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Review

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EVENT PREVIEW

MACH
2018
machexhibition.com

ISMR SAYS:

"New halls, a focus on inter-connected technology and an Industry 4.0 Factory 2050 exhibit characterise this year's MACH exhibition"

In the halls at MACH 2016



GATEWAY TO THE UK

Don't miss the MACH 2018 exhibition in Birmingham (UK) from **9-13 April 2018**.

The UK's main manufacturing technologies exhibition, MACH 2018, is set to return to the NEC in Birmingham from **9-13 April 2018** with a new look and a new location. The biennial exhibition has a reputation for being at the forefront of the latest advances in engineering. So far, 90% of exhibitor space has been allocated for the show. MACH was established more than 100 years ago by the Manufacturing Technologies Association (MTA). It is the largest manufacturing technology event in the UK, attracting around 600 exhibitors and more than 25,000 visitors.

"MACH 2018 will take place on the atrium side of the NEC, in Halls 17, 18, 19, 20, 6 and 7. This is the first move of the show since relocating to the NEC when it opened in 1976,

and reflects the changing technologies covered by the show. The new halls mean that the show will take place in a single uninterrupted space on one level, making the show easier to navigate for visitors and providing an opportunity to showcase the full range of manufacturing technologies in the UK under one roof," the event organiser told *ISMR*.

James Selka, CEO of the Manufacturing Technologies Association (MTA), which organises MACH 2018 on behalf of the industry, said: "The shift in technology towards a more digitised, automated model of manufacturing is an exciting evolution of the sector, and MACH is at the forefront. As such, we as owners and organisers have decided to

refresh the show and enhance the exhibitor and visitor experience by moving to this new location in 2018."

Focus on inter-connected technology

The 2016 edition of the MACH exhibition was very successful with sold-out exhibitor space, a 10% increase in visitors over 2014 and over £150 million worth of business attributed to the show.

The over-riding theme running through the show is inter-connected technology and the future of manufacturing. MACH showcases live working machinery and brings together manufacturers across a range of technologies including metrology, additive manufacturing, tooling and Industry 4.0 technologies.

As well as the technology on show, there will be a vibrant seminar programme, which includes leading speakers from academia

and industry, marrying the theoretical and practical aspects of 21st century manufacturing. With live demonstrations and a packed seminar programme, MACH 2018 is a place to get business done.

James Fudge, head of events at the MTA, said: "MACH is a great barometer for judging the health of the UK's manufacturing sector, and with 90% of exhibition

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The Bloodhound exhibit at MACH 2016

EVENT PREVIEW



space already sold, eight months before the show opens, we can gauge that our exhibitors are buoyant. Exhibitions are a fantastic way to do business, and we feel that we have created the perfect environment for that to happen at MACH 2018."

International visitors are encouraged to take advantage of MACH 2018's prime location at the NEC, next to Birmingham International Airport which operates regular flights from Europe, Asia and America. There are numerous hotels on the NEC site and the exhibition is 10 minutes away by foot and monorail from the arrivals gate at Birmingham International Airport. Also on the same site is Birmingham International railway station with regular connections to the north and south of the UK. Central London can be reached in just over one hour and the centre of the England's second city, Birmingham, is ten minutes away.

Large contingents of international visitors, including many from all over Europe, attended MACH 2016, as well as substantial trade delegations from China, Russia and Turkey.

Industry 4.0 at MACH 2018

The Manufacturing Technologies Association (MTA) and the University of Sheffield Advanced Manufacturing Research Centre (AMRC) have partnered to put together a feature to demonstrate cost-effective adoption of Industry 4.0 technologies at MACH 2018.

"The AMRC's Factory 2050 is the UK's first state-of-the-art factory entirely dedicated to conducting collaborative research into digital assembly and flexible component manufacturing. We are staging a joint showcase of cost-effective solutions for the adaption and integration of Industry 4.0 technologies into SME manufacturing businesses," explained the MTA.

Recent figures (from the Made Smarter Review) found that the positive impact

on UK manufacturing of faster innovation and adoption of industrial digitalisation technologies could be as much as £455bn over the next decade, reported the MTA.

James Selka, CEO of the MTA, said of the project: "The Integrated Manufacturing Group at Factory 2050 and we, at the MTA, understand that it is vital to cut through some of the jargon and hyperbole around Industry 4.0 and show first-hand the practical advantages that Big Data can bring to an SME business."

"The over-riding theme running through MACH 2018 is inter-connected technology and the future of manufacturing"

He continued: "In the light of the publication of the Government's Industrial Digitalisation Review, 'Made Smarter', we must demonstrate to British industry the benefits that this technology can bring to their businesses. It is our job to bridge the gap between industry and academia and MACH 2018 is exactly the platform to do this."

The idea behind the project stems from the perceived implications in terms of cost and complexity faced by SMEs when wanting to adopt Industry 4.0 technologies – a major barrier identified in 'Made Smarter'. By providing a variety of solutions on how current capital equipment can be adapted to meet the challenges of the Fourth Industrial Revolution, the exhibit will demonstrate how Big Data can help companies to streamline their production and improve cycle times – without making huge investments.

The over-riding theme running through MACH 2018 is inter-connected technology

"It is vital to cut through some of the jargon and hyperbole around Industry 4.0 and show first-hand the practical advantages that Big Data can bring to an SME business."

and the future of manufacturing. MACH showcases live working machinery and, true to this tradition, the combined feature will demonstrate up to six separate manufacturing cells. These cells will replicate familiar manufacturing environments that have been integrated with Industry 4.0 Technologies.

James Fudge, head of events at the MTA, added: "We understand the cost constraints that face SME businesses; it is important to let companies know that Industry 4.0 technology is accessible to them. You can take an outdated machine and retrofit sensors to it, allowing you to get real-time data and to detect throughput fault. It will be really useful to businesses to be shown some of the things you can do to the installed base that can make a difference."

Sir Ben Ainslie to open MACH 2018

MACH's five-day celebration of UK manufacturing will be officially opened (on 9 April 2018) by the most successful sailor in Olympic history, Sir Ben Ainslie. Sir Ben won medals at five consecutive Olympics from 1996 onwards, including gold at the four Games held between 2000 and 2012.

Sir Ben has a keen interest in manufacturing and the technology behind it, with his British

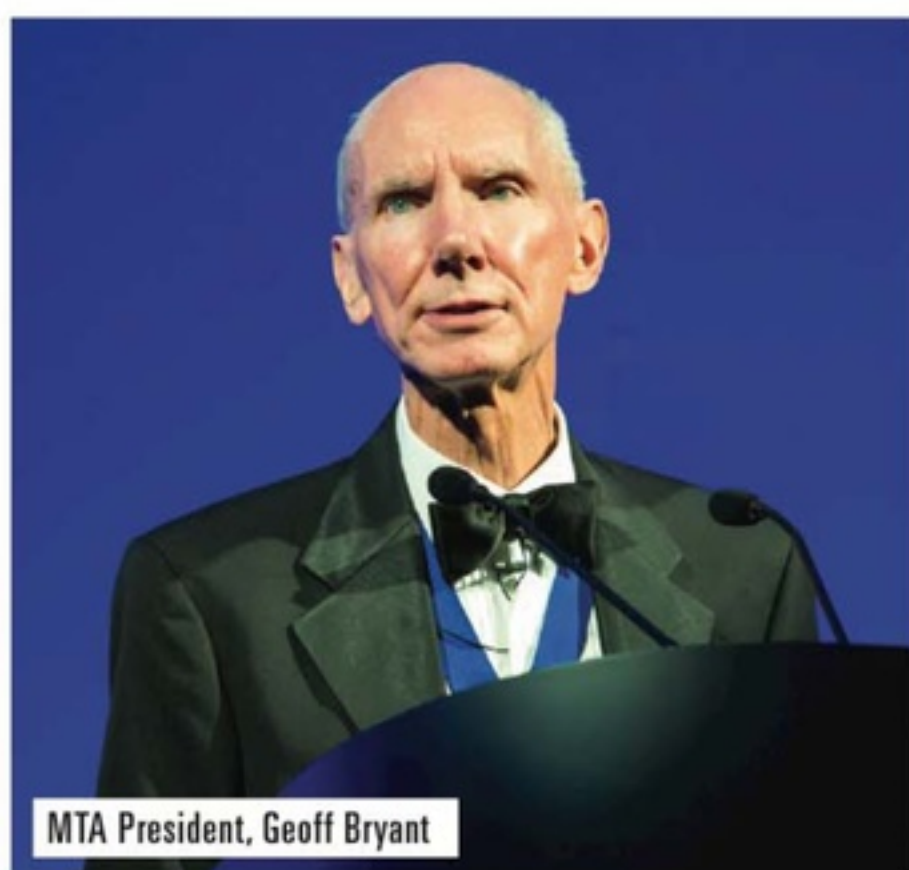


Sir Ben Ainslie will open MACH 2018

America's Cup team, Land Rover BAR, employing the latest manufacturing processes in the creation of its foiling race boat for the America's Cup.

Sir Ben Ainslie said; "At Land Rover BAR, we bring together huge resources of technical, design and engineering knowledge to create something truly British and unique. We invest in technology and innovative skills to find solutions for long-term issues in sustainability. I'm very much looking forward to opening the MACH 2018 exhibition and seeing the latest innovations from the UK's manufacturing technologies sector."

Visitors can register for their MACH entrance pass and fast track entry pack at www.machexhibition.com



MTA President, Geoff Bryant

Setting the scene for MACH 2018

The 2018 Annual Dinner of the Manufacturing Technologies Association was held at the Park Plaza Hotel in Westminster, London, recently. The event was attended by 500 guests from across the MTA's membership, the wider manufacturing community and beyond.

MTA President Geoff Bryant gave the keynote speech with a call that highlighted how the MTA can make a difference to for its members in areas such as exporting, policy and education.

He said: "Our sector, represented by the MTA, is uniquely well placed for two reasons. Firstly, because of how connected and integral we are to the rest of the economy - everything begins with manufacturing technology. Secondly, is how

closely we reflect investment, the key driver of manufacturing growth and productivity.

"Looking ahead, we can only improve productivity by producing more with the same workforce. It is the job of all of us in this room and our industry to provide the advanced technology to make more with the workforce available to us."

Mr Bryant also looked ahead to MACH 2018, just a few weeks away. Guests also heard from Lord Henley, Minister at the Department of Business, Energy and Industrial Strategy, about the UK Government's commitment to manufacturing and a strong economy.

The evening also had a charitable side, as over £6000 was raised by an auction in aid of Engineers Without Borders UK.

Metalworking Village at MACH

The UK Metalforming Machinery Association's (MMMA) Metalworking Village in Hall 20 (stands H20-327) features 25 members exhibiting their machines, products and services over 500 square metres. Some examples of technology on display include:

PJ Hare will have its C frame and a 4-column presses on display.

AP&T is focusing on light weight and strength at MACH. Its production technology solutions are designed to enable the metal forming industry to manufacture increasingly lighter, safer and more energy-efficient products. Other production solutions include roof drainage systems, heat exchangers, air ducts parts etc.

Oerlikon Balzers will be demonstrating its 'Tool life increase by more than six times' BALINIT FORMERA PVD coating applied to a forming steel, which 'can extend the press life of a tool by over 600%'.

TMA will be exhibiting one of its new range of World Group Presses with the latest PILZ safety control and light guards, Helm load monitor and a TMA servo feed. On display will be the new Mini TMA servo feed for material of up to 101 x 3mm capacity.

Worlifts will showcase its range of hydraulic, pneumatic and manual maintenance tools. Lifting and handling plus safety equipment systems will also feature on its stand.

Bruderer UK will be celebrating its 50th anniversary at MACH 2018. Formed in 1968, Bruderer UK has established a strong reputation in high-speed precision stamping.

Schuler Presses UK offers comprehensive service for mechanical and hydraulic presses, as well as for forming equipment by any manufacturer. Schuler is a specialist in forming technology. The company offers presses, automation solutions, tools,

process expertise and service for the entire metalworking industry.

Voith will focus on its hybrid servo punch drive (HPD). The system is a versatile drive for punching and nibbling machines. It adapts the transmitted force individually to a specific operational profile.

Roemheld UK will highlight the safe clamping of heavy dies and a new range of wedge clamping elements with patented safety bolts, designed to securely attach a die set to the table and ram of a power press. ■



(Top) AP&T press hardening line

(Below) The new Roemheld wedge clamp, with its patented safety bolt designed to mate with a matching die adapter plate



About MACH 2018

For more information visit www.machexhibition.com

About the MTA

The Manufacturing Technologies Association (MTA) is the UK trade association for the Manufacturing Technologies industry. The MTA represents the core of engineering based manufacturing and aims to promote the use and innovation of advanced technology in manufacturing. Further information about the MTA and its members can be found on www.mta.org.uk

About the AMRC

The University of Sheffield Advanced Manufacturing Research Centre (AMRC) is a world-class centre for research into advanced manufacturing technologies used in the aerospace, automotive, medical and other high-value manufacturing sectors. The AMRC is a member of the High Value Manufacturing Catapult, a consortium of leading manufacturing and process research centres, backed by the UK's innovation agency, Innovate UK. See www.amrc.co.uk



The MTA Annual Dinner