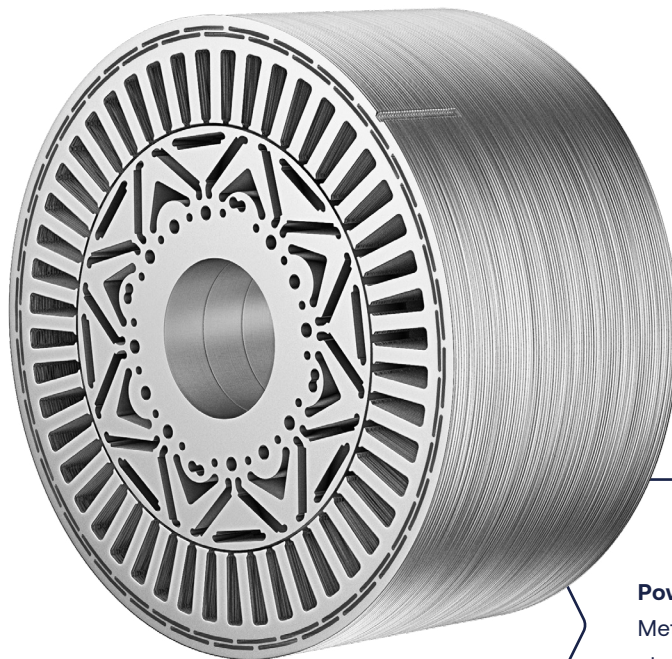


FACT SHEET

# MetalloBond™ Technology



**Powerful and flexible**  
MetalloBond™ Rotor/Stator  
stacks made by ElringKlinger

**MetalloBond™ full face bonding technology was designed to provide best in class sealing performance over lifetime, proven in multiple customer projects across a multitude of different customer validation requirements.**

Sealing performance, full compatibility with temperature, media and mechanical strength requirements makes MetalloBond the preferred technical solution for challenging direct cooled applications. With its ability to seal on minimal

sealing land, in-slot cooling design can be realized without any additional components. Depending on stator geometry and cooling system design and pressure, bridge width on the inner diameter of the stator can be reduced to a minimum.

MetalloBond is applied on the E-Steel in an inhouse coating process and stamped in high speed presses. Assembly, incl. curing of the stacks is done in highly efficient, fully automated production processes. 100% EOL (incl. leakage) can be realized based on customer requirements.

# New Concept

## COATING

- » Inhouse process
- » Full face coating with EK adhesives

## STAMPING

- » High-Speed presses
- » 1- and 2-cav possible
- » Up to 200 strokes/min

## ASSEMBLY

- » High mechanical strength
- » Fully automated production process

## 100% EOL

- » Full dimensional EOL
- » Leakage test

# Benefits

- » Best in class sealing performance allows integrated cooling concepts (incl. in-slot cooling)
- » Full compatibility with temperature and media requirements
- » Improved strength and NVH performance
- » Maximum flexibility in material selection
- » Increase cooling performance, hence more efficient e-machine operation

## ELRINGKLINGER – YOUR PARTNER FOR LAMINATED ROTOR/ STATOR STACKS

Product Development (Design, Engineering and Simulation) – Process Development – Tool Shop – Tool Sampling/Prototyping – Testing – Change-Management – Series Production – Part Measurement

## YOUR CONTACT

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## ► SHAPE<sup>30</sup>

The strategic direction of the ElringKlinger Group

