



Sustainability the key driver

Topics around tire wear, emissions, recycling will be to the fore at this year's event in Hanover

Sustainability is a highly dominant theme of Tire Technology Expo 2025, as evidenced by the technologies being presented by exhibitors and the conference line-up at the event being held 4-6 March in Hanover, Germany.

Headlining the conference opening session will be a Continental Tires paper titled 'Sustainable tire footprint – strategies and how to realize them' by Jorge Almeida, head of sustainability, and Burkhard Wies, head of innovation & applied research.

As well as highlighting the German-based tire maker's latest technical advances, the presenters will explore the company's sustainability strategy, with a special focus on the environmental footprint of

tires during their use phase.

Topics covered will include Continental's approach to improving service-life, wear-rate and rolling-resistance, towards lowering costs, conserving resources and reducing emissions.

Among a number of Michelin presenters at the Hanover conference, Claire Fioretti, director, standards and regulations for connected mobility, will provide a timely update on the 'tire 'digital product passport' (DPP).

A particular focus will be on the Cirpass-2 pilot, where Michelin leads a team of seven stakeholders in three countries to apply the tire DPP in leveraging the power of digitalisation to improve the circular economy.

The EU tire DPP is intended to

provide ready access to tire information to better retread and recycle tires, and support new valorisation channels to recover material from end-of-life tires.

Setting the regulatory scene, Dr Adam McCarthy, secretary general of the European Tyre and Rubber Manufacturers' Association (ETRMA), will analyse the evolution of EU tire regulations during the last European Commission mandate and outline expected regulatory changes in the upcoming years.

Chain-of-custody challenges for renewable and recycled materials is the theme of a Michelin paper to be presented by Brigitte Chauvin, R&D manager and Christophe Durand, VP sustainable material solutions and partnerships.

They will discuss how 'mass balance' certification by private companies is being used to support claims relating to recycled or renewable content in products – allowing a disconnection with the true product composition.

The Michelin presenters will examine ways to prevent confusion and greenwashing arising from such claims: asking how direct and relevant should the link between the real recycled or renewable content of a product and the claim made for it be?

In his presentation, Martin von Wolfersdorff, principal advisor,



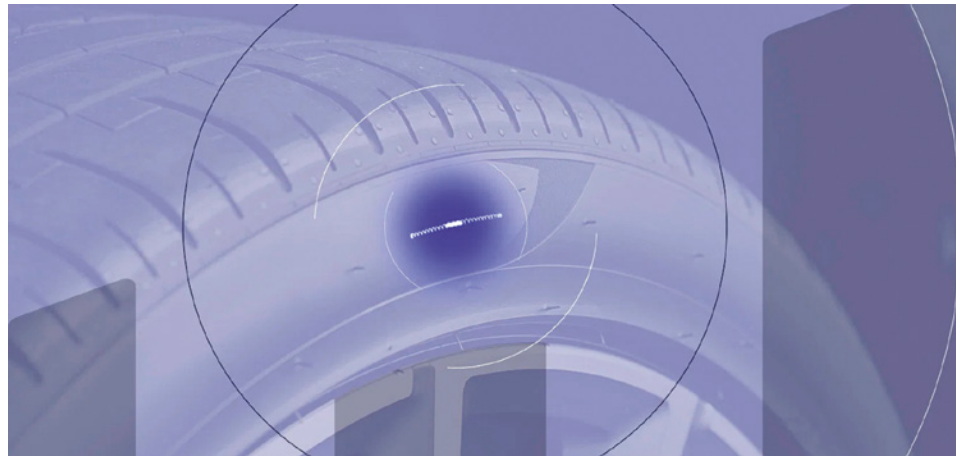
Wolfersdorff Consulting Berlin will take conference delegates 'Around the world with tire circularity'.

With several Western tire pyrolysis facilities now being established, von Wolfersdorff will explore the success factors and challenges involved in scaling up the production of recovered carbon black and tire pyrolysis oil?

He will also examine: the different business paradigms in Eastern and Western countries; the role of the tire industry; and the outlook for the pyrolysis industry over the coming years.

Where have all the tires gone? will ask Stephan Rau, technical director of the German rubber manufacturers association the WDK at the Tire Tech Expo conference. In his paper, Rau will discuss how and why waste tire disposal companies and recyclers have been recording dwindling volumes on the German market for some time.

'There can be no circular economy in tires without RFID' will be the clear message from Christophe Duc, RFID senior group product manager at Michelin,



who will present developments in hardware/software for tire collection and related advances in machine-digitisation.

Elsewhere, it will be interesting to get an update on the Continental-Kordsa Cokoon project, launched several years ago as an open-source, resorcinol-formaldehyde-free bonding system for tire reinforcements.

In Hanover, Dr Cornelia Schmaunz-Hirsch, senior reinforcement developer, Continental Tires and Dr Mustafa Yasin Sen,

expert researcher, Kordsa Teknik Tekstil will explain how the partners are addressing the significant challenges around transition to this new adhesive technology.

Melanie Wiedemeier-Jarad, manager regulatory affairs & sustainability, Lanxess Deutschland will discuss how the implementation of REACH and other regional chemical legislation is posing significant challenges for global raw material suppliers.

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She will report on new approaches being adopted in response to the introduction of the new EU chemical classifications and increasing requirements for sustainable, environmental and health-related properties.

Market analysis

The Tire Technology Expo conference will feature a number of talks on commercial trends, including a presentation by Robert Simmons, managing director tires, GlobalData.

In a paper titled 'What's happening in global tire-industry markets', Simmons will examine how pressure on consumer incomes is driving an increase in sales of budget replacement tires at the expense of higher-cost tires.

The Global Data MD will show how this has led to an increase in imports of low-cost tires – mainly from China and ASEAN countries – and placed pressure on tire production in high-cost markets.

The UK market expert will ex-



amine these trends, analysing current markets for both OE and replacement tires and the outlook for the future.

Notch Consulting president Paul Ita will, meanwhile, present his company's latest outlook for global reinforcing-filler markets. Topics will include current demand and future prospects for carbon blacks and silicas and new

investment in related production capacity.

'Shaping the tire digital soul' is the intriguing title of a paper by Corrado Rocca, R&D head, cyber unit at Pirelli, who will explore how tire sensors data can open up new technological and business opportunities in different mobility segments. The presentation will highlight opportunities &



Spotlight on tire wear

Issues around the emission of tire wear particles and their impact on the environment will take centre stage at the Hanover conference, with a series of presentations combined with a related, high-level panel discussion on these topics.

The forum will include papers from:

Paolo Mazzatorta, senior manager research at the World Business Council for Sustainable Development: The Tire Industry Project: driving sustainability in the tire value chain

Dr Juan García, project manager, Idiada: Understanding and mitigating the effects of tire particle emissions

Dalia Broggi, project manager – scientific research, European Commission: Assessing tire abrasion: reg-

ulatory requirements and key findings from experimental tests

Frederic Biesse, senior fellow for tire physics and modelization, Michelin: Refined characterisation of tire road wear particle emissions

Dr Shinya Nakano, manager Sumitomo Rubber Industries: Characterisation of tire road wear particles generated on asphalt pavement

Dr Yasuhiro Shoda, Material expert, Bridgestone Europe: Bridgestone's efforts for TRWP

Dr Diego Sabato, head of testing engineering, Pirelli Tyre: Tire wear and TRWP experimental techniques

Dr Marzieh Salehi, R&D manager, VMI Group: Innovative rapid dynamic abrasion test method for tire tread compounds



TRWP panel discussion – Euro 7 – Implications and challenges for the tire industry

Participants

Prof Günter Leister, CEO, twms-consulting, Germany
Sebastian Gramstat, senior expert, Audi, Germany
Frederic Biesse, senior fellow for tire physics and modelization, Michelin, France

Prof Thomas Bachmann, director of automotive engineering group, Technische Universität Ilmenau, Germany

Malte Wohlfahrt, global R&D director, Synthos, Germany

Dr Ulf Sandberg, senior research leader, Swedish National Road and Transport Research Institute, Sweden.

challenges as well as the benefits in terms of safety, user-experience, maintenance and sustainability on offer.

Manufacturing

In a session dedicated to developments in advanced manufacturing on day 1, Mike Norman, chief commercial officer, VMI Group will present a paper titled 'Intelligent modularity at a time of transition'.

Norman will explore how VMI's systematic approach to machine intelligence and modularity combine to offer tire companies advanced strategies for facing the challenges of transition to a new business model.

He will show how machine intelligence is driving greater responsiveness and agility in tire building, while the reinvention of single-cell manufacturing, is opening new possibilities for the modular extension of existing systems.

The VMI presenter will explain how this can give manufacturers better possibilities for managing new materials, shorter product

Material matters

The Tire Technology Expo conference will again put the spotlight on a wide range of new developments in the field of elastomer materials and related technologies. Among the presentations featuring leading-edge tire materials technologies will be:

Colin Clarke, director, technical sales rubber chemicals and release agents, Schill + Seilacher Struktol: 'Managing polymer filler interactions for better tire processing and properties.' Topics will include a new additive chemistry that can control polymer-filler interactions for more efficient mixing and enhanced processing.

Carlo Silvestri, senior technical advisor, Nynas

AB: 'Higher sustainability in tire: adapting recipes to new raw materials' – using tire oils with a significantly reduced carbon footprint and another based on a biogenic oil.

Mengchen Ba, R&D department manager, Ecombine Advanced Material: 'Comparison of different liquid-phase mixing approaches'. Includes a comparative analysis of the performance of traditional dry mixing, single-step liquid phase mixing, and multi-step liquid phase mixing.

Dr Eshwaran Subramani, senior technical service engineer, Asahi Kasei Europe: 'Functionalised Li-BR in modern tire recipes: A game-changer for low rolling resistance tires' –

when paired with (functionalised) SSBR.

Dr Harutaka Nakamori, assistant manager, ENEOS Materials: 'Advanced technology in ENEOS-SBR: driving tire performance and ecological impact': how chemical modifications to the backbone of SBR can impact physical properties and composition.

David Hardy, technical service and development manager, Arlanxeo Netherlands: 'Multi-functionalized, highly coupled SSBRs allowing for improved sustainability in tires.' Features new functionalisation technology to enhance filler-interaction and coupling for good processability at high molecular weight.

runs, cutting emissions and scrap, while preparing for a very different future production approach.

'E-curing: a game-changing innovation with huge CO₂-saving impact' is the topic of a paper being presented by Warren Rudman, executive vice president, Curing Presses, Harburg-Freudenberger Maschinenbau.

The benefits of electric curing will be highlighted in terms of energy savings, CO₂ emission reduction, and the opportunities the new technology offers for the tire design and material usage.

Rudman will also detail HF's latest advances in the field of tire curing and update delegates on

progress with testing & simulation and trials to provide tailored solutions that meet specific customer requirements.

Marco Putignano, process officer/R&D, Comerio Ercole will present an innovation in textile and steel cord calendaring: reducing the distance between rolls and winder to limit exposure-to-air and so minimise waste during production changes. The technology employs a new patented cross-cutting unit linked to automated wind-up and handling equipment.

Elsewhere, Peter Mair, principal

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consultant, Rockwell Automation Digital Services, will set out how the 'digital thread' is the foundation of a connected enterprise that unites and integrates IT and operational technology (OT) over the complete tire lifecycle (including the future digital tire passport).

Using an integrated open IT/OT enterprise architecture example, Mair will show how tire makers can effectively manage sustainability, compliance, product design and manufacturing complexity in a continuously evolving market environment.

In his paper on 'Artificial intelligence in tire manufacturing' Bill Henderson, head, USA tire industry at Siemens Industry will explain how AI will transform tire production by capturing and leveraging tribal knowledge from experienced operators.

Henderson will also detail how AI-driven systems are enabling smarter machines to automatically analyse and control production adjustments and their impacts on product quality.

Another focus will be on how AI can aggregate data for production improvements and present ready-to-implement solutions for innovation in tire manufacturing.

SPONSORED PANEL



COMERIO ERCOLE during the Tire Technology show will present a revolutionary Cutting Innovation named SUPERCUT a groundbreaking technology designed to revolutionize cutting precision and efficiency for textile and steel cords. Celebrating 140 years of innovation (1885–2025), SUPERCUT sets a new benchmark in high-performance machinery for the tire industry.

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Stand by for innovation

ACE Laboratories, the US-based global rubber and polymer testing and development laboratory, will present its dynamic testing capabilities, including its new Ueshima FPS Wear Testing System.

Arduro will showcase a "unique" approach to waste rubber recycling and material recovery. Citing the principle that chemistry makes rubber the versatile and resilient material that it is, the firm will explain chemistry is the key to unlocking the value of rubber waste.

ARP Technologies will present an innovative approach to electromagnetic heating, said to transform electric curing technology.

Calemard Spooler will

showcase fully automated cells based around its slitter-rewinders and spooling lines, featuring systems and robotics designed to reduce downtime and accelerate production cycles.

Ecombine's continuous liquid phase mixing process mixes the tire-applicable rubber solution and filler slurry in the liquid phase. It will show how this technology improves the dispersion of fillers, enhances the filler-polymer interaction, and results in better overall product performance.

Endurica, a US-based specialist in simulation software and services for elastomer durability analysis will highlight the capabilities of its new sister company in Luxembourg in driv-

ing growth and innovation in Europe.

GL Inspect will present a 360° optical solution for measuring extruder barrels: a circular laser sensor for measuring the inner diameter of bores.

KraussMaffei will highlight its latest solutions to extrusion problems in tire-component manufacturing – enabling tire makers to "find the highest possible 'first-time-right' production rates.

Lawer will showcase its latest automatic weighing system, said to ensure high productivity, constant quality, and complete process traceability while eliminating human-error.

Skyhem, a pioneer in bio-based solutions for the rub-

ber industry, is set to launch a 100% plant-based process oil designed specifically for tire manufacturing.

UP-Labels' will advance TU markings and micro-decals claimed to combine "unparalleled customisation, durability, and sustainability and provide revolutionary solutions for tire identification."

UTH will highlight the ability of its advanced TRP (two-roll plasticiser) technology to deliver consistent material homogeneity and reduced viscosity. Combining cracking, homogenising, and discharging in three zones along a continuous roll, the innovative design "enables efficient, automated processing with minimal maintenance."



75
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Meet *ERJ* at Hanover show

European Rubber Journal will be exhibiting at Tire Technology Expo 2025. Members of our editorial, commercial and support teams will be there to welcome visitors at our show booth 7030 at the Hanover show. Learn more about *ERJ* print and online information services for the global rubber & tire industry, including our programme of features, special reports, data-products and event activities planned for the year ahead.



Having reported on the global rubber & tire sector for over 130 years, *ERJ*'s website, magazine, newsletters and digital supplements are highly regarded as authoritative and trusted sources of up-to-date information for these industries.

Based around *ERJ* magazine, published six times a year, our news, features and opinion coverage addresses all significant commercial and technical trends in natural and synthetic rubber – taking in the whole supply-chain from rubber growing, formulation, design and manufacture to end-use application and recycling.

If you have yet to do so, take the opportunity at Tire Technology Expo 2025, to sign up our website and *ERJ* Daily Newsletter, delivering news and insights around the latest developments as they happen.

Learning at Tire Tech

During the Hanover show, Tire Tech Expo delegates have the opportunity to sign up for an educational course, titled 'Tire Modelling and its Application in Tire and Vehicle Development.'

Led by Mohammad Behroozi of General Motors, the course covers the computer modelling of tires within a full vehicle system and is aimed at engineers and researchers working in both industry and academia.

According to the organisers, the subject matter will be of primary interest to vehicle dynamics engineers, for whom the tire is the primary force and moment generation element on the vehicle.

Also targeted are engineering managers who wish to understand existing tire modelling activity and its challenges, or to implement new tire simulation processes in the workplace.

Among the other presenters are: Flavio Farroni, and Andrea Sammartino, MegaRide; Axel Gallrein, Fraunhofer ITWM; Mathieu Grob and Julien Levray, JEDAi; Carlo Lugaro and Willem Verstedden, Siemens; George Mavros, Loughborough University; Henning Olsson, Calspan Corp.; Jan Prins, Land Rover; Joachim Stallmann, cosin scientific software.

Also in Hanover, the 'Tire Mechanics' short course will be held

concurrently with Tire Technology Expo 2025, on March 3-6, 2025. This four-day educational and developmental course will provide engineers and scientists with an in-depth, intense study of the latest developments surrounding tire engineering.

The course is designed for practicing engineers, chemists and scientists who are concerned with tires and vehicles and who have an engineering or science background at BSc level. Basic and practical aspects of the mechanics of pneumatic tires will be introduced by internationally recognised experts in tire mechanics.

Separately, 'Tire reinforcement materials, applications and fatigue testing' is the title of a one-day course tailored to provide an understanding of the use of materials and constructions for rubber reinforcement in the tire.

This course is intended particularly for tire reinforcement engineers from the design and material laboratory departments of tire manufacturers and their reinforcement suppliers.

Presentations by specialists from reinforcement manufacturers of steel cord, polyamide, polyester, rayon and aramid reinforcement will cover topics including static and fatigue test methods to validate the tire reinforcement in material laboratories for relevant application in the tire.



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ERJ Guide to exhibitors at Tire Technology Expo 2025, 4-6 March, Hanover, Germany

EXHIBITORS

COMPANY / COUNTRY	STAND	COMPANY / COUNTRY	STAND	COMPANY / COUNTRY	STAND
4Jet Technologies / Germany	5022	Electronic Systems / Italy	8008	Kobelco Stewart Bolling / USA	7062
Aarti Steels Ltd / India	C440	Elsewedy Steel / Egypt	C122	Koenig & Bauer Coding / Germany	1040
AB Svenskt Konstsilke / Sweden	C517	Emissions Analytics / UK	C616	KokUSAi Europe / Germany	4028
Ace Laboratories / USA	C312	Endurica Llc / USA	C218	Konimpex / Poland	5006
Albeniz- Reynders / Spain	5000	Eneos Materials Europe / Germany	C214	Konštrukta – Tiretech / Poland	8062
Allnex Belgium / Belgium	C523	Entex Rust & Mitschke / Germany	5038	Kordsa / Turkey	C522
Altracon / Luxembourg	5012	Ergon International / Belgium	C420	Kraton Chemical / Netherlands	C230
Ammeraal Beltech & Megadyne / Netherlands	9019	Erhardt+Leimer / Germany	2018	Kraussmaffe Extrusion / Germany	9016
AP2 - Automazione Processi Produttivi / Italy	9015	European Rubber Journal / UK	7030	Kuraray Europe / Germany	C438
Applus Idiada / Spain	C642	Evonik Industries / Germany	3001	Labv Intelligent Solutions / Germany	C404
Arduro / Canada	C607	Facts Inc. / USA	9020	Lanxess Deutschland / Germany	3022
Arlanxeo / Germany	4030	Fraunhofer Institut (Iis) / Germany	5009	Lawer / Italy	9008
ARP Technologies (Suzhou) / China	8058	Fraunhofer Itwm / Germany	5009	Lehigh Spain Slu / Spain	C646
Asahi Kasei Europe / Germany	C416	G3 Srl / Italy	8066	LG Chem/ Germany	C516
Ateq TPMS Tools / France	1014	Gacz, Gottschol Alcuilux Cz / Czech Republic	3003	Lifting Solutions / Poland	9063
Avery Dennison / Netherlands	5025	Gama Consulting / Serbia	9066	Link-Asia Smart Technology (Suzhou) / China	8018
Barbe Gmbh / Germany	C530	Gcaps-Ntrc/Sovamotion/Vdil / USA	4031	Ly-Holding / Germany	4010
Bartell Machinery Systems / UK	8014	General Equipment Technology Development / China	7028	M.I.G. S.R.L - Mae Industria Gomma / Italy	1010
Bastian Solutions / USA	8061	Gibitre Instruments / Italy	3040	Madura Industrial Textiles / India	C308
Beckhoff Automation / Germany	9061	Girun (Cz), S.R.O. / Czech Republic	7039	Matteuzzi Srl / Italy	8050
Bekaert / Belgium	4000	Gislotica Lda / Portugal	5012	Megaride / Italy	C604
Beijing Tebeifu Electronic Technology / China	9001	GI Inspect / Germany	6030	Mesnac / China	8030
Beontag / Brazil	6060	Glebus Alloys Europe / Czech Republic	4011	Metravib Material Testing / France	C124
Biolan / Poland	C519	Glospsect Machinery / China	2029	Michelin Resicare / France	C504
Birla Carbon Europe / Germany	C614	Greentech Laser Manufacturing / Italy	3005	Micro-Epsilon Messtechnik / Germany	1000
Black Donuts Engineering / Finland	8038	H&R Group / Germany	C437	Micro-Poise Measurement Systems / Germany	3015
Bogimac / Belgium	C634	H&R Group / Germany	C437	Milliken Textiles / Belgium	C222
Bosch Rexroth / Germany	7037	Haiyang Technology / China	C324	MLA Industries / India	C400
Brimstone Kimya Sanayi Ticaret / Turkey	C134	Hana RFID / USA	4036	Momentive / USA	C238
Cabot Corp. USA	C310	Harburg Freudenberg Maschinenbau Gmbh (HF Group) / Germany	8000	Mondon / France	9037
Carter Bros International / UK	9002	Hefei Wide Way Mould / China	2026	Movexx International / Netherlands	8068
Cassioli Srl / Italy	9039	Henan Yongxin Chemical / China	C524	MTS Systems / USA	5030
Chem-Trend (Deutschland) / Germany	4002	Henghe Materials & Science Technology / China	C503	Muench Chemie International / Germany	3006
Cima Impianti / Italy	5028	Herbert Tire Tooling / Germany	8048	Murata Electronics Europe / Netherlands	3032
Cimcorp / Finland	9049	Himile Mechanical Science & Technology (Shandong) / China	7042	Nakata Engineering / Japan	1006
Color Service / Italy	8034	Hofmann Maschinen-Und Anlagenbau / Germany	2010	Nanjing Green Gold Giant Rubber & Plastic High-Tech / China	C542
Comerio Ercole / Italy	8006	HOS-Technik / Austria	C520	Netzsch-Gerätebau / Germany	C620
Contec / Poland	3002	Hyosung Advanced Materials / Korea	C430	Netzsch-Gerätebau / Germany	C620
Continental Reifen - BF Bladders / Germany	4008	Hyundai Movex / Korea	8037	Ningbo Actmix Rubber Chemicals Co. / China	C509
Cordenka / Germany	C212	Icaplants / Italy	3020	Norka Instruments Shanghai / China	6080
Cray Valley / France	C329	Inmess Gmbh / Germany	4020	NSD Corp. / Japan	9020
Dalian Baofeng Machinery Manufacturing / China	7046	Intralox Llc Europe / Netherlands	8010	NTE Process / Italy	9048
Datria S.R.O. / Czech Republic	3036	Italmatic / Italy	9014	Nynas AB / Sweden	C220
Dekati Ltd / Finland	C500	Jax Group Companies / USA	7034	Otego Technical Textile Solutions / France	8002
Desmasa / Spain	5018	Jiangsu Cheeshine Performance Materials / China	C406	Pagani Works / Switzerland	5002
DRT / France	C200	Jiangsu Rebo New Material Technology / China	C326	Pelmar Engineering Germany / Germany	8022
DSW / France	5024	Jiangsu Xingda Steel Tyre Cord / China	8039	Pesmel / Finland	9034
Dufournier / France	4042	Jiangyin Sanliang Rubber & Plastic New Material / China	C640	PPG Industries Chemicals Bv Silica Products / Netherlands	C515
Dynamic Design / Korea	2006	Junma Tyre Cord / China	C341	PRL Polymer Research Lab / Czech Republic	C407
Ecombine Advanced Materials / China	C330	Kado Intelligent Technology (Shanghai) / China	9043	Prodicon International / Italy	9010
Ecopower (Yongxiu) New Material / China	C509	Karl Eugen Fischer / Germany	8062	Qingdao Alwin Machinery / China	9050
EDAG Engineering Gmbh / Germany	5036				
Ege Kimya Sanayi Ve Ticaret / Turkey	C130				
Eines Vision Systems / Spain	5004				

EXHIBITORS

COMPANY / COUNTRY	STAND	COMPANY / COUNTRY	STAND	COMPANY / COUNTRY	STAND
Qingdao Crown Chemical / China	C216	SEEB Automation / France	9037	UMD Automated Systems / USA	9051
Qingdao Elite Machinery Manufacture - Esg / China	4012	Seichter Gmbh / Germany	4034	Umicore Specialty Materials Brugge Nv / Belgium	C608
Qingdao Huashine Intelligent Technology / China	9045	Seika Machinery / USA	C408	UP-Labels Gmbh / Austria	2025
Qingdao Jzyuan Technology Development / China	7039	Sennics Europe / Netherlands	C528	Uteco Contec / Italy	9046
Qingdao Kangwei Fibre / China	C633	Shougang Century Holdings / China	4037	Uth Gmbh / Germany	2012
Qingdao Xiangjie Rubber Machinery / China	4040	Si Group Germany (Deab) / Germany	C210	Uzer Makina / Turkey	9036
Quechen Silicon Chemical / China	C512	Sick Vertriebs-Gmbh / Germany	3031	Vipo AS / Slovakia	7064
Rain Carbon Germany / Germany	5016	Siemens Ag / Germany	9022	VMI Group / Netherlands	8054
REA Elektronik / Germany	2038	Skilled Group - Euroimpianti / Italy	2036	Weber & Schaer / Germany	C510
Riedel Filtertechnik / Germany	8072	Skyhem Chemicals / Turkey	C638	Wipotec Gmbh / Germany	4026
RJS Corp. / USA	8001	SMC Deutschland / Germany	9000	Wuhan Huagong Int. Development / China	9006
Rockwell Automation / USA	9044	Solvay / France	C342	Wyko / UK	1004
Rodolfo Comerio / Italy	7040	Spoolex / France	7048	Xiaou Technology Co. Ltd / China	C544
Roland Electronic / Germany	5007	Starrett Bytewise / USA	3008	Xsensor Technology Corp. / Canada	5010
Romill, Spol. / Czech Republic	7032	Steelastic / USA	8014	Yiyang Rubber And Plastics Machinery Group / China	9064
Rubber Conversion / Italy	8006	Synthomer Middelburg / Netherlands	C307	Zenith Steel Group (Huai'an) New Material / China	C531
Safe-Run Intelligent Equipment / China	7036	Synthos Schkopau / Poland	C316	Zeon Europe Gmbh / Germany	C234
SAR Elektronik / Germany	9047	Teijin Aramid / Germany	C426	ZF Friedrichshafen Ag / Germany	2000
Saspol - Sasmac Int	8006	Tekna Automazione E Controllo / Italy	2027	Zhejiang Cullinan Exhibition Co. Ltd / China	C652
SBT Ultrasonic Technology / China	9041	Test Industry / Italy	1016	Zim Innovation Network Rubber Powder / Germany	C402
Schill+Seilacher "Struktol" Gmbh / Germany	C320	The Poling Group / USA	3010		
SDS Systemtechnik / Germany	3040	Tianjin Reager Technology / China	7038		
Sedlecký Kaolin / Czech Republic	C636	Tianjin Saixiang Technology / China	9042		
		Tinna Rubber And Infrastructure, India	5008		
		TKM Gmbh / Germany	2037		
		TMSI / USA	2024		
		Transsystem Spolka Akcyjna / Poland	9024		
		Troester Gmbh & Co. Kg / Germany	4014		
		TS Testing Systems / Germany	4032		
		Tyre Trends / India	9009		

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GCU (Gas Circulating Unit)
Temperature-equalizing device in the bladder during curing




2012
REC
Water hydraulic driven compact center mechanism with LVDT for tire curing press



2014
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Off-line shaping and pre-heating system for tire curing press



2023
SWC
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2019
New RPU

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Company name changed to ROCKY-ICHIMARU Co., Ltd.

ROCKY-ICHIMARU
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