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FOSHAN BOZE
ENVIRONMENTAL PROTECTION
TECHNOLOGY CO.,LTD

佛山市博泽环保科技有限公司

GUANGDONG SHUNDE
ZHONGZE MOULD CO., LTD

广东顺德中泽模具有限公司

CATALOG



CORPORATE CULTURE 公司介绍

Guangdong Shunde Zhongze Mold Co., Ltd. is a comprehensive company that integrates design and manufacturing. The company has more than 30 CNC and various mold auxiliary equipment, and the entire team has transitioned from the injection mold industry to the rotational molding industry for more than 10 years. And the ingenious structure and high standards of injection molds are integrated into the rotational molding mold. After years of technological precipitation and innovation, manufacturing standards belonging to Zhongze have been formulated.

The company adheres to the business philosophy of "customer-centric, integrity as the principle", and is deeply trusted by major customers with its product quality and professional service, winning good reviews in the industry.

广东顺德中泽模具有限公司是一家设计与制造于一体的综合公司，公司拥有CNC和各种模具辅助设备30多台，整个团队人员从注塑模具行业转型到滚塑行业10年有余。并将注塑模具的巧妙结构与高标准融入滚塑模具中，经过多年技术沉淀与创新，已制定属于中泽的制造标准。

公司秉承“以客户为中心，诚信为原则”的经营理念，凭借自己的产品质量和专业的服务深受广大客商信赖，在业界博得好的评价。

30⁺

The other supporting equipment
模具辅助设备

10⁺ YEARS

Industry experience
行业经验

EQUIPMENT INTRODUCTION 设备介绍

5 AXIS MACHINE

5轴机



we have the advanced equipment 5 axis CNC machine to make sure the products cutting and trimming in superior quality .

我们有一台先进的五轴CNC切割机器，实现产品的完美切割与加工

5-axis machining CNC machine tools can control three linear coordinate axes and two rotary coordinate axes at the same time, so that the tool and the workpiece can be in accordance with the prescribed trajectory for cutting and machining.

五轴加工数控机床可以控制三个直线坐标轴和两个旋转坐标轴同时运动，使刀具和工件能够按照规定的运动轨迹进行切削加工。

As a high-tech, high-precision machine tool system specializing in the machining of complex surfaces, 5-axis machining centers have a significant impact on industries such as aerospace, scientific research, precision instruments, and high-precision medical

五轴加工机床作为科技含量高、精密度高、专门用于加工复杂曲面的机床系统，对航空航天、科研、精密器械、高精医疗设备等行业有着举足轻重的影响力。

We provide machining services for industries such as automotive parts, drone parts, automation parts, aerospace parts, medical device parts, and more, using 5-axis CNC machining to create customized parts and products.

我们为汽车配件，无人机配件，自动化配件，航空配件，医疗设备配件等行业提供加工服务，使用五轴CNC加工来制造定制配件和产品。

3 AXIS CNC MACHINE

3轴机

Our company has 8 sets of 3 axis CNC machines, the other supporting equipment over than 30 pcs.

我们有8台三轴CNC，其他配套设备超过30台。

Our company specializes in the manufacturing and processing of various molds, such as auto parts, rotomolding plastic furniture, cooler box, water tank and so on. Our company use Aluminum 6061 or Aluminium A356 to make molds, and the surface treatment can be Polish, Mirror polish, Texture.

本公司专业制造和加工各种模具，如汽车零部件、滚塑塑料家具、冷藏箱、水箱等。我们使用铝6061或铝A356制作模具，表面处理有普通抛光、镜面抛光和纹理处理。



You can provide the design drawings, and our team will propose professional modifications and other technical support, so that you can avoid the mistake during the production.

您可以提供设计图纸，我们的团队将提出专业的修改意见和其他技术支持，从而避免您在生产过程中出现失误。

Special points:

优势:

- Strong engineering with superb processing capability
工程实力强大，有超强的加工能力
- Customized products according to customer requirements
• 能根据客户要求定制产品
- Own rotomolding factory
• 有自己的滚塑成型厂



ROTOMOLDING MACHINE

滚塑机



We have 3 rotomolding machines, including tower rotating rotomolding machine and shuttle rotomolding machine. The three stations of heating, cooling and disassembling realize the assembly line operation, which has high output and is suitable for the production of rotomolded products of various sizes, and has the function of storing the process flow, which is convenient for the production management in the future.

我们有3台滚塑机，其中包括塔式转式滚塑机和穿梭式滚塑机，加热、冷却、拆装三个工位实现流水线式操作，

The size of our workshop is more than 5000 square meters, with strong product productivity and warehousing capacity, which gives us great support to export our products both at home and abroad.

我们的车间规模超过5000平，拥有强大的产品生产力和仓储能力，给我们的产品远销国内外提供了极大的支持。

Adhering to the business principle of mutual benefits, we have had a reliable reputation among our customers because of our professional services, quality products and competitive prices. We warmly welcome customers from home and abroad to cooperate with us for common success.

秉承互惠互利的经营原则，我们以专业的服务、优质的产品和具有竞争力的价格为客户中赢得了可靠的声誉。我们热忱欢迎国内外客户与我们合作，共创辉煌。

Special points:

优势:

- CNC machines working times : 24 hours.
• CNC机器24小时不停运转
- CNC worker work 12 hours continuously.
• CNC工人12小时轮班工作
- Material is environmentally friendly LLDPE / HDPE / XDPE / other customized materials
• 使用的材料是环保LLDPE / HDPE / XDPE / 其他客户定制材料
- Effectively meet the various customization needs of customers
• 有效满足客户各种定制化需求

ENGINEER INTRODUCTION

工程师简介



JINGYU XIONG »
熊静宇

With more than 15 years of experience in rotomolding mold manufacturing, he is responsible for the technical analysis and solution of technical difficulties in the process of new product development, formulating the corresponding process plan and production plan according to the customer's demand and implementing the completion of the process, and is responsible for the introduction and improvement of new technology, as well as the introduction of new equipment and other technical work.

拥有超过15年的滚塑模具制造经验，负责对新产品研发过程中的技术难点进行技术分析和解决，根据客户需求制定相应的工艺方案及生产计划并实施完成，负责新技术引进、改进，以及新设备引进等技术工作。



FANZHANG ZHAO »
赵凡章

With more than 15 years of experience in rotomolding process, mold technology, research and development, familiar with product material selection, trial production and new product improvement work, responsible for formulating and modifying the material consumption amount of the product, responsible for exploring the application of new material, new process and new technology to the product.

拥有超过15年的滚塑工艺、模具技术和研发的经验，熟悉产品材料选择、试制和新产品改进工作，负责制定、修改产品的材料消耗额，负责探索对产品进行新材料、新工艺、新技术的应用。



JINJUN YANG »
杨金军

With more than 20 years of experience in product design, he is responsible for product structure design, component selection and completion of design drawings. Proficient in mechanical structure action principle, automation control principle, proficient in mechanical and electrical installation drawings, and provide technical guidance on the installation and commissioning process. 拥有超过20年的产品设计经验，负责产品结构设计、部件选型以及设计图纸的完成。精通机械结构动作原理、自动化控制原理，精通机械和电气安装图，并对安装调试过程提供技术指导。



CHENGXIN LIU »
刘成新

With more than 12 years of experience in mold machining, familiar with the operation and programming of various CNC machines, solving the technical problems in the production process, responsible for determining the production and processing process, managing the workshop and supervising the production data in order to ensure the continuous and stable high-quality production and processing of molds and products.

拥有超过12年模具机加工经验，熟悉各种CNC机器的操作与程序编写，对生产过程中的技术问题进行改进和改善，负责确定生产加工工艺、管理车间并监督生产数据，以确保模具和产品持续稳定的高质量生产加工。



LIN LI »
李霖

With more than 12 years of experience in mold design, responsible for selecting the applicable structure and process for the design solutions proposed by the design department, familiar with rotomolding parameter setting and adjustment, responsible for the daily inspection and rectification of the work execution of each position in the workshop.

拥有超过12年模具设计经验，负责针对设计部门提出的设计方案，选择适用的结构及工艺，熟悉滚塑成型参数设定和调整，负责车间各岗位工作执行情况的日常检查和整改。

PROFESSIONAL TEAM

专业团队



MOLD COLLECTION

模具合集



AUTO PARTS MOLD



TOOL BOX MOLD



SPEAKER MOLD



SLIDE MOLD



SCRUBBER MOLD



MOTORCYCLE MOLD



MARINE PRODUCTS MOLD



KIDS FURNITURE MOLD



FURNITURE MOLD



FUEL TANK MOLD



COOLER BOX MOLD



SLIDE MOLD KIDS FURNITURE
MOLD COOLER BOX MOLD

MILITARY BOX MOLD

军用箱模具

Rotomolding box with strong wear resistance, rotomolding box made of PE materials, unique rotomolding process, the box also uses stainless steel locking around the body, the performance of the product is more stable, with wear-resistant features, very suitable for military industries, after many collisions do not occur damage and so on.

滚塑箱具备耐磨性较强，滚塑箱PE材料制作而成的，独特的滚塑工艺，箱体周围还采用不锈钢锁扣，产品的性能比较稳定，具有耐磨性的特点，非常适用于军事各种行业，经过多次碰撞都不发生损坏等情况。

Military rotomolding box with airtight, the internal structure of the box using the elastic waterproof sealing ring, can be a good response to higher or lower temperatures with oxidation resistance, have a long service life.

军用滚塑箱具备密闭性，箱子内部结构使用了弹性防水密封圈，可以很好地应对较高或较低的温度具有抗氧化性，有较长的使用寿命。

At the same time, the sealing ring can be waterproof and dustproof, which can provide great help for the harsh environmental conditions in the military industry.

同时，密封圈可以有地防水、防尘，对于军事行业中恶劣的环境条件来说能够提供很大的帮助。



COOLER BOX MOLD

保温箱模具

Features: 特点:

Heat and cold resistance: The insulation box has high requirements for heat and cold resistance, it will not be deformed in high temperature water, and can even be sterilized by boiling water.

耐热耐冷: 保温箱对耐热性耐冷性的要求比较高，在高温的水中不会变形，甚至可以用沸水消毒。

Durable: good impact resistance, heavy pressure or impact is not easy to break, will not leave scratches, can be used for life.

耐用: 具有好的耐冲击性，重压或撞击时不易碎裂，可终身使用。

Sealing: the most important point of the cooler box, good sealing is the memory of the food lasting freshness of the necessary conditions. The international sealing standard is to determine the humidity test to assess the quality of the insulation box than similar products to 200 times lower humidity, can keep things fresh for a longer period of time.

密封: 保温箱最重要的一点，好的密封性是内存食物持久保鲜的必要条件。国际上密封测定标准是以透湿度测试来评定的，优质的保温箱要比同类产品的透湿度低200倍，可以更长时间保持事物的新鲜。

Environmental protection: food-grade environmentally friendly LLDPE material, non-toxic, odorless, UV-resistant, not easy to change color.

环保: 食品级的环保LLDPE材料, 无毒无味、抗紫外线、不易变色。



POWER CABLE MANHOLE MOLD

电力井模具



Modular design can effectively reduce the cost of prefabrication, transportation and on-site mechanized construction, and shorten the construction period. Electricity wells and prefabricated cable wells in the production of materials, construction technology and cost, on-site assembly type construction abandons the traditional operation and changes the traditional on-site casting. Prefabricated power wells have fast construction speed, good integrity and good seismic performance. Good impermeability and other advantages.

模块化设计可以有效降低预制，运输和现场机械化施工的成本，并缩短工期。电力井和预制电缆井在生产材料，施工技术和成本方面，现场“积木式”组装式施工放弃了传统的现场“湿式”操作，改变了传统的现场浇筑。预制电力井的电气工作井施工速度快，整体性好，抗震性能好。良好的防渗性等优点。



Features:

特点:

Ridge width: 10mm Ridge height: 12.5mm

Tooling to generate the ridge and channel is tailor-made, by own CNC
牙宽: 10MM, 牙高: 12.5MM, 无加工刀具购买, 自已制作刀具CNC加工。

Size: Diameter 800MM Height 1000MM

规格: 直径 800MM 高 1000MM

MOULDS FOR MARINE PRODUCTS

海上用品模具



Features:

特点:

Rotomolded plastic marine products have strong corrosion resistance, very environmental protection, can be all recycled, through recycling, and become a new product, and the product is strong, build time is short, unlike traditional wood or fiberglass sinking or abandoned caused by the pollution of the sea area. The maintenance cost of plastic marine supplies is very low, and there is no rust, paint peeling pollution. Since the specific gravity of polyethylene is lower than that of water, people who fall into the water can climb or crawl onto it and wait for rescue.

滚塑海上用品抗腐蚀力强，非常环保，可以全部回收，通过再生利用，又变成一个新的产品，且产品牢固，打造时间短，不像传统木质或玻璃钢沉没或废弃后造成海域污染。塑料海上用品的保养费用很低，也不存在铁锈、油漆剥落的污染。由于聚乙烯的比重低于水，落水人可以攀附或者爬到上面等待救援。

Rotomolded marine products using a one-time integral molding process, has four unique advantages: high strength, buoyancy, impact does not break, into the water does not sink, safe and reliable; corrosion resistance, maintenance-free, service life is 2-3 times longer than wood and steel; light weight, energy saving, the same energy can be renewed for a longer period of time; non-toxic, non-polluting materials, recyclable, is conducive to protecting the environment.

滚塑海上用品采用一次性整体成型工艺，具有四大独特的优势：强度高、浮力大、撞击不破裂、进水不沉没，安全可靠；抗腐蚀、免维修，使用寿命是木质和钢质的2-3倍；自重轻、耗能省，同样的能源续航更长时间；材料无毒性、无污染、可回收，有利于保护环境。



TOILET MOULD

马桶模具

Rotomolded toilet seat, belonging to the field of building water supply and drainage materials, a sanitary ware. The main technical characteristics of this utility model toilet is: in the existing toilet S-type water storage bend upper opening, install a cleaning plug, similar to the installation of the drainage pipe on the inspection port or cleaning port to clean up the blockage, the toilet blockage, the user that is, the user can use this cleaning plug convenient, fast, hygienic removal of the blockage, economical and practical.

滚塑马桶坐便器，属于建筑给排水材料领域的一种卫生器具。此实用新型坐便器的主要技术特征在于：在现有坐便器S型存水弯上部开口，安装一个清扫栓，类似于排水管道上安装检查口或清扫口清理淤堵物一样，坐便器发生淤堵后，用户自己即可以利用此清扫栓方便、快捷、卫生地清除淤堵物，经济实用。



Special points:

优势:

- Use advanced 5-axis CNC machining, almost realize 0 errors
- 使用先进5轴CNC加工，几乎实现0错误
- Use special PE material, colorless, non-toxic and tasteless, excellent waterproof performance
- 使用特殊PE材料制作，无色无毒无味，防水性能优秀
- Using mirror polishing, the product is very smooth, does not hurt the skin
- 采用镜面抛光，产品十分顺滑，不伤皮肤
- Multi-component combination, easy to replace
- 多部件组合，替换方便

SPRAY MACHINE

喷雾机

Now, the use of rotomolding technology has been very widespread, in the car production category use is also expanding. Such as truck wing test pieces, rotomolded fuel tanks, miniature electric car cover pieces, air conditioning bends, vortex tube, backrest, armrests, fuel tanks, fenders, door frames, gearshift cover, battery shells, fuel tanks for Snowmass cars and motorcycles;

现在，滚塑技术的使用已经很遍及，在轿车制作范畴使用也在不断扩大。如货车翼子板试验件、滚塑燃油箱、微型电动轿车掩盖件、空调弯管、漩涡管、靠背、扶手、油箱、挡泥板、门框、变速杆盖、蓄电池壳体、雪山轿车和摩托车的燃料箱；

Fuel tanks for airplanes, yachts and their water tanks, boats and cushioning shock absorbers between boats and docks, plastic dock numbers. All of these have contributed to the research of all-molded lightweight body.

飞机油箱、游艇及其水箱、小舟以及船和船坞之间的缓冲吸震器、塑料码头号。这些都为全体成型轻量化车身的研讨做出了奉献。



In addition, due to the production process of the various components are in the high temperature and rotating process under the molding, unlike those formed under heavy pressure parts, so the rotomolding molds do not need to be as injection molding process also need to go through a special process to withstand the test of heavy pressure. It can be seen that the use of rotomolding process production of anti-corrosion equipment, not only in the cost of anti-corrosion equipment than other processes are more inexpensive, and can also have the same qualified pressure resistance. We have reason to believe that, for the future development of the industry's high output, rotational molding process is the market versatility is very high cost-effective choice.

由于制作过程中的各个部件都是在高温与旋转的工艺流程下成型的，不同于那些在重压之下形成的部件，因此滚塑模具不需要像注塑工艺那样还需要经过特别加工才可以经受住重压的考验。可见，利用滚塑工艺生产的防腐设备，不但在成本上比其他工艺生产的防腐设备更为低廉，并且能够同样地具备合格的抗压性能。我们有理由相信，对于未来行业的高产量发展而言，滚塑工艺是市场通用性极高的高性价比之选。

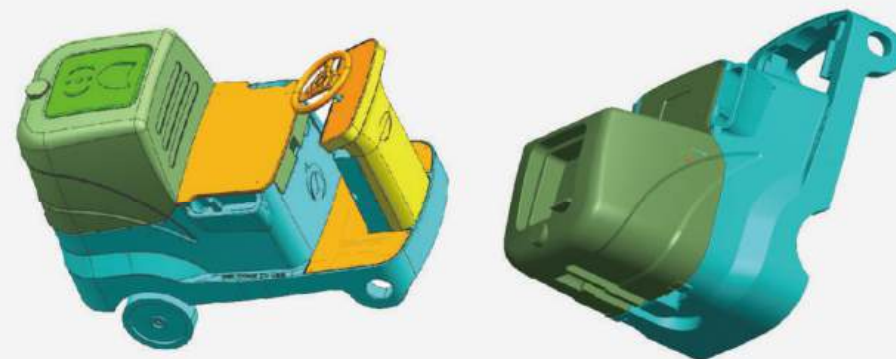
FLOOR SCRUBBER

洗地车模具



规格: 1600*850*1200 MM

PRODUCT SIZE: 1600*850*1200 MM



特点:

FEATURES:

Floor Scrubber Mould rotational molding process, the material is gradually coated, deposited onto the inner surface of the mold, the product for the mold cavity pattern and other fine structure has a strong ability to copy; at the same time, because the mold in the molding process is not subject to external pressure, can be directly used in precision casting and other methods of production with fine structure, complex shape of the mold.

洗地车模具滚塑成型过程中, 物料是逐渐涂覆、沉积到模具的内表面上的, 制品对于模具型腔上的花纹等精细结构有很强的复制能力; 同时由于模具在成型过程中不受外界的压力, 可以直接采用精密压铸等方法制取具有精细结构的、形状复杂的模具。

Floor washing car mold wall thickness is relatively uniform and chamfered slightly thick, so it can give full play to the effectiveness of the material, is conducive to saving raw materials; In addition, in the rotomolding process, there is no runner, gate and other waste, once debugged, the production process is almost no return material, so the process for the material utilization rate is extremely high.

洗地车模具的壁厚比较均匀且倒角处稍厚, 故能充分发挥物料的效能, 有利于节约原材料; 此外, 在滚塑成型过程中, 没有浇道、浇口等废料, 一旦调试好以后, 生产过程中几乎没回炉料, 因此该工艺对于物料的利用率极高。

Working Principle of Rotomold Scrubber: When the scrubber starts to work, a mixture of water and detergent is sprayed onto the floor from the fresh water tank, and then cleaned by the rotating scrubbing brushes/pads. As the machine moves forward, the suction skimmer will draw the dirty water from the floor into the clean water tank under the action of vacuum suction.

滚塑模具洗地机的工作原理: 洗地机开始工作后, 水和清洁剂的混合物从清水箱喷到地板上, 然后由旋转的清洗刷/衬垫进行清洁。机器向前移动时, 吸水扒在真空吸力的作用下会把地面上的脏水吸入到污水箱中。

FURNITURE MOLDS AND PRODUCTS

家具模具和产品



In recent years, plastic furniture presents a diversified and segmented trend. With the change in consumer attitudes and furniture demand for special features, diversification, plastic furniture by the younger generation, in recent years, many designers, rotomolded furniture companies have launched plastic furniture products rich in elements of the times, plastic furniture is gradually becoming a furniture giant to seize the "cake". Milan International Furniture Fair in recent years, there is no lack of plastic furniture figure, plastic furniture in foreign countries gradually become popular, more and more European young people love to dress up their homes with colorful plastic transparent furniture. With the growing concept of environmental protection, some good designers will be their avant-garde design concepts penetrate into the design of plastic furniture, the practical function of the furniture and the combination of aesthetic function.

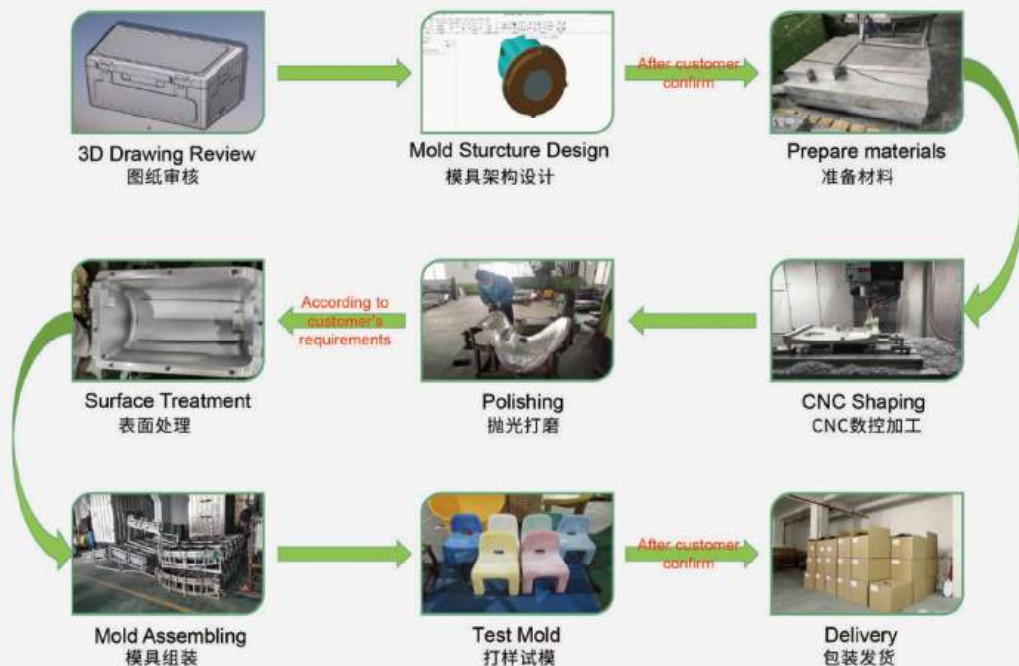
近年来,塑料家具呈现出多样化、细分化态势。随着消费观念的转变以及家具需求的特色化、多样化,塑料家具受到年轻一代的追捧,近年来不少设计师、滚塑家具企业相继推出富有时代元素的塑料家具产品,塑料家具正逐渐成为家具巨头抢占的“大蛋糕”。近几年米兰国际家具展上不乏塑料家具身影,塑料家具在国外逐渐流行起来,越来越多欧洲年轻人喜爱用色彩斑斓的塑料透明家具装扮家居。随着环保观念日渐增强,一些好的设计师将他们前卫的设计理念渗透到塑料家具的设计中,将家具的实用功能与审美功能结合。

Rotational molding furniture, such furniture through the mold production, the furniture itself has several different colors, at the same time, these chairs rotomolding mold shape modern and innovative, solid and reliable quality of the masses of outdoor furniture, and indoor home furnishing products in the use of the boundaries are increasingly blurred, greatly expanding the scope of its use, just in the ordinary consumer consumption point. Rotational molding, also known as rotational molding, rotational molding, rotational molding, rotary casting, rotary molding, etc., the molding method is the first measurement of plastic (liquid or powder) to join the mold, in the mold closed, so that it rotates along the two vertical axis of rotation, at the same time make the mold is heated, mold of plastic raw materials in the gravity and the role of thermal energy, gradually and evenly coated, fused adherence to the entire surface of the mold, molded into the same shape as the cavity, and then cooled and fixed.

滚塑家具,此种家具通过模具生产,家具本身有几种不同颜色,同时,这些椅子滚塑模具造型现代而新颖、质量坚固而可靠的大众户外家具,与室内家居产品在用途上的界限日益模糊,大大拓展了其使用范围,正中了普通消费者们的消费点。旋转成型又称滚塑成型、旋塑、旋转模塑、旋转铸塑、回转成型等,该成型方法是先将计量的塑料(液态或粉料)加入到模具中,在模具闭合后,使之沿两垂直旋转轴旋转,同时使模具加热,模内的塑料原料在重力和热能的作用下,逐渐均匀地涂布、熔融粘附于模腔的整个表面上,成型为与模腔相同的形状,再经冷却定型、脱模制得所需形状的制品。

HOW TO CUSTOMIZED

定制流程



FAQ

常见问题

Q1: What's your company's main products?

Q1: 主要产品是什么?

Our company is specialized in the rotational moulding moulds and rotational products. We can customized all kinds of rotomoulding products according to your requirements or 3D design drawing. 我们公司专业生产滚塑模具和滚塑产品，我们可以根据您的要求或 3D 设计图纸定制各种滚塑产品。

Q2: What is your delivery date?

Q2: 交货期是多久?

We need 35 days to make the molds and 7 days to test. The finish goods delivery date depends on the quantity of the order.

制作模具需要 35 天，测试需要 7 天。成品交货日期取决于订单数量。

TEFLON COATING

特氟龙工艺

Features: 特点:

Put the mold on the oven and keep the temperature to 300°C and 18 minute after cleanup the oil.

1. 模具除油，将模具放入烤箱恒温 300 度 18 分钟。

After sand casting, clean the dust.

2. 表面喷沙后清理干净粉尘。

Put mold in the oven and keep the temperature to 200°C and 20 minute after teflon coating

3. 上好底漆进烤箱恒温 200 度 20 分钟。

When the mold is cooling to 60-80°, teflon coating second time, and put the mold in the oven to keep the temperature to 300° and 25 minute.

4. 模具冷却至 (60-80) 度再上面漆，进烤箱恒温 300 度 25 分钟。



PATENT CERTIFICATE

专利证书



FACTORY SHOW

厂房展示

