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高品质压铸模具供应商
HIGH QUALITY DIE CASTING MOULD SUPPLIER
Exquisite Automotive Systems Co., Ltd (referred to as EA), with headquarters located in Baoding, Hebei Province and registered capital of 1 billion RMB have annual output value of 13.5 billion RMB and more than 11000 staff. Its service has been divided into three divisions and eight major business according to the characteristics of the process. It has one R&D center and 16 manufacturing plants, which located in Hebei Province, Tianjin, Jiangsu Province and Chongqing.

The process technology includes cold stamping, hydraulic forming, welding, e-coating, machining, module assembly, aluminium alloy casting, mould casting, hot forming, rolling, mould design and manufacturing, design integration of automation equipment and material recycling and reusing, etc.

Its products cover parts of chassis system, vehicle body system, powertrain system and transmission system, and automatic production equipment.
Established in 2005, Baoding Exquisite Auto Mould Technology Co., Ltd (Shorted as BEM), with well-rounded technology plan and project management experience, has been focused on the development and manufacturing of automotive power train, transmission and structure mould for more than 10 years.

Covering 13,000m², BEM has 245 employees with annual output of 200 sets and its total value has reached 160 million RMB in 2018.

We are committed to build the mould of high quality and high efficiency, keeping innovating our management and technology plan. With the pursuit of high quality and short cycle, we can help customers improve product competitiveness.

In 2009, BEM successfully developed straight cylinder and 4 cylinder block mould.

In 2007, BEM successfully developed manual clutch mould.

In 2010, BEM successfully developed 3 and 4 cylinder block mould.

In 2012, BEM employees increased to 160 with annual output of large-sized mould over 50 sets.

In 2013, BEM completed the development of the first domestic 7DCT mould, qualification rate of 1st tryout reached leading level.

In 2015, BEM successfully developed structure mold of shock tower.

In 2016, BEM successfully developed new energy automobile motor shell mould and successfully developed structure mold of shock tower.

In 2018, BEM conducted multiple new energy automobile motor moulds, successfully developed structure mold of shock tower.
精工模具分公司位于有“北控三关，南达九省，襟辅重地，
都南屏翰”之赋的河北省保定市，属于京津冀地区的中心城市之一。
距高铁站 5KM，距京港澳高速入口 7KM，距北京机场 191KM，距正定机场 114KM。自然风光秀美，交通便利。
BEM is located in Baoding, Hebei province which is one of central cities of Beijing, Tianjin and Hebei and also famous for its splendid scenery and convenient transportation. It is 5KM away from high-speed railway station, 7KM from entrance of Beijing-Hongkong-Macao Expressway, 191KM away from PEK Airport,114KM away from Zhengding Airport.
BEM 提供的产品与服务
Products & Services

1. 产品同步开发
   Product SE
   - 模样设计
     Pouring Design
   - 填充分析
     Filling Analysis
   - 膨胀分析
     Warpage Analysis
   - 温度场分析
     Temperature Field Analysis
   - 模具强度分析
     Mould Intensity Analysis
   - 2/3D 设计
     2/3D Design

2. 设计
   Design
   - 模具加工
     Mould Machining
   - 模具装配
     Mould Assembly
   - 模具抛光
     Mould Polish
   - 模具检测
     Mould Test
   - 模具试模
     Mold test
   - 提供小批量样品
     Provide Small Batch of Samplings
   - 产品检测（CMM CT X 光）
     Product Inspection (CMM CT X-ray)
   - 样件五轴加工
     5-axis Machining for Sampling

3. 制造
   Manufacturing
   - 模具医生，技术支持
     Mould Doctor, Technology Support
   - 售后
     After-sales
   - 模具延寿维修及保养
     Extended Warranty & Maintenance
   - 模具最终阶段保养
     Maintenance for Final Stage
   - 提供备件
     Spare Parts Service

注：这些服务项目同时也可以单独的向客户提供，满足客户不同阶段的差异化需求。
Note: these services at the same time also can separate to provide customers, meet customer demand at different stages of differentiation.
Adjustment of company strategy. Our company will constantly increase the investment on development and technology in the next 5 years and achieve the target of 40% business share of new energy and structural products by 2025.
2018年起精工模具聚焦核心产品，收缩部分产能，专注品质经营等策略，有效支撑未来五年规划的目标。
Since 2018, in order to better support the target for the next 5 years, BEM started to focus on its core products, shrink part of production capacity and concentrate on product management strategy.
**Technical configuration:** Equipped with advanced CAE, CAD, CAM softwares such as Anycasting, Abaqus, UG, CATIA, Tebis, Worknc, we can carry out the development work 9 sets of dies at the same time. Having 57 die structure and tooling invention patents, 123 utility model patents.

**CAE accuracy:** Through differential meshing, realize high precision analysis; Analyze the warpage trend and amplitude of the part, implement pre-deformation compensation and deformation constraints to ensure dimensional accuracy.

**Casting internal quality assurance:** Innovation on core-pulling structure, local pressurization technology, the application of various vacuum die casting technology, ensure the quality of castings.

**Mould strength analysis:** Through ABAQUOS analysis, simulate the state of the die production process, and analyze the deformation and strength of the die in advance to prevent the flash and cracking problems.
<table>
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<tr>
<th>Equipment Name</th>
<th>Brand</th>
<th>Model</th>
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</table>

**Manufacturing precise planning**

Customer technical requirement: identify product characteristics and conversion to the corresponding mold parts, the process control of the special characteristics.

**Covered the whole process: die parts process 100% coverage, to direct production technology, reduce process variation**

**High precision manufacturing technology**

Consistency: mould accuracy control of individual parts + dimension chain control, support digital equipping, ensure consistency of BEM mold manufacturing

**Deep hole ball head treatment**: deep hole drill ball head five-axis machining process and control.