

精密加工
模具制造
成形技术与设备

中国国际模具技术和设备展览会

www.cdmia.com.cn

www.diemouldchina.com

www.dmcexpo.com

DMC2015

中国国际制造 技术、装备与模具展览会

*China International Exhibition on
Manufacturing Technology,
Equipment and Die & Mould*

——机床 成形工艺与模具一体化展

Integration of Forming Technology, Machine Tool and Die & Mould

2015年5月25—28日

中国 上海新国际博览中心

25-28 May 2015

Shanghai New International Expo Center, China

主办单位:

Organizer:



中国模具工业协会

China Die & Mould Industry Association

承办单位:

Show Management:



上海市国际展览有限公司

Shanghai International Exhibition Co., Ltd.

参办单位:

Co-organizer:



上海市模具行业协会

Shanghai Die & Mould Trade Association

支持单位:

中国机械工业联合会

中国电子信息产业集团公司

中国兵器装备集团公司

中国兵器工业集团公司

中国航空工业集团公司

中国商飞 上海飞机制造有限公司

中国汽车工业协会

中国航空航天工具协会

中国塑料机械工业协会

中国橡胶工业协会

中国机电一体化技术应用协会

中国铸造协会

中国热处理行业协会

Supporters:

China Machinery Industry Federation

China Electronics Corp.

China South Industries Group Corporation

China North Industries Group Corporation

Aviation Industry Corporation of China

COMAC Shanghai Aircraft Manufacturing Co., Ltd.

China Association of Automobile Manufacturers

China Aero-space Tooling Association

China Plastic Processing Machine Industry Association

China Rubber Industry Association

China Association for Mechatronics Technology & Application

China Foundry Association

China Heat Treatment Association



行业 INDUSTRY



2014年模具行业

- ★模具是零部件制造的工艺装备，完成了从技能型向技术型的全面转变；智能制造、模具制造自动化生产线、模内转印技术、模内装配技术与装备、激光加工等技术在行业内被积极采用；加强逆向工程、检测与过程控制已是竞争力的体现；模具行业固定资产投资与模具增长的产值比例全行业平均为1:1到1:1.5，甚至1:2，固定资产投资中，模具制造设备的投入在70%以上（2013年模具销售额增长140亿元，模具企业设备的购买在150亿元左右）。
- ★企业具备了零件成形整体解决方案和工程服务等能力。企业、产品转型升级逐步深化；
- ★是高新技术也是时尚技术的载体，担负着多样化市场需求的量产保障；
- ★单件制造，关联性高、涉及面广；
- ★是零件设计制造量产、制造工艺实现的关键技术节点；
- ★是系统工程，集成创新的能力的全面反映，是整合性高的行业；
- ★是与成型工艺一体化的产品（模压一体、模塑一体、冲压激光一体 甚至在模具配件上模内攻牙也是一体化的方向）；
- ★产业延伸：模具下延直接为下游提供模具制件，上延在原有的模具造型设计、结构设计、编程设计等介入产品的外观设计、结构设计、造型设计。模具企业进入产品设计开发，原型制造的运用越来越普遍；
- ★担负着新材料成形、节能节材新工艺市场需要的制造装备的响应。

2014 China's Mould Industry

- ★ Die & Mould is the process equipment of component and part manufacturing, completing the comprehensive transformation from skill-oriented to technology-oriented; intellectual manufacturing, Die & Mould manufacturing automatic production line, in-mould-decoration technology, in-mould assembly technology and equipment, and laser processing are widely applied in the industry; Intensifying reverse project, detection, and process control have been reflection of competitive force; the rate of fixed asset input and Die & Mould growth output in Die & Mould industry is from 1:1 to 1:1.5, even 1:2. In fixed asset investment, the input of equipment of Die & Mould manufacturing accounts for over 70% (in 2013, the sales amount of mould increased by 14 billion Yuan, and procurement of mould enterprise equipment was about 15 billion Yuan).
- ★ Die & Mould enterprises has the capability of overall solution and engineering service of component forming. The enterprise and product transformation and upgrading have been deepened gradually;
- ★ It is not only high-new technology, but also the carrier of fashion technology, which provides mass production guarantee for requirements of diversified market;
- ★ Component manufacturing is highly related and has wide scope;
- ★ It is the key technology which realizes mass production and manufacturing process.
- ★ It is comprehensive reflection of systematic project and integrated innovation. It is high-integration industry;
- ★ It is the product of moulding process integration (Die & Mould pressing integration, moulding integration, stamping laser integration, and even internal mold tapping integration);
- ★ Industry extension: Die & Mould directly provides Die & Mould workpieces for downstream and provides appearance design, structure design and modeling design for upstream on the basis of original Die & Mould design, structure design, and programming. More and more Die & Mould enterprises engage in product design development and prototype manufacturing;
- ★ Meet the requirements of new material forming and energy saving materials, etc.



市场 MARKET



世界机床工具行业

2013年机床工具累计进出口额256.2亿美元，同比下降12.9%；其中出口额95.3亿美元，同比增长3.2%；进口额160.9亿美元，同比下降20.2%。进出口逆差65.6亿美元，同比下降40.1%。机床工具产品2013年出口95.3亿美元，同比增长3.2%。

金属加工机床

金属加工机床进口101.0亿美元，同比下降26.0%。其中数控机床进口82.1亿美元，同比下降26.5%。

金属加工机床出口28.6亿美元，同比增长4.4%；其中数控机床出口11.4亿美元，同比增长5.8%。

金属成形机床

金属加工机床中，金切机床进口79.9亿美元，同比下降28.4%；其中数控金切机床进口70.3亿美元，同比下降28.3%。成形机床进口21.1亿美元，同比下降15.5%；其中数控成形机床进口11.8亿美元，同比下降13.9%。

金属加工机床中，金切机床出口18.8亿美元，同比增长1.3%；其中数控金切机床出口9.2亿美元，同比增长3.2%。成形机床出口9.8亿美元，同比增长10.7%；其中数控成形机床出口2.1亿美元，同比增长18.4%。

中国模具应用行业

- ★2013年我国汽车产销2211.68万辆和2198.41万辆，比上年分别增长14.8%和13.9%。产销突破2100万辆创历史新高，再次刷新全球记录，已连续五年蝉联全球第一。汽车零部件及配件制造业销售收入总额超过2万亿元，出口超过3300亿元，在提供高精度、高刚度、高稳定性的模具同时，以模具为技术集合点的一体化控制技术将实现了汽车零部件内在品质，其高效成形、先进工艺的运用优势将给汽车零部件的发展提供保障；汽车轻量化制造技术与模具装备完美结合将为汽车工业长久发展提供更为巨大的空间。
- ★我国消费类电子产品2013年需求再次实现两位数增长，总体支出超过1.5万亿美元。其中智能手机和平板计算机将占到全球整体科技产品消费支出的40%。用于个人和家庭与广播、电视有关的音频和视频产品：电视机、影碟机（VCD、SVCD、DVD）、录像机、摄录机、收音机、收录机、组合音响、电唱机、激光唱机（CD）等；电话、个人电脑、家庭办公设备、家用电子保健设备、汽车电子产品以及数码相机、手机、PDA等产品新兴的消费类电子以及通讯发射基站、大规模集成电路等信息技术、金融消费电子设施等所需的高速、精密、高效、复杂复合（多腔、多列）、高性能成形模具将发展越来越快。
- ★飞机高密度抗阻燃内饰件模具成套技术、蒙皮模夹具工艺保障；新兴节能建筑材料塑料成形模具、陶瓷模具；轨道交通装备关键核心部件，如牵引系统、制动系统、转向架、运控系统锻模、压铸模将迎来发展的黄金期。

Machine Tool

In 2013, import and export of machine tool were 25.62 billion USD, a year-on-year decrease of 12.9%; thereinto, export was 9.53 billion USD, a year-on-year increase of 3.2%; import was 16.09 billion USD, a year-on-year decrease of 20.2%. The trade deficit of import and export was 6.56 billion USD, a year-on-year decrease of 40.1%. The export of machine tool products was 9.53 billion USD in 2013, a year-on-year increase of 3.2%.

Metal processing machine tool

The import of metal processing machine was 10.1 billion USD, a year-on-year decrease of 26.0%. Thereinto, the import of numerical control machine tool was 8.21 billion USD, a year-on-year decrease of 26.5%.

The export of metal processing was 2.86 billion USD, a year-on-year increase of 4.4%; thereinto, export of numerical control machine tool was 1.14 billion USD, a year-on-year increase of 5.8%.

Metal Forming Machine Tool

In metal-processing machine, the import of metal-cutting machine tool was 7.99 billion USD, a year-on-year decrease of 28.4%; thereinto, the import of CNC metal-cutting machine tool was 7.03 billion USD, a year-on-year decrease of 28.3%. The import of forming machine tool was 2.11 billion USD, a year-on-year decrease of 15.5%; thereinto, the import of CNC forming machine tool was 1.18 billion USD, a year-on-year decrease of 13.9%.

In metal-processing machine tool, the export of metal-cutting machine was 1.88 billion USD, a year-on-year increase of 1.3%; thereinto, the export of CNC metal-cutting machine tool was 920 million USD, a year-on-year increase of 3.2%. The export of forming machine tool was 980 million USD, a year-on-year increase of 10.7%; thereinto, the export of CNC forming machine tool was 210 million USD, a year-on-year increase of 18.4%.

Automobile, Electronic Products, Aircraft

★ In 2013, China produced 22.1168 million vehicles and sold 21.9841 million vehicles, a year-on-year increase of 14.8% and 13.9%. The production and sales exceeded 21 million vehicles, a new world record. China has ranked first around the world for five years. The sales income of automobile components, parts, and accessory manufacturing industry exceeded 2 trillion Yuan, and export exceeded 330 billion Yuan. While providing high high-precision, high-rigidity, and high-stability moulds, the integrated control technologies have realized inner quality of automobile parts and components. The application advantages of high-efficient forming and advanced process will provide guarantee for the development of automobile components and parts; the perfect integration of automobile lightweight manufacturing technologies and Die & mould equipment will provide vaster space for long-term development of automobile industry.

★ In 2013, the demands of China's electronic products increased by double-digit again. The total expenditure exceeded 1.5 trillion USD. Thereinto, smart phone and tablet personal computer accounted for 40% global overall consumption of technology products. The audio and video products related to individual, family, broadcasting, and Television include: television, VCD, SVCD, DVD, video tape recorder, camcorder, camcorder, radio, radio-cassette recorder, audio system, record player, compact disc, etc. The high-speed, precision, high-efficient, complex (multi-cavity and multi-column) and high performance forming die will develop faster and applied in the following areas: telephone, personal computer, family office equipment, household electronic health care equipment, automobile electronic product, digital camera, cellphone, PDA, communication launching station, large-scale integrated circuit, etc.

★ A set of technologies of moulds of aircraft high-density flame-retardant interior trim parts; process guarantee of fixture and Die & mould of skin; Die & mould and ceramic Die & mould of plastic forming of new energy-saving building materials; core parts of railway transportation equipment such as forging die and die-casting Die & mould of handling system, braking system, bogie, transportation and control system will develop by leap and bounds.



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机床 成形工艺与模具一体化展

Integration of Forming Technology, Machine Tool and Die & Mould

以中国久负盛名的工业制造类展览会——DMC中国国际模展为依托,2015年将打造**机床 成形工艺与模具一体化展**
原班机构 齐力倾情打造展商、观众期盼已久的高品质、同行业**单年展**



模具——聚焦日新月异的制造业国内外市场，支撑新兴战略产业的发展

Focus on domestic and international manufacturing industries; support the development of new & strategic industries

模具在机械汽车、电子、家电等制造业的提供工艺装备上的同时，七大战略性新兴产业服务及新能源、医疗器械、航空航天、节能减排等领域已成为模具行业重要的新领域。对于在航空航天、高速铁路城市轨道交通、船舶、新能源等领域要求的高强、高速、高韧、耐高温、高耐磨性材料的新的成形工艺及模具制造中重要突破也成为行业亮点。

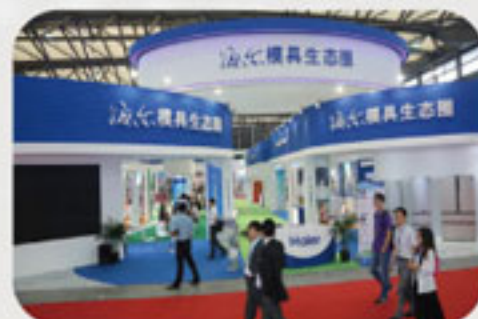
While providing techniques and equipment to machinery, automotive, electronic and home appliance industries, die & mould industry is also servicing 7 strategic emerging industries, including new energy, medical instrument, aerospace, energy-saving and emission-reduction. The industry highlights will be new forming and mold-making techniques that are required by high-strength, high-speed, high-tenacity, heat-resistant and abrasion-resistant materials processing in industry sectors such as aerospace, high-speed railway, urban railroad, ship-building and new energy.

工艺装备模具一体化——未来装备制造业中最重要的组成方式

Integration of Technology, Equipment and Die & Mould - the mainstream of future equipment manufacturing industry

以汽车轻量化、环保为主题的新一轮发展，带动以模具为支撑的上下游需求更加强劲。加工设备高速化、成型设备自动化、模压一体、注塑一体、模夹一体技术与生产线成为汽车装备的未来发展，展会以此为依托为用户全方位展示。

A new round of development, which has the theme of vehicle weight reduction and environmental protection, is creating a stronger demand on upstream and downstream industries supported by moulds. Higher speed of processing equipment, automation of forming equipment, integration of mould & press, integration of die & mould & plastics, integration of mould & fixture and the production line become the future development of the automotive equipment, which will make their all-round displays in the show.



密集宣传攻势及广泛全面的观众推广最大限度地扩大参展回报

Intensive advertising campaign and extensive visitor promotion maximizing your participation return

一系列市场推广活动，如全面的展会官方网站、行业协会网站、广告推广、直邮系统、公共关系活动、VIP重点邀请计划、电子快讯等都将在展前进行，向约50万专业观众持续保持展会高度曝光及知晓，从而将吸引约12万高质量专业观众及行业买家。

A series of marketing campaigns, e.g. printed ads, direct mail, official website, VIP and hosted buyer programs and e-newsletter will be launched before the show. The show publicity will cover an audience of 500,000 professionals and 120,000 professional visitors and buyers will be attracted to attend the event.



DMC 2014 回顾

REVIEW

第十五届中国国际模具技术和设备展览会

Die & Mould China 2014

80,000 m²的展出面积

展商分析

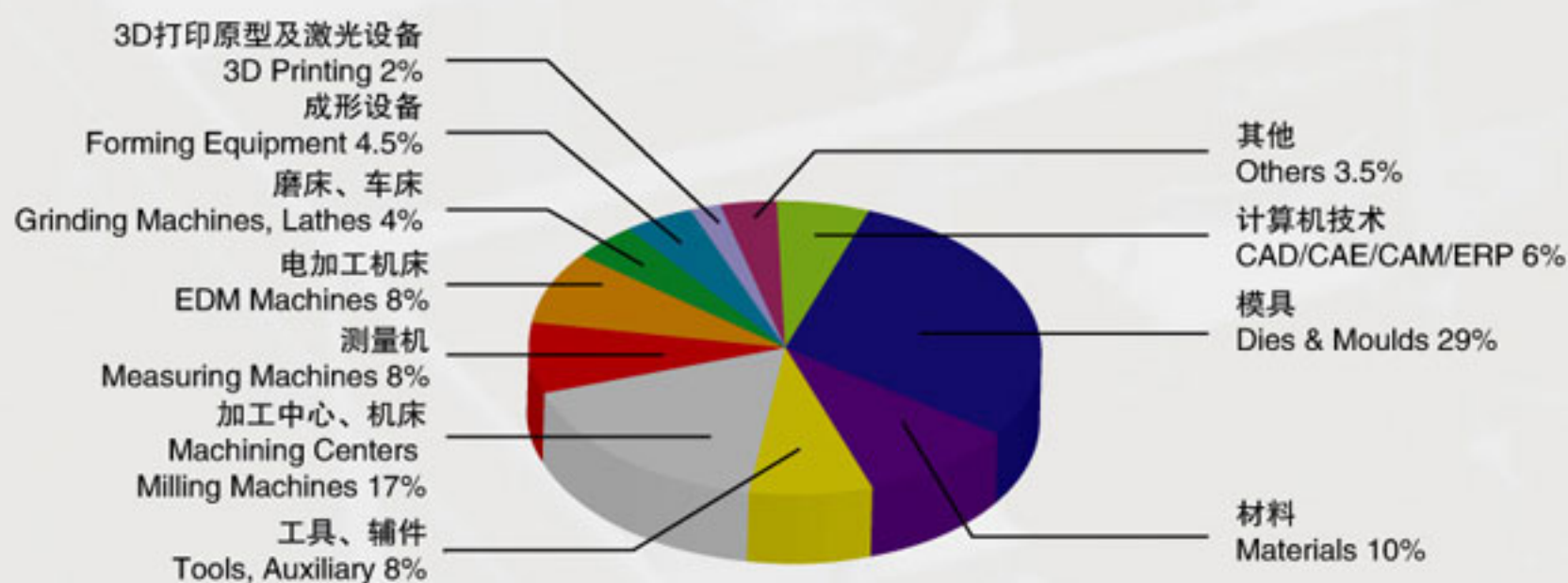
Analysis of Exhibitors

观众分析

Analysis of Visitors

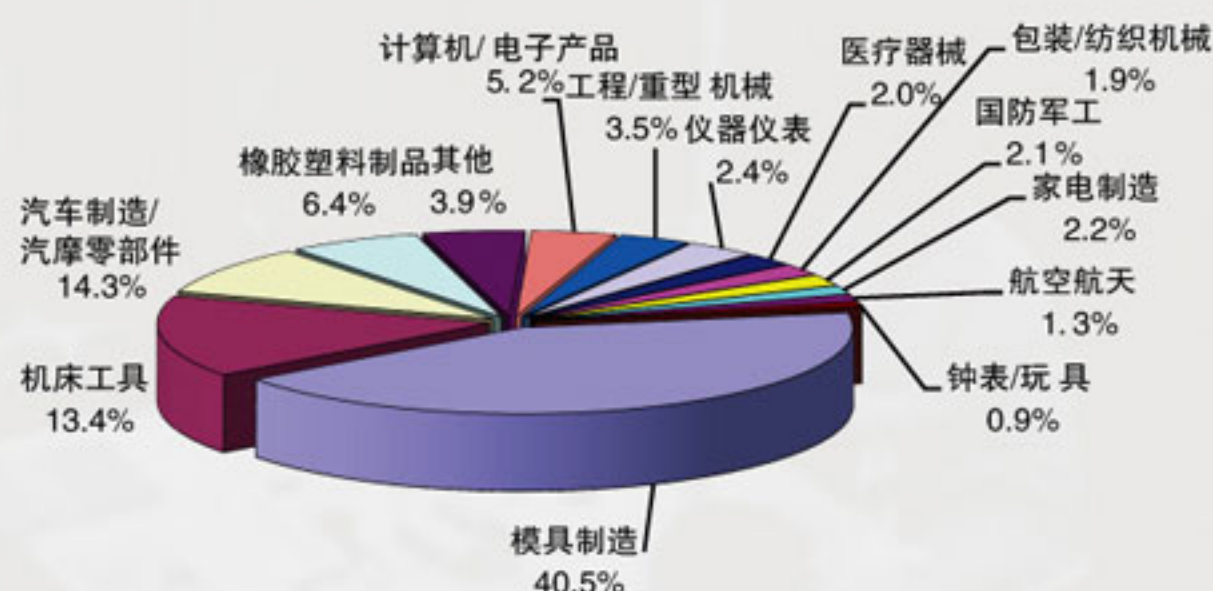
1,500 家展商参展 15 个国家和地区的展商及国际展团

1,500 companies and manufacturers from 15 countries and regions



81,842 人 41 个国家和地区

81,842 persons from 41 countries and regions



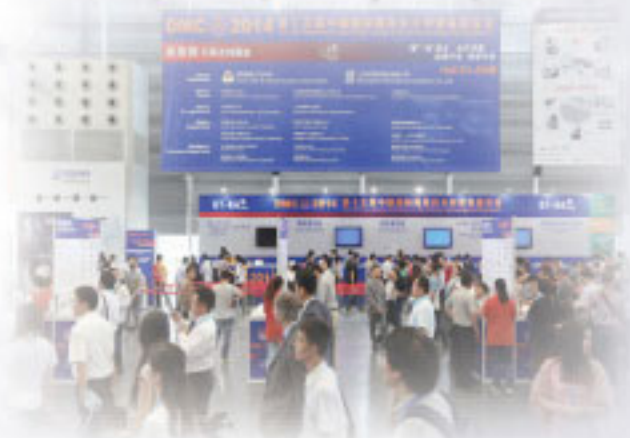
装备展品 (机床与模具)

Equipment Exhibits

- 五面、高速及各类加工中心、超精细加工机床、精密数控铣床、精密数控电加工机床、车床、磨床及高效复合机床、数控雕刻机, 刀量、刃具;
- 模具及模具制品、模具标准件、模具材料、冶金制品。
- 冲压设备、为汽车生产线及模具制造服务的高精度测量设备、激光设备、自动化设备、焊接装置, 在线测量装备与仪器、锻压设备、压铸机械将为重点。
- Five-axis machining center, high-speed machining center, super precision machine tools, precision cnc milling machine, precision cnc EDM, lathe, grinding machine, high-efficiency complex machine, cnc carving machine, cutting tools;
- Die and mould, standard mould, mould material, metallurgy product.
- Stamping machine, high precision measuring instrument for auto production line and mould production, laser equipment, automation equipment, welding equipment. Online measuring instrument, forging and pressing machine, die casting machine.

观众 Visitors

- 主办单位提供中国模具工业协会网上宣传, 在有关专业杂志、报纸等新闻媒体上宣传本届展览会, 并向国内用户的促销宣传活动等。
- 主办方将邀请约120,000人次的观众参观本次展览会。他们包括企业经营者、决策者、工程技术人员、专业观众、有潜在需求的买家。
- 展商特邀嘉宾



- Organizers provide online advertising service on CDMIA website, promote the exhibition in relevant media such as magazines and newspaper etc, and launch promotion towards local visitors.
- The Organizers will invite about 120,000 visitors from various parts of China to visit the exhibition. They are mostly endusers, potential buyers, decision makers, engineers and technicians.
- Visitors and buyers invited by Exhibitors

技术展品

Technology Exhibits

精细加工与复合加工制造技术、CAD/CAM/CAE设计制造模拟分析集成技术、自动化集成技术、柔性敏捷自动检测技术、逆向工程技术、快速成形技术、信息化管理技术提升企业竞争力。

Enterprise competency will be improved by utilizing precision & combined machining, CAD/CAM/CAE (design, production, simulation, analysis, integration), automated integration, flexible & agile automated testing, reverse engineering, rapid prototyping and information management.



展览期间行业活动

Conference

- 中国模协组织提升行业技术进步的大型活动
- 汽车等有关行业机构与中国模协组织的行业对接活动
- 中国模协有关委员会召开的交流和研讨会
详见随后通知

Conference of die mould companies organized by CDMIA

- Exchange activities jointly organized by automotive industry institutions and CDMIA
- Exchanges and discussion forums held by Sub-Committees of CDMIA
details will be notified

展览期间行业技术交流会

Seminars

技术交流会: 建议展商在展览会期间举行相关产品的技术、解决方案案例的交流。每场技交会 (约2小时) 收费5,000-7,000元人民币, 供支付技交会会场及有关设备费用。

It is strongly recommended that exhibitors give seminars on their products and technology during the exhibition. Exhibitors will have to contribute RMB5,000-7,000 for each seminar (about 2 hours duration) towards the cost of arranging their seminars, including invitations to Chinese audience, the renting of the seminar room.

垂询或索要资料:

中国模具工业协会

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