



# INVITATION



**VISIT US!**



**IMTS2016**

BOOTH N-6834

More information:  
[imts.emag.com](http://imts.emag.com)

**SEPTEMBER 12 - 17, 2016**

**IMTS 2016** | International Manufacturing Technology Show

McCormick Place | Chicago, IL



[www.emag.com](http://www.emag.com)



**Join us at IMTS 2016 from September 12 – 17 at McCormick Place in Chicago, Illinois!**

EMAG will be displaying machines from the new Modular Standard product family, including the VL 4 and VT 4. Vertical, compact and extremely efficient, we invite you to see first-hand how these machines can improve your production process.

We'll also have live demonstrations on the VM 9 and eldec Mind-M 250 induction hardening machine. Join us to witness the entire spectrum of technologies offered by the EMAG Group from vertical turning and threading, to laser welding and electro-chemical machining.

Experience performance and innovation live in the **North Building at booth 6834.**

Visit [imts.emag.com](http://imts.emag.com) for more information.

We look forward to seeing you there!

Your EMAG L.L.C. Team



# DIVERSITY



Workpiece diameter,  
max.: 4 in.

Workpiece length,  
max.: 6 in.



Workpiece diameter,  
max.: 8 in.

Workpiece length,  
max.: 8 in.



Workpiece diameter,  
max.: 12 in.

Workpiece length,  
max.: 10 in.



Workpiece diameter,  
max.: 15.5 in.

Workpiece length,  
max.: 12 in.



# VL / VT

## Modular Pick-Up Turning Machines

The modular concept of the new machine platform makes it possible for these machines to be perfectly adapted to fit any application. The machines are extremely compact and feature high-performance drives, as well as an integrated automation solution which uses a pick-up spindle or pick-up turret. It's important that we provide our customers with an economical solution that also guarantees the best performance quality. This includes fast processes, high component quality for all technologies used, as well as decreasing investment costs.



Workpiece diameter,  
max.: 4 in.

Workpiece length,  
max.: 15.5 in.



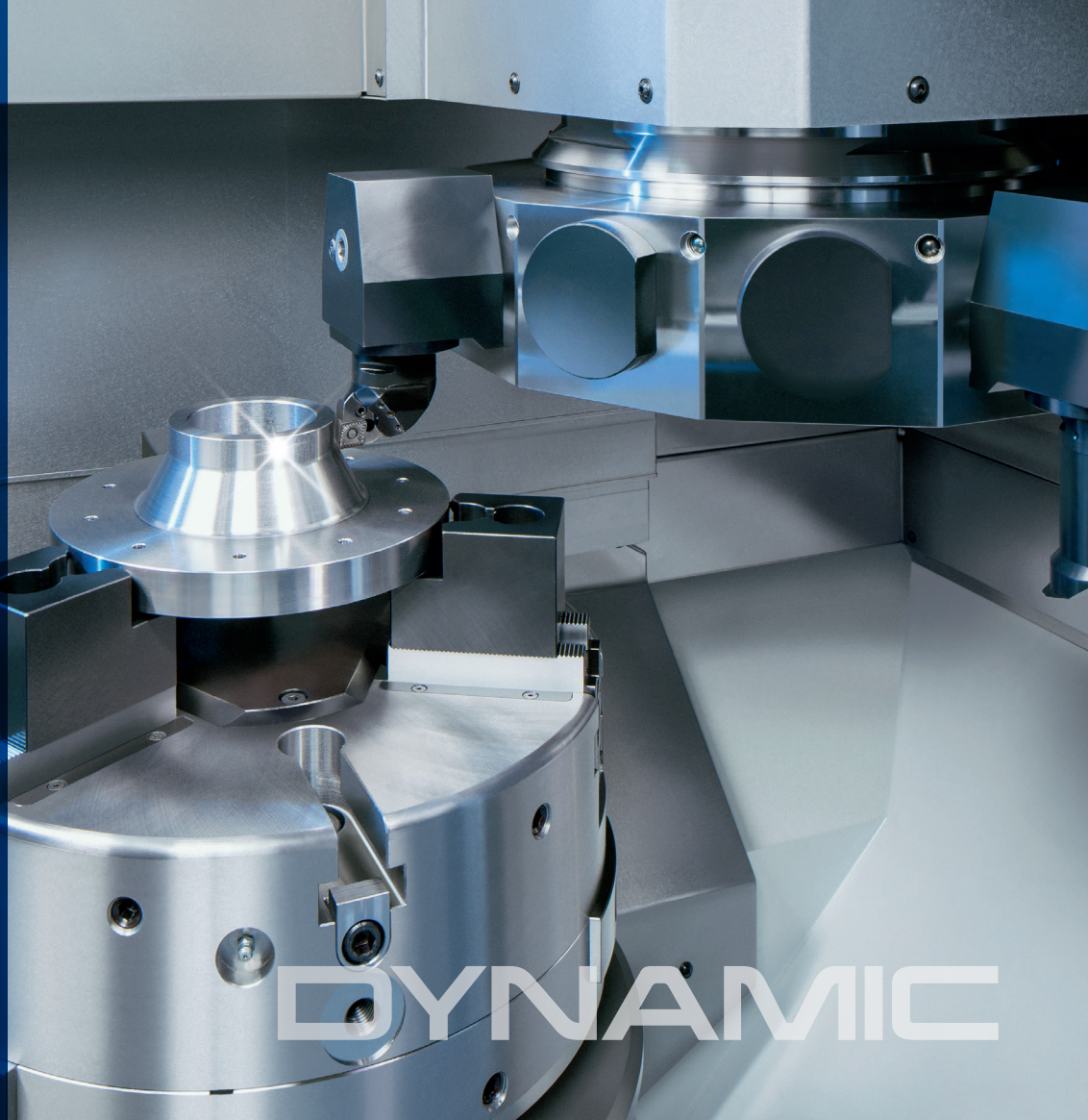
Workpiece diameter,  
max.: 8 in.

Workpiece length,  
max.: 25 in.



## HIGHLIGHTS

- » Maximum productivity due to highly dynamic axes which decrease idle times, thus increases the proportional machining process times.
- » Simple handling because all service units are easy to reach
- » Maximum performance due to short workpiece transport distances
- » High surface accuracy: Axis monitoring by rotary, indirect absolute encoders. All axes can be equipped with an optional, fully encapsulated linear glass scale
- » Ideal for heavy-duty CNC machining with a generously dimensioned main spindle, maintenance-free spindle motors and rigid guideways
- » Very long machine service life because the machine body made of MINERALIT® has six to eight times better damping properties than gray cast iron



# DYNAMIC

# VM 9

## Optimally Adapted Vertical Machining

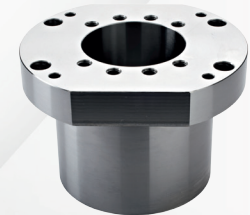
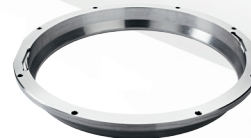
The VM 9 vertical turning center is designed for the manufacture of individual and small production runs with a wide variety of parts. Depending on the desired interface (BMT or VDI), the tool turret features eight or twelve tool positions, which can also be equipped with driven tools to carry out drilling operations. The integrated probe ensures process reliability and guarantees consistently high workpiece quality (first part = good part).

These machine functions make the VM 9 extremely well equipped for a wide variety of production tasks.



Chuck diameter,  
max.: 17.5 in.

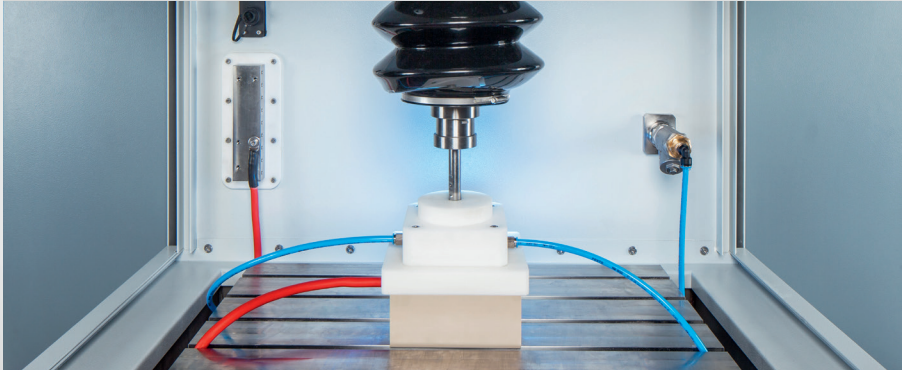
Swing diameter over  
base: 25.5 in.





## PECM TECHNOLOGY

PECM Technology for Manufacturing Demanding Structures and Contours



Precise electro-chemical machining (PECM) is the ideal process for the non-contact, almost wear-free machining of workpieces made of high strength materials such as nickel-based alloys. At IMTS, EMAG will have displays demonstrating the PECM system and its effectiveness in machining extremely difficult 2D and 3D contours. Experts in ECM and PECM will be available to discuss production challenges or opportunities first-hand.



## PRODUCTION LASER WELDING

Laser Welding Systems for High-Efficient Components



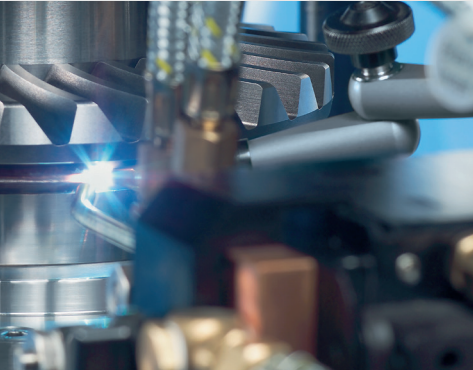
Modern vehicle production seems impossible now without laser welding. Laser welding is a prerequisite for compact, weight-optimized components which allows for energy-efficient vehicles.





# WELDING

Efficiency Power-Train

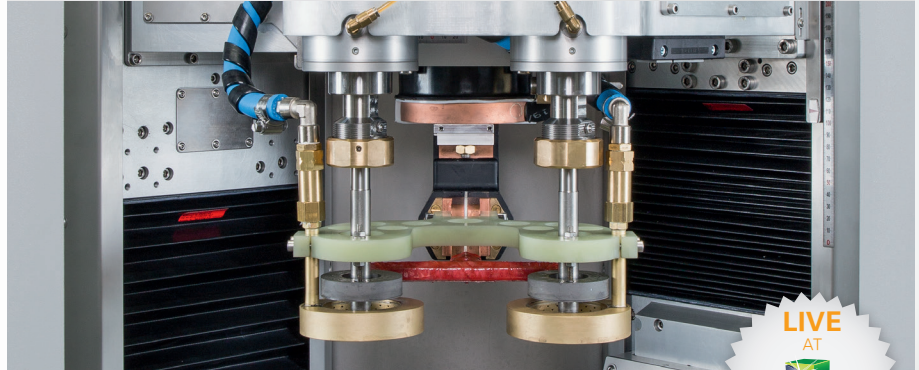


You benefit from high welding speeds and minimum warping on the welded components.



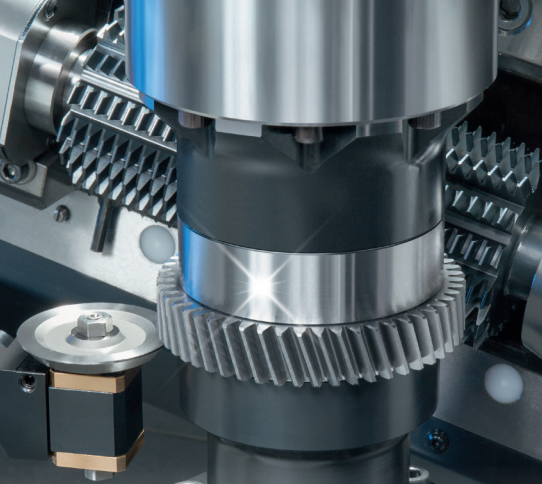
# INDUCTION HARDENING

Induction Hardening of Workpieces up to 9.84 in. long



The MIND-M 250 induction hardening machine offers a high degree of precision and reliability with comparably low investment costs. Simple heat treatment tasks, such as annealing or induction hardening, with a maximum power requirement of 100 kHz in high frequency (HF) or 30 kHz in medium frequency (MF) applications can be processed with the MIND-M 250.





## VL 4 H

### Vertical Gear Hobbing Machine for Efficient Gear Cutting up to Module 4

The VL 4 H machines round workpieces with a diameter of up to 8 inches and module 4.

The machine is loaded and unloaded via the pick-up working spindle. Its compact design, short transport distances and highly dynamic axes ensure short idle times, making the VL 4 H a highly productive hobber.

## THE BENEFITS

- » High speed pick-up gear hobbing for milling chucked parts with a tailstock
- » Excellent chip flow conditions ideal for high-performance dry gear hobbing
- » Probe for positioning workpieces and post-process measurement
- » Easily integrated into manufacturing systems
- » Integrated automation: no additional costs
- » Time-tested KOEPPER gear hobbing technology



Workpiece diameter,  
max.: 8 in.

Workpiece length, max.:  
14 in.

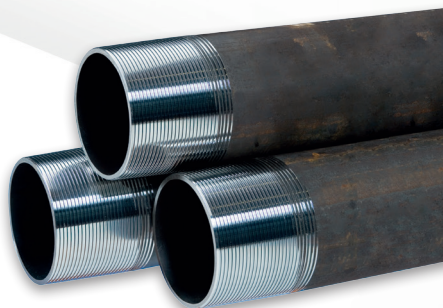


# EMAG OIL FIELD TECHNOLOGY

## Machines and Complete Manufacturing Systems from a Single Source

The flexible machine concepts and complete production systems from EMAG offer customized solutions for the manufacture of tube ends, couplings, tool joints, drill bits, rock bit cones and pump components. EMAG also offers high quality, reliable machining solutions for components in mobile hydraulics, such as hydraulic cylinders and piston rods.

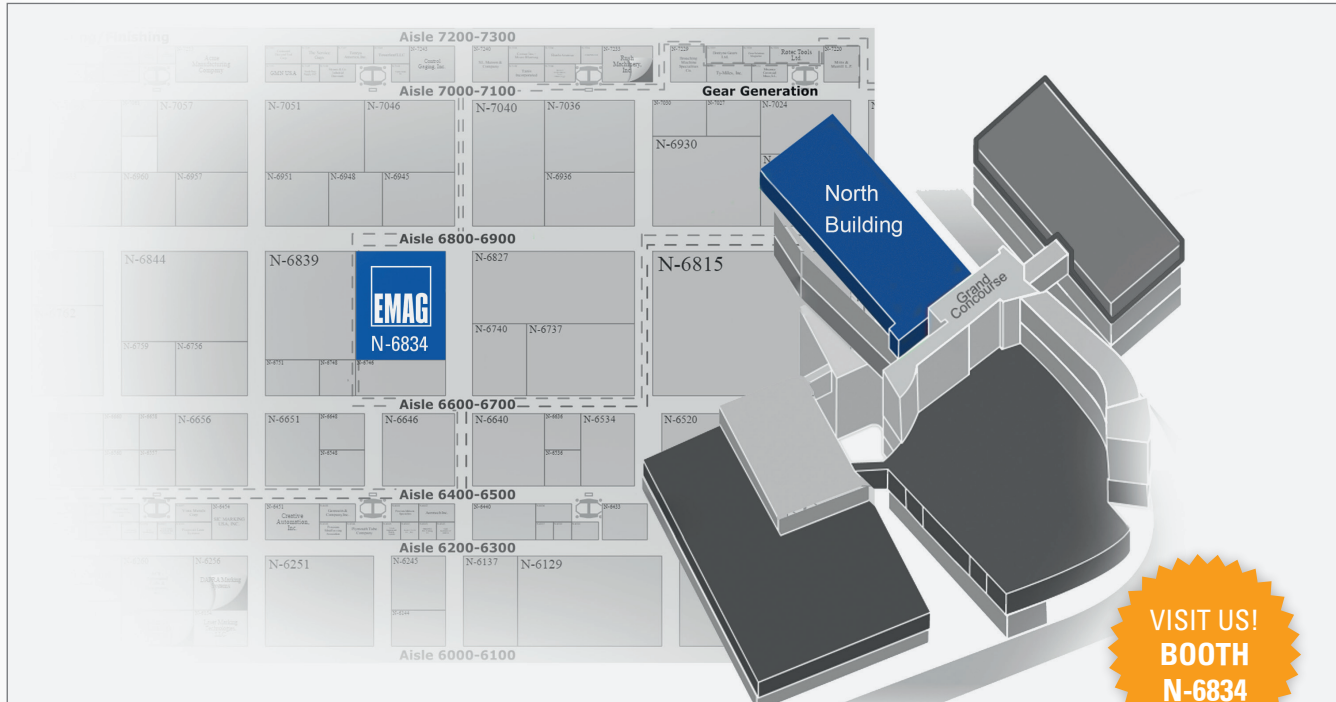
Over 30 years of experience in the machining of OCTG components and 8,000 machines in the field emphasize the quality and reliability of EMAG manufacturing systems. Cutting edge technologies and innovative machining concepts guarantee high output rates and process integrity. EMAG's "Made in Germany" systems offer maximum performance and 85% vertical integration.



## THE BENEFITS

- » Modular Design: allows workpieces of varying sizes to be completely machined.
- » Integrated process reliability and precision: in addition to the actual threading process, EMAG's intelligent system concepts also include cleaning processes, visual inspections, coating and marking, thus comprising a complete manufacturing process.
- » Multifunctional: the ideal platform for multifunctional manufacturing solutions offering single or multiple spindles up to fully automated manufacturing systems.

# IMTS 2016 | International Manufacturing Technology Show



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