



ONE WORLD  
链动全球压铸  
ONE DIECASTING



DIE CASTING  
CONGRESS  
中国压铸会议

# The 20<sup>th</sup> China Die Casting Congress

March 26-28, 2025, Wanda Realm Nanjing

## Post Congress Report



— Onsite Photos —

 [www.diecastexpo.cn/en/congress](http://www.diecastexpo.cn/en/congress)





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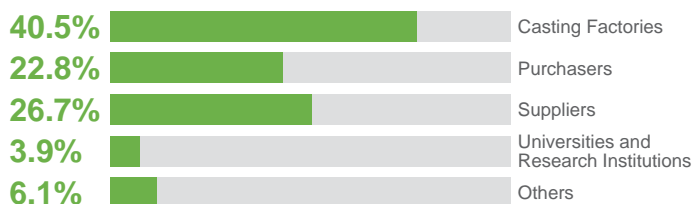
# 2025 Facts & Figures

-  **701** delegates participated in the congress
-  **46** speakers and experts were invited to share their research results and latest technologies on hot topics
-  **33** enterprises displayed their specific high-quality products and new achievements
-  **14** excellent castings displayed, featuring advanced technology

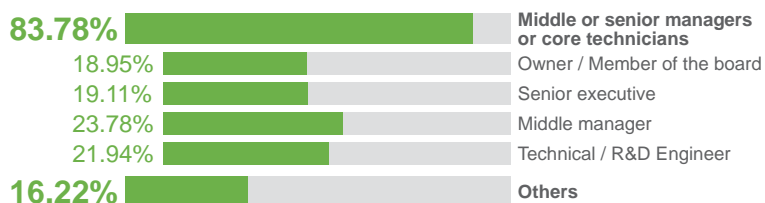
**ONE WORLD  
ONE DIECASTING**

# Delegates Analysis

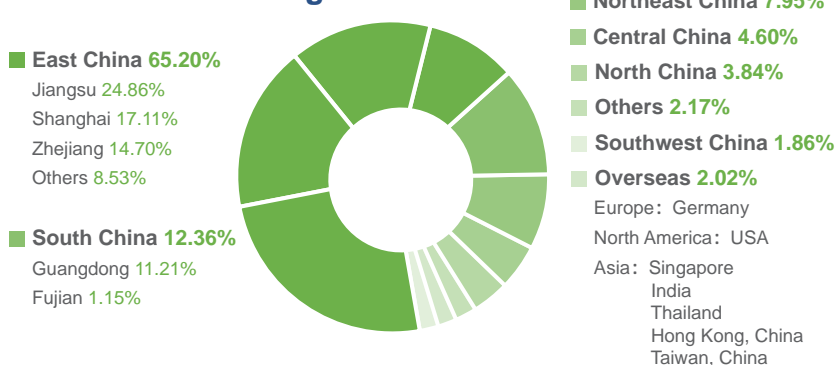
## Participant Enterprises Category



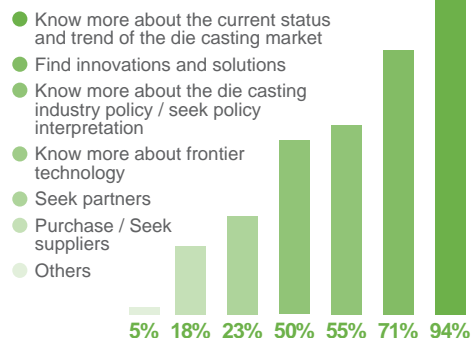
## Job Functions of Delegates



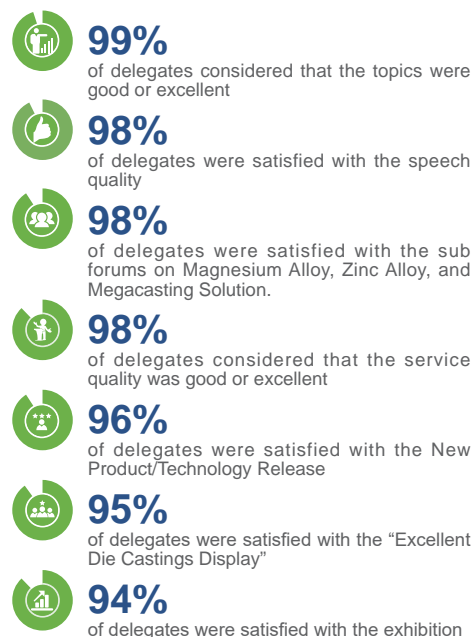
## Distribution of Delegates



## Purpose of Delegates (Multiple choice)



## Delegate Satisfaction



## Overview of Participants



\*More delegates were invited



# Annual Recognition and Awards

“Outstanding Contribution Award for National Die Casting Education and Training 2025”, “Appointment Ceremony for Die Casting Education and Training Experts 2025”, “Awarding Ceremony for Excellent Partners of DIE CASTING CONGRESS 2025” were held onsite.

## Outstanding Contributor to National Die Casting Education and Training 2025

- |             |               |               |               |
|-------------|---------------|---------------|---------------|
| Lu Xin      | Zhang Junchao | Xu Cheng      | Deng Yangquan |
| Zhao Lijun  | Liu Zunjian   | Zhang Xiaoyan | Xiong Shoumei |
| Lu Hongyuan | Dong Xianming | Liu Zhentian  | Wang Yousheng |
| Xu Yiwu     | Li Guanghao   | Zou Zhihou    | Gong Jie      |
| Liu Qiming  |               |               |               |



Outstanding Contribution Award for National Die Casting Education and Training 2025

## Die Casting Education and Training Experts Appointed in 2025

- |              |                |             |             |
|--------------|----------------|-------------|-------------|
| Wang Jing    | Guo Changsheng | Han Qingyou | Wu Xiaochun |
| Chang Yiqian | Xing Minru     | Lu Min      | Wei Baohua  |
| Li Tao       | Yu Deshui      | Li Haoan    |             |



Appointment Ceremony for Die Casting Education and Training Experts 2025

## Excellent Partners of DIE CASTING CONGRESS 2025

- L.K. Group
- ARES Furnace
- Bühler (China) Machinery Manufacturing Co., Ltd.
- Yizumi Holdings Co., Ltd.
- Italpresse Industrie (Shanghai) Co., Ltd.
- Wacker Chemicals (China) Co., Ltd.
- STAUBLI (Hangzhou) Mechatronic Co., Ltd.
- Nanjing Changjiang Industrial Furnace Technology Co., Ltd.
- MAGMA Engineering (Suzhou) Co., Ltd.



Thanks to Excellent Partners

## Supporters of DIE CASTING CONGRESS 2025

- Jiangsu Foundry Association
- Foundry Institution of Jiangsu Mechanical Engineering Society
- Phoenix Contact China Corporation
- Baowu Magnesium Technology Co., Ltd.
- Brembo (Nanjing) Automobile Components Co., Ltd.
- School of Mechanical Engineering, Southeast University



Thanks to Supporters

# Global Fusion & Collaborative Growth of Die Casting Technology

"Technology is borderless, and cooperation fosters growth" which has become a global consensus today. With the rise of EV and the transformation of traditional automakers, the need to shorten automobile production cycles has become increasingly urgent. Die casting, as a critical process in automobile manufacturing, is undergoing profound changes.

The 20<sup>th</sup> China Die Casting Congress, with the concept of "ONE WORLD, ONE DIECASTING," brought together 38 experts and scholars from regions including Mainland China, the United States, Germany, Switzerland, India, Thailand, and Taiwan (China). Together, they delved into industry hotspots such as magnesium alloys, zinc alloys, and Mega-casting, engaging in in-depth exchanges and discussions with attendees.

## Overview of Speakers

- Plenary Session   ■ Main Venue: Technical Session
- Sub Forum: Magnesium Alloy Die Casting   ■ Sub Forum: Mega-casting Solution
- Sub Forum: Zinc Alloy Die Casting   ■ New Product/Technology Release



**Speaker**  
Xiong Shoumei, Vice President, FICMES; Professor, Tsinghua University  
Topic: Influence of Processing Technology on Microstructure and Mechanical Properties of High Pressure Die Castings



**Speaker**  
Dr. Steve Midson, Research Professor, Colorado School of Mines  
Topic: State of the North American Die Casting Industry



**Speaker**  
Han Qingyou, Chief Professor, School of Mechanical Engineering, Southeast University  
Topic: Mechanism and Prevention Measures of Aluminum Alloy Soldering in Die Casting Process



**Speaker**  
Dr. Gu Lidong, Research Assistant  
Topic: Recent Advancements in Magnesium Alloy Materials and Thixomolding Technology



**Speaker**  
Dr. Stuart Wiesner, Head of R&D, Aluminium Rheinfelden Alloys GmbH  
Topic: Characteristics of Cast Aluminum Alloys for Structural Components



**Host**  
Peng Liming, Professor, Shanghai Jiao Tong University; Chairman, WFO Die Casting Committee



**Speaker**  
Zhao Haidong, Professor, South China University of Technology  
Topic: Research Applications and Development Trends of Aluminum Alloy Pressure Die Casting



**Speaker**  
Dr. Andreas Hennings, Product Development Director Europe & Asia, Nemak Europe GmbH  
Topic: Enabling Lightweighting Designs by Detailed Description of Cast-Material-Properties



**Speaker**  
Dr. Awen Liu, Tech Center/Associate Researcher, LK GROUP  
Topic: New Magnesium Alloy Semi-Solid Thixoforming Technology-TPI and Its Technical Advantages



**Speaker**  
Shueiwan H. Juang, Professor, National Taiwan Ocean University  
Topic: Impact of Additive Manufacturing Parameters on Mechanical Properties of Maraging Steels



**Host**  
Yuan Xiaoguang, Vice President, FICMES; Vice Principal, Liaoning Vocational University of Technology



**Speaker**  
Dr. Lu Hongyuan, General Consultant & Sale/Professor, Bühler (China) Machinery Manufacturing Co., Ltd.  
Topic: Sustainable Megacasting Production for Body-in-white





Speaker Host

Wu Mengwu, Professor, School of Automotive Engineering, Wuhan University of Technology  
Topic: Research on the Solid Liquid Composite Forming and Interface Control of Iron-Aluminum/Aluminum-Aluminum Bimetallic Materials Based on High Pressure Die Casting Process



Speaker

Han Tao, Two-Plate Die-Casting Machine PM, Yizumi Holdings Co., Ltd.  
Topic: Application of 2-platen Die Casting Machine on One-out-two Shock Towers



Speaker

Chaowalit Limmaneevichitr, Vice President/Associate Professor, King Mongkut's University of Technology Thonburi  
Topic: Thai Die-Casting at a Crossroads: Opportunities and Obstacles in a Global Market



Speaker

Feng Yingyu, Professor, Northeastern University Wuxi Research Academy  
Topic: Interpretation of "High-Quality Die Casting Mold Steel and Heat Treatment Technical Specifications" and Quality Responsibility Identification



Speaker

Dong Xixi, Laboratory Director/Professor, Nanjing University of Aeronautics and Astronautics  
Topic: Natural Ageing Behavior and Intelligent Prediction of Mechanical Properties of Heat Treatment-free Al Alloys for Integrated Die Casting



Speaker

Matt Yang, Die Casting Process Application Manager/Senior Engineer, Itaipresse Industrie (Shanghai) Co., Ltd.  
Topic: Mastering the Technological Characteristics of Die Casting Machines to Enhance OEE



Speaker

Dominik Mahnig, Head of Product Development, GF Casting Solutions  
Topic: Advanced Development Technologies: Engineering Interior and Chassis Solutions for Next-Gen Vehicles



Host

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



Speaker

Shi Zhaoliang, Chief Engineer, Dongfeng Motor Corporation Research & Development Institute  
Topic: Research and Application of BIW Megacasting



Speaker

Daniel Wang, E-Car Manager, Siemens China Co., Ltd.  
Topic: Diecasting One-body CNC Machining Siemens Solution



Host

Liu Zhiguo, COO, Ningbo Zonzu Info Tech Co., Ltd.



Speaker

Dr. Mao Mingzhi, ATC Director Meridian/Professorate Senior Engineer, Meridian Lightweight Technologies Ltd.  
Topic: EV Magnesium Alloy Motor Housing's Development, Application & Issues



Speaker

Li Zhigang, Senior Engineer, FAW Foundry Co., Ltd.  
Topic: Complicated & Precise New Energy Car Product Injection with Magnesium Alloy Thixomolding



Speaker

Dr. Wang Zhuo, Staff Researcher, BAOWU Magnesium  
Topic: High Performance Magnesium Alloy Products Empowers Lightweight Manufacturing Industry



Speaker

Ge Qiwei, Director of the Magnesium Alloy Product, Ningbo Free Trade Zone Haitian Zhisheng Metal Forming Equipment Co., Ltd.  
Topic: Exploration into the Development and Application of Large Thixomolding Magnesium Machine



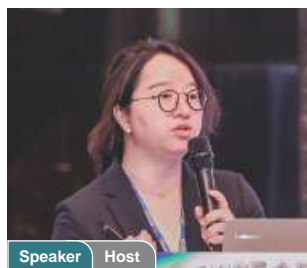
Speaker

Chen Shanrong, CTO/Professorate Senior Engineer, Ka Shui Group  
Topic: Development of Large-sized Magnesium Components by Semi-Solid Moulding Technology



Speaker

Wang Lei, General Industry SME, STAUBLI(Hangzhou) Mechatronic Co., Ltd.  
Topic: Secure Connection - Efficient Changeover: Quick-Change Solution for Magnesium Alloy Die Casting Molds



Speaker

Host

Dr. Chen Juan, Associate Professor, Shanghai Jiao Tong University  
Topic: Research on Joining Technology of Die Casting Light Alloy for Automotive Lightweight



Speaker

Chen Anhong, Case Design & Development Engineer/Senior Engineer, SAIC Motor R&D Innovation Headquarters (SRIH)  
Topic: The Design and Development of the First Mg Alloy Cases for Electrical Drive System in SAIC



Host

Wu Xiaochun, Professor, Shanghai University



Speaker

Mira Ren, Die-Casting Process Planning/  
Senior Engineer, Zhejiang ZEEKR Automobile  
Research and Development Co., Ltd.

Topic: Planning Process and Steps for Large  
Integrated Die Casting Plant



Speaker

Liu Yelei, Senior Technical Manager, Wacker  
Chemicals (China) Co., Ltd.

Topic: Silicone Mold Release Agent Solutions  
for Megacasting



Speaker

Jason Song, Casting Process Manager,  
Chenzi Technology Co., Ltd.

Topic: Current Status and Future Development  
of Giga Die Casting



Speaker

Kui Wong, Associate Professor, Shanghai  
Jiao Tong University

Topic: Research and Application of Abrasion  
and Corrosion Resistant Equipment Materials



Host

Chang Yiqian, Die Casting Education and  
Training Expert, FICMES



Speaker

Dr. Chen Jiangbiao, Senior Engineer, Suzhou  
Xiangguan Alloy Research Institute

Topic: Interpretation of National Standard GB/  
T 13818-2024 "Die Casting Zinc Alloys"



Speaker

Howard Chiou, General Manager, Dynaplus  
Incorporated

Topic: The Precision Zinc Alloy Diecasting  
Now and Future



Speaker

Dr. Rahul Sharma, Director, International Zinc  
Association (India)

Topic: Growth and Developments in Indian  
Zinc Die Casting Industry



Speaker

Li Canming, General Manager, Guangdong  
Huazhu Casting Mould Science and  
Technology Co., Ltd.

Topic: Optimization, Cost Cutting and Smart  
Upgrade of Zinc Alloy Products via High-  
Speed Die Casting Machines without Nozzles



Host

Shi Quan, Manager, Ningbo Duanzhi  
Automation Equipment Co., Ltd.



Speaker

Jack Liu, Operations Manager, MAGMA  
Engineering (Suzhou) Co., Ltd. Ningbo  
Branch

Topic: Design and Development of the Robot  
Part of Magnesium Alloy Semi-Solid based  
on MAGMASOFT Simulation Analysis



Speaker

Dr. Carry Chen, CEO, Shenzhen Moreway  
Technology Co., Ltd.

Topic: Research and Exploration of the  
New Generation of Intelligent Guidance  
Technology for Deburring and Grinding



Speaker

Wang Tiejchen, Senior Sales Manager, Tianjin  
Ares Industrial Furnace Co., Ltd.

Topic: Smart Manufacturing Upgrade, Dual-  
layer Empowerment - The Innovation Path of  
Dual-layer Aluminum Alloy Heat Treatment  
Furnace



Host

Zeng Weili, Editor-in-Chief, Die Casting  
Weekly

# Concurrent Events - Spark Innovation

## Expert Group Working Meeting of FICMES

The 2025 Expert Group Working Meeting of the Foundry Institution of Chinese Mechanical Engineering Society (FICMES) was successfully held in Nanjing on March 26. Focusing on "Frontier Technologies and Future Development," experts discussed cutting-edge die-casting innovations and industry trends, demonstrating strong collaboration for sector-wide progress.



## Theme Workshops

### Decoding Dual Carbon Compliance, Embarking on a Green Journey for Corporate Globalization



The workshop, which focused on the interpretation of dual carbon policies, green technology innovation, and the practice of internationalization strategies, attracted active participation from numerous industry experts and enterprise representatives. Through keynote speech sharing and group brainstorming discussions, the on-site atmosphere was enthusiastic, and the response was strongly positive.

#### Panel Discussion

Supporter 



**Li Chengxi**  
Product Carbon Footprint Manager, SGS-CSTC Standards Technical Services Co., Ltd.



**Zheng Junjie**  
Energy Manager, IKD Company Co., Ltd.



**Liu Yunxiang**  
Senior Consultant, Ningbo Jiwang Information Technology Co., Ltd.



**Fu Gang**  
Dual Carbon Business Director, Phoenix Contact China Corporation



## Offline Trial Training Session for Die-casting Technicians

The organizer has arranged an offline trial training session for die-casting technicians, exploring the current state of industry professionals, skill development, and talent demands. Participants found it practical and rewarding, broadening their horizons and clarifying skill-building goals, boosting their career confidence.

Organizer



#### Experts

Liu Zunjian, Chief Engineer, Suzhou Union Precision Metal Products Co., Ltd.  
Dong Xianming, Expert, Foundry Institution of Chinese Mechanical Engineering Society  
Liu Zhentan, Executive Vice President, Dalian Yaming Auto Parts Co., Ltd.  
Zhang Xiaoyan, Chairman, Ningbo Daxie Development Zone Tianzheng Mold Co., Ltd.

#### Host

Cao Xiumei, Die-casting Education & Training Leader/Senior Engineer, Foundry Institution of Chinese Mechanical Engineering Society

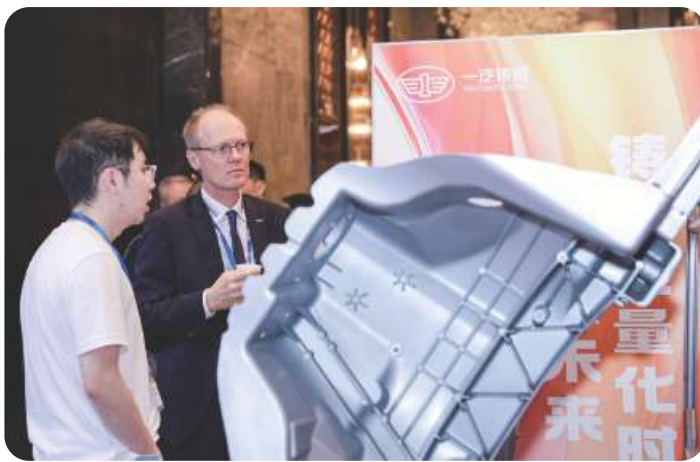


# Brand & Die Castings Display, Featuring Advanced Technology

## Excellent Castings Display

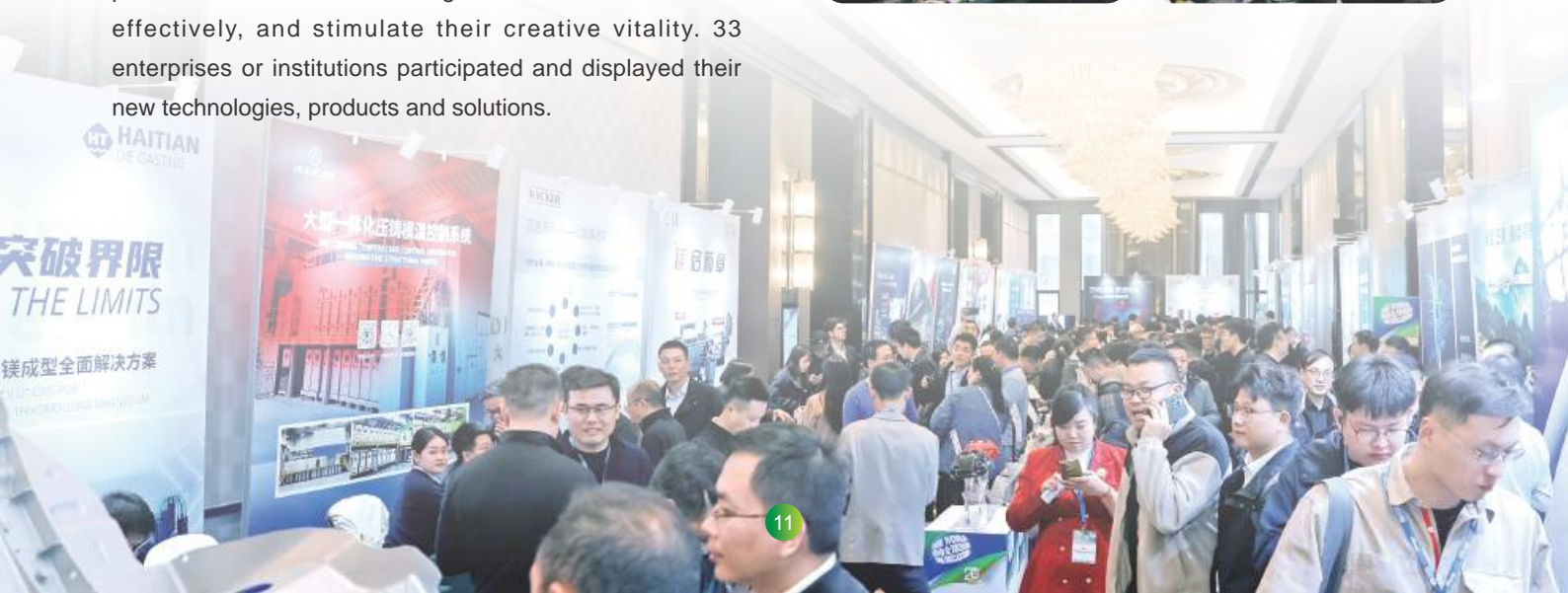


In order to promote the development of die casting industry and display advanced technology, the organizer invited FAW Foundry, Brembo, Nemak, Baowu, GF, etc., to display their magnesium integrated rear floor, aluminum caliper, rear subframe, BBC, and rear seat riser, etc. onsite.



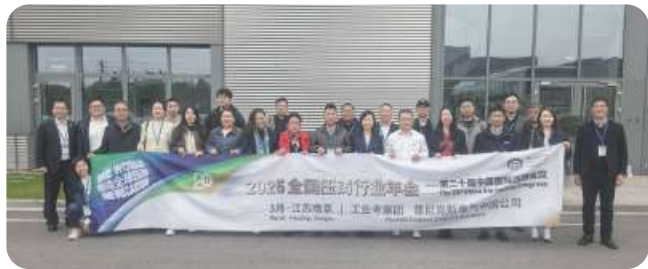
## Brand & Product Display

Some recommended brands and products were displayed onsite concurrently with the congress, to enhance the promotion of latest technologies and research results effectively, and stimulate their creative vitality. 33 enterprises or institutions participated and displayed their new technologies, products and solutions.

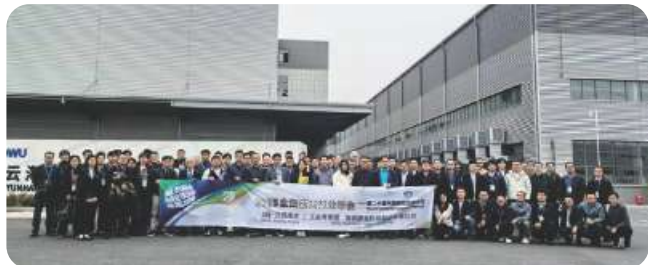


## Factory & University Visit

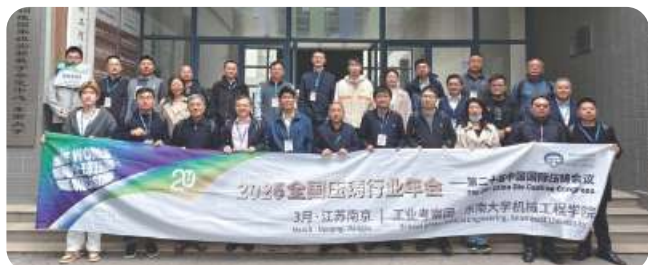
On March 28<sup>th</sup>, delegates visited famous local factories and universities, including Phoenix Contact China Corporation, Baowu Magnesium Technology Co., Ltd., Brembo (Nanjing) Automobile Components Co., Ltd., the School of Mechanical Engineering, Southeast University



Phoenix Contact China Corporation



Baowu Magnesium Technology Co., Ltd.



School of Mechanical Engineering, Southeast University



Brembo (Nanjing) Automobile Components Co., Ltd.

## More Connections to Expand Industry Resources



### Elite Party

### "LK Night" Reception Dinner



# Onsite Photos

Photos 06



Delegates

# Press Release

DIE CASTING CONGRESS was reported through WeChat, websites, magazines and other channels by a lot of media. Special thanks to following media partners 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



# SPECIAL THANKS TO

## Strategy Partner



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## Booth Sponsor



## Thanks to

Chinese Mechanical Engineering Society  
Die Casting Commission of the World Foundry Organization  
Foundry Productivity Promotion Center

## Organizer

Foundry Institution of Chinese Mechanical Engineering Society  
National Key Laboratory of Advanced Casting Technologies  
Shenyang Zhongzhu Foundry Productivity Promotion Center Co., Ltd.  
Public Service Platform for the Industrialization of Innovative Achievements in Equipment Key Part Casting

## Co-organizer

Zonzu Technology  
Die-casting Weekly  
Jiangsu Foundry Association  
Foundry Institution of Jiangsu Mechanical Engineering Society  
Japan Keikinzoku Tsushin AI Co., Ltd.  
FOUNDRY  
CHINA FOUNDRY  
Special Casting & Nonferrous Alloys

## Supporter

Phoenix Contact China Corporation  
Baowu Magnesium Technology Co., Ltd.  
Brembo (Nanjing) Automobile Components Co., Ltd.  
School of Mechanical Engineering, Southeast University

## Global Die Casting Events



DIE CASTING CONGRESS - Thailand -

2025 SEA Die Casting Congress  
2025.5.28-29 · Bangkok, Thailand



CHINA DIECASTING CHINA NONFERROUS

The 19<sup>th</sup> Shanghai International Diecasting & Nonferrous Exhibition  
2025.7.16-18 · Shanghai, China



DIE CASTING CONGRESS 中国压铸会议

China Die Casting Congress  
Spring 2026 · China



Asian Foundry Congress

Asian Foundry Congress  
2025.10.25-28 · Xi'an, China



有色铸国器，轻量开新局  
International Forum on Nonferrous Alloys and Special Casting Technologies

The 8<sup>th</sup> International Symposium on Nonferrous Alloys and Special Casting Technologies  
2025.7.16-18 · Shanghai, China



METALAP  
To be determined .....

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