

There are eight exciting technical presentations and live demonstrations waiting for you. We're throwing open the doors of our production area. Come and talk to our partner companies and learn about the current technologies involved in the production and processing of precision tools.

01 09:45 am and 12:45 pm
plant 01, room A
Matthias Luik

From powder to finished component

HORN uses its expertise in additive manufacturing

- Engineering design for the best possible customer solutions
- Quality-conscious powder analysis for the most challenging components
- Cost-effective 3D printing with a variety of materials
- Complex machining tasks with HORN expertise
- Project planning from A to Z

02 11:30 am and 13:45 pm
plant 01, room C
Bastian Gaedike

To the atomic level

Coating development at HORN

- Smaller than small – from millimetre to angstrom
- Pre-treatment and subsequent treatment as part of coating development
- Sputtering and HiPIMS – the difference between light bulb and strobe
- Coating analysis is about measuring and interpreting properties
- From new applications to new coatings – development through customer requirements

03 10:15 am and 14:45 pm
plant 01, room D
Markus Kannwischer

**Trends and perspectives
in the precision tool industry**

HORN shows the way forward

- Tool manufacturer caught between lead time and innovation
- Megatrends in the machining industry
- How much longer – will resources last forever?
- Sector-specific take on machining
- New routes to qualification

04 11:45 am and 15:45 pm
plant 01, room B
Aribert Schroth

Machining of sintered carbide

with specific insert geometries from HORN

- The alternative to grinding and eroding
- Used in all traditional cutting operations
- Used on conventional machine tools
- Reducing machining times by up to 95 %
- Fit quality: dimensions and surfaces

05 09:15 am and 15:45 pm
plant 01, room C
Max Zankl

Gear cutting developed

Professional gear cutting with HORN

- Focus on new gear teeth trends
- Use of high-feed milling cutters for external gear teeth
- New machining strategy for Cyclo-Palloid gear
- Innovative milling technology with standard tools from HORN
- New approaches in gear milling

06 10:30 am and 12:45 pm
plant 01, room B
Andreas Kanz

Think outside the box

HORN presents innovative tools for new machining processes

- Today's modern machining processes
- Focus on innovative tool solutions
- Production of technically challenging component geometries
- Potential to increase productivity
- Challenges for human, machine and tool

07 10:45 am and 14:00 pm
plant 01, room A
Jürgen Schmid

Milling at the highest level

HORN defines excellence

- Reducing machining time to a minimum
- Holistic approach to processes
- Increasing process reliability
- Optimum material/cutting material combination
- Substitution of production processes

08 08:45 am and 12:30 pm
plant 01, room D
Andreas Härle / Stefan Minder

Successful grooving and parting off

Sound arguments for HORN

- HORN grooving tools then and now
- Saving tools by using grooving systems
- Selecting the right cutting parameters for grooving on Swiss-type lathes
- Microgeometry and carbide grade – decisive factors for grooving tools
- Innovative grooving tools – the key to modern workpiece machining

Please arrive at the Infopoint Plant 1 15 minutes prior to the scheduled presentation time. We will be pleased to take you to the lecture rooms.

Note: These lectures are only available in German language. Information concerning the foreign-language lectures can be obtained at the Infopoints plant 1 and plant 2.



PROGRAMME