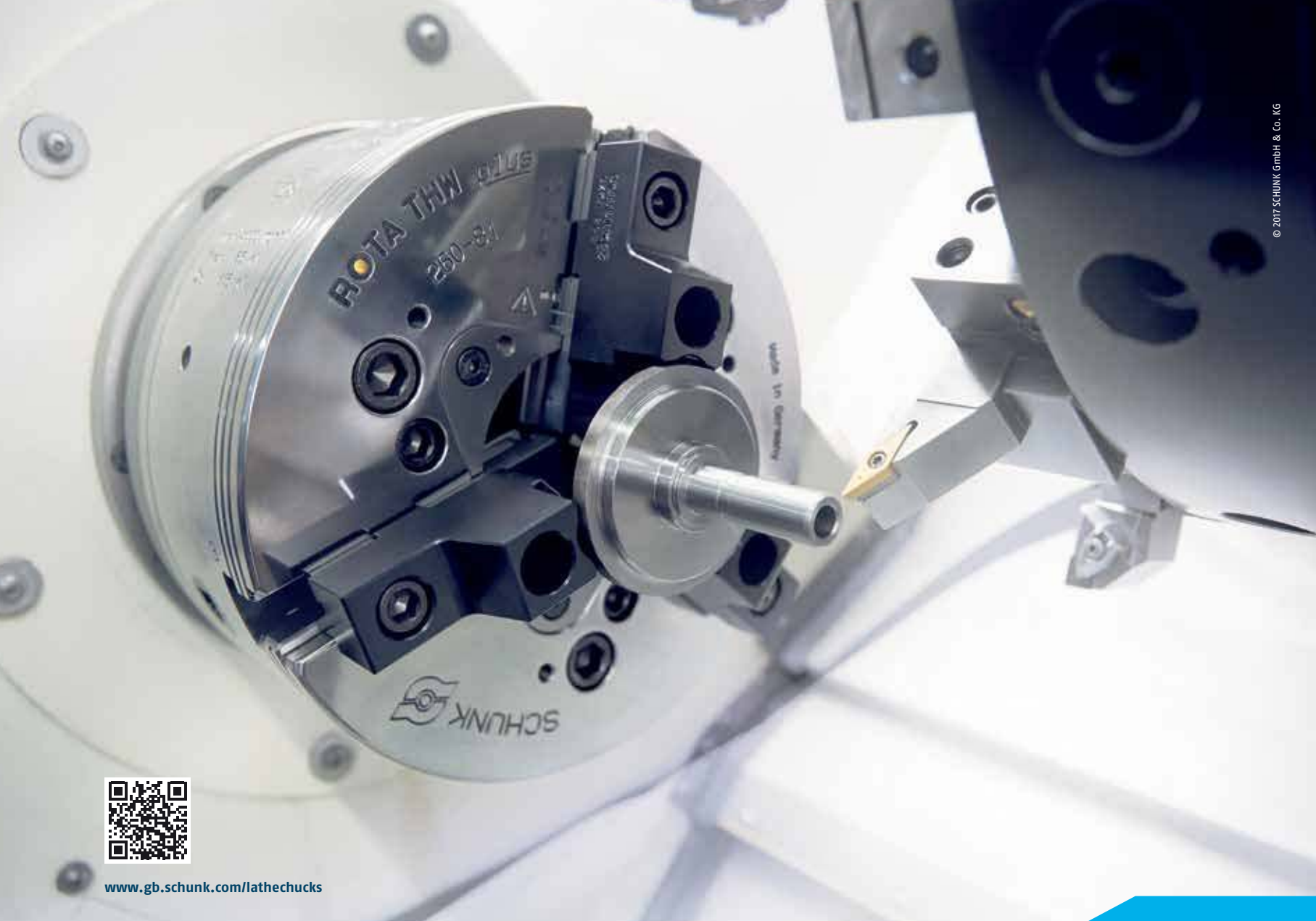
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**We are able to work in partnership with customers helping them improve their productivity, economic efficiencies and machining quality by identifying and developing metalworking fluid solutions that are tailored exactly to their needs."**

**Marc Blaser**  
Managing Director  
Blaser Swisslube AG

From page 1 ▶

identifying and developing metalworking fluid solutions that are tailored exactly to their needs, which we call a Liquid Tool."

### Doubling of the tool life

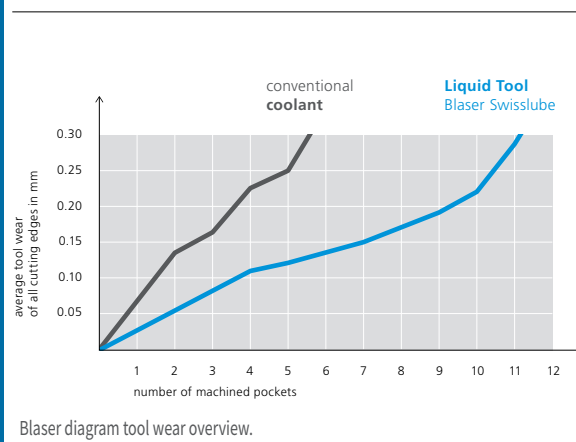
Recently to assist a partner—who manufactures and supplies aircraft parts made from a high-strength titanium alloy globally—to optimise their tool life during pocket machining, experts from Blaser's Technology Centre in Hasle-Rüegsau conducted a range of tests.

Reconstructing the partner's machining environment and employing the same machining parameters and data using a DMG Mori DMU 65 mono block machining centre, the experts began comprehensive tests through trochoidal milling strategies.

The tests compared machining performance (specifically tool wear) when using a conventional metalworking fluid vs. an optimal metalworking fluid specifically adapted to the partner's needs. The series of the width of wear tests were conducted up to 0.30 mm.

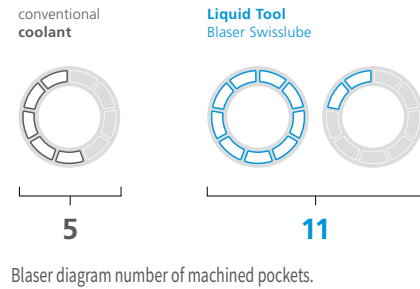
The results were excellent. Using the optimally adapted coolant from Blaser Swisslube, 11 instead of just 5 pockets could be milled until the wear on the tool forced the processing to be stopped. The result achieved was confirmed in various series of tests, and corresponds to a doubling of the tool life.

### tool wear overview pocket machining



### pocket machining in high-strength titanium alloy – after three tests

number of machined pockets per tool  
(tool wear of 0.30 mm)



चौगुनी प्रगति की और आज विश्व के 60 देशों में उनके अपने सहायक कंपनियों और प्रणाली भागीदार फैले हुए हैं तथा 600 कर्मचारी हैं, जिनमें से 300 स्विट्ज़रलैंड में हैं।

### धातु तरल पदार्थ से तरल उपकरण तक

इस कंपनी ने अपने धातु तरल पदार्थ के सर्वव्यापी निपुणता को विकसित करते हुए वर्ष 2009 में अपने प्रौद्योगिकी केन्द्र का उद्घाटन किया, जो इस उद्योग में अद्वितीय है। (3500 चौ मी)।

ब्लेसर स्विस्ल्यूव अे जी के प्रबंध संचालक मार्क ब्लेसर कहते हैं, "हमारा प्रौद्योगिकी केन्द्र वास्तव में अत्याधुनिक है, इसके परिणामस्वरूप हम नये धातु से जुड़े उत्पाद तथा प्रणाली उपाय पर कड़े परीक्षण करने के लिए सक्षम है। यह इस बात को सुनिश्चित करता है कि हम अपने उपभोक्ताओं की सहभागिता के साथ अपनी उत्पादक क्षमता, आर्थिक निपुणता और यंत्र की गुणवत्ता तथा धातु तरल पदार्थ के उपाय का विकास उनकी ज़रूरत के अनुसार यथातथ्य बनाते हैं, इस प्रक्रिया को हम तरल उपकरण कहते हैं।

### उपकरण की दुगुनी आयु

हाल ही में ब्लेसर के हासलरुसॉव स्थित प्रौद्योगिकी केन्द्र में एक भागीदार जो उच्च ताकत के टायटेनियम मिश्रित धातु से बने हवाई जहाज के भागों का उत्पादन करके विश्व में उपलब्ध करता है, उस भागीदार के लिए विविध परीक्षण किये गए।

भागीदार के यंत्र उत्पादन का पुनः निर्माण कर और उत्पादन के सभी मापदंड तथा जानकारी का इस्तमाल डी एम जी मोरी डी एम यू 65 मोनो ब्लॉक यंत्र केन्द्र में करते हुए विशेषज्ञों ने वक्राकार रेखांकन कार्यनीति से व्यापक जाँच करना शुरू किया।

परंपरागत धातु तरल पदार्थ बनाम इष्टतम धातु तरल पदार्थ, जो भागीदार की ज़रूरत के अनुसार खास तौर पर अनुकूलित किया गया, इन दोनों के इस्तमाल में यंत्र की कार्यक्षमता (विशेषतः उपकरण के रगड़) की जाँच की गई। चौड़ाई के घिसाव को समझने के लिए परीक्षण की शृंखला 0.30 मी मी तक की गई। परीक्षण के परिणाम उच्छ्रित रहे। ब्लेसर स्विस्ल्यूव के शीतलक इष्टतम अनुकूल उपयोग के परिणामस्वरूप पाँच पैकेट के बजाय 11 पैकेट पीस सके, जिसके बाद उपकरण के घिसाव की वजह से प्रक्रिया को रोकना पड़ा। विविध शृंखला में किए गये परीक्षण से यह साबित हुआ कि नतीजे सही थे और उपकरण की आयु दुगुनी हुई।

इस कंपनी ने अपने धातु तरल पदार्थ के सर्वव्यापी निपुणता को विकसित करते हुए वर्ष 2009 में अपने प्रौद्योगिकी केन्द्र का उद्घाटन किया, जो इस उद्योग में अद्वितीय है। (3500 चौ मी)।

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Source: Blaser Swisslube India Pvt Ltd

den Markennamen „Blaha-Glanz“ gemacht. Seit 1936 ist die Firma sprunghaft angestiegen und hat Niederlassungen und Partnern in 60 Ländern mit knapp 600 Mitarbeitern aufgebaut – 300 davon in der Schweiz.

### Von Schmierstoff bis Liquid Tool

Die Firma hat Ihre Expertise im Bereich Schmierstoff für Metallbearbeitung kontinuierlich entwickelt und hat bereits in 2009 ein einzigartig Technologiezentrum (~ 3500 sq m) eingeweiht.

Geschäftsführer, Blaser Swisslube AG, Marc Blaser sagt, „Unsere Technologiezentrum ist mit der aktuellsten Stand der Technik ausgestattet, um die strengsten Prüfungen im Bereich neue Schmierstoffe durchzuführen. Dieses Technologiezentrum bietet die Möglichkeit mit Kunden zusammenzuarbeiten. Dabei können wir die Produktivität, ökonomische Effizienz sowie die Verarbeitungsqualität erhöhen. Demzufolge, identifizieren und entwickeln wir neue Schmierstoffe die für die Bedürfnisse der Kunden maßgeschneidert sind. Diese Möglichkeit nennen wir als Liquid Tool.“

### Verdopplung der Lebensdauer des Werkzeugs

Neulich, um einen Geschäftspartner, der Bauteile für die Luftfahrtindustrie aus Hochfeste Titanlegierung herstellt und zuliefert, zu unterstützen, wurden eine Reihe von Versuche an der Blaser Technologiezentrum in Hasle-Rüegsau von Experten durchgeführt. Das Ziel war die Optimierung der Werkzeuglebensdauer. Bei den Untersuchungen, wurde die Metallbearbeitungsumgebung nach Kundenspezifische Wünsche nachgebaut. Die gleichen Einstellungen, wie beim Kunde, wurden durch den Einsatz von DMG Mori DMU 65 monoblock Bearbeitungszentren, eingestellt. Bei den Versuchen wurden Zerspanungsleistung bzw. Werkzeugverschleiß, zwischen herkömmliche Schmiermittel und ein, nach Kundenbedürfnissen maßgeschneiderte Schmiermittel, verglichen. Die Ergebnisse der Testversuche waren sehr vielversprechend. Durch den Einsatz von einem Kühlmittel von Blaser Swisslube, wurden 11 Taschen statt die übliche 5 Taschen bis zum Werkzeugverschleiß gefräst. Die Ergebnisse wurden in mehrere Testreihen bestätigt und stellten die Verdopplung der Lebensdauer des Werkzeugs dar.

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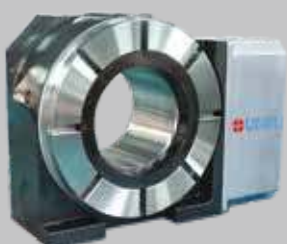
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Source: UCAM India Pvt Ltd

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# Impacting the MANUFACTURING SECTOR!

**IMTEX 2017 has been a versatile platform to state-of-the-art technologies related to machine tools. Visitors at the event voice their experience.**

**Wider Space Hosts a Big Trade Fair**

"This is my first visit to IMTEX. In Bangalore International Exhibition Center (BIEC), this is an amazing story. The exhibition industry covers 15 to 20 different industries in the world. It was fascinating for me to see the incredible new technology, especially the robotics that enables the machine tools industry to thrive. My expectation before coming here for the show was – BIEC would be very large, I mean, probably more than 100 thousand people, 60,000 square metre of space. But it has exceeded my expectation."

*David Dubois  
President & CEO  
IAEE, Dallas*



**The Best Place for Contact Development**

"We are soon organising a Technology & Innovation fair for our industries in Mauritius. I believe that through IMTEX, I have been able to secure a lot of contacts of the Indian suppliers of machinery and tools. I am highly satisfied. IMTEX 2017 has created a very good platform for all segments related to machine tools. Especially, I thank the organisers – as it has been very nicely organised. It is very easy to move around, meet people and conduct B2B meetings."

*Phalraj Servansingh  
Managing Director  
Small & Medium Enterprises Development Authority (SMEIDA), Mauritius*



**Impressive Multi-axes & CM Machinery**

"We are going to make fifteen new tool rooms. So, we are scouting for new machinery. WE wanted to list out the new types of machines and new suppliers. Apart from that we were looking for machines for training – say like simulators, robotic application demonstrators etc. I am satisfied to a great extent. In fact, many five axes and robotics-based machines are here. Interestingly, this time lots of Coordinate Measuring Machines (CMMs) are on display."

*Indrakumar Hariramani  
General Manager  
Indo German Tool Room  
(Under Ministry of MSME),  
Ahmedabad*



**Good Focus on Machines & Metrology**

"We are basically in the field of Defence equipment manufacturing. Ordnance factory produces arms and ammunitions. We are using many CNC machines. Now, we are looking at modernising our factories wherever possible. IMTEX is the right platform to see whatever latest machinery is available in the market. My experience is quite satisfactory. I have seen new things like – integration of gauging systems with the machining systems, high-end accuracy machines and several modern measuring instruments."

*Vijay Kumar Ghadge  
Joint Director  
Govt. of India, Ministry of Defence  
Ordnance Factory Board, Kolkata*



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Source: UCAM India Pvt Ltd

UCAM India Pvt Ltd  
www.ucamind.com  
Hall 2A, Booth A102

Rotary Table

# DIRECT DRIVE Tilting Rotary Table

UCAM is showcasing innovative solutions of rotary tables for 4<sup>th</sup> Axis & 5<sup>th</sup> Axis solutions in its portfolio.

The Direct Drive Tilting Rotary Table—UDDR-500-TN—is built with Torque Motors from Nimble Electric (A division of UCAM). The specialty of this product is that it can be used as an add-on 4th Axis & 5th Axis tilting table on an existing 3 axis machine or it can be directly integrated into the 5-axis machines. The continuous torque achieved is 230 Nm @ 120 rpm in the rotary axis and 685 Nm @ 60 rpm in the tilt axis. With a tilting range of +/-110 this rotary table gives greater flexibility to do complex multi set up jobs in a single set up. Using a direct measuring encoder, it is able to achieve +/-5" accuracy on the rotary axis.

Innovation

# Automating for EASE

New Rotary Axis Controller designed and developed by UCAM, is INDUSTRY 4.0 ready.

Jamun—The new Rotary Axis Controller is enabled for IIoT wherein it is Wi-Fi enabled and can be linked to Android enabled smart phones so that it can be programmed and controlled through the smart phone itself. A special 'App' is made available for smart phone operations. The control display is dual mode, i.e., primary or fixed display in the Rotary Axis Controller and the secondary, is the android app based display.

The controller offers flexibility to customers to run the CNC Rotary Table as a positioning axis on machines that do not have option of the 4th axis. The Rotary Table can be positioned to any angle with least count of 0.001°. Thus, a 3-axis machine can be converted to 3 + 1 axis enabling users to machine multi set up component operations in a single set up.

Source: UCAM India Pvt Ltd



UCAM India Pvt Ltd  
www.ucamind.com  
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10

CONTENT & DESIGN

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HCN-4000

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▼ Gear Box



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INTEGREX i-200

▼ Aerospace component : Blisk



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▼ Aerospace component : Fitting



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26<sup>th</sup> JANUARY to 1<sup>st</sup> FEBRUARY 2017  
Hall No. 2A | Booth No. A112



12

Winners will be selected through a DAILY LUCKY DRAW at 4:30 PM  
Hall No. 2A Booth No. A112



PLEASE FILL IN YOUR DETAILS AND ANSWERS BELOW  
(ALL FIELDS ARE MANDATORY)

1. Which year India's First CO2 Laser Cutting Machine was built? and Who built it?
2. Which Rupee Notes were demonetized recently?

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DESIGNATION: \_\_\_\_\_

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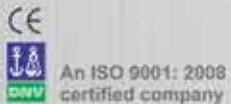
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\*Fill the Form and drop your answers at SLTL Stall.



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Hall 1B



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TwinSpindleColumnMovingMachiningCenterCMV-350TS from the Micromatic Machine Tools, is a compact machining centre is designed for outstanding dynamic rigidity. Its isolated working zone enables better chip and coolant management system. It features two parallel spindles that enables simultaneous machining of two identical work pieces; hence reduces the cost per component due to reduction in cycle time per component. With a faster pallet changing time of 8 sec with 600 kg load per side, the machine increases productivity.

The machine can accommodate rotary tables on both sides and also as a chip to chip time of 4 seconds. It is deal for use in high volume production of identical components.



Source: Ace Manufacturing Systems Ltd

**Ace Manufacturing Systems Ltd**  
www.amsl.in.com  
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## CONNECT

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Date	Session 1 CEO Connect (1600 - 1630 hrs.)	Session 2 Industry Connect (1645 - 1715 hrs.)
29 Jan 2017	<b>ACE</b> Mr. SG SHROUINIKAR	<b>TaeguTec</b> Mr. L. KOBAYASHI
30 Jan 2017	<b>JYOTI</b> Mr. PG JADEJA	<b>UCM</b> Mr. NIKHIL DEVI BARU
31 Jan 2017	<b>AceMicromatic</b> Mr. TK RAMESH	<b>MAKINO</b> Mr. RASHMI BACHHA TV

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Source: Atlantic Lubricants & Specialities Pvt Ltd

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Source: SCHUNK Intec India Pvt Ltd

**SCHUNK Intec India Pvt Ltd**  
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Multi-tasking Machines

# INDUSTRY – ACADEMIA

## Collaboration bears Fruit

**MTX 300 is a unique machine indigenously designed and built to cater to the needs of nuclear, defence, aerospace and automotive sectors.**

The Centre of Excellence on Machine Tools and Production Technology at IIT Madras, set up by the Department of Heavy Industry (DHI) in association with IMTMA, to promote R&D in machine tools and associated engineering sectors. The development of the MTX300 Multi-tasking Machine culminated from one of the projects taken up,

in 2015, by IITMadras and Jyoti CNC Automation Ltd. The machine is unique and the first of its kind that integrates the capabilities of a horizontal turning centre and machining centre into a multi-tasking machine. It is capable of performing 2-axis turning to 3-axis milling as well as complicated multi-axis milling and turning of workpieces on a single machine with the same set up. It can accomplish complex simultaneous 5 axes machining, up to six sides machining, to produce components such as aircraft landing gears, blisks, blades, gun barrels, casings of tanks and armoured carrier vehicles.

“The complex machine was built owing to the engagement of faculty and students of IITMadras with the design and development engineers of Jyoti CNC Automation Ltd,” informs Prof N Ramesh Babu, V Balaraman Institute Chair, Manufacturing Engineering Section, Department of Mechanical Engineering, Indian Institute of Technology Madras. The machine is being demonstrated at the Jyoti CNC Automation Booth, at IMTEX.

**Jyoti CNC Automation Ltd**  
www.jyoti.co.in  
Hall 4, Jyoti Pavilion



Source: Jyoti CNC Automation Ltd



**Bharat Fritz Werner (BFW)** continued with its invitation-only lecture series on 'Leveraging Research for Innovative Manufacturing' with a session by **Dr M Annadurai**, Director, ISRO Satellite Center (ISAC), Bengaluru. The topic for the second day was "Managing Large and Complex Projects to Success – Engineering & Managerial Challenges, Case: Mission Mangalyan"



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**Bharat Fritz Werner**  
www.bfwindia.com  
Hall 1A, Booth A102

Source: Bharat Fritz Werner

CNC

# CHANNELISING young ideas

**BFW harnesses the power of the youth in developing its product range of the future.**

Many of the BFW machines being displayed at the ongoing IMTEX 2017 at BIEC, Bangalore have been developed by young designers, "Some of them are only a year out of college," beams Ravi Raghavan, Managing Director, BFW. These new products

include 5-axis multitasking machines, travelling columns, turning machines and more. The company has a mentorship system where their Chief Engineers with years of experience guide their young colleagues through the design and development of new products. "We probably have some of the industry's most experienced engineers in our company," iterates Raghavan. Young designers have been given complete freedom, support infrastructure & able guidance from their mentors for molding their ideas into sustainable innovation.



Ravi Raghavan, Managing Director, BFW



Source: United Grinding Group AG

**United Grinding Group AG**  
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Hall 6 | Stall No. B101  
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Global Infrastructure

# CELEBRATING A Decade Of Excellence

**Bangalore International Exhibition Centre (BIEC) recently completed 10 years. The milestone was celebrated with a commemoration programme on 28 January 2017. Highlights of the momentous event...**

"I am extremely pleased to be a part of this historic occasion of BIEC completing Ten years," said R V Deshpande, Minister for Large and Medium Industries and Infrastructure Department, Government of Karnataka, and Guest of Honour at the Tenth Anniversary Celebrations for Bangalore International Exhibition Centre held during the third day of IMTEX 2017.

"Opportunities don't happen by chance, you create them," remarked Parakram Singh Jadeja, President - IMTMA, "Had it not been for the think tanks and founding fathers of IMTMA who had the vision, we would not have had this infrastructure facility."

Developed and maintained by IMTMA, BIEC is the only Exhibition Centre in the world conceived and created specially for a flagship exhibition.

### The journey

"It is not the job of an industry association to build an exhibition centre," remarked Tarun Das, Former Chief Mentor - CII and Founding Trustee, Ananta Aspen Centre. Das has been part of the journey since the very inception of IMTEX.

"Having witnessed first-hand what exhibitions in Europe and US could

do to manufacturing, the think tank of Indian machine tool industry were aware of the potential of industrial Exhibitions in India," said Jamshyd Godrej, Chairman - BIEC.

Started in 1969 at the Godrej & Boyce premises in Vikhroli, IMTEX soon became one of the premiere trade fairs in the country. Das recalls with pride when Rajiv Gandhi, then Prime Minister of India, had flown down to the exhibition grounds, then in Mumbai, to visit IMTEX. The exhibition owes much of its existence and success to the vision of Naoroji Pirojsha Godrej.

"As the show was growing, over the years IMTMA felt that hosting an exhibition such as IMTEX required a world-class exhibition infrastructure, so as to demonstrate machines in 'working conditions' similar to what exists in factories," continued Jamshyd Godrej.

### Worthy patrons

"BIEC is the realisation of Naoroji's vision," recalls Das. The 10th Anniversary celebration of BIEC happens to coincide with the Birth Centenary Year of Naoroji Godrej. As a homage to the industrial visionary, a short film was exhibited at the ceremony.

In their aspirations, IMTMA received

ample support from the Government of Karnataka. "I firmly believe that investments are essential to the growth of the state," opined Deshpande, "The Government of Karnataka is committed to support industry in this regard."

A valuable ally was Deutsche Messe AG, a world leader and pioneer in trade fairs from Germany. Dr Andreas Gruchow, President - UFI and Member of the Managing Board, Deutsche Messe AG recalled, "The first time I visited this venue, it was still new and much smaller, but looking at the glowing eyes of the men running the show, I knew they would have a prosperous future. Deutsche Messe has played an important part in mentoring the development of BIEC and bringing it to world standard."

### A vision realised

"Over the last 10 years, more than 220 shows have been held at BIEC, occupying over 1500 days," remarked Jamshyd Godrej, "We have more than tripled in terms of gross area for holding exhibitions since 2007. BIEC is the first certified 'Green' Exhibition Centre in India."

In his concluding note at the

ceremony V Anbu, Director General & CEO, IMTMA and BIEC said, "This infrastructure emerged mainly because of the Vision and foresight



of the Past Presidents and doyens of industry. Their spirit and support still continues."

The value and importance of BIEC was best summed up by Das, "While CII is the parent association, we could not have done something like this. IMTMA has shown CII the way to achieve a vision. This is an inspiration for what an association like IMTMA can do, if they have the courage, the imagination and the grit."

Source: IMTMA



The lamp lighting ceremony

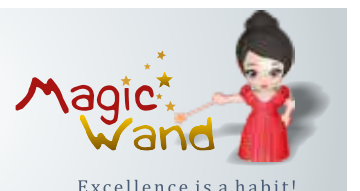
Source: Magic Wand Media Inc



Dignitaries take a tour of BIEC

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The LMW JV 30 meets the ever growing needs of precision and high productivity.



LMW has introduced a compact high Speed Drill Tap Centre—the JV 30—to meet the ever growing needs of precision and high productivity. This machine has a 600 mm x 350 mm working table with XYZ axis travel of 500 mm, 400 mm and 320 mm, respectively. It is equipped with a spindle taper BT 30 with direct driven 10,000 rpm spindle speed with quick tool changer and higher rapid traverse rate of 48 m/min for all axes. Rapid rates combine together to result in reduced non-cut time.

**Lakshmi Machine Works Ltd**  
www.lmwcnc.com  
Hall 2A, Booth A106

**Kennametal India Ltd**  
www.kennametal.com  
Hall 1A, Booth B109

**Chandrashekar Sharma**  
Vice President  
Kennametal Tooling and  
Machining Solutions Group



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The only way to stay ahead of the curve is by leveraging latest technologies in manufacturing.

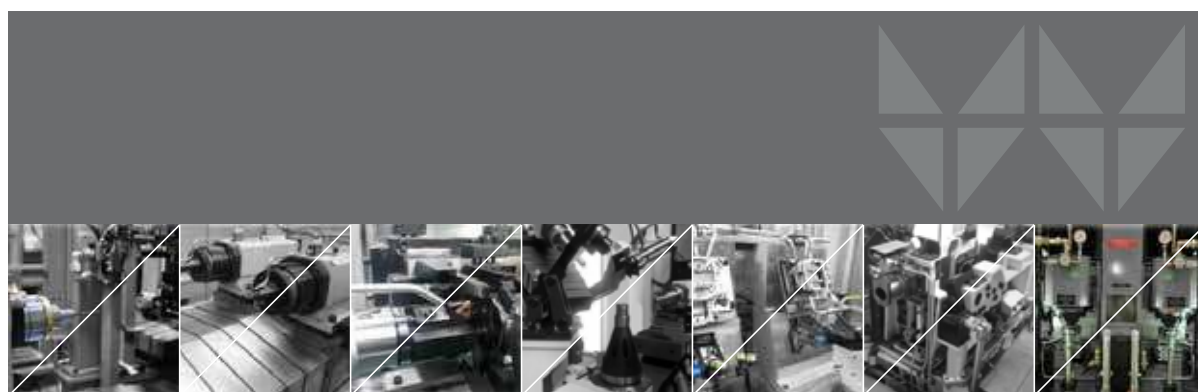
IMTEX 2017 offers a wide range of innovative technologies and solutions related to Machine tools, all under one roof. "Today as we compete globally, there is a need for competitive cost in every domain and manufacturing is not an exception,"

asserts Chandrashekar Sharma, Vice President, Kennametal Tooling and Machining Solutions Group. The company keeping abreast with technology and customer needs are showcasing a plethora of innovative products along with fixturing solutions, which are widely applied in transportation, energy and aerospace end markets, at IMTEX this year.

**Holistic approach**

The company offers end-to-end solutions for the tooling sector. Its Ecogrind crystal has innovative features that make it compliant with industry 4.0. Another offering—NOVO—enables customers to see the complete machining operations with fixtures and machine 3D simulations. "It is an advanced process planning cloud enabled software that helps ensure optimum machining strategy, minimising the development time," advises Sharma.

Kennametal continues to invest in continuous up gradation to be able to develop and manufacture products for not only the Indian market but also exports. Its technology centre offers training programs to budding engineers to hone their skill set in the machine tool sector.



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✦ Factory Address & Registered office

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For more details, contact :  
**Mr. Abhishek on 080- 66246829 / 6665**  
**Mobile: +91 9886611007 or Email : abhishek@imtma.in**  
 Registration for participation must be made Online only.  
 To register logon to [www.imtma.in/ssm](http://www.imtma.in/ssm)



Indian Machine Tool Manufacturers' Association  
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BIEC Bengaluru  
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International Appeal

**STRENGTHENING Manufacturing Ties**

**The UK is heavily export orientated and increased its exports to India by 52 percent in the first three quarters of 2016 as compared to the previous year. If this trend continues, India could be an extremely important destination for the UK.**

India’s trade and manufacturing initiatives such as ‘Make in India’ have made it an attractive investment destination. In addition to this, its maiden machine tool sector is also incorporating state-of-the art technology in order to enhance the ‘Made in India’ brand. One of the international associations participating at IMTEX 2017 is The Manufacturing Technologies Association (MTA). It is the UK’s trade association that represents engineering based manufacturing and supports UK’s advanced engineering sector through advocacy, media contract and networking. James Selka, CEO, The Manufacturing Technologies Association, UK believes that companies from the UK and India could stand to benefit from each other. Speaking on his expectations of the show, he informs, “We would like strengthen ties between UK and India by introducing UK companies to the Indian market.”

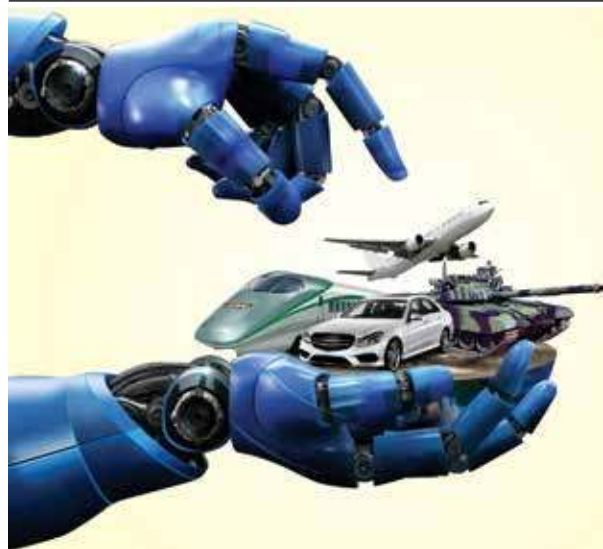
**Benefit of working together**

The UK is home to advanced manufacturing in Formula 1 Racing, automation, aerospace, defence and medical. According to Selka these would provide wide grounds for India and the UK to enter into an exchange. Speaking on the different technologies the association sees as playing an important role in the machine tool sector, Selka avers, “We see a number of new technologies moving into the manufacturing technologies sector including 3D Printing/Additive Manufacturing, Automation, Networking software/hardware and applications, particularly with the growth of Industry 4.0, Composites, Surface Engineering, and Moulds.” Imports are another aspect that he sees to beneficial from India to the UK, Selka mentions, “Any machining technologies that are manufactured in India and are considered competition on a global basis would be of interest to UK companies in terms of import.” Depending on how the show goes, MTA hopes to participate as part of a Country Pavilion in the next edition.

**The Manufacturing Technologies Association (MTA)**  
[www.mta.org.uk](http://www.mta.org.uk)  
 Hall 1B, Booth I106



**Any machining technologies that are manufactured in India and are considered competition on a global basis would be of interest to UK companies in terms of import.”**  
**James Selka, CEO, The Manufacturing Technologies Association, UK**



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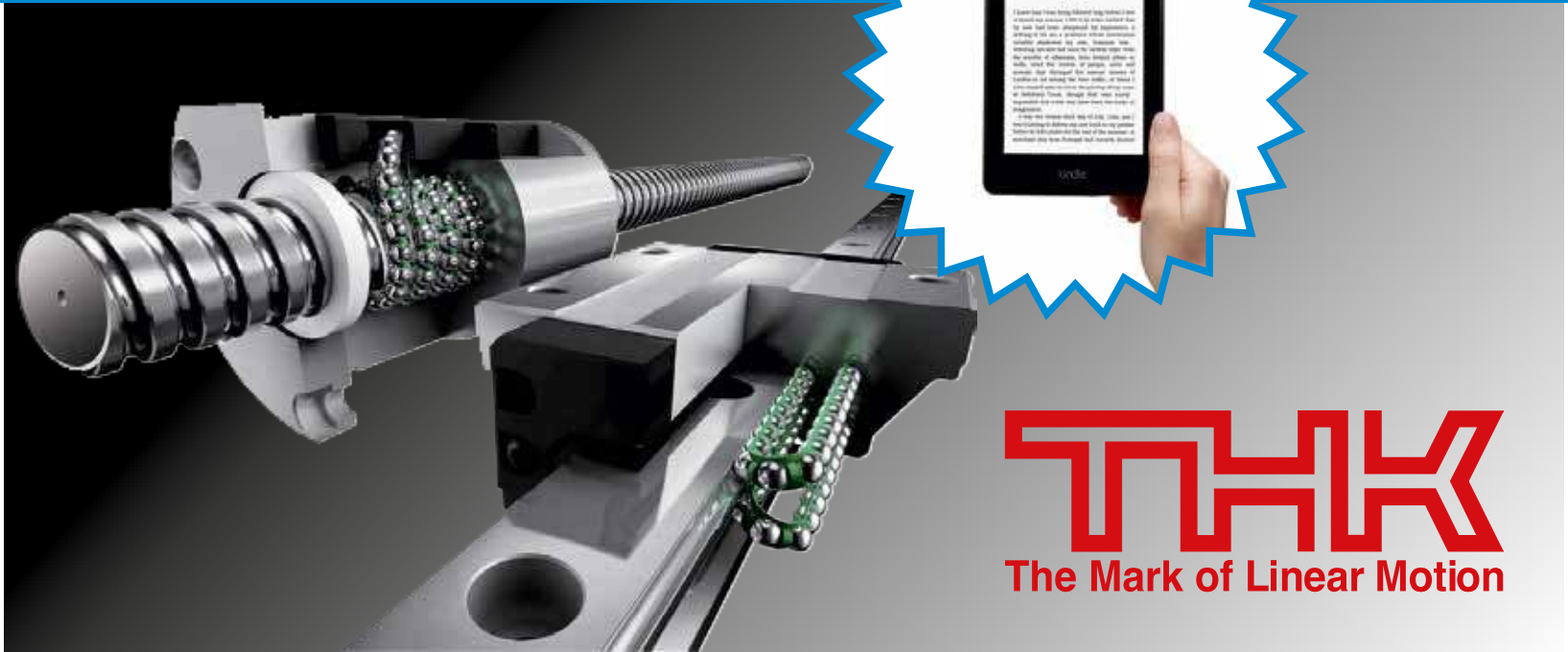
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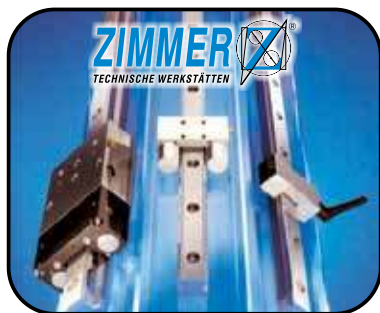
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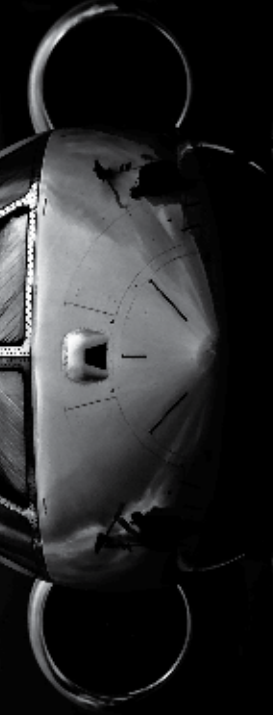
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