



Al & Mg
CASTING A LIGHTER FUTURE



DIE CASTING
CONGRESS
中国压铸会议

The 21st China Die Casting Congress

March 25-27, 2026, Wuhan, China

Post Congress Report



- Onsite Photos -



www.diecastexpo.cn/en/congress



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 **763**

delegates participated
in the congress

 **57**

speakers and experts were
invited to share their research
results and latest technologies
on hot topics

 **42**

enterprises displayed their
specific high-quality products
and new achievements

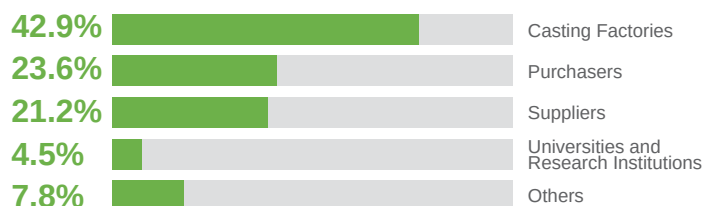
 International
presentations
account for approximately**25 %**

01 Facts & Figures

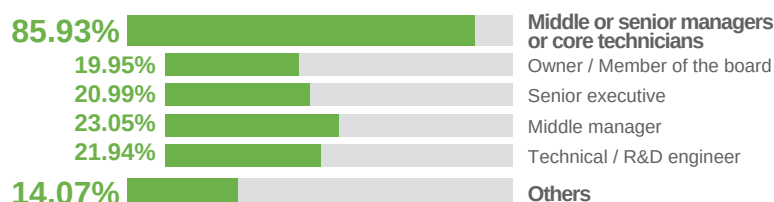


Delegates Analysis

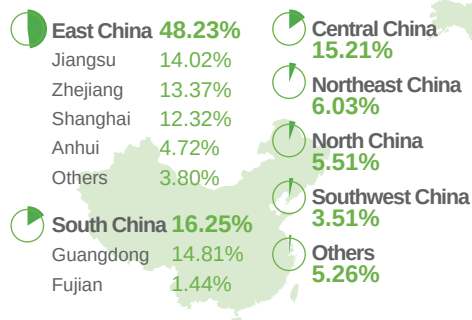
Participant Enterprises Category



Job Functions of Delegates



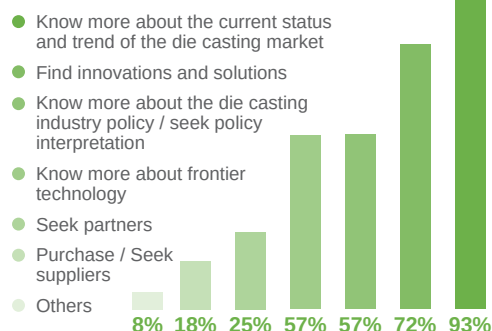
Distribution of Delegates



International Participation



Purpose of Delegates (Multiple choice)



Delegate Satisfaction



Overview of Participants



* More delegates were invited

Opening Ceremony

At the opening ceremony of China Die Casting Congress on March 26, Mr. Lou Yanchun, President of Foundry Institute of Chinese Mechanical Engineering Society (FICMES), Chief Scientist of China Academy of Machinery Science and Technology, Director of National Key Laboratory of Advanced Casting Technologies, President of ISO Technical Committee on Foundry Machinery (ISO/TC 306) delivered welcome speeches. Mr. Liu Hongchao, Secretary-General of FICMES, hosted the opening ceremony.



Mr. Lou Yanchun



Mr. Liu Hongchao

02 Annual Recognition and Awards

"Outstanding Contribution Award for National Die Casting Education and Training 2026", "Awarding Ceremony for Excellent Partners of DIE CASTING CONGRESS 2026" were held onsite.

Outstanding Contributor to National Die Casting Education and Training 2026

Lu Hongyuan	Han Qingyou	Chang Yiqian	Dong Xianming	Zhao Lijun
Liu Zunjian	Liu Zhentan	Lu Xin	Lu Min	Zhang Xiaoyan
Wei Baohua	Xie Hongquan	Yu Deshui	Gong Jie	Li Guanghao
Zou Zhihou	Zhong Gu	Liu Qiming		



Outstanding Contribution Award for National Die Casting Education and Training 2026

Supporters of DIE CASTING CONGRESS 2026

Dongfeng Electronic Technology Co., Ltd. Wuhan Branch
Voyah Automotive Technology Co., Ltd.
Guangdong Hongtu Wuhan Die-Casting Co., Ltd.
State Key Laboratory of Materials Processing and Die & Mould Technology

Excellent Partners of DIE CASTING CONGRESS 2026

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Bühler (China) Machinery Manufacturing Co., Ltd.
Yizumi Holdings Co., Ltd.
Denova Thermal Technology (Suzhou) Co., Ltd.
Zhejiang Wanfeng Technology Development Co., Ltd.
StrikoWestofen Thermal Equipment (Taicang) Co., Ltd.
Tiangong International Company Ltd.
MAGMA Engineering (Ningbo) Co., Ltd.



Thanks to Excellent Partners



Thanks to Supporters

03 Plenary Session & Four Forums:

Decoding the Future of Aluminum & Magnesium

Nowadays, Lightweighting is no longer an option but a necessity. Aluminum, with its proven stability, supports the structural revolution driven by large-scale integration; magnesium, with its inherent lightness, paves the way for next-generation material applications. This congress invited 48 experts and scholars to share insights on hot topics such as magnesium alloy casting, mega casting, low-pressure/squeeze/rheocasting, fostering in-depth interaction and practical exchanges.

Overview of Speakers

- Plenary Session
- Sub Forum: Mega-Casting
- Main Technical Session
- Sub Forum: Low-Pressure/Squeeze/Rheocasting
- Sub Forum: Magnesium Alloy Casting
- Die Casting New Product/Technology Release



Speaker

Zeng Xiaogin, Vice President/Professor, Shanghai Jiao Tong University

Topic: Stainless Magnesium Technology: Research and Development Innovation from Alloy Materials to Thixomolding Processing



Speaker Moderator

Zhou Jianxin, Professor, Huazhong University of Science and Technology

Topic: Research on the Digital & Intelligent Technologies of the Large-Scale Complex Die-Casting and its Application



Speaker

Wan Li, Deputy General Manager/Dean of Research Institute/Professor-level Senior Engineer, Guangdong Hongtu Technology (Holdings) Co., Ltd.

Topic: Giga-Casting Technology — Practice, Insights and Future



Speaker

Anders E. W. Jarfors, Professor, Jönköping University

Topic: Challenges for Automotive HPDC Components Made from Aluminium



Speaker

Han Qingyou, Professor, Southeast University

Topic: Pulsed Die Lube Application



Moderator

Xiong Shoumei, Vice President, FICMES; Professor, Tsinghua University



Speaker

Zhu Renju, Product Development Manager, Nemak

Topic: Casting the Future: Nemak's Lightweighting Aluminum & Magnesium Solutions for China's Sustainable Mobility Transformation



Speaker

Zhang Jian, HPDC Development Manager, Nemak

Topic: Casting the Future: Nemak's Lightweighting Aluminum & Magnesium Solutions for China's Sustainable Mobility Transformation



Speaker

Wang Sining, Global Product Manager, Bühler (China) Machinery Manufacturing Co., Ltd.

Topic: Development and Prospects of Die-Casting Technology in China



Speaker

Young Jin, Ko, President, Korea Diecasting Society

Topic: Current Status and Prospects of Aluminum Materials for Weight Reduction in the Korean Automotive Industry



Speaker

Gu Ming, Senior Quality Engineer & Expert, Xiaomi Automobile

Topic: Precision Dimensional Control Solution for Electric Drive Housings



Speaker

Chen Yong, Product Manager for Thixomolding Machine, Yizumi Holdings Co., Ltd.

Topic: Solutions and Applications of Semi-Solid Thick-Wall Forming for Magnesium Alloys



Speaker

Wang Zhigang, Chief Engineer, Huawei Technologies Co., Ltd.

Topic: Analysis of the Application of Die Casting in the Optical Communication Industry



Speaker

Huang Xiangqi, Senior Product Manager / Senior Engineer, China Quality Mark Certification Group

Topic: Sustainable Development in Die Casting



Moderator

Fang Jianru, General Manager, Dalian Yaming Auto Parts Co., Ltd.



Speaker

Zhao Haidong, Professor, South China University of Technology

Topic: Microstructure Characteristics and Their Effect on Mechanical Behavior of Al6SiMg Die Casting with Long Mold Filling Distance



Speaker

Sajjad Amir Khanlou, Founder & CEO, MetalNX

Topic: Next-Generation Cast Components Enabled by Physics-AI Driven Technologies



Speaker

Pan Yingjun, Professor, Wuhan University of Science and Technology

Topic: Application of Mo2FeB2 Cermet Composite in Key Components of Die-Casting Machines



Speaker

Cao Jun, General Manager, Denova Thermal Technology (Suzhou) Co., Ltd.

Topic: Dosing Furnace for Thermal Management System (TMS)



Speaker

Yu Yang, Chief Scientist, Tiangong International Company Ltd.

Topic: Comprehensive Solutions for Advanced Materials and Processes in Mega Casting



Speaker

Wang Xiaodi, Head of the Embodied Intelligence Research Division/Senior Engineer, CITIC Diecast Co., Ltd.

Topic: High-Efficiency and Lightweight Solutions for the Frame and Skeleton of Humanoid Robots



Speaker

Zhu Jiahui, Deputy Secretary-General, National Technical Committee 54 on Foundry of Standardization Administration of China

Topic: Strengthening the Guidance of Casting Standards to Empower High-Quality Industry Development



Moderator

Xu Cheng, President of the Milison Institute/Chief Die Casting Engineer, Chongqing Milison Technology Co., Ltd.



Moderator

Lu Hongyuan, General Consultant - Technology & Sales/Professor, Bühler (China) Machinery Manufacturing Co., Ltd.



Speaker

Martin Tauber, Representative, International Magnesium Association

Topic: New Magnesium Lightweight Applications for Transport Applications - The Value Chain for Mg Alloys & Outlook



Speaker

Li Yongxing, Die Casting Expert, LK GROUP, Shenzhen Leadwell Technology Co., Ltd.

Topic: Taking Lightweighting Further: Magnesium Alloy In All Dimensions Molding Technology and Solutions



Speaker

Shi Keping, Sales Manager, StrikoWestofen Thermal Equipment (Taicang) Co., Ltd.

Topic: Magnesium in High Pressure Die Casting – from Ingot to Mold



Speaker

Zhang Lulu, Technical Supervisor, Exquisite Automotive Systems Co., Ltd.

Topic: The Development and Application of Magnesium Alloy Castings



Speaker

Fu Bangyin, Senior Application Manager of the Mg Product Line, Ningbo Free Trade Zone Haitian Zhisheng Die-Casting Equipment Co., Ltd.

Topic: Development and Application of Large Magnesium Alloy Thixomolding Equipment



Speaker

Wang Tianhua, Foundry Technician, FAW Foundry Co., Ltd.

Topic: Key Technologies of Magnesium Alloy Semi-Solid Processing and Lightweight Product Development



Speaker

Zeng Chaohui, Executive Vice GM, DongGuan EONTEC Co.,Ltd.

Topic: The Trend of Mg Applications



Speaker

Li Wenjun, Die Casting Process Engineer, Chenzhi (Chongqing) Lightweight Technology Co., Ltd.

Topic: Study on Semi-Solid Injection Molding Process for Magnesium Alloy Tailgate Inner Panel



Moderator

Zhang Xiaoyan, Chairman, Ningbo Daxie Development Zone Tianzheng Mold Co., Ltd.



Moderator

Dong Xianming, Professor-level Senior Engineer/Expert, FICMES



Speaker

Jost Gaertner, Managing Partner, ALUMAG® Automotive Marketing GmbH

Topic: Mega & Giga Casting in China and Beyond: Press Installation & Applications



Speaker

Wu Mengwu, Professor, Wuhan University of Technology

Topic: Research on the Heterogeneous Microstructure and Dynamic Mechanical Properties of Large-scale Integrated Die-casting Parts



Speaker

Pan Fei, Factory Director/Senior Engineer, XPeng Motors

Topic: Effect of Return Material Proportion on the Performance of Mega-Cast Aluminum Front Compartment Floor



Speaker

Liu Huachu, Metallurgy & Materials Expert, NIO

Topic: CALPHAD-Assisted Design and Implementation of Die-Cast Aluminum Alloys



Speaker

Liu Libing, Smart Manufacturing Engineer, Xiaomi Automobile Co., Ltd.

Topic: AI-Driven Quality Control in Mega-Casting



Speaker

Wang Liang, Tooling Engineer, Dongfeng Electronic Technology Co., Ltd. Wuhan

Topic: Collaborative Development Practice of Large-Scale Integrated Die-Casting Molds and Peripheral Equipment Matching



Speaker

He Zunian, Doctoral Candidate, Tsinghua University

Topic: Three-Dimensional Morphology and Evolution Mechanism of Porosity at the Flow End in Non-Heat-Treated High-Pressure Die-Cast AlSi9MnVZr Alloy



Moderator

Gao Zhengda, General Manager, Anhui Unique Automotive Technology Co., Ltd.



Moderator

Ren Min, Lead Engineer of Planning Integration, Geely Auto



Speaker

Lv Shulin, Professor, Huazhong University of Science and Technology

Topic: Rheo-Diecasting of the Al Alloy Component with Thin-Wall



Sun Jingying, CEO, Jiangsu CASFU Light-Alloy Co., Ltd.

Topic: Development of LPDC Process for Integrated Aluminum Alloy Front Cabin Frame



Wu Jun, General Manager/Senior Engineer, Zhejiang Wanfeng Technology Development Co., Ltd.

Topic: Intelligent Solutions for Low-Pressure Die Casting Production Lines



Tian Fangxu, Light Alloy Department Engineer, Hubei Hangte Equipment Manufacturing Co., Ltd.

Topic: From Microstructural Regulation to Mass Production: Full-Cycle Development of Aluminum Alloy Subframes for High-End New Energy Vehicles



Han Zichen, Chief Technology Officer/Senior Engineer, Shandong Honho Lightweight Technologies Co., Ltd.

Topic: Development and Application of Squeeze Casting Technology in Thermal Management Systems for New Energy Vehicles



Deng Fangtian, Business Development in China, Fraunhofer Institute for Casting, Composite and Processing Technology IGCV

Topic: Exploring the Impact of Mold Coating Thickness on Thin-Walled Castings Quality and Developing In-Line Monitoring Solution



Anwar Hameaux Hamasaid, R&D Project Lead, ROVALMA S.A.

Topic: High-Thermal-Conductivity Tool Steels for Low-Pressure and Semi-Solid Die Casting: An Effective Lever for Productivity and Casting Quality



Han Xing, General Manager, Shandong Hongcan Material Technology Co., Ltd.



Zhu Jiahui, Application Manager, MAGMA Engineering (Ningbo) Co., Ltd.

Topic: Design and Development Plan for Aluminum-Magnesium Alloy Semi-Solid Components Based on MAGMASOFT® Simulation Analysis



Paolo Frassi, Tool Steel Development Manager, Lucchini RS

Topic: Innovative Steel Grades for High-Pressure Die Casting (HPDC) Dies: Metallurgical Design and Manufacturing Processes for GIGA Dies



Chinnadit-Baitiang, Analyzer Technical Director, RWP GmbH

Topic: The Future Foundry Intelligence through Seamless Integration between Simulation Simcast and AI Analyzer



Lukas Weiß, SimCast Technical Director, RWP GmbH

Topic: The Future Foundry Intelligence through Seamless Integration between Simulation Simcast and AI Analyzer



Bai Lihui, General Manager, Dernas Alloy Tech (Jiangsu) CO.,Ltd.

Topic: The Application of High Thermal Conductivity Tool Steel and Steel/Copper Composite Additive Manufacturing Technology in Die Casting Molds



Chen Ziyang, Business Manager, Qingdao FSK Foundry Materials Co., Ltd.

Topic: Application Of Refining Agent In Die Casting



Zhu Wenping, Global Casting Expert, Eaton (China) Investment Co., Ltd.

04 In-depth Seminars on Die Casting Industrialization:

Materials · Processes · Talents · Standards

Magnesium Alloys Application Challenges and Industrialization Seminar

Supporter:  上海交通大学
SHANGHAI JIAO TONG UNIVERSITY

This seminar brought together upstream and downstream experts to tackle key bottlenecks in scaling up magnesium alloy applications. Heated discussions covered joining, protection, simulation, raw material supply, and ecosystem coordination, culminating in a collaborative search for breakthrough solutions.

Panelist

Cao Fuyong, Associate Professor, Xiamen University
Moritz Weidt, General Manager, MAGMA Engineering (Suzhou) Co., Ltd.
Wang Qingshan, Secretary of the Party, Leadership Group, Director, Qingyang County Bureau of Commerce
Zeng Chaohui, Executive Vice GM, DongGuan EONTEC Co., Ltd.
Liu Xiangqing, General Manager/Senior Engineer, Dong Feng Motor Wheel Suzhou Co., Ltd.

Moderator

Gu Lidong, Assistant Researcher, Shanghai Jiao Tong University



Trial Training Session for Die-Casting Technicians

The organizer has arranged a trial training session for die-casting technicians, focusing on cutting-edge cases such as 16,000T die-casting. The session covers die-casting principles, equipment selection, process optimization, as well as practical experience in mold design, commissioning, and troubleshooting, offering industry professionals a high-value platform to stay abreast of trends and enhance their skills.



Experts

Lu Hongyuan, General Consultant Technology & Sales, Bühler (China) Machinery Manufacturing Co., Ltd.
Dong Xianming, Senior Engineer/Expert, Foundry Institution of Chinese Mechanical Engineering Society (FICMES)
Liu Zhentan, Expert, FICMES
Zhang Xiaoyan, Chairman, Ningbo Daxie Development Zone Tianzheng Mold Co., Ltd.

Moderator

Cao Xiumei, Senior Engineer, FICMES

Dongfeng Technology Matchmaking Session

To drive technical exchange on die casting, the organizer arranged for industry experts to visit Dongfeng during the congress. Through on-site discussions, they tackled key challenges, shared hands-on expertise, and formulated solutions. This session served as a collaborative platform, paving the way for future progress in die casting technology and lightweight vehicle applications.



Seminar on the National Standard “Test Methods for Air Tightness of Die Castings”

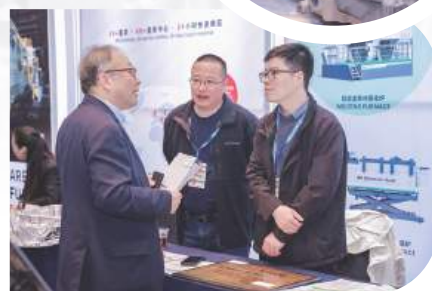
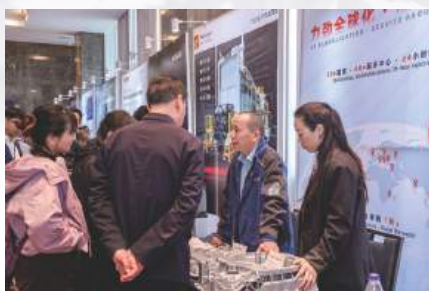
The Subcommittee 4 on Die Casting of National Technical Committee 54 on Foundry of Standardization Administration of China held a drafting meeting for the national standard Test Method for Air Retention of Die Castings onsite. Experts and technicians from over 30 units discussed the draft standard, framework and technical applicability, and put forward revision suggestions. The standard will standardize testing procedures, unify evaluation criteria, provide technical support for controlling leakage and porosity risks of die castings, and help improve product quality and safety.



05 Brand, Product & Excellent Casting Display

Brand & Product Display

Alongside the congress, 42 enterprises and institutions showcased their latest technologies, products, and solutions, helping to promote cutting-edge research and drive innovation.



Excellent Castings Display

In order to promote the development of die casting industry and display advanced technology, the organizer invited Xpeng, Nemak, Yoshioka, CASFU, etc., to display thier one-piece die-cast front engine compartment, oil sump, subframe, heated housing, and water chamber assembly, etc. onsite.



Two launches captured the spotlight: Nemak's magnesium alloy oil sump made its China debut. And, CASFU presented the world's first low-pressure aluminum alloy integrated front compartment.

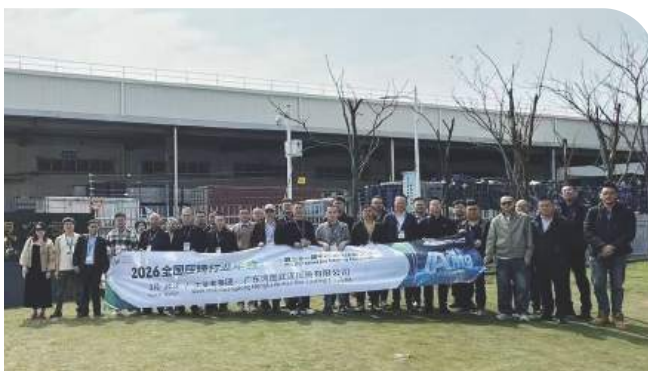


06 Work Visit

On the afternoon of March 27, the organizer led over 200 participants to visit local die casting factories and university labs. They observed a 16,000-ton die casting cell in operation, exchanged ideas with engineers, and explored cutting-edge research facilities—creating a closed loop from theory to practice to R&D.



Dongfeng Electronic Technology Co.,Ltd. Wuhan Branch



Guangdong Hongtu Wuhan Die-casting Co., Ltd.

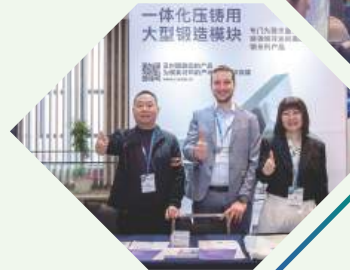


Voyah Automotive Technology Co., Ltd.



State Key Laboratory of Materials Processing and Die & Mould Technology

07 Onsite Photos



08 Press Release

DIE CASTING CONGRESS was reported through WeChat, websites, magazines and other channels by a lot of media. Special thanks to following media for their great support: FOUNDRY, SPECIAL CASTING & NONFERROUS ALLOYS, DIE-CASTING, ZHONG GUO YA ZHU, CHINA FOUNDRY, Die-casting Weekly, Die Casting Newspaper, Zonzu Technology, Foundry-Suppliers.com, Foundry-Planet GmbH, Intercontinental Foundry.



Many Participant Enterprises Reported the Congress



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Die Casting Commission of the World Foundry Organization

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National Key Laboratory of Advanced Casting Technologies

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Public Service Platform for the Industrialization of Innovative Achievements in Equipment Key Part Casting

Co-organizer

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Foundry Professional Committee of Hubei Mechanical Engineering Society

Global Die-Casting Industry Key Events



CHINA DIECASTING
CHINA NONFERROUS

CHINA DIECASTING &
CHINA NONFERROUS

2026.7.15-17·Shanghai, China



THE 76TH
WORLD FOUNDRY
CONGRESS

The 76th World Foundry Congress

2026.10.18-24·Istanbul, Türkiye



DIE CASTING
CONGRESS
中国压铸会议

Die Casting Congress

Spring 2027·China



2026 Asia-Pacific Metal Forming
Tech & China Foundry Congress

2026.11.28-30·Shenzhen, China



JAPAN
DIE CASTING

Japan Die Casting

2026.11.12-14·Yokohama, Japan



SEA DIECASTING
SEA (Thailand) Die Casting Conference & Exhibition

SEA DIECASTING 2027

2027·Thailand

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