

# ETMM

EUROPEAN TOOL & MOULD MAKING

## THE MAGAZINE

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SPECIAL  
**EMO Hanover  
2017**

Trade fair preview and  
product highlights

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PRODUCT FOCUS

### Tools for every application

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Datal Services · 97103 Würzburg  
70475 Psdg  
Deutsche Post  
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Frau Susanne Kromer

SUXES GmbH

Endersbacher Str. 69

70374 Stuttgart

### USA and Mexico

A seminar on the future  
development of the industry

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### EDM Europe

Sodick EDM enhances accuracy  
and control

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### Tooling 4.0 – Hands on

How manufacturers can meet  
the challenges of Industry 4.0

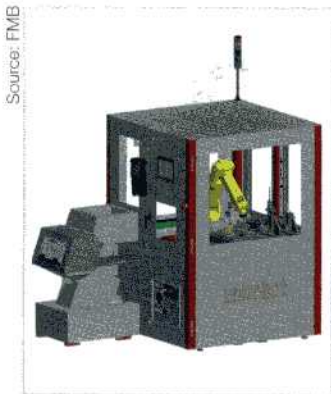
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Vogel Business Media

## Solutions with automated cells for complex production

**Robotics** - At EMO, FMB Maschinenbaugesellschaft will present solutions to automate complex production steps, including separation of bulk materials and quality control of workpieces with a lot of properties that must be captured and measured. As such, FMB has designed a



Compact robot cells reliably automate ancillary jobs done previously by employees.

compact robot cell. Workpieces that are provided as bulk material are separated, orientated, gripped by a robot, measured on various stations and finally graded by the robot according to the measuring data, the company says.

FMB's modular and flexible robot cells are reliable, close to the machining process and fast and have integrated stations to separate, orientate, measure and grade workpieces to achieve 100% quality assurance in series production, the company adds.

The robot conducts numerous step-by-step processes in production. An integrated control system analyses the measuring data and shows it on a display.

The robot cell is flexible and can be configured according to customer demands.

fmb-machinery.de;  
Hall 17, Booth A44

## XXL machines and more, spread over three booths

**Machining** - Manufacturer of large machining centres, Schiess, will present numerous machines and solutions at EMO on three booths.

Its well-known "Vertimaster" multitasking-machine (for turning, milling, grinding, boring etc.), available in several sizes and configurations, falls into the XXL machines segment. The table width and face plate diameter vary from three up to 12,000 mm with machining heights of up to 10 m. Schiess offers options on travels and load individually adapted to customer requirements, the company explains.

The company's implementation of its Masterhead principle allows the customer to choose from a portfolio of potential machining heads.

XXL machines are available as Vertical Lathe with two axes (VT), Vertical Lathe with three axes and boring and



The multitasking-machine "Vertimaster" is available in several sizes and configurations.

milling drive (VM) and a third linear axis (VMG) as well as Portal Milling Machine in Gantry Design, available also with face plate (VMG-PS).

schiess.de;

Hall 13, Booth A14 (Machine Innovation Network);  
Hall 27, Booth B80 (Aerospace);  
Hall 25, Booth B60 (Indus.4.0)

## A premiere to crown 25th anniversary celebration

**Metalworking Fluids** - Oemeta Chemische Werke, a metalworking fluid manufacturer, will present at EMO for the first time on the eve of its 25th anniversary and will showcase the company's latest product, Additiv CX. As part of its Hycut two-component metalworking fluid, the new additive is a high-performance emulsion suitable for all types of metalworking operations, the company says. The biocide-free additive stabilises the pH value and offers good corrosion protection.

"Our two-component Hycut system has undergone continuous development since its introduction nearly 25 years ago in order to keep up with advances in machine technology and legislation," explains Malte Krone, marketing head and product management at Oemeta.

Additiv CX is free of boron and biocides such as formaldehyde donors or iodopropy-



Additiv CX is suited for processing steel, stainless steel, grey cast iron and aluminium as it ensures physical stability.

nyl butylcarbamate (IPBC). It is suited for processing steel, stainless steel, grey cast iron and aluminium, where it not only ensures physical stability, but also stabilises the pH value. The manufacturer also promises effective corrosion protection. When mixed with water at a concentration of just 2%, the additive yields

excellent anti-corrosive properties, the company explains.

At the recommended concentration of between 2.5% and 3% and in combination with Hycut ET 46, which contains oil, the emulsion has an initial pH value of 9.8. This high alkalinity is maintained over a long period of time, thereby ensuring the stability

of the emulsion. Foaming behaviour and material compatibility have also been improved. The advantages are also clear when working with aluminium, Oemeta adds. The embodiment of advanced technology, Additiv CX is exempt from labelling and complies with legal requirements.

Oemeta introduced its two-component Hycut system on the market nearly 25 years ago. Since then, it has been regularly redeveloped. According to the company, despite its higher initial purchase price, when total costs are taken into account, the system is generally more cost-efficient than its competition. This is because it allows for longer cleaning and maintenance cycles, decreasing machine downtime to enable increased productivity. Depending on the processing tasks, cutting speeds can also be increased.

oemeta.com;

Hall 6, Booth F21