Eckelmann Group



E°MILL–
Automation Solutions

for milling, 3D printing & other
CNC-Applications





E°MILL

Where precision meets simplicity

Whether you want to build a compact 3-axis machine or a highly complex machining center with multiple axes and special kinematics: We offer you a customized complete solution that makes your production easier, more efficient and more reliable.

Our specially developed CNC core ensures maximum precision, fast processing times and maximum flexibility - with up to 8 NC channels and 64 axes.

E°MILL – The smart HMI Software for CNC Automation

E°MILL is the high-performance software platform for all CNC tasks. In combination with our advanced CNC controller, you receive a fully operational, ready-to-use solution right out of the box.
If you're looking for a complete machine solution, we deliver a fully integrated package: control and safety technology, servo drives, powerful CNC software, and an intuitive HMI – all from a single source.
Built to last – and perform: Our hardware and software are developed specifically for industrial environments, fully EMC-tested, and designed to deliver maximum reliability and availability – even after many years of continuous operation.

E°MILL HMI User Interface

- Intuitive and modular design
- Easy to learn for new operators
- In-depth functionality for experienced operators
- PLC based on CODESYS
- Flexible HMI Design
- Customization options available
- Includes remote diagnosis functions for easy troubleshooting
- Optional upgrades for Industry 4.0 capabilities

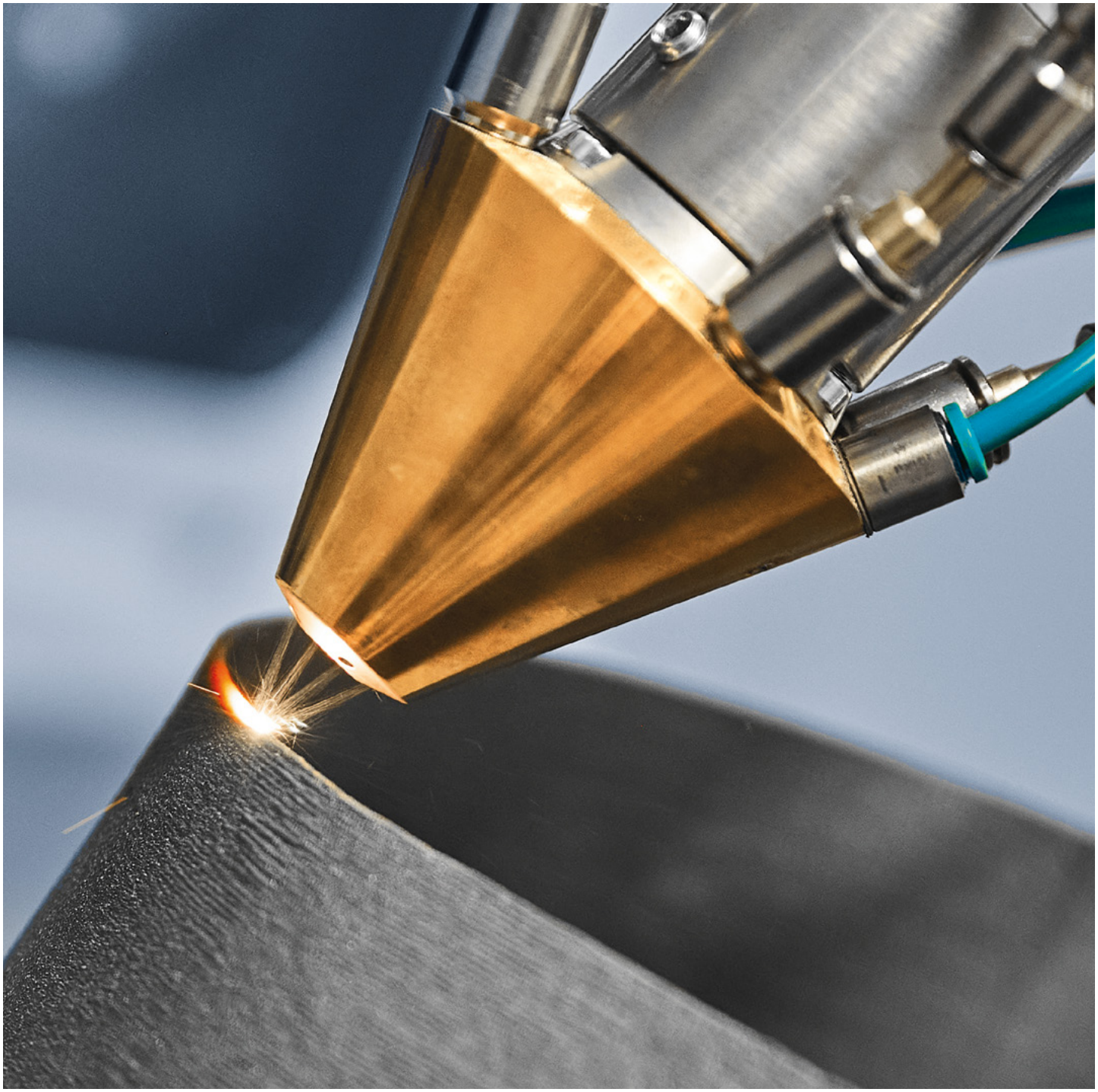


CAD/CAM System

As the machine manufacturer, you know best which CAD/CAM system suits your machine.

We support integration with common systems and are happy to review the technical details with you – or connect you with an experienced system partner.







One HMI – Many Machines.
One Solution – Many Applications.

E°MILL is the ideal HMI platform for machine builders who need a flexible, ready-to-integrate solution. Whether your machines are built for milling, drilling, tapping, sawing or even 3D printing – E°MILL covers it all. Compatible with all common materials and designed for industrial environments, it reduces engineering effort and accelerates time to market.

CNC Applications

- 3D Printing
- Milling
- Drilling
- Tapping
- Sawing

Machinable Materials

- Metal
- Plastic, Resin
- Glass
- Wood
- Stone, Ceramics

You benefit from:

- Customized control technology
- Easy integration into your machines
- Future-proof, maintenance-friendly solution
- Personal support from the first meeting to commissioning

Maximum performance – minimum effort for you

We take care of the automation technology so that you can concentrate on your core business.





Plug & Play CNC Solutions

Ready-to-use control system in a compact cabinet (600 × 600 × 210 mm) – assembled, wired and fully tested.
Just connect and start machining:



- CNC control for 4 axes
- Integrated E°MILL Elements HMI
- 4× Servo drives
- 4× Servo motors (1,4Nm/3000U/Multiturn)
- Fitting cabels on request
- Pre-installed I/O connectors and motor/encoder plugs
- 110 – 230V AC input

Ideal for fast commissioning and scalable machine concepts. Extended configuration options are available on request.

E°MILL Software Packages at a Glance

The E°MILL solution is available in three performance levels, each one tailored to specific machine types and machine setups. All Eckelmann hardware is certified and EMC tested, guaranteeing reliability and longevity in the field!

E°MILL Elements

The reliable foundation for CNC Machines

E°MILL Elements provides all essential functions to get started with professional CNC machining. From intuitive operation and tool management to safe restarts after interruptions – it's the solid base for precise and dependable production.



E°MILL Experience

Enhanced usability and smarter workflows

E°MILL Experience adds powerful features to boost productivity and convenience: advanced tool change strategies, 2D/3D toolpath compensation, and job management ensure smooth and efficient machine operation.





E°MILL Evolution

Maximum performance for complex applications

E°MILL Evolution is built for high-end machines and demanding processes. Upon request it enables parallel control of multiple gantries and heads – offering unmatched flexibility for complex multi-axis machining and high-throughput production.

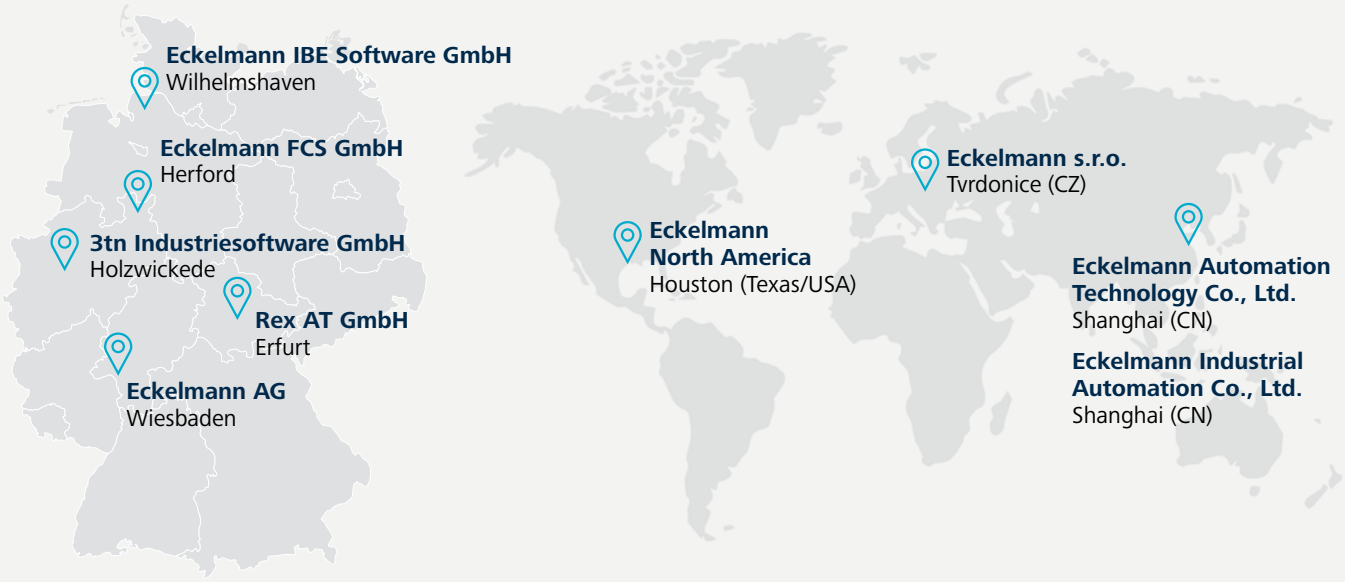


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About us

Eckelmann is your system partner for precise solutions in the field of automation and digitization.
As a strategic partner in digital transformation, Eckelmann leverages the opportunities of digitization and secures sustainable competitive advantages for its customers by creating suitable solutions in machine automation.

Sites & partnerships – national & international
480 + employees



Talk with us.

Eckelmann AG
Berliner Strasse 161
65205 Wiesbaden
Germany
Phone: +49 611 7103-0
maavertrieb@eckelmann.de
www.eckelmann.de

Eckelmann FCS GmbH
Bodelschwinghstrasse 20
32049 Herford
Germany
Phone: +49 5221 966-0
vertrieb-fcs@eckelmann.de
www.eckelmann.de

REX Automatisierungstechnik GmbH
Fichtenweg 36
99098 Erfurt
Germany
Phone: +49 36203 9591-0
vertrieb@rex-at.de
www.rex-at.de

www.eckelmann.de/en

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