



DIE CASTING
CONGRESS
中国压铸会议

The 19th China Die Casting Congress

March 20-22, 2024, Shangri-La Hotel, Ningbo

Post Congress Report



www.diecastexpo.cn/en/congress



— Photo Gallery —

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2024 Facts & Figures



756 delegates participated in the congress



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



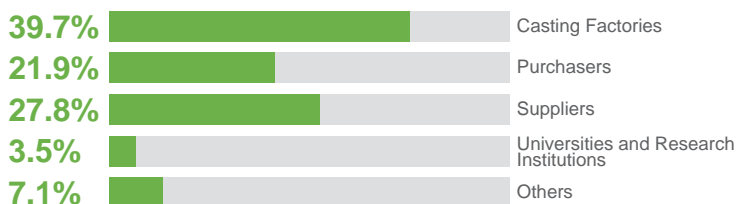
46 enterprises displayed their specific high-quality products and new achievements



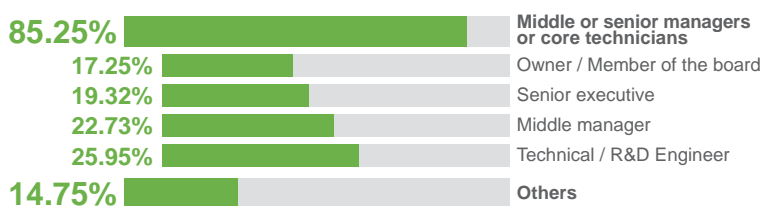
3 industry experts shared their insights on live broadcast, attracting **12,743** viewers

Delegates Analysis

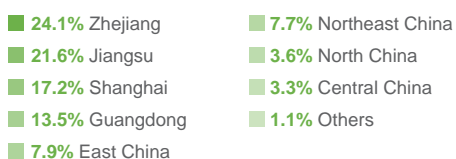
Participant Enterprises Category



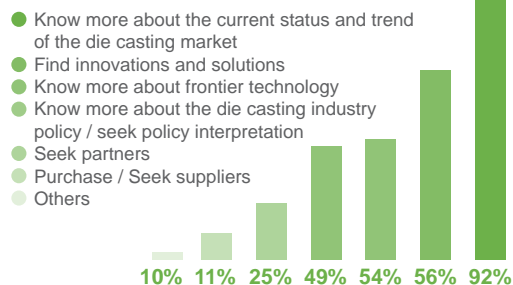
Job Functions of Delegates



Distribution of Delegates



Purpose of Delegates (Multiple choice)



Delegate Satisfaction



Overview of Participants



More delegates were invited

Opening Ceremony

In recent years, a rapid development has been made in the mega casting technology led by the EV manufacturers. The mega casting process is mainly applied in the production of rear underbody, front engine compartment, etc. Die casting process for sub-frame and chassis has also been gradually optimized. As one of the most complete industrial clusters in the national die casting industry, Ningbo has created a characteristic development model with a one-stop full industry chain, which has reflected its advantages in the fields of die casting machine, moulding, materials, CNC machining and other peripheral facilities.

The 19th China Die Casting Congress was held from March 20 to 22, 2024 at Shangri-La Hotel, Ningbo, China. This year, the congress explored more possibilities with colleagues in the die casting industry for the innovation and optimization of die casting process, with the conception of "less is more".

At the opening ceremony of DIE CASTING CONGRESS 2024 on March 21st, Mr. Lou Yanchun, President of World Foundry Organization / President of Foundry Institution of Chinese Mechanical Engineering Society / Chief Scientist of China Academy of Machinery Science and Technology Group Co., Ltd. / Director of National Key Laboratory of Advanced Casting Technologies, and Mr. Zhu Hongbo, Party Group Member & Counsel Level II of the Ningbo Municipal Economic and Information Technology Bureau, delivered welcome speeches. Mr. Liu Hongchao, secretary-general of FICMES presided over the opening ceremony.



Mr. Lou Yanchun



Mr. Zhu Hongbo



Mr. Liu Hongchao



Annual Recognition and Awards

"Appointment Ceremony for Die Casting Education and Training Experts 2024", "Launching Ceremony of China-Thailand Exchange and Cooperation on Die Casting Industry", "Awarding Ceremony for Excellent Die Castings", "Awarding Ceremony for Excellent Partners of DIE CASTING CONGRESS 2024" were held onsite.



Appointment Ceremony for Die Casting Education and Training Experts 2024



Awarding Ceremony for Excellent Partners of DIE CASTING CONGRESS 2024

Excellent Partners of DIE CASTING CONGRESS 2024

L.K. Group

Yizumi Holdings Co., Ltd.

Lizhong Group

Ares Furnace

Bühler (China) Machinery Manufacturing Co., Ltd.

Strikowestofen Thermal Equipment (Taicang) Co., Ltd.

Ningbo Free Trade Zone Haitian Zhisheng Die-Casting Equipment Co., Ltd.

V.J. Technologies (Suzhou) Co., Ltd.

Aerospace Engineering Equipment (Suzhou) Co., Ltd.

MAGMA Engineering (Suzhou) Co., Ltd.

STAUBLI (Hangzhou) Mechatronic Co., Ltd.

ZEISS Industrial Quality Solutions Carl Zeiss Shanghai Co., Ltd.

Die Casting Education and Training Experts Appointed in 2024

Wu Xinlu	Wang Yousheng	Lu Hongyuan	Dong Xianming
Xiong Shoumei	Zhao Lijun	Liu Zunjian	Li Shi
Xu Guangxiang	Liu Zhentian	Zhang Xiaoyan	Fang Jianru
Zhong Gu	Lu Xin	Li Guanghao	Deng Yangquan
Xu Yiwu	Zhang Junchao	Liu Qiming	Xu Cheng
Zou Zhihou	Zhu Wenping	Yang Weixue	Gong Ji

Excellent Die Castings

Guangdong Hongteo Accurate Technology (Taishan) Co., Ltd.

Dalian Yaming Automotive Parts Co., Ltd.

NingBo Daxie Development Zone TianZheng Mould Co., Ltd.

Ningbo Fenda New Energy Technology Co., Ltd.

Academy of Machinery Science & Technology (Jiangle) Institute of Semi-solid Metal Technology Co., Ltd.

SHNS Precision Die Casting (Yangzhou) Co., Ltd.

DGS (China) Co., Ltd.

Yancheng Duoli Auto Parts Co., Ltd.

FAW Foundry Co., Ltd.

Anhui VIE Auto Parts Co., Ltd.

Shenyang Wesszin Tech Ltd.



2024 China Excellent Die Castings Award for Special Contribution



Launching Ceremony of China-Thailand Exchange and Cooperation on Die Casting Industry

MEGACASTING: LESS IS MORE

Focusing on the theme “MEGACASTING: LESS IS MORE”, 21 speakers and experts were invited to share their research results and latest technologies about development and application of alloy materials, product development and integrated computational materials engineering, die casting equipment and integration technology, etc. onsite with delegates by giving speeches.

Overview of Speakers (by schedule)



Li Dianzhong, Fellow of Chinese Academy of Sciences, Institute of Metal Research
Topic: Research and Application of Rare Earth Mould Steels



Xiong Shoumei, Vice President, FICMES; Professor, Tsinghua University
Topic: Study on the Design of a High-pressure Die-cast Al-Fe-Ni Alloy with High Thermal Conductivity



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



Han Qingyou, Chief Professor, College of Mechanical Engineering, Southeast University
Topic: Fluidity of an Alloy under Diecasting Conditions



Gao Zhengda, General Manager, Anhui Unique Automotive Technology Co., Ltd.
Topic: Continuous Technology Evolution and Development Transformation of GIGA Casting



Feng Guangming, R&D Director of Engineering, LK Technology Group Co., Ltd.
Topic: Application of Giga Die Casting in the Field of New Energy Vehicles



Xu Cheng, President of Millison Research Center, Chief Diecasting Engineer, Chongqing Millison Technology Co., Ltd.
Topic: The Development of Die Casting Parts Able for Brazing



Wu Xiaochun, Professor, Shanghai University



Zhang Hai, Director, Weiqiao Lightweight Research Center at Soochow
Topic: No Heat-treated Casting Aluminum Alloys for Integrated High-pressure Die Casting



Wang Bo, Director of Product and Market Management, Yizumi Holdings Co., Ltd.
Topic: Application of Digitalized Die Casting Technology for NEV Parts



Wang Yinan, Mold Technology Chief Engineer, FAW Foundry Co., Ltd. Foundry Mold Plant
Topic: Application and Development of Integrated Diecasting Technology in Product Design and Mold Innovation



Li Jiehua, Professor, Montanuniversität Leoben
Topic: A Comparison of Microstructure, Mechanical Properties and Die Soldering of Rheocasting and Thixocasting Al-7Si-0.6Mg Based Alloy



Speaker

Xiao Rong, Chief Engineer of Die Casting Process, Chery New Energy Automobile Co., Ltd.

Topic: The "Minimalist" Subversive Technology Prospect of Integrated Die-casting Under the Extreme Cost



Speaker

Peter Reuther, Senior Vice President CPI Thermal, StrikoWestofen GmbH

Topic: Addressing the Challenges of Sustainable Development in the Aluminum Casting Industry - The In-cell Melting Solutions for Giant Casting



Speaker Moderator

Lu Hongyuan, General Consultant, Bühler (China) Machinery Manufacturing Co., Ltd.

Topic: Break Through: Next Step of China's Die Casting



Speaker

Chang Yiqian, Vice Chairman, Subcommittee 4 on Die Casting of National Technical Committee 54 on Foundry of Standardization Administration of China

Topic: Group Standard "Technical Specification for Superior Die Steels & Heat Treatment of Die Casting Dies" Interpretation



Speaker

Gao Yejian, Manager, First Design & Research Institute MI China Co., Ltd.

Topic: Green Design of Die Casting Factory



Speaker

Xu Yiwu, Casting Technical Specialist, GM (China) Investment Co., Ltd.

Topic: To Optimize Robustness of Mechanical Properties of Semi-solid Cast Using Taguchi Design Method



Speaker Moderator

Zhou Lianjun, Senior Application Expert, Ningbo Free Trade Zone Haitian Zhisheng Die-Casting Equipment Co., Ltd.

Topic: Application of Magnesium Alloy in Automobile Lightweight and Integrated Die Casting Integrated Solution



Moderator

Dong Xianming, Expert, Foundry Institution of Chinese Mechanical Engineering Society



Speaker

Ding Yiwei, Die Casting Expert, NIO

Topic: Join Technology and Simulation for Aluminum's Mega Casting of Vehicle Body Structural Parts



Speaker

Wang Xingchen, Assistant Research Fellow, Shanghai Jiao Tong University

Topic: Research and Expectation of Intelligent Controlling of Die Casting Based on Data-driven Method



Speaker

Xu Xiaoxia, Welding Equipment Branch of China Welding Association

Topic: Standard Interpretation of Technical Specification for Friction Stir Welding of Cast Aluminum



Speaker

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

Topic: AI & Die-Casting



Moderator

Zhang Xiaoyan, Chairman, NingBo Daxie Development Zone TianZheng Mould Co., Ltd.

Overview of Speakers

(by schedule)

Theme Workshops - Hot Topics

Workshop A



Speaker: He Tianxing

Sales Manager
V.J. Technologies
(Suzhou) Co., Ltd.

Forming and Discussion on Automation and Intelligence of X-ray Detection Technology

The workshop was held by the organizer and VJ Technologies focusing on topics of Forming and Discussion on Automation and Intelligence of X-ray Detection Technology.

Joint organizer: **VJTechnologies**

Workshop B

Forming and Driving Lean Manufacturing, Solutions for Quick Mold Change in Mega-casting

The workshop was held by the organizer and STAUBLI focusing on topics of Forming and Driving Lean Manufacturing, Solutions for Quick Mold Change in Mega-casting.

Joint organizer: **STÄUBLI**



Speaker: Wang Lei

Expert in Automotive Industry
STAUBLI (Hangzhou)
Mechatronic Co., Ltd.



Workshop C: Auto-foundry Club (Ningbo Station)

The workshop was held by the organizer and MAGMA in form of roundtable forums and case analysis. A new platform for information exchange and wisdom collision between die casting enterprises and users has been built. Participants discussed actively and warmly.

Roundtable Speakers:



Moritz Weidt

General Manager,
MAGMA Engineering
(Suzhou) Co., Ltd.



Chen Liang

Forming Supervisor
Engineer, GAC R&D
Center



Kang Liugen

Young Expert, FICMES



Joint organizer: **MAGMA**

Workshop D: Casting Defects Analysis and Solution

2 experienced experts were invited to analyze the defects of castings and provide one-to-one technical answers for mold design, product development, production process, product defects, etc.



Expert in Die Casting: Zhao Lijun

Expert, FICMES;
Technical Consultant,
Zonzu Technology



Expert in Die Casting Mold: Huang Qianqiang

Technical Consultant,
Zonzu Technology

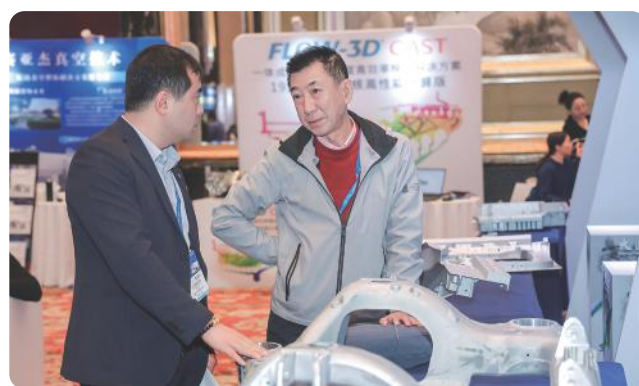
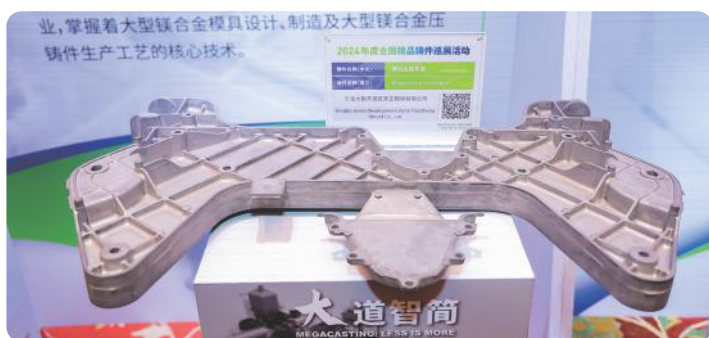
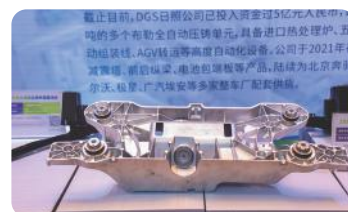
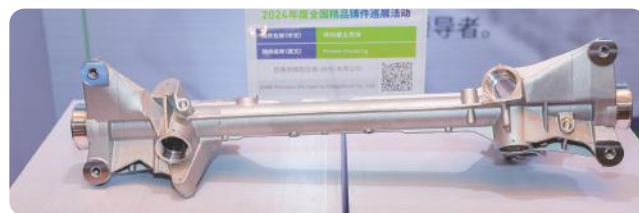
Joint organizer: **中铸科技**
www.zonzu.cn



A Direct Communication Platform for Enterprises

Excellent Die Castings Display

In order to promote the development of die casting industry and display advanced technology, the organizer invited a group of excellent enterprises to display their subframe, upper bracket, inverter housing, water cooling plate, 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. 46 enterprises or institutions participated and displayed their new technologies, products and solutions.



Overseas Market Analysis and Layout

The organizer cooperated with Die-casting Weekly and interviewed 3 industry experts to introduce new changes of capacity expansion and help Chinese die casting enterprises to explore international market.

联合出品

Zeng Weili

Chief Information Officer, Die-casting Weekly

Moderator

Xu Guangxiang

Factory General Manager, MINO Industry México S.A. de C.V.

Mike Luu

Chairman, Vietnam Foundry and Metallurgy Science and Technology Association (VFMSTA)

Chaowalit Limmaneevichitr

Professor, King Mongkut's University of Technology Thonburi (KMUTT)

Live Broadcast

The organizer cooperated with Zonzu Technology to broadcast onsite moments of the congress such as opening ceremony, exhibitor interview, excellent die castings display, attracting 12,743 online viewers.



“YIZUMI Night” Elite Party

More Connections to Expand Industry Resources

“L.K. Night” Reception Dinner



Factory Visit

On March 22nd delegates visited famous local factories including TianZheng Mould, Fenda New Energy Technology, Haitian Die-Casting Equipment, ZEEKR Intelligent Plant, Geely Auto, LK Group Die Tryout Center of 10,000-ton Plus.



TianZheng Mould



Fenda New Energy Technology



Haitian Die-Casting Equipment



ZEEKR Intelligent Plant



Geely Auto

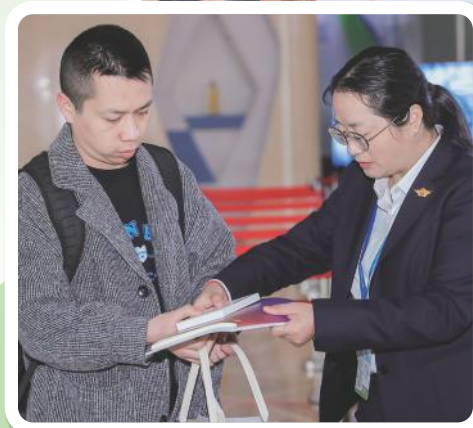
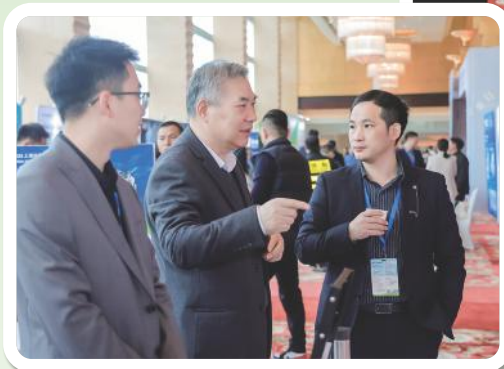


LK Group Die Tryout Center of 10,000-ton Plus

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 for their great support: *FOUNDRY*, *SPECIAL CASTING & NONFERROUS ALLOYS*, *DIE-CASTING*, *FOUNDRY WORLD REPORT*, *ZHONG GUO YA ZHU*, *CHINA FOUNDRY*, *Die-casting Weekly*, *Die Casting Newspaper*, *Zonzu Technology*, *Foundry-Suppliers.com*.



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Die Casting Commission of the World Foundry Organization
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China Academy of Machinery Science and Technology Group Co., Ltd. (CAM)

Organized by:

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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-organized by:

NürnbergMesse China Co., Ltd.
Zonzu Technology
Die-casting Weekly
Ningbo Die & Mould Industry Association
Japan Keikinzoku Tsushin AI Co., Ltd.
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Ningbo Fenda New Energy Technology Co., Ltd.
ZEEKR Intelligent Plant
Zhejiang Geely Automobile Co., Ltd. Ningbo Hangzhou Bay Second Branch

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Professional Industry Platforms Global Service Network

