



ACMEE 2018

13th INTERNATIONAL MACHINE TOOLS EXHIBITION

An AIEMA Initiative

21-25 June 2018
Chennai Trade Centre, Chennai, India

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Human-Robot Collaboration

The Future is Collaborative!

Paying heed to the demands from certain industry sectors, SCHUNK GmbH & Co. KG, in close co-operation with Universal Robots, has co-created an atmosphere of collaborative automation. The innovation is a show-stopper at ACMEE 2018 and boasts of being the first certified industrial gripper for collaborative operation.



Satish Sadasivan, Managing Director, SCHUNK Intec India Pvt Ltd, with the team at SCHUNK booth at ACMEE 2018.

Indian manufacturers encounter a certain set of challenges, and the prominent among them is the space management. The present robotics and automation have done

their job addressing these hurdles that affect the productivity and quality of Indian manufacturers and now it's collaborative robotics taking over. SCHUNK, along with Universal

Robots, endeavors resolving a few with the help of Co-act a collaborative robot. "It means that you have a robotic automation standing side by side assisting you and not really

taking you away from your seat," explains Satish Sadasivan, Managing Director, SCHUNK Intec India Pvt Ltd.

To be continued on 2 ▶



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Sadasivan with the Co-act EGP-C Collaborative Gripping System.

Continued from 1 ►

SCHUNK Co-act EGP-C Collaborative Gripper

With this new innovation, one can easily predict a future where one is given a collaborative robot as their tool in a shop just as a computer is handed when one joins an organization.

"Now, the operators can be spared of doing the toll taking manual jobs such as lifting goods repetitively and assembling them. The collaborative robot does the job. And they can

just do the simple things that need human intervention. That's where the automation hasn't reached and collaborative automation can take one there," adds Sadasivan explaining further.

Co-Act Gripper as the collaborative robot

Universal Robots has been pretty aggressive worldwide in terms of collaborative robotics and SCHUNK is the first company in the world to launch Co-Act Gripper, which is a collaborative gripper.

Knowing Co-act EGP-C Gripper

With the SCHUNK Co-act EGP-C Gripper, the competence leader for gripping systems and clamping technology is presenting an inherently safe industrial gripper which has been certified and approved for collaborative operation by the German Social Accident Insurance DGUV. The compact 2 finger parallel gripper enclosed with a collision protection cover covers a wide range of applications – from small component assembly in electronics and consumer goods industry right up to assembly applications in the automotive sector. At SCHUNK, the Co-act EGP-C is already prototypical of an HRC workstation in gripper assembly. Here, the worker takes on assembly and quality control, while the robot removes adhesive residues on a sharp-edged extraction plate with the gripper. The gripper can be controlled extremely simply and via digital I/O. Thanks to an operating voltage of 24V DC, it is also suitable for mobile applications.



Source: SCHUNK Intec India Pvt Ltd

"It's not just the robot which is collaborative, the end of the gripper is collaborative too. If there is a human finger between the Gripper's two fingers, it senses and declamps and accidents can be avoided," he shares.

In the Indian market, collaborative automation has become quite exciting. SCHUNK has already worked with three projects and has garnered rave initial reactions. "The favourable response has been more from industries including Pharma, Automobile, Food & Beverages, Auto components where you need quite a bit of flexibility to move it from one line to another. The Gripper needs the least programming skills from the operator," informs Sadasivan.

Success stories already

Sadasivan cites the success of the companies who have incorporated collaborative automation in their production process.

The first one is the automobile OEM who is using these systems on their assembly line. "The ladies who assembled the two wheelers suffered from the load coming onto their arms. With the collaborative system,

things have become easy for them now," he shares.

The second customer belongs to the region where there are strong trade unions. The company had 120 workers with 30 to 40 not turning up each day. "Putting these systems has taken care of that problem," adds Sadasivan.

The third one is an interesting project more done by Universal Robots. The lens-making company in Pondicherry has been able to increase its production quantity ten-fold because of automation. "This led to a five-fold increase in the company's employment rather than taking the employees' jobs. It's a typical example of robots creating jobs because they helped in producing more," he notes.

"Finally, we are coming to a success story for the future and this is what we are looking forward to. I am sure that people in the automation arena will also look forward to collaborative automation," concludes Sadasivan.

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New Automation Technology

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Metrology

Measure Matters

For Mahr India, partaking in expos of international repute like ACMEE is an ideal way to garner attention from the manufacturing companies. The company is here at the show to exhibit its latest Metrology products.

Since ACMEE's inception in 2008, Mahr India has been successfully participating in each of its editions showcasing technological innovations rolled out by its parent company Mahr GmbH, headquartered in Göttingen, Germany.

Advantage trade shows

The global partner for Dimensional Metrology solutions believes in partaking in ACMEE and similar expos of international repute as it's an ideal way to garner attention from the manufacturing companies.

"ACMEE series proves to be the right choice for Mahr on a long-term basis," says R Ganesan, Managing Director, Mahr Metrology India Pvt Ltd.

"The whole world and, in particular, our 'Incredible India' is witnessing a dynamic transformation towards digitalization or automation happening in all spheres of our life and Mahr Group in India wishes to join this bandwagon by displaying a few of our globally launched new Metrology products during ACMEE 2018," he adds.

Mahr's newest offerings at ACMEE 2018

MarSurf CD Series is for tactile contour measurement system. "Our new MarSurf devices are optimized to acce-



Source: Mahr Metrology India Pvt Ltd

» The platform of ACMEE is once again aiding Mahr India's endeavor to showcase its new technologies and introduce them live to the end customer.«

R Ganesan
Managing Director
Mahr Metrology India Pvt Ltd



MarSurf CD Series is for tactile contour measurement system.



Micromar 40 EWRI-L digital micrometer

lerate the measurement process and simplify handling," shares Ganesan. The new product series is also known for its innovative clamping systems, higher axis speeds, and intelligent probe arm system.

Micromar 40 EWRI-L digital micrometer, showcased at ACMEE 2018, is equipped with quick adjustment and sliding spindle. It measures 10 times faster than a standard micrometer and protects the surface of the specimen. The measurement results are easily passed on via the integrated wireless system. By carefully contac-

ting the workpiece with the non-rotating sliding spindle, two advantages arise: scratches are avoided and film thickness can be measured.

The company's 60 percent of business comes from Automotive/Ancillaries Industry, the remaining comes from Aerospace, Defense, Machine Tools and Cutting Tools. "Chennai being a manufacturing hub draws attention from all these industries. We are targeting them at the show," says Ganesan summing up.

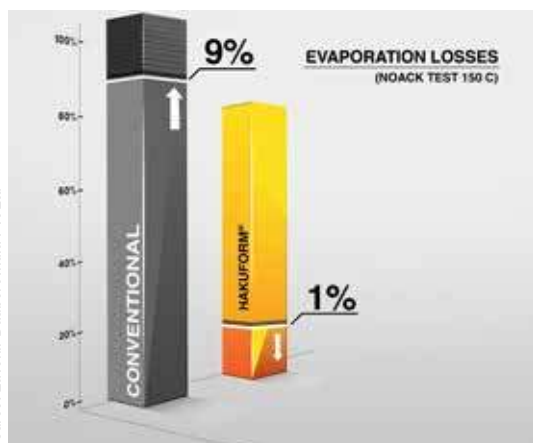
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Mahr is a world leader in many areas of metrology. Our products stand for accuracy, quality and innovation. Mahr constantly exceeds the limits of what is possible and ensures your lead in

metrology. As a partner for the future, we will make your quality assurance more reliable, more automatic, faster, more wireless and even more user-friendly.

Mahr presents the Micromar 40 EWRI-L digital micrometer at the ACMEE 2018. Equipped with quick adjustment and sliding spindle, it measures 10 times faster than a standard micrometer and protects the surface of the specimen. The measurement results are easily passed on via the integrated wireless system.

More efficiency: Measurement of workpieces with different sizes

The new Micromar 40 EWRI-L micrometer from Mahr significantly accelerates the measurement of workpieces and at the same time protects the surface of the test specimens. The reason for this is a quickly adjustable sliding spindle. The spindle makes a 5 mm movement with one revolution of the friction sleeve and can thus be positioned 10 times faster than a standard micrometer. This saves the user a great amount of time, especially when measuring workpieces with different sizes.

By carefully contacting the workpiece with the non-rotating sliding spindle, two advantages arise

- Scratches are avoided:
e.g. from grinding dust residues on sensitive and finely machined workpiece surfaces
- Measuring film thickness:
delicate, thin materials are not twisted or damaged during measurement.

The large display and intuitive operating concept supports users in production and quality assurance – measuring reliability, fatigue-free reading and simple operation are combined here.

Optimization of costs in production and quality control

Advantages for the user:

- Increase in productivity of quality assurance in manufacturing plants
- Protection of workpieces
- Reduction of expensive waste

This makes Mahr digital micrometers an important contribution to cost optimization in production and quality control.



Faster measurement of workpieces:
the new digital micrometer
Micromar 40 EWRI-L from Mahr.

Mahr Metrology India Private Limited

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Visitors' Views



Source: Magic Wand Media

Great place to update on technological advances

» I have been regularly visiting each iteration of the ACMEE show as it has exhibitors from the entire spectrum of manufacturing. It's a great expo to attend since it is convenient to get information on the latest advancements in technology.«

V Rajkumar
DGM Manufacturing
JTEKT India Ltd



Source: Magic Wand Media

Borders are not Barriers

» I feel that this edition of the ACMEE expo is significantly larger than the previous ones. There is a notable increase in the number of stalls. A lot of foreign organizations also have their products on display, a testament to the fact that India is a key player in the global machine tools market.«

K Kalyanaram
Manager - Engineering
Research & Development
Brakes India Pvt Ltd



Source: Magic Wand Media

A hub for tech-enthusiasts

» This is the first time I am attending ACMEE. I have come from New Delhi to explore new innovations in the field of engineering tools. I am quite happy with my findings so far. The segment where college students are showcasing their innovative products is also an encouraging move.«

Kumar Aakash
AVP - Business Development (India)
AFII Corporate Advisors Ltd



Source: Magic Wand Media

Smart Registration for a Tech-Driven Expo

» I must commend the organizers for incorporating the Self-Registration technology. There was a significant reduction in the queue waiting time for the registration process. The networking opportunities provided by this platform are also great; I have met many potential customers already.«

Prakash PK
Asst Manager
SODICK Technologies India Pvt Ltd

High-End Measurement Technology

EtherCAT Measurement Modules from Beckhoff

The new high-performance EtherCAT measurement modules open up opportunities in terms of accuracy, precision of measured values, cycle times, synchronization and long-term measurement accuracy – the level of which was to date only offered by cost-intensive, dedicated devices when used in automation.



Source: Beckhoff Automation Pvt Ltd

The new high-performance EtherCAT measurement modules from Beckhoff

Customer requirements in machine and plant engineering keep increasing with regard to cycle times, condition monitoring and predictive maintenance. High-precision measurement technology today is an important prerequisite to stay competitive. End-of-line test rigs have become the norm in production and packaging systems. In short cycle times, each end product

must be individually checked or measured, and the data must be archived for subsequent tracking. Traceability places high demands on the measurement technology used, e.g. it is necessary to provide factory calibration certificates, and the measuring reliability must be demonstrated continuously. In the past, it was often necessary to integrate external measuring equipment via

bus systems, with correspondingly high overhead.

Beckhoff now offers an efficient, system-integrated solution with the introduction of a series of EtherCAT measurement technology modules that are tailored for these requirements. For example, each module has a unique identification number (ID), accompanied by a factory calibration certificate, if required.

Although features such as high resolution, high measurement accuracy and high sampling rates have been available in laboratory measurement technology for a long time, Beckhoff now makes them available in a standard automation system, leveraging long-standing expertise in industrial automation. The combination of high-precision measurement technology and industrial automation standards opens up new technological advancement opportunities for manufacturers of conventional production machinery, inspection systems and testing equipment. The product portfolio now spans from simple analog 12-bit terminals to high-precision, 24-bit condition monitoring modules with a sampling rate of 50k samples/s.

Designed for industrial use in terms of processing power, installation and connection options

High-performance control not only characterizes Industrial PCs from Beckhoff, but also the new EtherCAT measurement modules. Advanced

microcontroller technology provides significant computing power with high efficiency, enabling individual parameterization of each channel in the module. In this way a large number of calculation functions can already provide pre-processed, interpretable measured values in the EtherCAT measurement module.

Measurement technology seamlessly integrated in TwinCAT

TwinCAT automation software provides a platform for the generation of engineering and runtime modules which can be used to implement PLC, motion control, safety and measuring applications. Microsoft Visual Studio R is the central programming and configuration platform for the entire Twin-CAT system.

In the spirit of Industry 4.0 and IoT, the acquired data can also be centrally correlated in networks or cloud systems, since TwinCAT supports communication with cloud systems as standard. TwinCAT Analytics is a special software package for data analysis in cloud systems, as part of the TwinCAT Measurement environment.

It facilitates identification and documentation of significant characteristics in signals. A cloud storage provider enables convenient access to historical data in cloud storage systems.

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Metal Cutting

Exploring New Avenues for Growth

A regular at ACMEE shows, Meiban Engineering Technologies wants to leverage the show's platform to reach out to new customers.

For AV Srinivasan, CEO, Meiban Engineering Technologies Pvt Ltd, ACMEE is highly instrumental for the company to showcase its products and reach out to customers in the southern states which are continuously showing growth in manufacturing. "With numerous new projects coming up in these states, they will continue to showcase strong manufacturing activities in the years to come," he notes.

Agenda ACMEE 2018

The company is focusing on Automotive components suppliers, Smart

City projects, and key manufacturing industries like Infrastructure, Elevator manufacturing, Railways, Telecommunications, Power, etc. as its target audience at the show.

Meiban has been a regular participant at ACMEE shows. "ACMEE is an opportunity to connect with the right visitors and meet other manufacturers in similar activities. Additionally, it's a well-organized expo with good facilities," states Srinivasan.

"We expect ACMEE 2018 to provide us a platform to display latest technology trends such as Automation in the Indian manufacturing industry and to reach out to MSMEs," he adds.

The company has done a lot of pre-exhibition preparation to promote its appearance. "We have reached out to most of our prospects by personally inviting them. After the exhibition, we will be following up with all the leads generated to convert them

into sales. "One prime focus now is to reach out to new customers who have not been in our focus list so far," he shares.

Showcasing Twin Spindle CNC Chucker machine

Murata Machinery Ltd (Brand Name 'Muratec') is a global leader in providing fully integrated in-house with built-in automation for a wide range of applications. "Muratec, a pioneer in twin spindle turning machines, is making constant efforts to give our customers in manufacturing of automotive components, high-quality, latest technology, next generation twin spindle turning machines for high accuracy, high productivity, and customized automation requirements," shares Srinivasan.

At the current ACMEE, Meiban is displaying its new MW120 Twin Spindle CNC Chucker machine which makes for an ideal solution for cutting applications. It performs great in compact space (i.e. compact cell system with floor size 1900mm X 1810mm). The three-axis gantry loader offers versatile automation and the high-speed gantry loader and turret axes reduce



Source: Meiban Engineering Technologies Pvt Ltd

»ACMEE provides us a platform to display the latest technological trends such as Automation in the Indian manufacturing industry and to reach out to MSMEs.«

AV Srinivasan
CEO

Meiban Engineering Technologies Pvt Ltd

the cycle time drastically. Heavy-duty cutting is possible with column/turret bar style design construction.

Meiban Engineering Technologies Pvt Ltd
Hall & Stall: B - 147
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MW120 Twin Spindle CNC Chucker machine is an ideal solution for cutting applications.

Deflashing Machines

Robotic Deflashing Machine from Grind Master

Grind Master Robotic Deflashing Machine RCF series is an automatic machine for Fettling of iron cast components. Robotic fettling of iron cast component is a revolutionary technology for the Casting Industry, giving a leap in productivity and quality



RCF-HD Series machine is the advanced system for fettling operations

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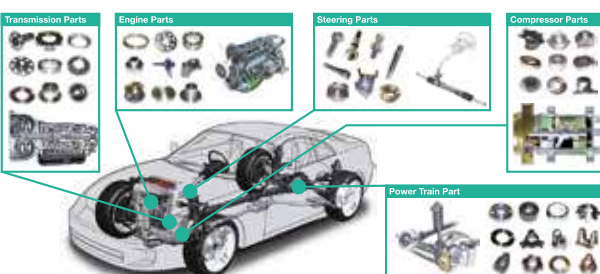
RCF-HD Series machines are the advanced systems built by Grind Master for fettling operations including Riser and Gate Cutting, Parting Line Grinding, Deburring for Sharp Edges, Milling inaccessible areas and Breaking into holes. Robotic Iron Casting fettling technology addresses specific problems present in casting industry like complex shapes, heavy components, hazardous working conditions, heavy stock removal require-

ments, variety in component geometry with manual/automatic load, unload using Pallet Exchangers, Automatic Tool Changer, Automatic Path corrections, Rigged Reliable Robot-Spindle System, and essentially required Full Metal Enclosure and Dust Collector System. RCF-HD Series machines typically give cycle times from 2 min to 4 min for components typically 500mm X 300mm X 250mm in size, cycle time is typically dependent on level of grinding. Robot equipped with Electric Spindle tool completes the operati-

on with consistency and repeatability through the lifetime. This makes it very suitable for components such as Hydraulic Housing, Rock Shaft Housing, Cylinder Block, Transmission case and many other automotive components made in large volumes. Grind Master also offers RCF-HD-ECO series machines. Such cells are typically deployed with simple machining worktable for economic operations.

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Knowledge Sharing

Foraying into New Markets



Source: Magic Wand Media



Source: Magic Wand Media

Headquartered in Walldorf, Germany, SAP SE is a global enterprise software corporation. SAP is attending ACMEE 2018 to understand and learn from the manufacturing leaders in India. It is important for SAP to know the industrial trends globally as well as to get knowledge on the challenges Indian manufacturers are facing in their corporate / operational business processes. SAP's goal is to introduce SAP S/4HANA Cloud, the new generation Intelligent Cloud ERP software product to ACMEE fair participants, and present its digital technologies such as: Cloud Software, In-Memory Computing, Machine Learning, Big Data, IoT, and Mobile Solutions. In the technical session, the audience got to know SAP as the market leading enterprise business applications software company. Additionally, a comprehensive overview was given to elaborate intelligent enterprise framework and its key components. Furthermore, essential information was introduced to the manufacturing companies regarding how SAP S/4HANA Cloud can simply their daily business by streamlining complete, standardized and preconfigured core business process, and providing innovative manufacturing capabilities.

SAP SE
Hall & Stall: C – 88
www.sap.com

Knowledge Sharing

'Present & Future of Industry 4.0' by METI

In order to spread awareness on the fourth industrial revolution, METI conducted a technical session on Industry 0.4 yesterday at ACMEE 2018.

Anil Alur, Industry 4.0 Consultant, METI M2M India Pvt Ltd, suggested taking small steps that can lead to big changes on the shop floor. He stressed on the virtualization of shop floor activities to figure out inefficiencies in an organization. Internet of Things (IoT), he said, is the way to virtualize/digitize the production process.

How can IoT benefit?

Alur spoke of the IoT solution from METI, which is an inexpensive and simple plug and play solution that can address data collection and monitoring problems in a company. It provides simple real-time data from machines, which can lead to enhanced operation efficiency and predictive maintenance, and strategic decisions. IoT mirrors the reality and can break some of the assumptions which would have been made while setting production target. This is much helpful in monitoring downtimes, he said. One of METI's customers analyzed that the average time lost was about 37 min in shift transition and 20 min in setup/reloading the machine, whereas the assumed

time was 10 min and 5 min for the respective activities.

Another major contributor to the downtime, according to him, is the non-availability of raw materials. A company found out that nearly 60 percent of the downtime was caused by the non-availability of materials at the right time, which meant that there was a lack of communication between the production and stores.

Starting with smaller downtime issues, METI's customer was able to improve his Overall Equipment Effectiveness (OEE) by seven percent in three months.

Alur cited other areas where IoT can help such as in setting production target and tracking efficiency of machines and operators. Usually, a production target or decision is set based on the past data, which poses problems during the actual production run. This eventually calls for resetting the targets and production loss. By implementing IoT, decisions and targets can be set on a real-time basis, which reduces the scope for inaccurate resetting of targets. How IoT does this is that it tracks the performance of machines,

operators, and the energy consumed and reports these data with proper metrics to the concerned persons through the Internet. The data is now always available in the cloud for managers to access and take a call.

IoT complement the proven methods

Alur clarified a myth on IoT that it might replace the already existing operation efficiency and quality improving methodologies like 'Lean Production'. The truth, he said, is that IoT is going to complement these proven methods, and organizations don't have to go

through radical culture change. He listed the offerings by METI in the field of IoT, which are: Data collection, machine-protocol agnostic solutions, man-material, seamless integration, traceability, energy trading applications, ERP ready data from shop floor. He suggested taking small steps towards IoT by starting with just four machines if the concept seemed intimidating. This, he said, will give the much-needed insight into leveraging IoT to its full potential.

METI M2M India Pvt Ltd
Hall & Stall: A – 43
www.meti.in



Source: Magic Wand Media

CNC Machine Tool Technology

Celebrating Success

Hurco India has a reason to rejoice at ACMEE 2018. The company completes 50 years of innovation this year and is offering special price and delivery for its customers at the show as part of its celebration.

The leading manufacturer and supplier of CNC machines, turning machines, vertical machining centers, Hurco India Pvt Ltd is once again here at ACMEE 2018 with its business partner Vignesh Machine Tool. "ACMEE 2018 is very significant for Hurco India. We have been participating in the show since 2010 with our partner," says Sanjib Chakraborty, Managing Director, Hurco India Pvt Ltd.

Hurco has a strong presence in advanced technology and 5-axis machines globally. "We are confident that ACMEE 2018 will give us a platform to interact with customers

who are looking for advanced technology to become more competitive and profitable. Hurco can be the right partner for them," he adds.

The automobile industry is Hurco's prime target sector. "However, for our 5-axis solution and the latest controller technology, we are targeting aerospace, medical, precision components and defence components manufacturing industries," he shares.

Displaying its strength

At ACMEE 2018, the company is demonstrating its 5-axis solution on one of the best configured VMC models – VMX42SRTi – which offers the cus-



Source: Hurco India Pvt Ltd

»The automobile industry is Hurco's prime target sector. For our 5-axis solution and the latest controller technology, we are targeting aerospace, medical, precision components and defence components manufacturing industries at the expo.«

Sanjib Chakraborty
Managing Director
Hurco India Pvt Ltd



Source: Hurco India Pvt Ltd

The VMX42SRTi VMC for 3-axis, 4-axis and 5-axis applications.

tomers the flexibility to use the VMC for 3-axis, 4-axis as well as for simultaneous 5-axis applications. The C-axis of the machine is with embedded Torque Table +/- 360 deg. with separate chiller. The spindle is high-precision motorized spindle with the B-axis swivel head that travels +/- 90 deg.

"The VMX42SRTi is the most popular model in the global as well as in the Indian market. The machine is interfaced with Hurco's latest controller Max-5 which was awarded as the most preferred controller in the world in 2017. The 3D DXF transfer software is also being demonstrated which ensures the effective uses of CAM by minimizing the dependency on the off-line Cam Software," informs Chakraborty.

Golden jubilee celebration

Hurco India is highly optimistic about its success at ACMEE this year. The company has achieved great response in the past shows. "It is a very important show for Hurco. The population of Hurco machines in Chennai is the highest as compared to other cities," he says.

The company is celebrating 50 years of innovation in 2018. "We are offering special price and delivery for our customers as part of our celebration. We are also arranging a tour to our new tech centre in Chennai," shares Chakraborty.

Hurco India Pvt Ltd
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www.hurco.com/in

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Pictures of the Day



Illumination at its best in ACMEE 2018



Eco-friendly booth at the show

Source: Magic Wand Media

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~~moving~~ GRINDING FORWARD TOGETHER



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