

14<sup>th</sup> International Conference



Electric Drives Production  
Conference

November 26-27, 2024  
marinaforum Regensburg  
and online

# Program and Exhibition Brochure

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## ABOUT E|DPC

Increasing power consumption, CO<sub>2</sub> and NO<sub>x</sub> reduction, growing mobility and progressing automation – all of these future megatrends are impossible without powerful electric drives. The electrification of the automobile powertrain system is considered crucial, as the whole sector is facing difficulties resulting from the substitution of the complete conventional powertrain. Besides advancing ideas on the design of powerful electric drives, the organization of the manufacturing processes and systems is of utmost importance.

The E|DPC 2024 offers an outstanding platform for the exchange of experiences from developers, researchers and potential users. The focus of the conference is set on the presentation of highly innovative products from various industries as well as manufacturing processes and strategies.

The core topics of the conference will be insulation technologies and the design and process development for windings. In addition, current topics like Aluminum as Conductor Material, Soft Magnetic Materials, Lamination Stacks, Charging Infrastructure and other related topics along the value chain will be presented in accompanying sessions. Comprehensive industrial exhibitions and poster presentations will complement the conference and create a sustainable experience for every participant.

## ON-SITE ORGANIZATION

### Opening time conference:

Tuesday,	26 November 2024,	08:30 AM – 05:15 PM
Wednesday,	27 November 2024,	08:30 AM – 04:30 PM

Phone: +49 8191 125-318

### Opening time table top exhibition:

Tuesday,	26 November 2024,	09:00 AM – 05:00 PM
Wednesday,	27 November 2024,	09:00 AM – 03:30 PM

## PUBLICATION

All Scientific Fullpapers accepted and registered will be part of the proceedings of E|DPC. The scientific contributions will be presented orally in various sessions or as poster presentations and the corresponding papers will be published on IEEE Xplore® and indexed by Scopus and Google Scholar.

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## CONTACT

### CONFERENCE COORDINATOR



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## Dear distinguished experts in drive technology!

As in previous years, the transition towards electromobility continues to make progress, despite the ongoing global challenges. In addition to automotive applications, electrification is advancing rapidly in other sectors as well, including commercial vehicles. We are excited to announce that one of this year's keynote presentations at the E|DPC will highlight the challenges of electric drives in commercial vehicles. Paired with other innovations, electric drives play a crucial role in making buses and trucks more sustainable.

Amidst the entire revolution in mobility, the expertise in electric motor production is becoming increasingly vital. The E|DPC presents the latest findings in materials, production processes and electric drive concepts. Seasoned experts and forward-thinking researchers will provide an ideal platform for knowledge exchange and expanding your professional network. Additionally, our exhibitors will present the latest technologies, allowing you to discuss your specific needs and tailor solutions accordingly.

We are thrilled to welcome you back to Regensburg. You can be excited and look forward to two days of engaging presentations and discussions. Stay curious and discover the most recent advancements in electric drive technologies at the E|DPC 2024!

I am looking forward to meeting you in Regensburg!

A handwritten signature in blue ink that reads "Jörg Franke". The signature is fluid and cursive, with a checkmark-like flourish at the beginning.

Prof. Dr.-Ing. Jörg Franke

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## TIME SCHEDULE OVERVIEW

### TUESDAY, 26 NOVEMBER 2024

8:30 AM	Welcome Coffee		
9:00 AM	Opening of the Conference: Prof. Franke, Jörg, University of Erlangen-Nuremberg		
9:10 AM	Opening Keynote: tbd		
9:40 AM	Opening Keynote: Dr. Selema, Ahmed, USP3D NV (BE)		
10:15 AM	Coffee Break		
	Track 1	Track 2	Track 3
10:45 AM	Winding and Bending	Contacting Technologies	Trends in Electric Machine Design
12:15 PM	Lunch Break		
1:45 PM	Insulation Materials and Technologies I	Analysis and Measurement Technologies	Data-Driven Approaches in Electric Drives Production
3:15 PM	Coffee Break		
3:45 PM	Insulation Materials and Technologies II	Resources and Sustainability	Trends in Production Processes for Electric Drives I
5:15 PM	End of Conference Day One		
7:30 PM	Evening Reception		

### WEDNESDAY, 27 NOVEMBER 2024

9:00 AM	Welcome Coffee		
	Track 1	Track 2	Track 3
9:15 AM	Hairpin Stators I	Soft Magnetic Materials I	Thinking outside the Box
10:15 AM	Coffee Break		
10:45 AM	Hairpin Stators II	Soft Magnetic Materials II	Energy Transfer for Electric Vehicles
12:15 PM	Lunch Break		
1:45 PM	Litz Wires	Soft Magnetic Materials III	Trends in Production Processes for Electric Drives II
3:15 PM	Coffee Break		
3:45 PM	Closing Keynote: Dr. Meyer, Martin, MAN Truck & Bus SE (DE)		
4:15 PM	Best Paper Award and Closing Words		
4:30 PM	End of the Conference		

# TIME SCHEDULE

Tuesday, 26 November 2024

8:30 AM	Welcome Coffee		
9:00 AM	Opening of the Conference Prof. Franke, Jörg, University of Erlangen-Nuremberg (DE)		
9:10 AM	Opening Keynote: to be clarified		
9:40 AM	Opening Keynote: 3D Printed Aluminum Windings for High-Speed E-Motors and Weight-Sensitive Applications Dr. Selema, Ahmed, USP3D NV (BE)		
10:15 AM	Coffee Break		
	<p>Session 1: großes Forum</p> <p>Winding and Bending</p> <p>Session Chair: Prof. Franke, Jörg, University of Erlangen-Nuremberg (DE)</p>	<p>Session 2: Forum 7, 8, 9</p> <p>Contacting Technologies</p> <p>Session Chair: Dr.-Ing. Gläsel, Tobias, Schaeffler Technologies AG &amp; Co. KG (DE)</p>	<p>Session 3: Forum 2 ,3 ,4</p> <p>Trends in Electric Machine Design</p> <p>Session Chair: Dr.-Ing. Brandes, Jürgen, Schaltbau GmbH (DE)</p>
10:45 AM	<p>Winding Solutions for a Fast-Moving Market</p> <p>Vanzetti, Gianpiero, Marsilli Deutschland GmbH (DE),</p>	<p>Repair of Defective Contact Points in Hairpin Stator Production Using Laser Welding</p> <p>Hartmann, Sebastian, PEM of RWTH Aachen University (DE)</p>	<p>Deterministic and Stochastic Methods in Discrete Topology Optimization of a Permanent Magnet Synchronous Machine with Surface Mounted Magnets</p> <p>Prof. Hahn, Ingo, University of Erlangen-Nuremberg (FAU) (DE)</p>
11:15 AM	<p>Bending and Welding Behavior with Different Copper Grades in the Hairpin Stator Process Chain I</p> <p>Abratis, Cornel, Aurubis AG; Schmid, Laurens, Gehring Technologies GmbH &amp; Co.KG (DE)</p>	<p>Application of Laser Paint Stripping System in Flat Wire Stator Manufacturing</p> <p>Wang, Xianfeng, Nevem Intelligent Technology (Shanghai) Co. Ltd. (CN)</p>	<p>Comparison of Analytical and Finite Element Based Parameter Identification Methods for Electrical Machines</p> <p>Kalla, Matthias, Fraunhofer IEE (DE)</p>
11:45 AM	<p>Bending and Welding Behavior with Different Copper Grades in the Hairpin Stator Process Chain II</p> <p>Krupa, Martin, Schwing &amp; Hasse Elektrodraht GmbH; Bauer, Martin, WAFIOS AG (DE)</p>	<p>Maximizing the Output of Hairpin Stator Laser Welding by Applied Artificial Intelligence</p> <p>Beranek, Matthias, TRUMPF SE &amp; Co.KG (DE)</p>	<p>Investigations into unconventional Air Gap Contours in Electrical Machines and their Effects on Radial and Tangential Forces</p> <p>Voigtmann, Marco, TU Chemnitz (DE)</p>
12:15 PM	Lunch Break		
	<p>Session 4: großes Forum</p> <p>Insulation Materials and Technologies I</p> <p>Session Chair: Dr.-Ing. Albrecht, Thomas, Mercedes-Benz AG (DE)</p>	<p>Session 5: Forum 7, 8, 9</p> <p>Analysis and Measurement Technologies</p> <p>Session Chair: Prof. Urban, Nikolaus, Deggendorf Institute of Technology (DE)</p>	<p>Session 6: Forum 2,3,4</p> <p>Data-Driven Approaches in Electric Drives Production</p> <p>Session Chair: Dr.-Ing. Hubert, Markus, Valeo eAutomotive Germany GmbH (DE)</p>
1:45 PM	<p>Effects of Wire Bending onto Insulation Morphology</p> <p>Philipp, Jan, KERN-LIEBERS Group (DE)</p>	<p>Looking inside Magnets Using Magnetic Field Cameras and Advanced Data Analysis</p> <p>Dr. Vervaeke, Koen, Magcam NV (BE)</p>	<p>Image-based Wire Position Detection for a Flexible Twisting Process of Hairpin Stators</p> <p>Schröder, David, Karlsruhe Institute of Technology (KIT) (DE)</p>
2:15 PM	<p>Partial Discharge Minimization for High-Performance Traction Drives Using PFA Magnet Wire</p> <p>Dr. Jung, Jakob, Additive Drives GmbH; Dr. Maeter, Hemke, Daikin Chemical Europe GmbH (DE)</p>	<p>Optimizing Electric Machine Performance through Elasto-Plastic Rotor Stress Analysis</p> <p>Dr. Passenbrunner, Josef, Linz Center of Mechatronics GmbH (AT)</p>	<p>Distance-based Explainable Anomaly Detection for Electrical Machines through Vibration Signals</p> <p>Lehmann, Michel, TU Ilmenau (DE)</p>
2:45 PM	<p>Wire Enamels - Polyimide vs. PEEK and PAI</p> <p>Brodbeck, Markus, ELANTAS Europe GmbH (DE)</p>	<p>Design and Validation of an Inline Curvature Measurement for Flat Wire Straightening in Hairpin Stator Production</p> <p>Preitschaft Anja, University of Erlangen-Nuremberg (FAU) (DE)</p>	<p>Vision-based Pose Estimation of Superimposed Enamelled Wire Ends for Robotic Handling of Powerdense Flat Wire Stators</p> <p>Henrich, Valentin, University of Erlangen-Nuremberg (FAU) (DE)</p>

## TIME SCHEDULE

Tuesday, 26 November 2024

3:15 PM	Coffee Break		
	<p>Session 7: großes Forum</p> <p>Insulation Materials and Technologies II</p> <p>Session Chair: Dr.-Ing. Meyer, Alexander, WITTENSTEIN cyber motor GmbH (DE)</p>	<p>Session 8: Forum 7, 8, 9</p> <p>Resources and Sustainability</p> <p>Session Chair: Dr.-Ing. Goth, Christian, Vitesco Technologies Germany GmbH (DE)</p>	<p>Session 9: Forum 2, 3, 4</p> <p>Trends in Production Processes for Electric Drives I</p> <p>Session Chair: Dr.-Ing. Hubert, Markus, Valeo eAutomotive Germany GmbH (DE)</p>
3:45 PM	<p>In final approval</p> <p>Köhler, Uwe, LambdaResins GmbH (DE)</p>	<p>Qualitative Study on the Use of Life Cycle Assessments in Electric Drive Production</p> <p>Nankemann, Michael, PEM RWTH Aachen (DE)</p>	<p>Induction Heating Technology for E-Mobility Applications</p> <p>Dr. Seitzer, Andreas, Himmelwerk Hoch- und Mittelfrequenzanlagen GmbH (DE)</p>
4:15 PM	<p>Regulatory Affairs in Insulation Materials</p> <p>Brodbeck, Markus, Kuschnerus, Mario, ELANTAS Europe GmbH (DE)</p>	<p>Automated Detection of Disassembly States in Electric Motors Using Point-Cloud Comparison</p> <p>Hansjosten, Malte, Karlsruhe Institute of Technology (KIT) (DE)</p>	<p>Manufacture of Hollow Coils for a Current-Dense Aerospace Generator</p> <p>Dr. Winter, Alexei, University of Sheffield AMRC (GB)</p>
4:45 PM	<p>Revolutionizing Trickle Impregnation: bdtronic's Sustainable Industry 4.0 Innovations</p> <p>Motta, Carlo, bdtronic GmbH (DE)</p>	<p>Experimental Parameter Analysis for the Disassembly of Magnets from Electric Traction Motors</p> <p>Heim, Markus, KIT Karlsruhe Institute of Technology (DE)</p>	<p>Application led Qualification of Hairpin Insulation Strength</p> <p>Ketzer, Clemens, MARPOSS GmbH</p>
5:15 PM	End of Conference Day One		
7:30 PM	Evening Reception at Leerer Beutel		

The blue timeslots are marking the application-oriented industrial contributions.

## TIME SCHEDULE

Wednesday, 27 November 2024

9:00 AM	Welcome Coffee		
	<p>Session 10: großes Forum</p> <p>Hairpin Stators I</p> <p>Session Chair: Dr.-Ing. Gläsel, Tobias, Schaeffler Technologies AG &amp; Co. KG (DE)</p>	<p>Session 11: Forum 7, 8, 9</p> <p>Soft Magnetic Materials I</p> <p>Session Chair: Prof. Denk, Frank, Deggendorf Institute of Technology (DE)</p>	<p>Session 12: Forum 2, 3, 4</p> <p>Thinking Outside the Box</p> <p>Session Chair: Prof. Risch, Florian, University of Erlangen-Nuremberg (DE)</p>
9:15 AM	<p>How to Mass Produce a Hairpin Stator</p> <p>Jung, Johannes, GROB-WERKE GmbH &amp; Co. KG (DE)</p>	<p>Concepts for Fabrication of Soft Magnet Stator Components in Axial Flux Machines</p> <p>Dr. Weise, Bruno, Fraunhofer IFAM (DE)</p>	<p>A Model-Free Direct Control Solution for Multiphase Electric Drives based on Gradients of Electric Variables</p> <p>Mora Moreno, Pablo, University of Malaga (ES)</p>
9:45 AM	<p>Design and Manufacturing Limits of a Thermoset Composite Overmolded Electric Traction Motor Implementing an Internal Cooling Concept in a Hairpin Winding Stator</p> <p>Stemmler, Christian, Fraunhofer Institute for Chemical Technology ICT (DE)</p>	<p>Precision Stator Solutions for Flat Wire Windings in Axial Flux Machines</p> <p>Sinha, Shrivatsa, Precision Pressing Manufacturers (IN)</p>	<p>Collaborative Electromechanical Engineering: A Concept to Overcome Domain- and IT-System Borders</p> <p>Prof. Urban, Nikolaus, Deggendorf Institute of Technology (DE)</p>
10:15 AM	Coffee Break		

## TIME SCHEDULE

Wednesday, 27 November 2024

	<p>Session 13: großes Forum</p> <p>Hairpin Stators II</p> <p>Session Chair: Dr.-Ing. Meyer, Alexander, WITTENSTEIN cyber motor GmbH (DE)</p>	<p>Session 14: Forum 7, 8, 9</p> <p>Soft Magnetic Materials II</p> <p>Session Chair: Dr.-Ing. Kühn, Alexander, University of Erlangen-Nuremberg (DE)</p>	<p>Session 15: Forum 2, 3, 4</p> <p>Energy Transfer for Electric Vehicles</p> <p>Session Chair: Prof. Haerri, Vinzenz V., Lucerne University of Applied Sciences and Arts (CH)</p>
10:45 AM	<p>Alternative Solutions for Hairpin-Stator Windings in Terms of an Increase of the Cost-Benefit Ratio</p> <p>Hackmann, Wilhelm, Vitesco Technologies GmbH (DE)</p>	<p>Influence of Compressive Stresses on Core Losses and Magnetization Demand of Electrical Steel Sheets and Press Fitted Stator Cores</p> <p>Regnet, Martin, TH Nürnberg GSO (DE)</p>	<p>Challenges and Vision for the Market Introduction of Wireless Power Transfer Charging Products on Vehicle and Infrastructure Side</p> <p>Würz, Thomas, Siemens AG (DE)</p>
11:15 AM	<p>Comparison of Rotary Draw Bending and Pipe Bending Processes in the Context of Hairpin Technology</p> <p>Gerner, Johannes, Karlsruhe Institute of Technology (KIT) (DE)</p>	<p>Investigating the Role of Non-Oriented Electrical Steels Magnetic Polarisation and Mechanical Strength in Boosting Traction Electric Motor Performance</p> <p>Dr. Abouelyazied, Ahmed, ArcelorMittal Global R&amp;D Gent (BE)</p>	<p>Comparison of FEM and PINN-Based Prediction of the Power Transmission of ERS with Small Data Sets</p> <p>Vambolt, Eugen, Technische Hochschule Nürnberg Georg Simon Ohm (DE)</p>
11:45 AM	<p>Investigation of the Influence of Process Parameters on the Hairpin Coil Insertion Process</p> <p>Fraider, Felix, Karlsruhe Institute of Technology (DE)</p>	<p>Improvement of the Design and Manufacturing Processes for Electric Motors Based on Magnetic Measurements</p> <p>Dr. Mierczak, Lukasz, Dr. Brockhaus Messtechnik GmbH &amp; Co. KG</p>	<p>Comparative Analysis of Bonding Materials for Interface Adhesion between Wireless Power Transfer Segments and Asphalt Road Materials</p> <p>Ehrlicher, Patrick, University of Erlangen-Nuremberg (FAU) (DE)</p>
12:15 PM	Lunch Break		
	<p>Session 16: großes Forum</p> <p>Litz Wires</p> <p>Session Chair: Prof. Risch, Florian, University of Erlangen-Nuremberg (DE)</p>	<p>Session 17: Forum 7, 8, 9</p> <p>Soft Magnetic Materials III</p> <p>Session Chair: Prof. Urban, Nikolaus, Deggendorf Institute of Technology (DE)</p>	<p>Session 18: Forum 2, 3, 4</p> <p>Trends in Production Processes for Electric Drives II</p> <p>Session Chair: Prof. Rudolph, Christian, Hochschule für Angewandte Wissenschaften Hamburg (DE)</p>
1:45 PM	<p>Efficiency Optimisation of Electric Traction Motors with High Frequency Litz Wires as a Substitution of Enameled Wires</p> <p>Platte, Volkmar, ELEKTRISOLA Dr. Gerd Schildbach GmbH &amp; CO. KG (DE)</p>	<p>Efficiency Increase of Electric Motors by Using Adhesive Bonded Laminated Cores</p> <p>Hardelt, Stefan, Kisling AG (CH)</p>	<p>Implementation of an Information Model for the Electric Motor Production using the Asset Administration Shell</p> <p>Klein, Nikolaus, Karlsruhe Institute of Technology (KIT) (DE)</p>
2:15 PM	<p>Investigation of Adhesion Properties between Secondary Impregnating Resins and Taped Profiled High Frequency Litz Wires</p> <p>Drexler, David, PEM RWTH Aachen University; Dr. Sell-Le Blanc, Florian, Schaeffler Automotive Buehl GmbH (DE)</p>	<p>Joining of Laminated Core and Shaft of an Electric Machine Rotor by Electromagnetic Forming</p> <p>Prof. Dix, Martin, Fraunhofer Institute for Machine Tools and Forming Technology IWU (DE)</p>	<p>Improving Motor Performance with The Latest Innovations in Conductor Forming and Conductive Materials</p> <p>Bauer, Martin, WAFIOS AG (DE)</p>
2:45 PM	<p>Thermal Conductivity Analysis of Electrical Insulation Systems in Hairpin Technology with Taped Profiled Litz Wire and Flat Enamelled Wire</p> <p>Platte, Volkmar, ELEKTRISOLA Dr. Gerd Schildbach GmbH &amp; CO. KG (DE)</p>	<p>Investigation of Layer Thickness Distribution and Surface Defects on Screen-printed Magnetic Sheets</p> <p>Schmidt, Alexander, University of Erlangen-Nuremberg (FAU) (DE)</p>	<p>The Busbar Revolution – Injection Moulded Copper for the Next E-Drive Generation</p> <p>Dr. Jung, Jakob, Additive Drives GmbH (DE)</p>
3:15 PM	Coffee Break		
	Closing Session		
3:45 PM	<p>Closing Keynote: Electrifying the Truck - Challenges and Solutions</p> <p>Dr. Meyer, Martin, Head of Production Unit Truck, MAN Truck &amp; Bus SE (DE)</p>		
4:15 PM	<p>Best Paper Award and Closing Words: Prof. Franke, Jörg, University of Erlangen-Nuremberg (DE)</p>		
4:30 PM	End of Conference		



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## TABLE TOP EXHIBITION

Tuesday, 26 November and Wednesday, 27 November 2024

E|DPC Table Top Exhibition showcases components, semi-finished goods and materials as well as production-related cutting-edge processes in the production of electric drives and generators.

Meet German and international providers of this technology. Find out about the latest products, innovations and trends, as well as current issues to produce your electric drive or generator. You will receive trend-setting impulses for the use and processing of new materials, productive and flexible assembly technologies as well as innovative motor topologies and control concepts. Visit the Exhibition *in the Foyer Ground Floor* and take the chance to meet new dialogue partners from industry and science.

### Exhibition topics

The structure of the product groups are based on the value-chain and the production-related cutting-edge processes in the field of the production of electric drives and generators.

### Value-chain

- Components
- Semi-Finished Goods and Materials

### Production-related cutting-edge Processes

- Production Techniques/Manufacturing Facilities and Tools
- Quality, Testing/Masurement/Diagnostic Systems
- Electric Drives Manufacturing Services



**ADDITIVE  
DRIVES**

Additive|Drives GmbH  
Pforzheimer Str. 7a, 01189 Dresden  
[www.additive-drives.de](http://www.additive-drives.de)

Additive Drives designs and manufactures a new generation of electric motors: higher power density and unrivalled efficiency for the electric drives of the future.

Additive Drives offers the fastest prototyping in the world: new Hairpin, Wavewinding and X-Pin designs can be realised in just 4 weeks thanks to the targeted use of 3D printing.

Additive Drives also develops customised electric motors to meet the most demanding requirements in the automotive, racing and aerospace industries in small series production.

**Contact:** Philipp Arnold, Chief Financial Officer & Head of Sales, Mobile: +49 173 306 1919,  
eMail: [philipp.arnold@additive-drives.de](mailto:philipp.arnold@additive-drives.de)



bdtronic GmbH  
Ahornweg 4, 97990 Weikersheim  
[www.bdtronic.com](http://www.bdtronic.com)

bdtronic is the world's leading manufacturer of systems and process solutions in dispensing and trickle-varnishing technology, heat staking and plasma pretreatment. With its comprehensive product portfolio, bdtronic serves numerous well-known customers from a wide range of industries, in particular the automotive, electrical and electronics industries as well as filter and medical technology. Today, the company's success is backed by more than 580 employees worldwide at its headquarters in Weikersheim and at its subsidiaries in Belgium, Italy, Great Britain, the USA, Mexico and China.

**Contact:** Philippe Vandewalle, Regional Sales Manager EMEA, Phone: +49 7934 104-0, eMail: [sales@bdtronic.de](mailto:sales@bdtronic.de)



BROCKHAUS MEASUREMENTS  
Dr. Brockhaus Messtechnik GmbH & Co. KG  
Gustav-Adolf-Str. 4, 58507 Lüdenscheid  
[www.brockhaus.com](http://www.brockhaus.com)

BROCKHAUS is an international leading manufacturer of instrumentation devices and systems for the quality control and examination of magnetic materials.

Our customers are manufacturers of electric motors, generators, transformers and hard magnetic materials. We also count research institutes and universities among our customers.

Measurement of all magnetic properties in accordance with international standards.

Product program: Electrical steel tester, Stator tester, Franklin tester, Inline-measuring equipment, Thickness-, width- and hole detection instruments, Hysteresisgraphs, Rotor tester, Gaussmeter, Fluxmeter, Coil systems, Magnetizing devices, Measuring and calibration service.

**Contact:** Navid Cheema, Head of Laboratory/Product Manager, Phone: +49 173 9180 689, eMail: [navid.cheema@brockhaus.com](mailto:navid.cheema@brockhaus.com)



CEIA Induktion GmbH  
Josef-Beyerle-Strasse 9, 71263 Weil der Stadt  
[www.itb-power.de](http://www.itb-power.de)

CEIA Induktion GmbH is the German Sales and Project management subsidiary of Ceia S.p.A. (Italy), a manufacturer of Induction Heating Systems. With an experience of more than 10 years in the e-mobility industry, the company is market leader in providing inductive heat treatment solutions for the production of electrical traction engines.

**Contact:** Götz Biege, Head of Sales, Phone: +49 160 8210750, eMail: [goetz.biege@ceia-induktion.de](mailto:goetz.biege@ceia-induktion.de)



ELANTAS Europe GmbH  
Grossmannstr. 105, 20539 Hamburg  
www.elantas.com/europe

ELANTAS is part of the ALTANA group and is a leading manufacturer of insulating and protecting materials for the electrical and electronics industry. Our portfolio includes wire enamels, insulation tapes, composites, impregnating resins and varnishes, flexible electrical insulation materials, casting & potting resins for high- and low-voltage motors, generators and transformers, as well as conformal coatings for protecting PCBs, modules or sensors. In addition, we offer a wide range of adhesives, as well as materials for printed electronics.

**Contact:** Mario Kuschnerus, Account Management Automotive - eMobility, Phone: +49 151 624 317 37, eMail: mario.kuschnerus@altana.com



Universität Erlangen-Nürnberg FAPS  
Fürther Str. 246b, 90429 Nürnberg  
www.faps.fau.de

The "E|DriveCenter" (Bavarian Technology Center for Electrical Drives) of the Institute for Factory Automation and Production Systems (FAPS) of the Friedrich-Alexander-University Erlangen-Nuremberg (FAU), innovates drive concepts and the related production technologies. These developments are aimed to be transferred from scientific findings to industrial applications. The key activities of the E|Drive Center are the analysis and optimization of the production-oriented construction and the production process design of components and systems for electrical drives. Furthermore, the manufacturing and testing processes are addressed for the components of inductive charge electric vehicles. The center supports the automotive industry in the increasing usage of electric drive systems for the vehicles, and it improves the knowledge transfer in the field of electric drive technology in Bavarian industries.

**Contact:** Dr. Alexander Kühl, Director of the Research Sector Electromechanical Engineering, eMail: alexander.kuehl@faps.fau.de



Gehring Technologies GmbH + Co. KG  
Gehringstraße 28, 73760 Ostfildern  
www.gehring-group.com

Gehring, a global leader in precision machining, develops pioneering technologies for efficient powertrains in e-mobility. Our expertise in laser roughening and honing offers innovative solutions for both combustion engines and electric motors. We are expanding our portfolio to include cutting-edge production technologies for hairpin stator manufacturing, driving the future of e-mobility. As a solution-oriented partner, we offer flexible, customer-specific approaches for series production. Our global presence ensures we meet the needs of key industries, delivering tailor-made solutions that optimize production processes and enhance competitiveness.

**Contact:** David Gossen, eMail: david.gossen@gehring-group.com



G.H. INDUCTION Deutschland GmbH  
Hainbrunner Str. 10, 69434 Hirschhorn  
www.gh-induction.de

We are a group of companies specializing in turnkey projects. From the feasibility of the induction application in your process to the design and manufacture of the systems you need. We take care of your needs anytime, anywhere in the world. Regardless of your industry or size, we will work with you to develop the most cost-effective induction heating solution for your needs by leveraging our technology, service and expertise.

**Contact:** Thorben Jungblut, Sales Manager, Phone: +49(0) 6272 / 92 16 47 / +49 (0) 1726294363, eMail: Thorben.Jungblut@gh-induction.de



Himmelwerk Induction Heating Solutions  
Jopestr. 10, 72072 Tübingen  
www.himmelwerk.com

HIMMELWERK was founded in 1879 by Mr. Gottlob Himmel in Tübingen, Germany. The production of high-frequency generators for inductive and capacitive heating commenced in 1950. Since more than 70 years, our HF- and MF induction heating equipment is serving customers all over the world. Key industries are automotive, electro-mobility, aerospace, medical instruments, optical industry, forging, machine building, automation, bonding, soldering, melting and shrink-fitting. We have solutions from 2 kHz to 2 MHz and from 2 kW to 250 kW module power for our highly diversified customers.

**Contact:** Andreas Seitzer, Managing Director, Phone: +49 172 7242292, eMail: a.seitzer@himmelwerk.com



HÜBERS Verfahrenstechnik Maschinenbau GmbH  
Schlavenhorst 39, 46395 Bocholt  
www.huebers.de

HÜBERS is one of the world's leading suppliers of systems and machinery for potting and impregnation of electrical components such as electrical drives' stators and rotors. HÜBERS is the customers' active project partner from process development to the start of operation and beyond. Having been providing system solutions for more than 80 years now, HÜBERS can justifiably claim to be one of the principal pioneers in resin casting and impregnation technology. As a result, HÜBERS have approximately 100 patents, utility models, and publications on their record.

**Contact:** Christof Pollmann, Sales Management, Phone: +49 2871 281-1201, eMail: c.pollmann@huebers.de



KAMO High Performance Center Campus-Ost  
Rintheimer Querallee 2, 76131 Karlsruhe  
https://www.kamo.one/

The Fraunhofer ICT has its competencies in chemical processes, plastics technology, energy and drives and explosive material technology. The Institute of Electrical Engineering (ETI) of the Karlsruhe Institute of Technology (KIT) researches in the field of electric drives (motors, power electronics, control methods) from pedelecs to passenger cars and commercial vehicles. With KAMO: Karlsruhe Mobility HPC, we offer support for the development of electric axles, from electromagnetic, thermal, and structural design through prototypical implementation to the measurement of all operational properties. We work on motor concepts, cooling processes and series production in plastic injection molding.

**Contact:** Dr.-Ing. Miriam Ruf, Head of KAMO Central Office, Phone: +49 721 4640 117, eMail: Miriam.ruf@ict.fraunhofer.de



Kisling AG  
Motorenstrasse 102, 8620 WETZIKON, SWITZERLAND  
www.kisling.com

Kisling was founded in 1862 and today we are one of the world's leading manufacturers of high-quality adhesives and sealants for almost all industrial sectors, OEM manufacturers and specialist trade. Our product range includes high-strength structural adhesives based on (Meth)Acrylate and Epoxy, Anaerobic Adhesives, Instant Adhesives, RTV silicones as well as encapsulants for a wide variety of applications. At Kisling, the customer always comes first because application-specific adhesive and sealant solutions are constantly being developed.

**Contact:** Dominik Bojko, Business Development Manager, Phone: +49 175 268 06 57, eMail: dbojko@kisling.com



Linz Center of Mechatronics  
Altenberger Straße 69, 4040 Linz – Austria  
www.lcm.at

The Linz Center of Mechatronics (LCM) is a hub for the R&D activities around electric drives in central Europe. With teams working on the design, simulation & optimization, control, involved electronics, and prototyping and testing, LCM supports its partners and customers along the eDrive value chain.

We focus on technology: LCM provides drive designs for high-performance, high speeds, high torques, lowest costs, challenging environments, etc., according to the partner needs. In our >20 years of experience, numerous designs from as small as implantable hearing aids to as big as ship motors have ensured the market success for our customers.

**Contact:** Hubert Mitterhofer, Area Manager Electric Drives, Phone: +43 6648481274, eMail: hubert.mitterhofer@lcm.at

## TABLE TOP EXHIBITION

Tuesday, 26 November and Wednesday, 27 November 2024



**MAGCAM**  
advanced  
magnet  
inspection

Magcam NV  
Romeinse Straat 18, 3001 Leuven – Belgium  
[www.magcam.com](http://www.magcam.com)

Advanced Magnetic Field Measurement.

Magcam offers industry-leading technology for measuring magnetic fields of permanent magnets, magnetic assemblies, and permanent magnet rotors.

At the heart of Magcam, there is Magcam's magnetic field camera, MiniCube 3D. It offers advanced measurement and visualization of full three-dimensional magnetic field distributions with high spatial resolution in less than one second. With the help of MagScope, Magcam's advanced data analysis software for measuring and analyzing magnetic field distributions, we can help Measure, Analyze and Optimize your permanent magnets.

**Contact:** Stephan Kliché, Phone: +32 473 70 29 36, eMail: [Stephan.kliche@magcam.com](mailto:Stephan.kliche@magcam.com)

## MARPOSS

Marposs GmbH  
Mercedesstr. 10, 71384 Weinstadt  
[www.marposs.com/ger/](http://www.marposs.com/ger/)

The MARPOSS Group is a global technology company and partner for quality control in the production environment. It develops and manufactures a wide range of products and solutions for quality and process control of all electric powertrain components: e-motors, batteries and fuel cells. All measurement and test results can be digitally processed and archived. Holistic software solutions allow results to be analysed, visualized and tracked in a simple and easy-to-understand way. MARPOSS is a primary supplier of the major automotive manufacturers, for both ICE and EV applications. It also operates in the energy, aerospace, biomedical, appliance and glass industry.

**Contact:** Clemens Ketzler, Technical Sales Electrical Testing, Phone: +49 7151 2054278, Email [clemens.ketzler@de.marposs.com](mailto:clemens.ketzler@de.marposs.com)

## MARSILLI

Marsilli S.p.A.  
Via per Ripalta Arpina 14  
26012 Castelleone – Italy  
[www.marsilli.com](http://www.marsilli.com)

MARSILLI is a worldwide leader in Winding & Assembly Systems for coils and motors where precision, flexibility and customization are mandatory. MARSILLI has reached a worldwide consolidated position as a Solution Provider for Factory Automation covering various different industries. In the recent years, MARSILLI has committed to playing a significant role in the shift toward electrification thanks to its innovative winding solutions that surpass the traditional and more common technologies both for stator and rotor winding.

**Contact:** Dieter Kiefer, Managing Director Marsilli Deutschland GmbH, Phone: +49 721 6105 3500, eMail: [info.de@marsilli.com](mailto:info.de@marsilli.com)

## NEVEM

NEVEM Intelligent Technology (Shanghai) Co., Ltd. Address: No.601, Jiamei Road, Jiading District, Shanghai  
<https://en.nevemotor.com/>

NEVEM Intelligent Technology (Shanghai) Co., Ltd. was founded in 2018, focusing on integrated solutions for R&D and intelligent mass production of new energy vehicle drive motors. Our business scope covers prototype trial production, customization of single station/prototype lines/mass production lines, technological innovation, process development, as well as industrial cooperation etc.. With advantages in professional expertise, short lead time, premium quality, and competitive cost, we're committed to providing industry-leading products and services to OEMs and motor drive system suppliers in and abroad.

We're headquartered in Shanghai, China, with a manufacturing center and an intelligent equipment center over 20,000m<sup>2</sup>. Besides domestic branches in Dalian, Hefei and Henan, we've also set up overseas subsidiaries in Germany, the United States and Japan, to build the market in Europe and Asia Pacific region. We'll establish a global product and service system, to help customers achieve high-quality development.

We'll continue to explore in the field of flat wire drive motor production for new energy vehicles, to innovate and further improve our technical and manufacturing capabilities. With the spirit of being pioneer, we bring the world cutting-edge technologies from China.

**Contact:** Xianfeng Wang, CTO, Phone: +86 18616356630, eMail: [xianfeng.wang@nevemotor.com](mailto:xianfeng.wang@nevemotor.com)



PPM Precision Pression Manufacturers  
No. W-10 & 11, Block F2, MIDC Pimpri,  
Pune – 411018, India  
[www.ppm.co.in/](http://www.ppm.co.in/)

Precision Pressing Manufacturers (PPM) is a leading provider of industrial solutions with 46 years of expertise in advanced engineering technologies. We specialize in producing high-quality stator cores for electric motors and generators, using axial flux and slinky stator technologies to enhance efficiency and performance. Our skilled engineers create compact, efficient, and lightweight axial flux stator cores, while our slinky stator technology for radial flux machines boosts output and reduces waste, supporting sustainable energy. We drive innovation in motor technology by collaborating with manufacturers on R&D and prototyping projects, delivering high-performance engineering solutions.

**Contact:** Shrivatsa Sinha, Managing Partner, Phone: +91 9890323230, eMail: [s.sinha@ppm.co.in](mailto:s.sinha@ppm.co.in)

## STIEFELMAYER

lasertechnik

Stiefelmayer – Lasertechnik GmbH & Co.KG  
Rechbergstraße 42, 73770 Denkendorf  
[www.stiefelmayer-lasertechnik.de](http://www.stiefelmayer-lasertechnik.de)

Continual improvements lead us to high expertise in laser cutting machines for the E-Mobility Business. Stiefelmayer stands for German high class workmanship since 1874. In our effective s + I machine types the latest laser technology, light carbon construction and dynamic motor drives merge into a laser machine with previously unimagined capabilities. We also offer contract manufacturing that meets the highest demand. Laser cut stator and rotor laminates for prototypes, mini-series or starting new series. single sheets or stacks in various stacking technologies.

**Contact:** Dieter Bulling, Managing Director, Phone: +49 711 934 403 20, Mobile: +49 160 905 335 89, eMail: [d.bulling@stiefelmayer.de](mailto:d.bulling@stiefelmayer.de)



TEPROSA GmbH  
Paul-Ecke-Str. 6, 39114 Magdeburg  
[www.teprosa.de](http://www.teprosa.de)

Teprosa GmbH specializes in precision laser cutting and the production of stators and rotors from electrical steel for the e-mobility sector. Additionally, we are a leading manufacturer of 3D-MID (three-dimensional molded interconnect devices), offering cutting-edge solutions in high-precision component manufacturing. Our expertise ranges from micro-laser processing to the development of innovative production processes for complex assemblies.

**Contact:** Markus Barth, Managing Director, Phone: +49 391 83817791, eMail: [markus.barth@teprosa.de](mailto:markus.barth@teprosa.de)

## WAFIOS

WAFIOS AG  
Silberburgstraße 5, 72764 Reutlingen  
[www.wafios.com](http://www.wafios.com)

WAFIOS Electrifies – Trendsetting concepts for the production of current-carrying power train components for the e-mobility industry. The focus is on the development of machines for forming insulated copper wire and copper profiles as well as on advanced automation solutions.

WAFIOS specializes in the production of hairpins and busbars using flexible bending techniques. Thus ongoing production costs, e.g. for tools, can be kept at a low level, different geometries can be produced flexibly and a quick response to varying material properties is possible. Our experts assist you from prototyping to SOP and beyond

**Contact:** Martin Bauer, Marketing Event, Phone: +49 7121 146 268, eMail: [ma.bauer@wafios.de](mailto:ma.bauer@wafios.de)

## REGISTRATION

Please register online at [www.edpc.eu](http://www.edpc.eu). After we have received your registration, we will send you a confirmation and an invoice, which we would ask you to settle before the event begins. In the event of cancellations received after **11 November 2024**, or non-appearance, the full participation fee will be billed. However, a replacement participant can be designated. For cancellations before this date, a **€ 150** administration fee will be charged. Cancellations and registrations must be made in writing. The event organizer reserves the right to change the location and/or time of the whole event or individual parts of it or to alter or cancel it at short notice. Participants also have the possibility to take part online. After your registration you will receive a link to the event with our confirmation of participation. Register now for the EDPC 2024 on [www.edpc.eu](http://www.edpc.eu).

## CONFERENCE FEE

	On-site	Online	
Standard Fee	1.245,00 €	1.045,00 €	* Reduced fee for international program committee members, speakers (including one paper), participating co-authors and university members and fee to be paid per additional paper.
Reduced Fee*	845,00 €	845,00 €	
One Day Fee	895,00 €	745,00 €	

All prices are subject to VAT according to European regulations. 0% VAT from abroad

## VENUE

E|DPC 2024 will take place at marinaforum Regensburg (Johanna-Dachs-Str. 46, 93055 Regensburg) on 26 and 27 November 2024.

## ACCOMMODATION

For your accomodation we recommend the following hotels:

### Hampton by Hilton

Johanna-Dachs-Straße 10  
93055 Regensburg  
Phone: +49 (0)941 307880-0

Preferential Rate:

Single room 109,00 €  
incl. breakfast and VAT.

### Alter Schlachthof

Am Alten Schlachthof 9  
93055 Regensburg  
Phone: +49 (0)941 463777-0

Preferential Rate:

(available until October 14):  
Double room 105,00 €  
incl. breakfast and VAT.

### Hotel DOCK 1

Alte Straubinger Straße 7  
93055 Regensburg  
Phone: +49 (0)941 6009090

Preferential Rate:

(available until October 14):  
Single room 95,00 €  
incl. breakfast and VAT

### Hotel Luis

Landshuter Straße 24  
93047 Regensburg  
Phone: +49 (0) 941 5674938

Preferential Rate:

Single room 109,00 €  
incl. VAT, excl. breakfast.

## EVENING RECEPTION

All participants of E|DPC 2024 are invited to the E|DPC 2024 Evening Reception on 26 November 2024, 7:30 PM.

Detailed technical discussions are guaranteed and accompanied by a regional menu. The event will take place at Restaurant Leerer Beutel, Bertoldstraße 9, 93047 Regensburg.



## TABLE TOP EXHIBITION

E|DPC 2024 will be completed by a focussed Table Top Exhibition. Companies, research institutes and other organizations will be offered the opportunity to present their products and services to all participants. For any further questions regarding the E|DPC 2024 Table Top Exhibition please contact Sebastian Stürzl, Phone: +49 8191 125-273, E-Mail: [sebastian.stuerzl@sv-veranstaltungen.de](mailto:sebastian.stuerzl@sv-veranstaltungen.de)

## SUPPORTERS

Are you interested in supporting E|DPC 2024 and presenting your company or organization as a supporter? E|DPC 2024 is the ideal platform for the individual advertising of your innovative products and services. For further information, please contact Sebastian Stürzl, Phone: +49 8191 125-273, E-Mail: [sebastian.stuerzl@sv-veranstaltungen.de](mailto:sebastian.stuerzl@sv-veranstaltungen.de)

**PLEASE REGISTER ONLINE FOR THIS CONFERENCE: [WWW.EDPC.EU](http://WWW.EDPC.EU)**

