

Mitten im Markt

Messe Stuttgart



AMB-Preview 2024

Monday, 06/10/2024



Welcome!



- Welcome speech
- AMB-Preview Part I
- Key Note: KI im Maschinenbau
- Branchenupdate Software & Digitalisierung
- Aussteller-Preview Software & Digitalisierung
- Branchenupdate Präzisionswerkzeuge
- Aussteller-Preview Präzisionswerkzeuge
- AMB-Preview Teil II

- Kaffeepause

- Branchenupdate Werkzeugmaschinen
- Aussteller-Preview Werkzeugmaschinen



Welcome speech

Sebastian Schmid

Vice President
Messe Stuttgart

Mitten im Markt

Messe Stuttgart



The heart of
metal working
beats in Stuttgart!

at



Stuttgart





Willkommen in

THE LÄND
OF METALWÖRKING



- Greeting
- AMB-Preview Part I
- Key Note: AI in mechanical engineering
- Industry update software & digitalization
- Exhibitor Preview Software & Digitalization
- Industry update precision tools
- Exhibitor preview precision tools
- AMB-Preview Part II
- Coffeebreak
- Industry update machine tools
- Exhibitor preview machine tools



AMB-Preview Part I

Romy Arnold und Florian Schmitz

Project Management AMB

Messe Stuttgart



Internationale Ausstellung
für Metallbearbeitung

10. – 14.09.2024
Messe Stuttgart

Top Aussteller-Länder

Germany

Italy

Switzerland

Spain

More than 1.200 Exhibitors

960 Main exhibitors / 240 Co-exhibitor

over 74,000 m² (net)
over 120,000 m² (gross)

30% international Exhibitors,
which cover 23% of the occupied area





AMB Stuttgart App

(for Android and iOS)



Filter categories

(in the exhibitor index online and
in the app)

AMB Messepodcast
powered by MM

Direct flight offers to AMB

Tuesday Linz | Wednesday Düsseldorf | Thursday Leipzig

Vergünstigtes Veranstaltungsticket der Deutschen Bahn

within Germany





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Key Note: AI in mechanical engineering

Timo Gessmann

CTO | SCHUNK SE & Co. KG



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Industry update Software & Digitalization

Prof. Claus Oetter

Managing Director | VDMA Software and Digitalization



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Exhibitor Preview Software & Digitalization

Marcus Lengerer

Director Marketing Communications EMEA Central
Hexagon Manufacturing Intelligence

Hexagon Manufacturing Intelligence

Hall 7 - Booth 7A51 | Hall C2 - Booth 2A10



Design. Make. Inspect.

Data-driven production for optimum quality, throughput and cycle times





Exhibitor Preview Software & Digitalization

Jasmin Huber

Director Marketing & Communications

OPEN MIND Technologies AG

OPEN MIND Technologies AG

Hall C2 | Booth 2B21

OPEN MIND
THE CAM FORCE
We push machining to the limit

- Innovative complete CAD/CAM solutions for unique consistency in your production
- Hummingbird MES as the perfect complement to optimize your production processes





Thank you!

Your questions, please!

Agenda

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Messe Stuttgart



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Industry update Precision Tools

Markus Heseding

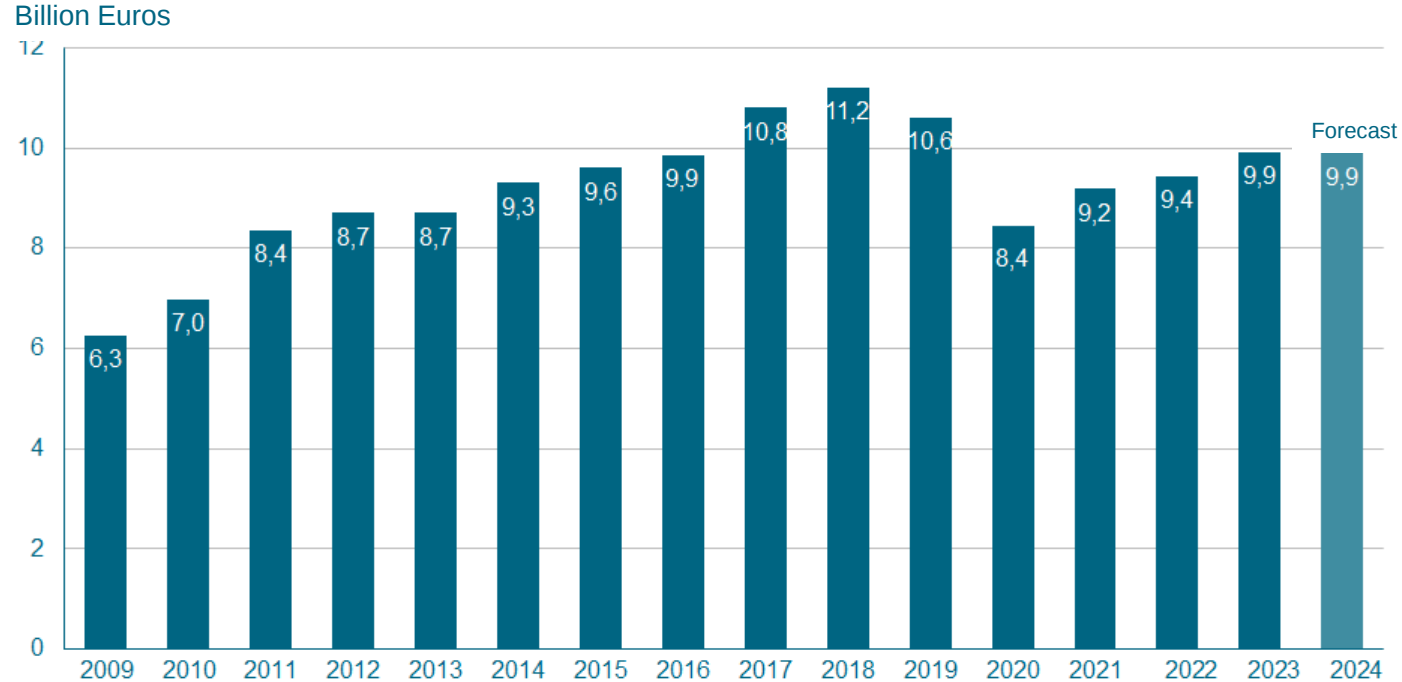
Managing Director | VDMA Precision Tools

A vertical strip on the left side of the slide features a close-up photograph of a water droplet falling into a pool of water, creating concentric ripples. The image is in shades of blue and white.

AMB Trade Press Conference Precision Tools Length Measurement Technology

Stuttgart, 10 June 2024
Markus Heseding, VDMA

Precision Tools German Production

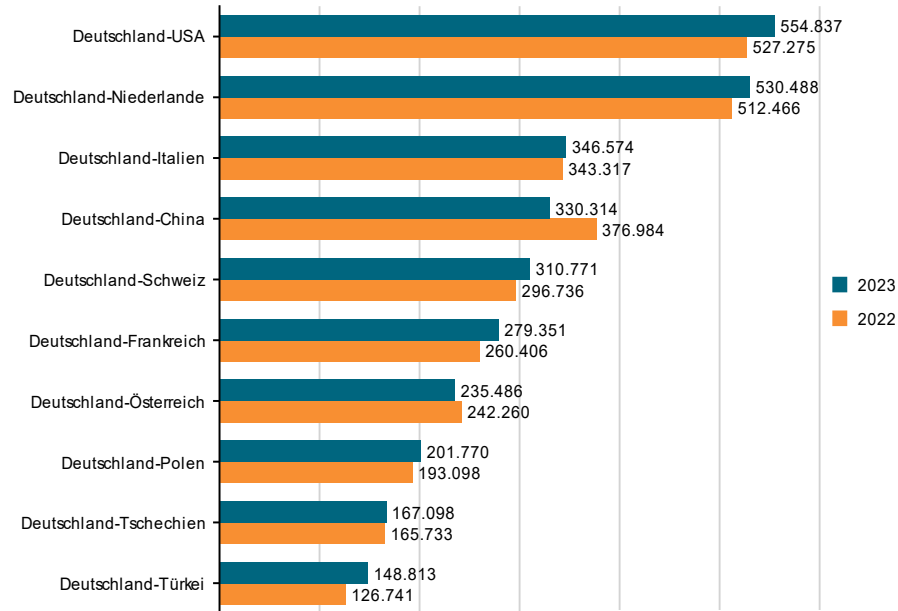


Source: German Federal Statistical Office, forecast 2024 VDMA

Cutting Tools and Clamping Technology

Germany's most important Export Markets

The most important trade flows from Germany
Exports in 1,000 Euros
Cutting tools, Clamping Technology

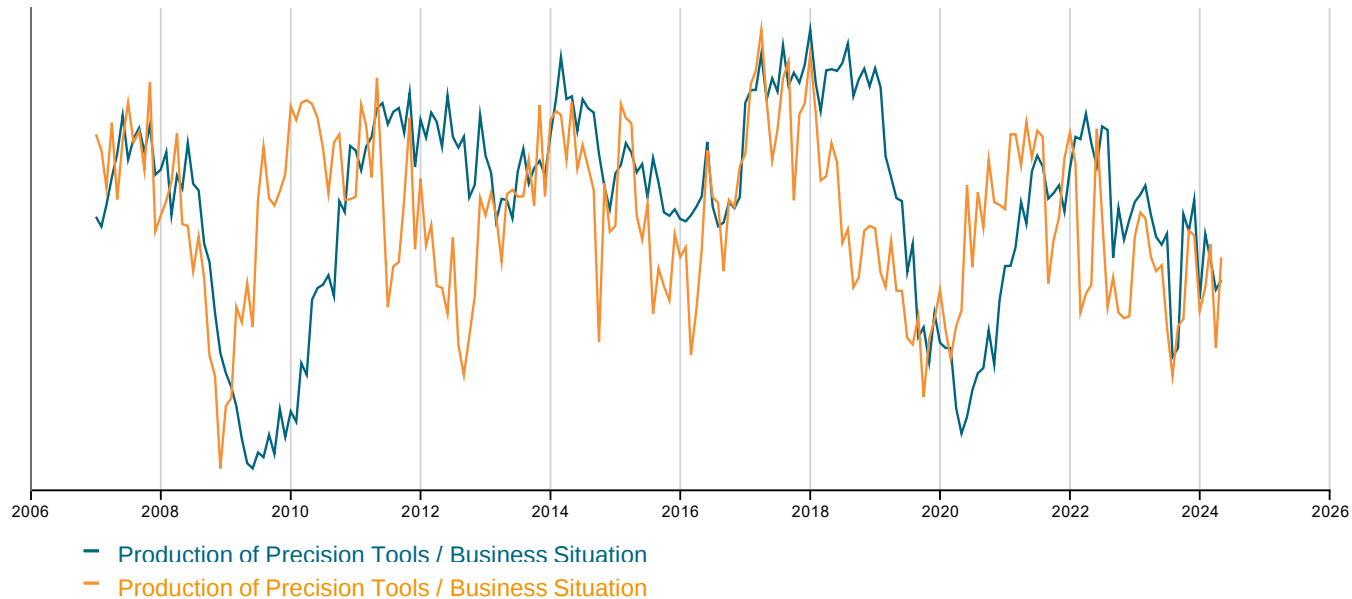


Sources: National Statistical Institutes Copyright: VDMA

Precision Tools

German Business Situation and Expectations

Economic Indicators for Germany

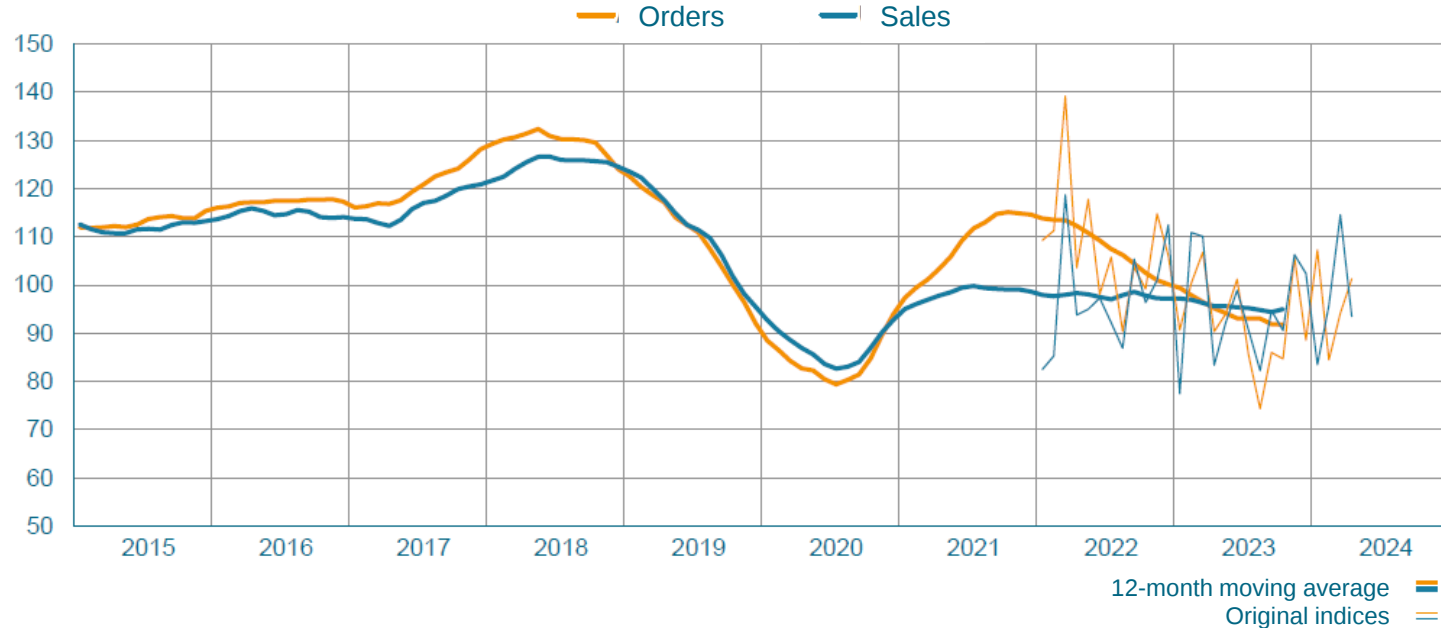


Source: ifo Institute for Economic Research

Length Measurement Technology

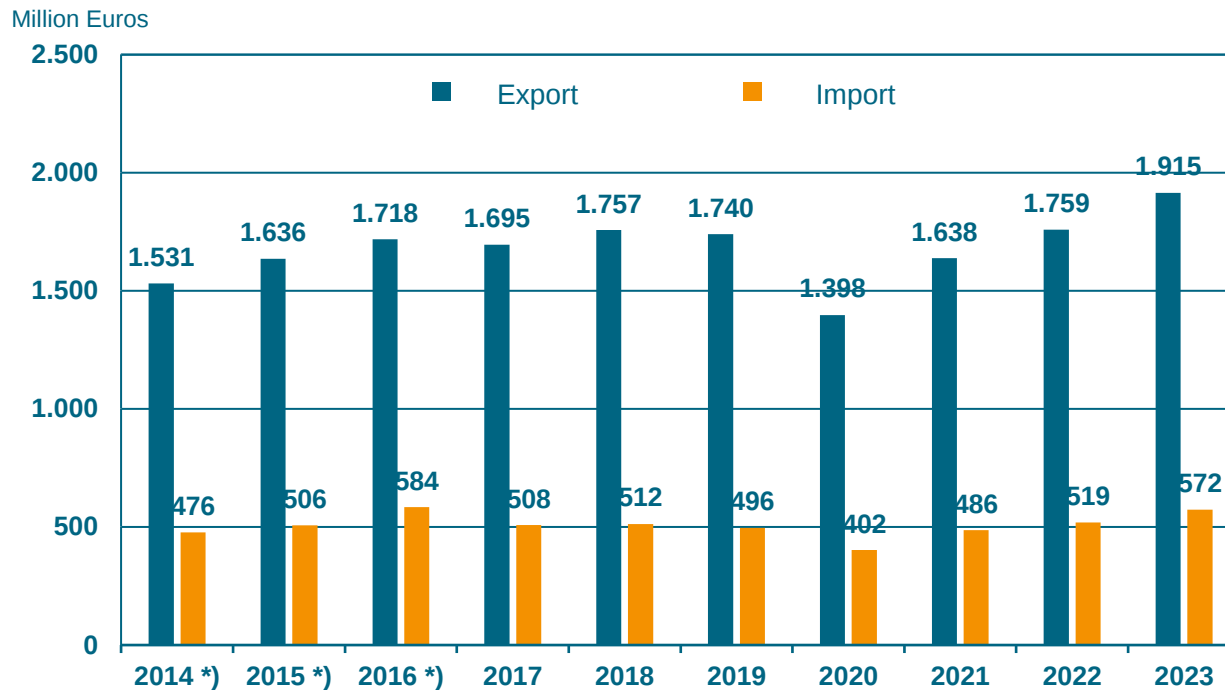
Incoming Orders and Sales in Germany

Price-adjusted indices, based on sales 2021 (=100)



Length Measurement Technology

German Foreign Trade (nominal values)



*) until 2016 including parts and accessories, e.g. for measuring or testing geometric parameters of semiconductors

Standards for Industry 4.0

OPC UA Geometric measurement systems

- » Basic standards for integrating measuring devices and systems into the production line

OPC UA Cutting Tools

- » Standardised interaction of measuring device and tool grinding machine in the manufacture and, in perspective, in the use of cutting tools

I++DME

- » Interface standard for using measuring devices and measuring software from different manufacturers

A close-up photograph of a precision tool, likely a probe or part of a measuring system. It features a metallic body with a small, polished red ball at the tip. The background is a soft, out-of-focus blue.

**Interoperability in length
measurement technology**

Precision Tools

Current Topics

PCF

A standardised industry calculation method for the carbon footprint of tools only has advantages for customers and manufacturers alike.

Tool Packaging

It's not just the tools themselves that are made of valuable materials that are worth recycling. Their packaging also needs to be recycled!





AMB 2024 Facts and Dates



> 100 VDMA members from the fields of precision tools and measuring and testing technology will be exhibiting

- » Precision Tools in Halls 1 and 3
- » Length Measurement Technology in Hall 7
- » 10-13 September 2024 **VDMA Technology Forum** in Hall 1
- » 12/09/2024 **VDMA Industry Get-Together** in Hall 1



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Exhibitor preview precision tools

Michael Blank

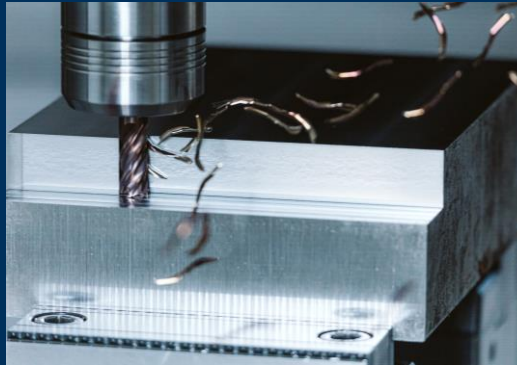
Director Group Marketing & Communication
CERATIZIT Deutschland GmbH

CERATIZIT Deutschland GmbH

Hall 3 | Booth A12 + B10



- **Sustainable products** - 99% made from secondary raw materials
- **Product-Carbon-Footprint** – standard for carbide tools
- **Full transparency** - tool lifecycle with data matrix code and digital solutions
- **Optimized processes** - high efficiency with performance tools





Exhibitor preview precision tools

Stefan Heinz

Head of Marketing

Gühning KG

- Carbide recycling in Germany
 - Our own recycling systems
 - Conserving resources for the future
 - New tools, reconditioning, tool management and carbide recycling at the manufacturer
- Close the cycle with us from new tools to carbide recycling and benefit from all services from a single source





Exhibitor preview precision tools

Markus Buttau

Marketing Manager

HAHN+KOLB Werkzeuge GmbH

HAHN+KOLB Werkzeuge GmbH

Hall 1 | Booth 1B10



- Automation, digitalization, robotics and clamping technology peripherals
- Cutting tools and clamping technology
- E-business solutions and output systems
- Innovative new products from ATORN
- CLIP-O-FLEX workstation solutions
- Hard foam solutions from OPT-I-STORE





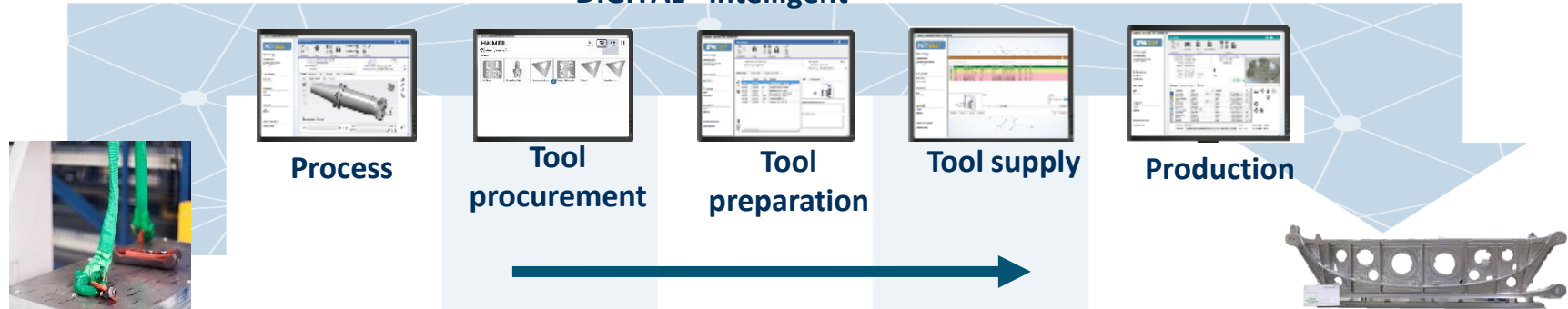
Exhibitor preview precision tools

Tobias Völker

Authorized Representative & Director Global Marketing
Haimer GmbH

Tool Management mit HAIMER – Digital and analog from a single source from A to Z

DIGITAL - intelligent



ANALOG – Process Know-How





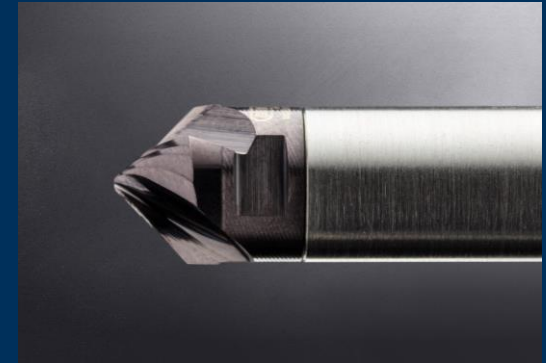
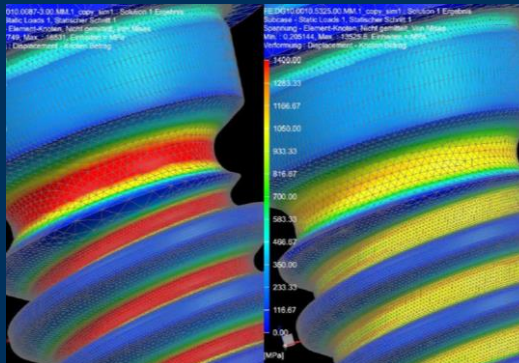
Exhibitor preview precision tools

Philipp Dahlhaus

Head of Product Management

Paul Horn GmbH

- Modular Milling System
- Change accurately
- Optimized Interface





Exhibitor preview precision tools

Karlheinz Walch

Key Account & Product Manager

STARK Spannsysteme GmbH - a company of the
ROEMHELD Group



Future-proof with digitalization & automation

- Digital monitoring of the zero-point clamping system
- Positioning for long-stroke clamps
- Electromechanical clamping elements
- Digital connection from the machine table to the workpiece





Thank you!

Your questions, please!



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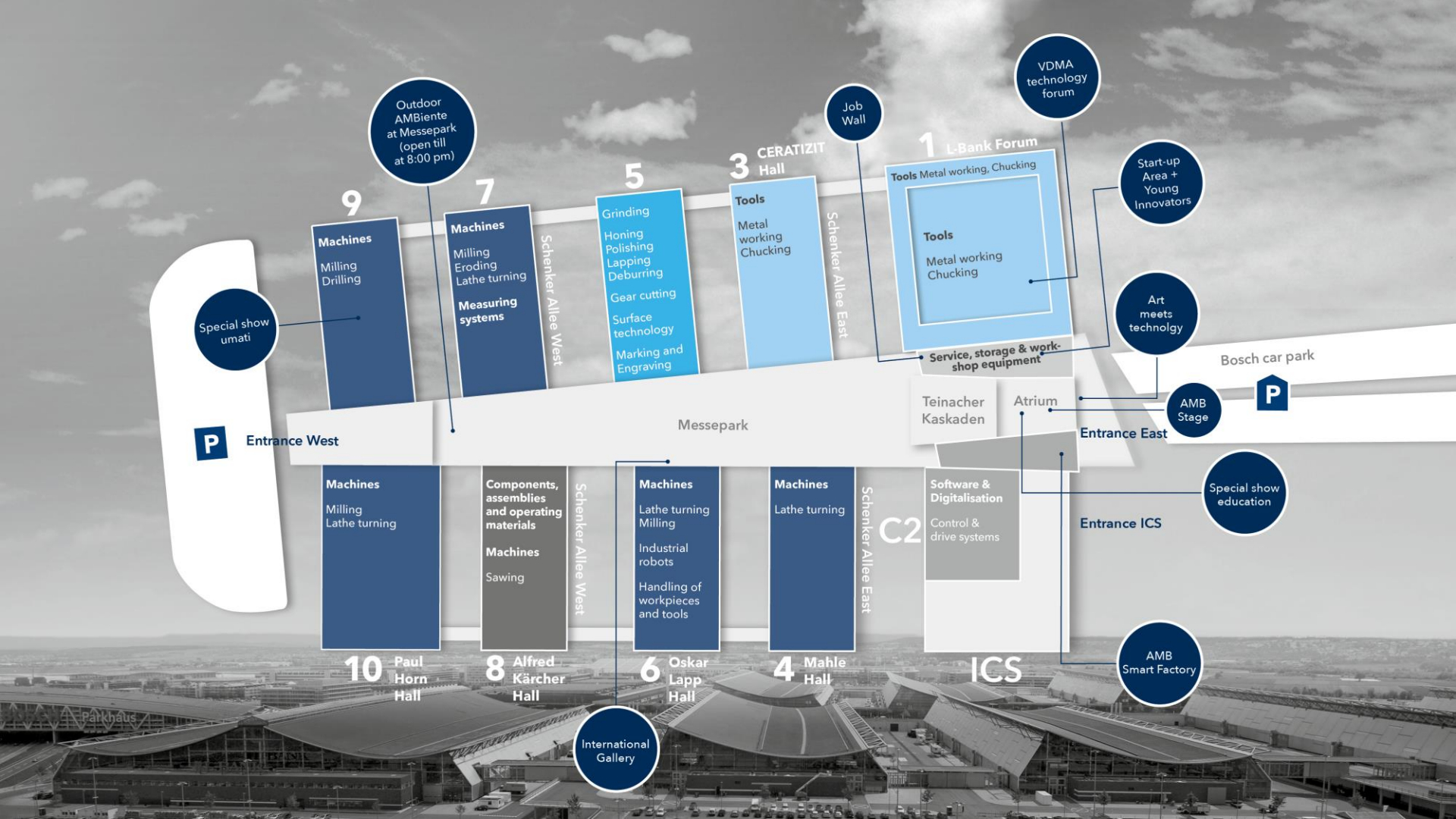


AMB-Preview Part II

Romy Arnold und Florian Schmitz

Project management AMB

Messe Stuttgart



P

Entrance West

Machines

Milling
Lathe turning

10 Paul Horn Hall

Components, assemblies and operating materials

Machines
Sawing

8 Alfred Kärcher Hall

Schenker Allee West

Machines
Milling
Eroding
Lathe turning

Measuring systems

7

Machines
Milling
Drilling

9

Outdoor AMBiente at Messepark (open till at 8:00 pm)

Grinding
Honing
Polishing
Lapping
Deburring

Gear cutting
Surface technology
Marking and Engraving

5

Machines
Lathe turning
Milling

Industrial robots
Handling of workpieces and tools

6 Oskar Lapp Hall

Machines
Lathe turning

4 Mahle Hall

Schenker Allee East

Tools
Metal working
Chucking

3 CERATIZIT Hall

Job Wall

Teinacher Kaskaden

Atrium

Service, storage & workshop equipment

Tools
Metal working
Chucking

1 L-Bank Forum
Tools Metal working, Chucking

C2
Software & Digitalisation
Control & drive systems

ICS

Entrance ICS

Entrance East

AMB Stage

Special show education

Art meets technology

Start-up Area + Young Innovators

VDMA technology forum

AMB Smart Factory

Bosch car park

P

International Gallery

Parkhaus



- Morning Minutes
 - Daily kick-off to the day on the AMB Stage in the Atrium with Hannes Hoch and his guests
- AMB-Saturday:
 - Opening hours: 9 am - 3 pm
 - Special “Meet & Greet” for skilled workers





Coffee break

...it continues at 3:00 pm



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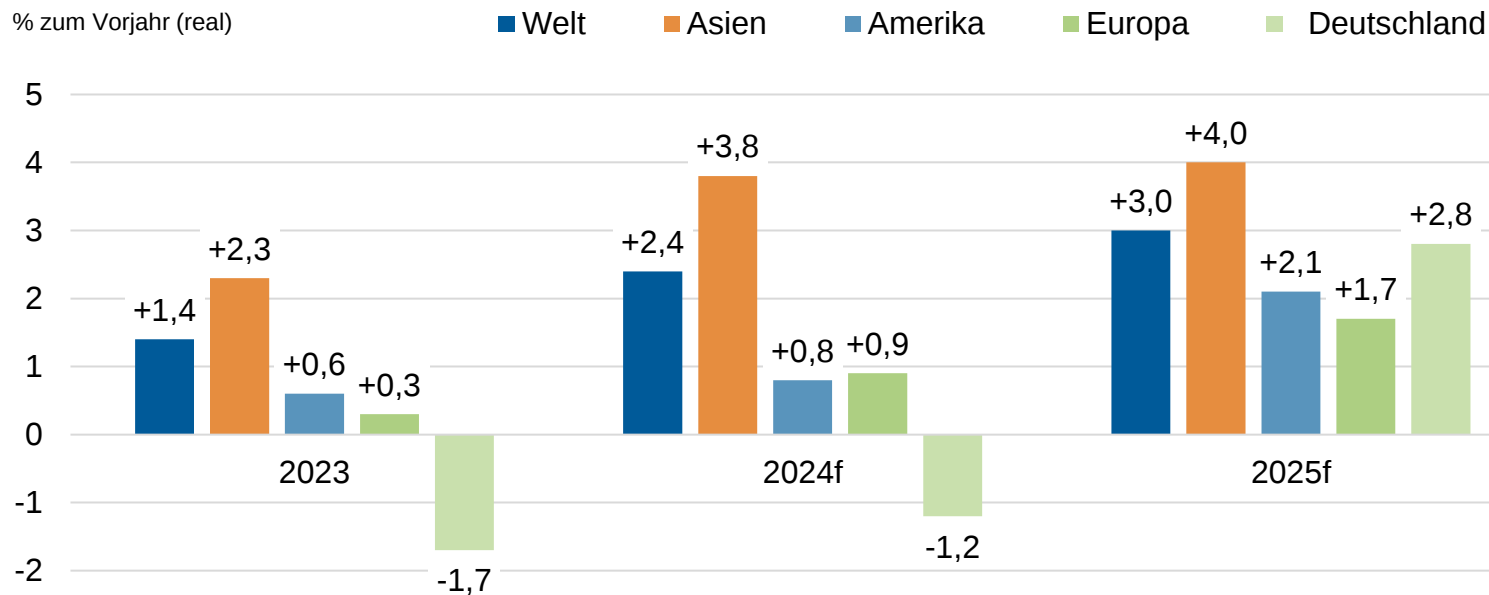
Industry update machine tools

Dr. Markus Heering
Managing Director | VDW

Welcome to the AMB preview10. June 2024 in Stuttgart

Dr. Markus Heering
Managing Director of VDW, Frankfurt am Main

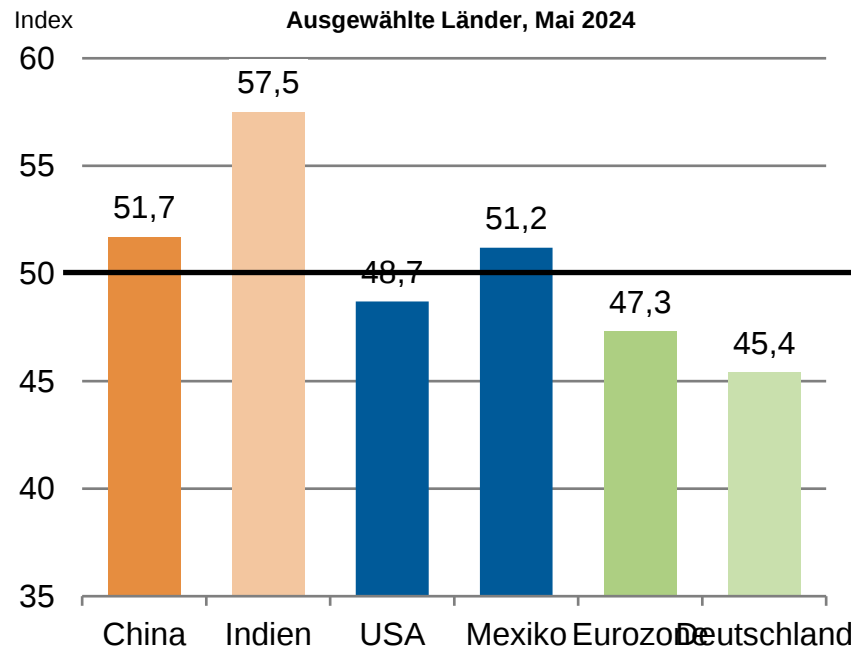
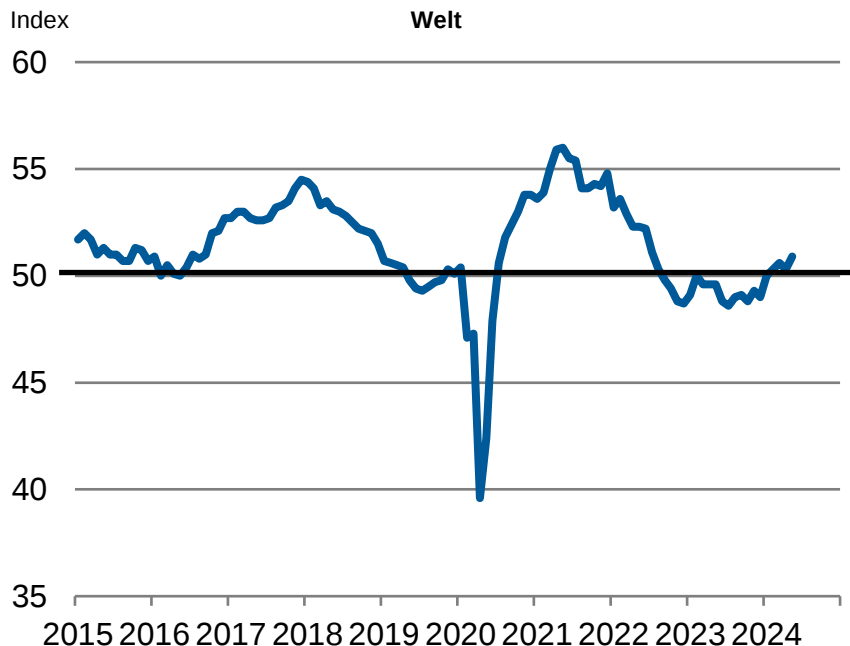
Update on the economic situation in the machine tool industry



Quellen: Oxford Economics, VDW, April 2024

Einkaufsmanagerindex

Globaler Indikator signalisiert Wendepunkt



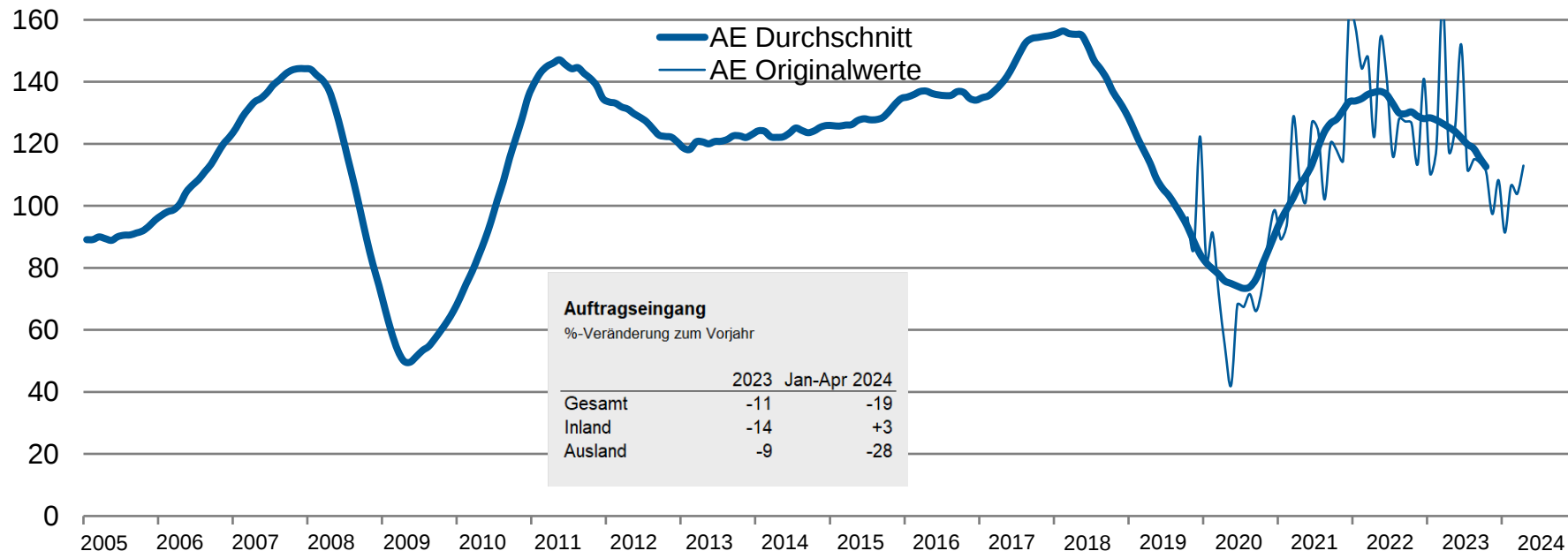
Hinweis: Wert über 50 bedeutet Wachstum, Daten bis Mai 2024, Quelle: Markit

Auftragseingang – Deutsche Werkzeugmaschinenindustrie

Starkes Minus zum Vorjahr, im Verlauf deutet sich mögliche Stabilisierung an



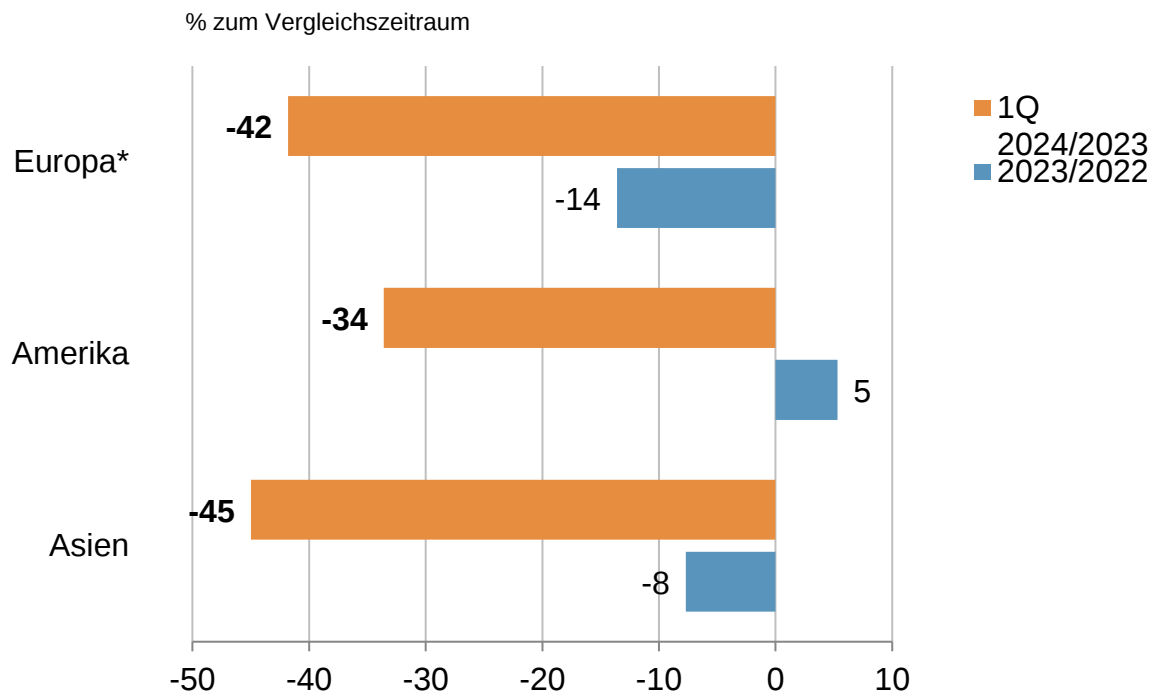
Index, nominal, gleitender 12-Monats-Durchschnitt



Hinweis: Indexbasis Umsatz 2021=100, Daten bis April 2024, Quellen: Monatliche Auftragseingangsstatisik VDMA, VDW

Auftragseingang Regionen – Deutsche Werkzeugmaschinenindustrie

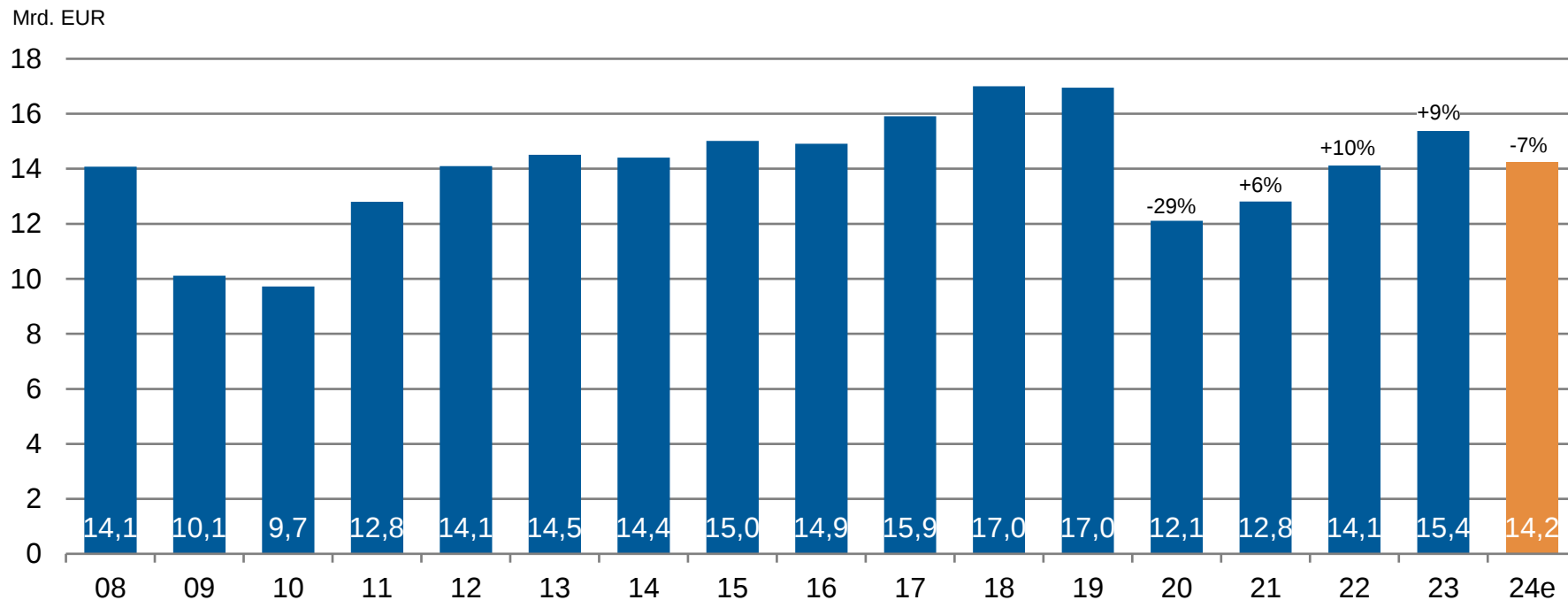
Alle Regionen verzeichnen derzeit einen starken Rückgang



* ohne Deutschland
Quelle: Vierteljährliche Verbandsstatistik (Meldungen der Mitgliedsfirmen)

Produktion – Deutsche Werkzeugmaschinenindustrie

Stärkerer Einschnitt in 2024 nicht zu vermeiden



Quellen: Statistisches Bundesamt, VDW



VDW with partners at the AMB 2024

- Nachwuchsstiftung Maschinenbau: Special show on education Do something with a future - your chance in mechanical engineering, Artrium at the Entrance East
- TechVenture student rally - technology is more than just math from the Scientific Society for Production Technology WGP
- *umati* - universal machine technology interface, Hall 9, Stand C45

Herzlichen Dank
für Ihre Aufmerksamkeit!

Stuttgart, 10. Juni 2024



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Exhibitor preview machine tools

Joachim Jäckl

Marketing
ANCA Europe GmbH

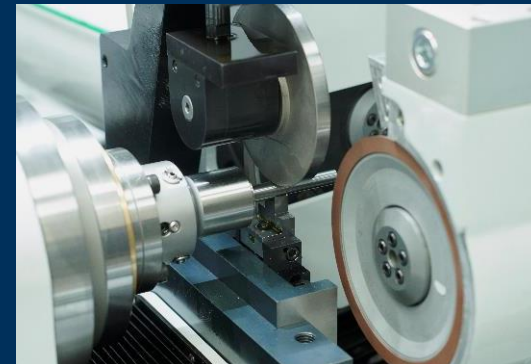
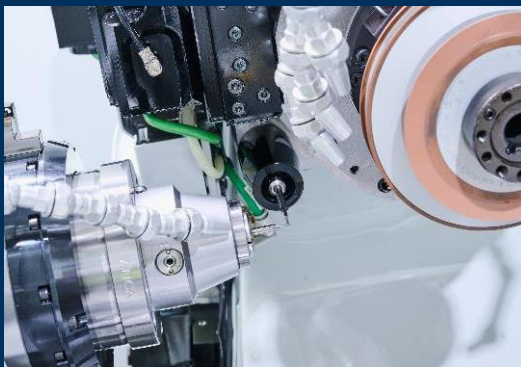
ANCA Europe GmbH

Hall 5 | Booth 5B12

ANCA

CNC MACHINES

- **ANCA package for the 50th anniversary:**
 - New Machines
 - New Software
 - New Automation Solutions
- Live at the AMB
 - GCX for gear cutting tools, CPX for blank machining, AIMS Connect and much more.





Exhibitor preview machine tools

Oliver Loth

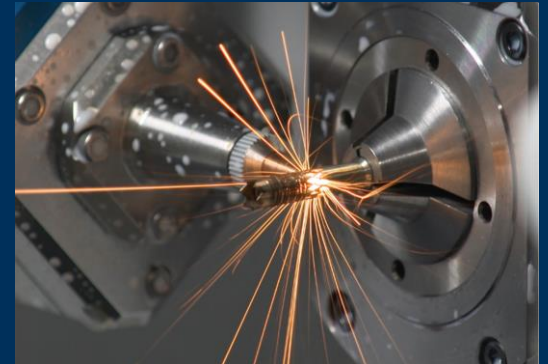
Sales Director Germany
Citizen Machinery Europe GmbH

Citizen Machinery Europe GmbH

Hall 4 | Booth 4D10

CITIZEN

- World market leader in the field of CNC sliding headstock automatic lathes
- Manufacturer of CNC lathes and high-precision lathes
- Automation solutions
- Combined laser and turning machining
- LFV technology for controlled chip-breaking turning





Exhibitor preview machine tools

Matthias Rapp

Vice President Global Marketing
CHIRON Group SE

CHIRON Group SE

Hall 10 | Booth 10A51

CHIRON Group

The CHIRON Group, headquartered in Tuttlingen, Germany, is a specialist in CNC-controlled vertical milling and mill-turn machining centers as well as turnkey and automation solutions. Comprehensive services and digital solutions complete the portfolio. The Group has a global presence with production and development sites, sales and service branches and commercial agencies. Around two thirds of the machines and solutions sold are exported. The main user industries are the automotive industry, mechanical engineering, medical and precision technology, aerospace and tool manufacturing.





Exhibitor preview machine tools

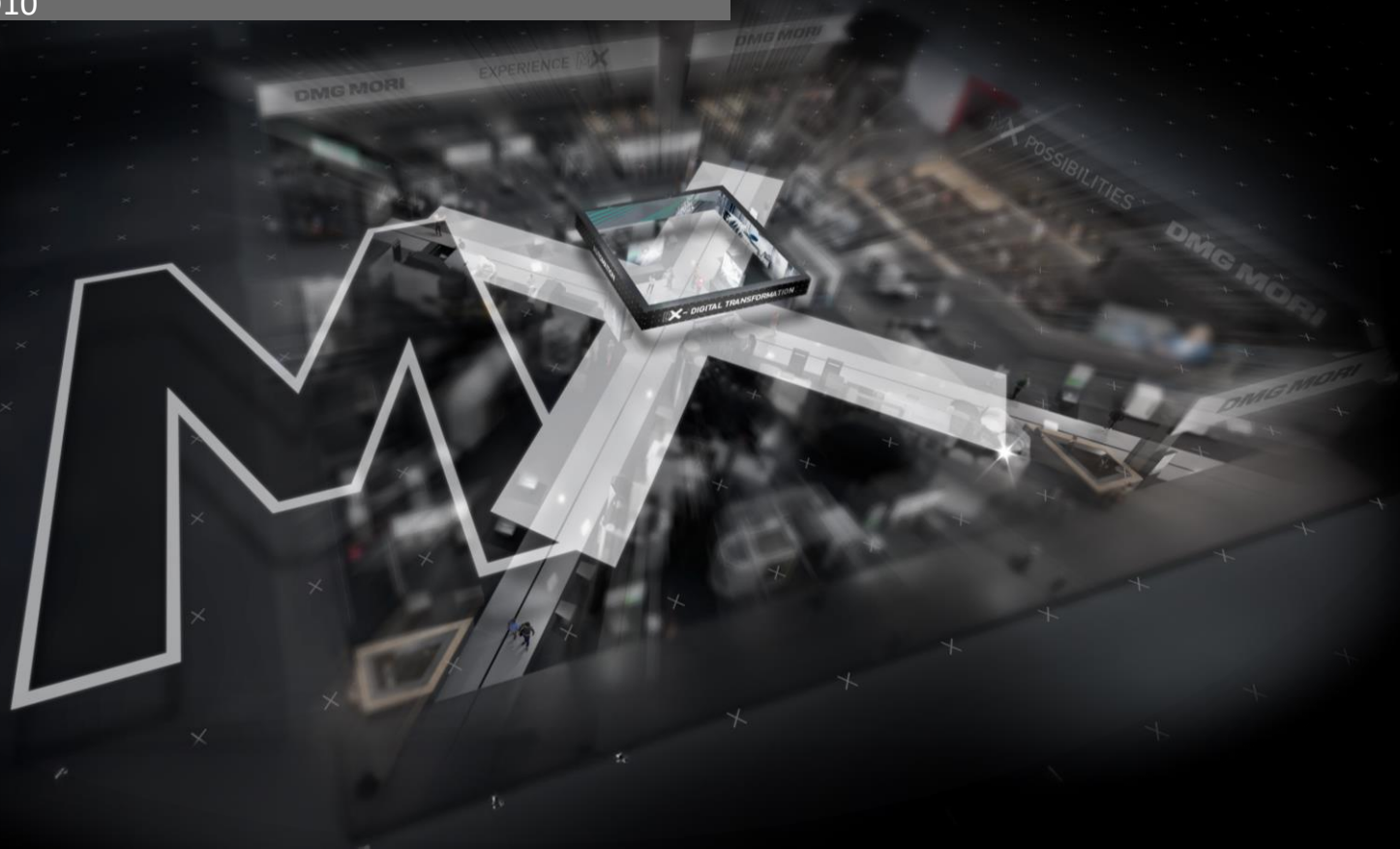
Irene Bader

Member of the Board
DMG MORI Company Ltd.

DMG MORI

Hall 10 | Booth D10

DMG MORI





Exhibitor preview machine tools

Matthias Dreher

Head of Sales FA Germany
FANUC Deutschland GmbH

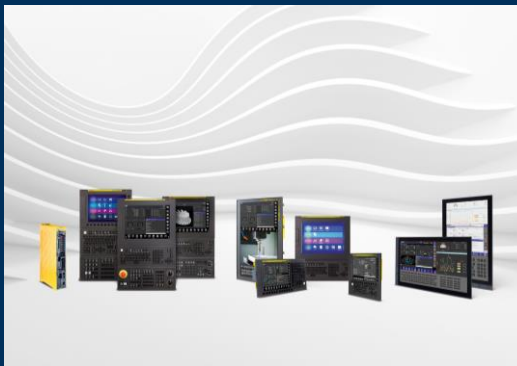
FANUC Deutschland GmbH

Hall 6 | Booth 6B51

FANUC

Highlights:

- New CNC control generation the FS500i-A control system
 - Improved performance with multicore CNC CPU for complex applications
 - More connection options to IoT networks
 - Improved functions for cycle time improvement and improved surface quality
- The ROBODRILL α -D28LiB5ADV Plus Y500 trimmed for top performance, which is very versatile and particularly suitable for large parts thanks to its larger Y-axis stroke
- Intelligent automation on the new FANUC ROBOCUT C400iC and C600iC wire EDM machines and flexible multi-clamping for high efficiency and flexibility
- New R50-iA robot controller
 - For more performance, especially in vision-based applicationsSmart energy management for even more economical production





Exhibitor preview machine tools

Bernd Kornrumpf

Vice President Sales and Marketing
FFG Europe & Americas

FFG (Fair Friend Group)

Hall 6 | Booth B11



Wherever you are, what ever you do
– FFG is for you

No matter how you move
– We keep you in motion

Whatever your goals
– Let's do it together





Exhibitor preview machine tools

Marcus Kurringer

Head of Marketing

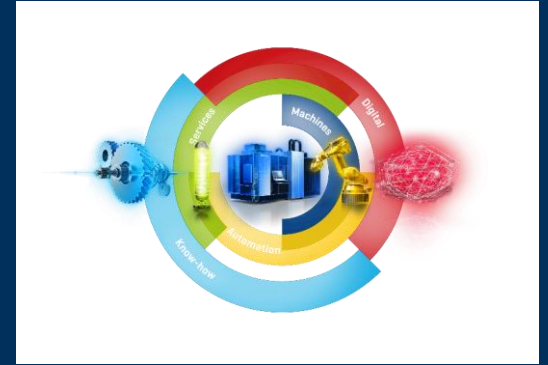
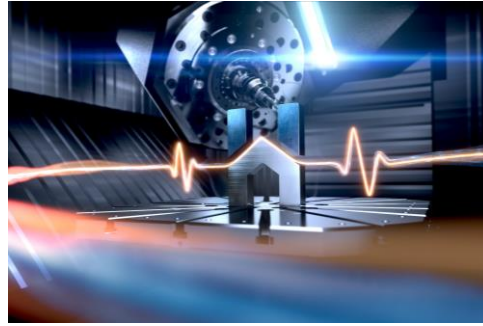
Gebr. Heller Maschinenfabrik GmbH

Gebr. Heller Maschinenfabrik GmbH

Hall 10 | Booth 10A31

HELLER

- **PASSION FOR PRODUCTION**
- 360°- Solution for the production of tomorrow
 - 5-axis machining center F 5000 with rack magazine R260
 - 5-axis machining centerHF 3500 with robot cell RZ50





Exhibitor preview machine tools

Carlo Buck

Managing Director
GF Machining Solutions GmbH

GF Machining Solutions GmbH

Hall 7 | Booth 7B41



- **Machine tools, technical solutions and services for manufacturers of precision molds and tools as well as precision components**
- EDM, milling and spindles, 3D laser texturing solutions, additive manufacturing, laser micromachining, tooling, automation, software and digitalization solutions as well as customer services
- Industries: Medical technology, aerospace, information and communication technology, automotive industry, etc.

Wegweisend in der Industrietechnik

GF Konzern	GF Piping Systems	GF Casting Solutions	GF Machining Solutions	GF Building Flow Solutions
1802 In Schaffhausen gegründet  Johann Conrad Fischer	1864 Erstes Rohrleitungsprodukt  Tempergussfitting	1897 Erstes Autoteil  Seit 1900 produziert GF Räder aus Stahlguss für Autos und Lastwagen	1921 Erste Maschine  GF kauft die Maschinenfabrik Rauschenbach für Landmaschinen	2023 Eine vierte Division  GF akquiriert die finnische Firma Uponor

Nachhaltigkeit ist ein integraler Teil unserer Strategie

Produkt-Portfolio	Klima & Ressourcen	Mitarbeitende & Wohlbefinden
 70% Erweitert und diversifiziert das Produktportfolio	 30% Reduziert den CO2-Fußabdruck	 30% Reduziert Unfälle

My rConnect



Machine Validation Process Inspector Process Tracker



MILL-Grind Zwei-in-Eins-Lösung





Exhibitor preview machine tools

Rainer Gondek

Head of Global Marketing
INDEX-Werke GmbH & Co. KG

INDEX-Werke GmbH & Co. KG

Hall 4 | Booth 4C30

INDEX

- INDEX G320 Compact
- INDEX MS24-8
- TRAUB TNL 32 Compact
- INDEX G200 YB-Achse





Exhibitor preview machine tools

Sabrina Röckle

Manager Communications

Yamazaki Mazak Deutschland GmbH

Yamazaki Mazak Deutschland GmbH

Hall 7 | Booth C11

Mazak

NEO TECHNOLOGIE

- VARIAXIS i-700 NEO
- HCN 4000 NEO with 2 PC, 20,000 rpm milling spindle

GEAR MACHINING

- INTEGREX i-250H ST AG (Skiving+ Gear hobbing + measuring)
- QT 250 MSY mit Turn Assist (Skiving)

Mazak Digital „Live“ Twin - Prozess- und Qualitätskontrolle

- CV5-500

MAZATROL DX – Digital Transformation

Latest “All in one” software solution

Main industries :

Aviation, electromobility, medical technology, mechanical engineering





Thank you!

Your questions, please!



**Thank you for your attention
and your reporting!**



**We look forward to
AMB with you!**