

### **WOMEN** @ CTI

#### **EXCLUSIVE NETWORKING PROGRAMME FOR WOMEN IN AUTOMOTIVE**

#### **WOMEN NETWORKING AREA**

Launched in 2023, CTI again organised a special programme for female delegates, exhibitors and speakers. Participate in this networking and benefit from the insights & exchange with fellow women!

#### **3 DECEMBER 2024**

10:30 – 11:00 AM Morning Coffee for the Curious – Get to know your Peers!

Find out what they do, how they got into the industry and what topics they would like to discuss. Start sharing experiences from

your professional life.

1:00 – 2:00 AM Networking Lunch Break with Extra Perspectives

**Moderated Roundtables:** Automotive industry through female eyes Equity – what is it and how do we embed it within the workplace?" Claire Saville, Operational Marketing Manager, Driveline, Infineum UK Ltd

The value of mentoring - every hero needs a mentor

Nicole von Wieding, Head of Project Management BEV Drives.

Volkswagen AG

3:30 – 4:15 PM **Walk the Floor** (Main Exhibition Hall)

Meeting Point: Women Networking Area

Visit selected exhibitors who will give insights into their technologies

for sustainable mobility

#### 4 DECEMBER 2024

10:15 – 11:00 AM **Meet the Start-Ups** (Women Only Group)

Meeting Point: Women Networking Area

Visit the Start-Up Area, meet the founders who present their innovations.

12:15 PM - 1:15 PM Networking Lunch Break with W-itamins

Opportunities for women in the automotive and supplier industries

through/in the digital transformation.

Roundtable with Sabine Calvo, VP Engineering Performance,

Validations & Digital Transformation, Renault Group

### START-UP AREA @ CTI

For the first time CTI has set up an exclusive Start-Up Area where young companies will be present. We want to connect innovative start-ups with potential partners, investors, suppliers and decision makers to build valuable relationships and expand their professional network.

Attendees and start-ups can explore opportunities for collaborations and partnerships, for driving growth and opening new avenues.

Start-ups will be introduced on both event days in the plenary hall.

#### 3 December 2024

12:30 PM Introduction of Start-Ups @ CTI (Part I)

Additive Drives | Bruderli | Deeper Pulse | dynamic E flow

Followed by a guided visit of the Start-Up Area

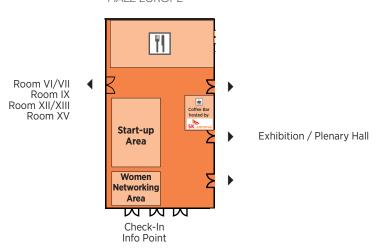
#### 4 December 2024

11:45 AM Introduction of Start-Ups @ CTI (Part II)

EMIL | HCPSense | hyperdrives | InnoShifting

Followed by a guided visit of the Start-Up Area

HALL EUROPE





# PLENARY PROGRAMME | 3 DECEMBER 2024

7:30	Check-In and Opening of the Exhibition	11:45	Panel Discussion: Does Regulation Kill Innovation?  Dr Peter Mock, Managing Director – ICCT Europe, International Council on Clean
8:30	Opening of the CTI SYMPOSIUM GERMANY 2024 by CTI and the Chairman		Transportation
			Dr Manfred Schuckert, Vice President - Head of Regulatory Strategy & Int. Hydro-
8:45	NIO's Power Strategy for Europe, Combining Mobility and Energy Transition		gen Strategy, Daimler Truck
	Hui Zhang, Vice President Europe, Managing Director, NIO		Hui Zhang Vice, President Europe, Managing Director, NIO
9:05	Building a Sustainable Mobility Future:	12:30	Introduction of Start-Ups @ CTI (Part I)
	Challenges from Energy and Resource Markets		- Additive Drives
	Prof. Dr Karen Pittel, Director of the ifo Center for Energy, Climate		- Brudeli
	and Resources, ifo Institute		- Deeper Pulse
			- dynamic E flow
9:25	Indian Automotive Market –	40 ==	
	Trends and Regulations Insights and Case Study from a Tier 1	12:35	Networking Lunch Break and Visit to the CTI SYMPOSIUM Exhibition
	Amit Gupta, Managing Director & CEO, Hero Motors		Don't miss the Special Programme Features during the Networking Lunch Break!
9:45	Joint discussion with the Plenary Speakers		12:35 Guided visit of the start-ups (Start-Up Area)
3.43	Joint discussion with the Fieldly Speakers		1:00 Women Networking Lunch (Room Europe)
10:10	Networking Coffee Break and visit to the CTI SYMPOSIUM Exhibition		1:30 Partner Presentations (details see next page)
	Company Presentations @ Expo Stage	2:00	Deep Dive Sessions (details see next page)
	10:30 Amsted		
	10:40 Warn Automotive	3:30	Networking Coffee Break and Visit to the CTI SYMPOSIUM Exhibition
11:00	Daimler Truck on the Way to CO2 Neutrality	4:15	Deep Dive Sessions
	Christian Krajewski, Director Development E-Axles, Axles and Transmission,		
	Daimler Trucks	5:30	Innovation as Driver of the Future (Plenary Hall)
			Dr Rudolf Bencker, SVP Inventions & Innovations Management, BMW Group
11:30	Electric Drives and the Transformation of the Automotive Industry:		
	Framework Conditions and Opportunities	6:00	Departure to CTI NETWORKING NIGHT @ Arminius Markthalle
	Oliver Luksic, Parliamentary State Secretary, Federal Ministry for Digital and Transport		Shuttle buses depart from the main entrance of the Estrel Hotel

## **DEEP DIVE SESSIONS | 3 DECEMBER 2024**

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	Session A Plenum Electric Powertrains	Session B Room XV Electric Motors	Session C Room IX Cooling Fluids and Lubrications	Session D Room VI/VII Fuel Cells	Session E Expo Stage Development Methods & Tools	Session F Room XII/XIII Energy & Mobility	Session G Silent Thermal Conference Management Stage
	Chair: Dr M. Winkler, Hyundai S. Rebhan, Schaeffler	Chair: U. Sommerhalter, Valeo Dr P. Nanua, GM	Chair: T. Murr, Shell G. Bednarek, Stellantis	Chair: Jimmy Larsson, Scania K. Denkmayr, AVL	Chair: Dr A. Sturm, TU Braunschweig J. Saberi, Magna	Chair: Dr S. Beiker, Silicon Valley Mobility Dr C. Bünder	Chair: T. Schmidt, Porsche Engineering Dr F. Völkel, Schaeffler
1:30	World's First EV Fluid Specification from TotalEnergies Liang Xue and Flavio Sarti, TotalEnergies	CTI PREMIERE! Dual Motor 600kW EDU Readied for Niche Volume Production Maarten Debrouwere, TREMEC	Novel EV Fluid Technology Platforms Jungsik Yun, SK Enmove Co.				
2:00	Meeting the Needs of Smaller Electric Vehicles: An Optimised Lightweight and Compact EDU Dr Simon Klacar, InfiMotion Technology Europe	Ultra-Efficient Dual-Rotor Radial- Flux Induction Motors: A Rare-Earth-Free Alternative for EV Drives Dr Alexander Rosen, DeepDrive	Dedicated Electric Driveline Fluid (EDF) Development for an e-Axle Platform Thomas Kraft, FUCHS Lubricants Germany and Dr Mirjam Bäse, Magna Powertrain	The Challenge of Hydrogen Quality for Automotive Fuel Cells Dr Graham Smith, National Physical Laboratory	A Methodology for In-Process Maturity Rating for Vehicle Powertrain Software Ole Behnke, Mercedes Benz	Pioneering Electric Vehicle Charging with the Mobile Battery Swapping Station Sven Steinwascher, GTSystem	Development of Integrated Thermal Management Analysis Technology for EV 3in1 Driveline Components Sang-Min Park, Hyundai-Transys
2:30	High Efficiency EDU - > 94% Average Cycle Efficiency and Cost-Effective Drivetrain Wilhelm Vallant, AVL	Exploiting the Advantages & Mitigating the Weaknesses of Axial Flux Machines Tim Woolmer, CTO, YASA	Dedicated eFluids for Energy Efficiency Andrew Wood, Infineum UK	Fuel Cell Aging: CAE based Layout for Optimal System Design in Heavy-Duty Trucks Dr Matthias Thewes, FEV Europe	Lumped Parameter Thermal Network Model of an Electric Machine Felipe Da Chunha Nunez, TotalEnergies One Tech	Possible Contributions of Vehicle-to-Grid to the Electricity Sector within German Energy Transition Prof. Dr Harald Schwarz, BTU Cottbus-Senftenberg	Framework for Optimisation of E-Drive Systems incl. Drive Thermal Management Fabian Notz, TU Braunschweig
3:00	Gen5 eDrive – Cost Efficient Platform eAxle Solutions for Medium to High Power Classes Karsten Kühlkamp, Valeo eAutomotive	Rare-Earth Free Traction Electric Machines with Interchangeable Rotors Rajesh Kallur-Krishnamoorthy, RWTH Aachen University in cooperation with FEV Europe GmbH	Novel Robust Power Dense Motor e-Fluid Cooling Concepts Dr Stephan Schlimpert, Flanders Make	LCA of a FCEV Truck and Optimisation of the Operating Strategy Prof. Dr Alexander Gelner, TH Ingolstadt	Fast FEA Based Models to Minimise Cost, Development Time, Maximise Efficiency and Sustainability Dr Joachim Druant, Dana	Vehicle Sourced Energy Flexibility for the Future Electricity Grid Simon Massat, TU Darmstadt	New Refrigerant Valve Block for Battery Electric Vehicles Frank Hohmann, IAV
3:30	Networking Coffee Break in the CTI SYMPOSIUM EXPO & Special Programm (see page 1)  Networking Coffee Break in the CTI SYMPOSIUM EXPO (Special Programm see page 1)						
				Commercial Vehicles		Markets, Policies and Supply Chains	Hybrid Powertrains
4:15	Innovative Multilevel Battery Systems: Advancing Energy Storage Technologies Dr Manuel Kuder, PULSETRAIN	Optimisation and Comparative Analysis of Electric Machine Topologies with Varying Magnetic Materials Dr Branko Ban, Alvier	More Sustainable Lubricants for Electrified Heavy Duty Drive Trains Leonard Kieckebusch, Shell Global Solutions	MAN hTGX – HD-Tractor Powered by H45-Hydrogen ICE Equipped with Voith Plug and Drive Hydrogen Storage System Dr Andreas Broda, MAN and Tobias Baumann, Voith	Minimising Scope 3 Emissions by Electric Powertrain Design Optimisation Dr Dominik Lechleitner, Graz University of Technology	Light Vehicle Powertrain Outlook to 2035 A. Saboor Imran, S&P Global	A New Scalable Trans- mission Family for ICE- Based, 48V, and HV Hybrid Applications Marc Gukelberger, Magna
4:45	Efficiency and Cost Innovation with xONEdrive Solutions Frederik Däumer, hofer powertain	Potential of High Performance Hollow Wire Rotor Cooling in Externally Excited Motors Maximilian Zinner, ARRK Engineering and Björn Scheiffele. dynamic E flow	Pushing the Boundaries of Electric Vehicle (EV) Lubrication – How Low Can You Go? Dr Amanda Eastwood, Lubrizol	Maximising Driveline Effi- ciency for Electric Trucks and Buses Gert-Jan Vogelaar, Mazaro	An Integrative Analysis of Powertrain Architectures with Focus on e-Corner Solutions Felix Wipfler, Schaeffler Technologies	How Different Resource Availabilities and Market Demands Influence Trends in e-Powertrains Lukas Giesemann, P3	DE4LoRa – Double-E-Drive for Long Range: Innovative Plug-in Hybrid Aaron Kappes, TU Darmstadt

5:15 Change to Plenum for Plenary Speech

Change to Plenum for Plenary Speech

Departure to CTI Networking Night @ Arminius Market Hall (Estrel Hotel Main Entrance)

Scheiffele, dynamic E flow



Prof. Dr Markus Lienkamp, Institute/Chair of Automotive Technology, TU Munich

# PLENARY PROGRAMME | 4 DECEMBER 2024

8:00	Check-In and Opening of the Exhibition	11:45	Introduction of Start-Ups @ CTI (Part II)
8:30	Opening of Day 2 by the Chairman		- HCP Sense - hyperdrives
8:45	How Digital Transformation will Support Breakthrough in Time-To-Market Acceleration and Cost Reduction		- InnoShifting
	Dr Sabine Calvo, VP Engineering Performance, Validations & Digital Transformation, Renault Group	11:50	Networking Lunch Break and Visit to the CTI SYMPOSIUM Exhibition Don't miss the Special Programme Features during the Networking Lunch Break
9:05	Software Defined Vehicle in the Al Era William Wei, Advisor to FPT Automotive, CMO & EVP of Skymizer		11:50 Guided visit of the start-ups (Start-Up Area) 12:15 Women Networking Lunch (Room Europe) 12:45 Partner Presentations (details see next page)
9:25	Status Quo of Battery Cell Production in Europe Nicolas Steinbacher, Program Lead, Northvolt Drei Project GmbH	1:15	Deep Dive Sessions (details see next page)
9:45	Joint Discussion with the Plenary Speakers	2:45	Coffee Break and Visit to the CTI SYMPOSIUM Exhibition
10:10	Networking Coffee Break and Visit to the CTI SYMPOSIUM Exhibition	3:30	Deep Dive Sessions
	Company Presentations @ Expo Stage  10:30 Jing-Jin Electric	4:30	Change to Plenum
	10:40 Sumitomo	4:45	Summary and Closing by the Chairman
11:00	Panel Discussion: Back from the Dead? ICE in Passenger Vehicles Dr Norbert Alt, COO & Executive Vice President, FEV Group GmbH Prof. Dr Maximilian Brauer, Head of the Vehicle Powertrain Department, TU Berlin Dr Tobias Block, Managing Director Strategy, eFuel Alliance	5:00	End of CTI SYMPOSIUM GERMANY 2024

## **DEEP DIVE SESSIONS |** 4 DECEMBER 2024

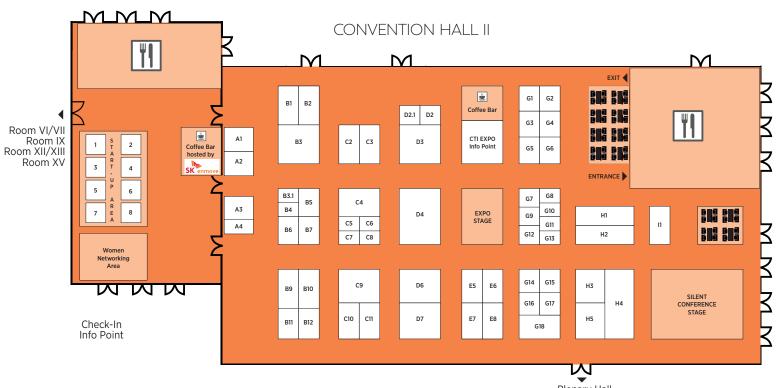
	DEED DIVE SESSIONS	4 DECEMBER 2024				Silent	
	Session H Plenum Electric Powertrains	Session I Room XV Power Electronics	Session J Room IX Batteries	Session K Room VI/VII Commercial Vehicle Powertrains	Session L Expo Stage Advanced Manufacturing & Powder Metallurgy	Session M Stage Artificial Intelligence in Powertrain Development	Session N Room XII/XIII Transmission Components
	Chair: R. Schuermans, Toyota T. Peichl, TU Darmstadt	Chair: K. Müller, IAV J. Lyjak, GM	Chair: Dr K. Bennewitz, VW T. Schmidt, Porsche Engineering	Chair: D. Adamczyk, ZF Dr U. Burr, Voith	Chair: J. Münzenberger, ALD	Chair: Dr A. Strum, TU Braunschweig Dr K. Denkmayr, AVL	Chair: J. Jennings, Amsted Prof. Dr P. Tenberge, RU Bochum
12:45		Sustainable and Efficient Methods for Recycling Vehicle Wire Harness Volker-Uwe Strueken, SEI Automotive Europe			Beyond Tailpipe Emissions: The Race to Net Zero Mark Rushton, aPriori		
1:15	Accessible People Mover (APM): Agile Development of 48V Powert- rain System Thomas Haine, Toyota Motor Europe; Frederik Baudrier, Forsee Power; Nabal Pandey, FEV Europe	Powering the Future: Balancing Performance, Profitability and Sustainability in EV Power Electronics Dr Naser Almohammed, FEV Europe / FEV Consulting	Enabling Rapid Charging within EV Battery Design Adam Dendrinos, AVL	Combined Cooling for Electric Machine, Gearbox and Power Take Off for Commercial Vehicles Rickard Holmgren, Scania CV	The Introduction of Soft Magnetic Composite (SMC) Metal Powder in Electric Motor Technologies Dr Nils Bornemann, Höganäs Germany	Deep Learning Virtual Sensors and Digital Twin for Next Generation Electric Drive Systems Skander Oueslati, BorgWarner	2-Speed ATC Clutch Wear Compensation Method Hanbyn Jeon, Hyundai-Wia Company
1:45	Comparison of Wheel Hub and Central Drives with Focus on Energy Consumption and Costs Patrick Starke, IAV	System Cost Optimisation with New Power Semiconductor Solutions Considering Long Distance Driving Mark Nils Muenzer, Infineon Technologies	Scaling Up Extreme Performance Batteries: Creating an Ecosystem to Meet Complex Requirements Uwe Klaus Hotz, Nyobolt	Benefits of Central Drive Gear Reduction for Commercial Electric Vehicle Application Grzegorz Konopka, Eaton Mobility Group	An Innovative Approach to Reduce Scrap in Hairpin Motor Production Using Digital Twin and SPC Dr Ingo Lindner, Hexagon Metrology	Machine Learning in Holistic Powertrain Concept Design of Heavy-Duty Electric Vehicles: A Case Study Anna Rozum, RWTH Aachen University	Enhanced Torque Vectoring Systems for Electrical Drive Unit Maxime Paul, Valeo
2:1!	Novel X-in-1 Electric Drive Unit Platform to Optimise Function Integration Dr Håkan Sandquist, InfiMotion Technology Europe	Increasing Power Capacity with Dual Output Inverters Dr Temoc Rodriguez, Ricardo	Battery Direct Oil Cooling - Advan- tages and Testing Methodologies Ilaria Travi, Petronas	Electrical Drive System – How Voith Supports the Mobility and Transport Transformation Manuel Calero, Voith	Unleashing Potential: TSRF Topology Improves Electric Motor Performance using SMC Materials Dr Alex Stepuk, EVR Motors	Al-Powered Innovation: Harnessing Data Analytics in Modern Powertrain Develop- ment Dr Nikolaus Keuth, AVL	Optimisation of EV Drivetrain Efficiency: Impact of Lubricant Selection Dr Amir Kadiric, Imperial College London
2:4	5 Networking Coffee Break and Visit to th	ne CTI SYMPOSIUM Exhibition & Special Pr	rogramm (see page 1)	Networking Coffee Break and Visi	it to the CTI SYMPOSIUM Exhibition	& Special Programm (see page 1)	
3:30	How to Design the Optimal Bearing Concept for Rotor and Input Shafts of an Electric Powertrain? Sebastian Schweins, SKF	Wide Bandgap Technology Drives Advanced HV Architectures for BEVs Dr Ayman Ayad, Schaeffler Technologies	Lab to Life: Applied Battery Modeling Dr Michael Baumann, TWAICE Technologies	Optimising Performance, Efficiency, Capacity, and Cost for Electric Light Commercial Vehicles Martin Burgbacher, AAM	Sustainable Mobility Powered by Advanced Casting Techno- logy Carolin Neumann, ACTech	EV Thermal Management With Model Predictive Control and Machine Learning Patrick Schutzeich, FEV Europe	Including Realistic Gear Material Fatigue Data in Design, Manufacturing and Maintenance Johannes Mann, Hexagon
4:00	Benefits of Axle Disconnects in AWD BEVs Considering Various E-Motor Architectures Prashant Ramakrishna Hegde, BorgWarner	An Advanced E/E Integration Solution for Electric Drive Systems Dr Gerald Sammer, AVL	Electrochemical Impedance Spectroscopy (EIS) Implemen- tation in Battery Management Systems (BMS) Davide Cavaliere, Marelli	Electrifying Last-Mile Logis- tics: Introducing the eD1 MINI with Chassis-by-Wire Innova- tion Joachim Trumpff, GETEC Getriebe Technik	Enhancing NVH Performance in EV Gearing Systems through Powder Metallurgy and Polymer Dr Philipp Kauffmann, Johnson Electric	Towards an Al-based Multi- Modal Approach in Technical Drawing Analysis Yunying Zeng, Karlsruhe Institute of Technology (KIT)	The Schaeffler e-Bearing Family - Solutions for Future BEV Applications Dr Benedikt Neubauer, Schaeffler Technologies
4:30	Change to Plenum			Change to Plenum			

5:00 End of CTI SYMPOSIUM GERMANY 2024

4:45 Summary and Closing

**Summary and Closing** 

## **EXHIBITION AND FLOORPLAN**



Plenary Hall

AAM	А3
ACTech	B1
Additive Drives GmbH	2
Afton Chemical	G5
Amsted Automotive	C4
ARRK Engineering GmbH	D2
ATESTEO GmbH & Co. KG	H5
AVL	В3
BorgWarner Inc.	С9
Brand KG (brandgroup)	C11
Brudeli Green Mobility AS	3
Castrol Germany GmbH	C10
Christian Bauer GmbH + Co. KG	G8
CTI Infopoint - Helpdesk - Reservation	C1
Curtiss-Wright, Metal Improvement Company, LLC	D2.1
DANA Incorporated	D4

HALL EUROPE

Dassault Systemes Deutschland GmbH G13  Deeper Pulse 7  DuPont Specialty Products Operations Sàrl C3  DVS TECHNOLOGY GROUP C5  dynamic E flow GmbH 4  Dynax Corporation B2  ElringKlinger AG B9  ELTRO GmbH B3.1  Emil Motors GmbH 8  EMOTORS G7  Ernst Grob AG B6  EVR Motors G14  Feintool International Holding AG G18  FEV E5  FUCHS LUBRICANTS GERMANY GMBH D7  Gehring Technologies GmbH + Co. KG - Nagel B4		
DuPont Specialty Products Operations Sàrl  DVS TECHNOLOGY GROUP  dynamic E flow GmbH  Dynax Corporation  ElringKlinger AG  ELTRO GmbH  Emil Motors GmbH  EMOTORS  G7  Ernst Grob AG  EVR Motors  Feintool International Holding AG  FEV  FUCHS LUBRICANTS GERMANY GMBH  C5  C5  Management Sàrl  B2  B2  B3  B4  B5  B6  B7  G7  G7  G7  G18  FEV  E5  FUCHS LUBRICANTS GERMANY GMBH  D7	Dassault Systemes Deutschland GmbH	G13
DVS TECHNOLOGY GROUP  dynamic E flow GmbH  Dynax Corporation  B2  ElringKlinger AG  ELTRO GmbH  B3.1  Emil Motors GmbH  EMOTORS  G7  Ernst Grob AG  EVR Motors  G14  Feintool International Holding AG  FEV  FUCHS LUBRICANTS GERMANY GMBH  C 4  4  B 9  B 9  B 9  B 9  B 9  B 9  B 9	Deeper Pulse	7
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Ernst Grob AG B6 EVR Motors G14 Feintool International Holding AG G18 FEV E5 FUCHS LUBRICANTS GERMANY GMBH D7	Emil Motors GmbH	8
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FEV E5 FUCHS LUBRICANTS GERMANY GMBH D7	EVR Motors	G14
FUCHS LUBRICANTS GERMANY GMBH D7	Feintool International Holding AG	G18
	FEV	E5
Gehring Technologies GmbH + Co. KG - Nagel B4	FUCHS LUBRICANTS GERMANY GMBH	D7
	Gehring Technologies GmbH + Co. KG - Nagel	B4

GFU Maschinenbau GmbH	G1
GKN Powder Metallurgy	C2
HCP Sense GmbH	6
Hexagon	G3
HOERBIGER Antriebstechnik Holding GmbH	G16
Höganäs Germany GmbH	A2
HYCET Transmission Technology Hebei Co.,Ltd	B10
Hyperdrives GmbH	5
InfiMotion Technology AB	D3
Infineum UK Ltd.	E6
InnoShiftIng GmbH	1
Jing-Jin Electric	B5
JSJ Tiny Life Gmbh	11
JTEKT Corporation	C8
KENOTOM PC	B12
KISSsoft AG	G15
Magna	D6
Miba Group	E7
Nidec GPM GmbH	G9
PARTICLEWORKS EUROPE SRL	G17
PETRONAS Lubricants International	Н3
PMC Technologies Inc.	G10
Scherdel GmbH	A4
Schunk Carbon Technology GmbH	G6
Shell Deutschland GmbH	A1
SMT	C6
Stelter Zauhnradfabrik GmbH	C7
Sumitomo Electric - SEI Automotive Europe Ltd.	E8
teamtechnik Maschinen und Anlagen GmbH	G4
TotalEnergies Lubrifiants	Н4
TREMEC	H2
Valeo	H1
Victrex	G12
Walter Henrich GmbH - Wieland	B11
Warn Automotive	G11
WUXI SHINDEN MODERN INTELLIGENT TECHNOLOGY CO.,LTD	В7
ZeBeyond Ltd	G2