



®

**MINGYANG  
HOT RUNNER**

名洋热流道科技



# **Company** 公司简介 *Introduction*

名洋热流道科技有限公司是一家专业的热流道系统供应商,公司集产品研发、生产、销售、售后于一体,致力于为客户提供一流的热流道系统和专业的热流道技术服务,以提高其在模塑行业中的竞争力。公司成立于2000年,座落于美丽的江南水乡-台州市,公司地理环境优越,位于上海经济区的南翼,北邻宁波、绍兴,南连温州,为中国著名的模塑基地。名洋热流道科技已得到模塑行业的使用和认可,并销往全球几十个国家。

名洋热流道科技是一家高科技,技术密集型企业,经过二十多年的努力,公司已积累了雄厚的技术实力。源自欧洲的生产工艺和技术,引进先进的管理方式和加工设备,使得公司产品性能稳定,深受客户好评。面对科技大潮,公司不断开发新应用领域的产品,以满足并推进模塑产业的快速发展,致力于成为全球一流热流道供应商。

我们的经营理念是“勇于创新、精益求精、诚信守诺”,希望与更多的模塑企业联手,共织宏伟蓝图、共铸辉煌。





# Company Introduction



Mingyang Hot runner Technology Co., Ltd. is a professional supplier for hot runner system, which is dedicated in supplying first class hot runner system as well as professional hot runner technology service by integrating with development, research, manufacture, sale and after-sale of products, in order to improve the competitiveness in moulding industry. Our company was founded in 2000 and situated in the beautiful Jiannan Watertown, Taizhou, which has a superior geographical environment (located in the south wing of Shanghai economic district, adjacent to Ningbo and Shaoxing in the north and connect Wenzhou in the south) and regarded as a famous moulding foundation in China. Mingyang Hot runners have been used and recognized by more and more moulding factories now, which have already sold to dozens of countries and regions around the world.

Mingyang Hot runner Technology Co., Ltd. is a technology intensive enterprise. Through the efforts of more than ten years, we have accumulated abundant technological strength. Combined with European production process and induced advance management method and equipment, the products performance is very stable, which received high praise from our customers. Besides, we are developing products for new fields all the time, so as to strive for satisfying and promoting the rapid development of moulding industry and dedicating in becoming top hot runner supplier in the world. Our operating concept is that, "Brave to innovate, make it better and keep promise", we hope to work with more moulding enterprises to wave great blueprint and create brilliant future together.





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**Marketing**  
市场营销







**Excellent Design Team**  
优秀设计团队



**Meeting room**  
会议室

Everyone proposes innovation to  
consolidate the core  
of the enterprise

人人提案创新  
凝聚企业核心







**Excellent Design Team**  
优秀设计团队





# HOT RUNNER Manufacturing Process

1. Pro/ENGINEER (3D Modeling)
2. SolidWorks (3D Modeling)
3. AutoCAD (2D Modeling)
4. MoldFlow Mold Advisor  
(Plastic flow/deform simulation)
5. MasterCAM (CNC Programming)
6. Unigraphics (CNC Programming)
7. CNC Machining Centers
8. CNC EDM's  
(Electro-Discharge Machining)
9. Wire-Cut Machines....Etc



**Workshop**  
生产车间

In the hot runner manufacturing process adhere to strict quality control, strive for perfection in each process, from top to bottom of the production process for excellence, to achieve the maximum value of products

在热流道制造过程中坚持严格的质量把控，在每一道工序上力求完美，自上而下对生产流程精益求精，实现产品价值的最大化。



## Workshop

生产车间

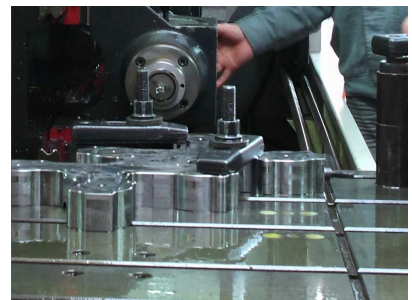


## Testing & Inspection Equipment

检测设备







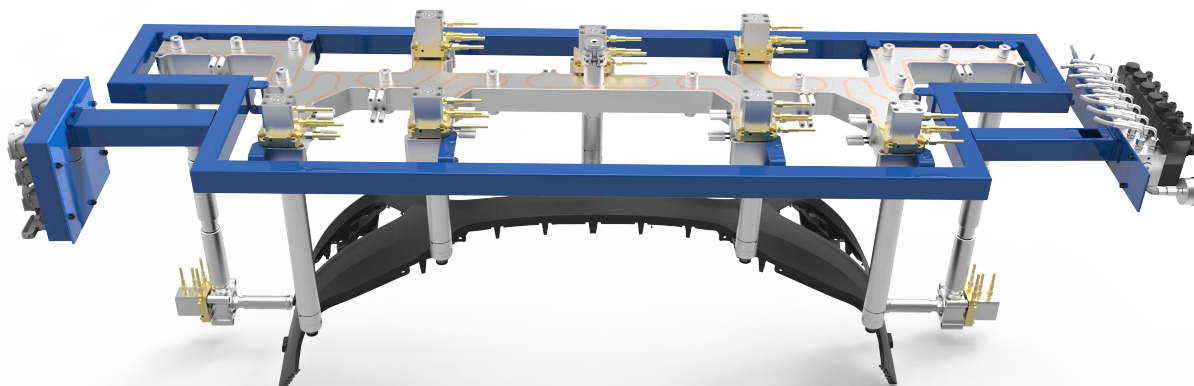
- 引进了国外先进的深孔钻、加工中心、数控车床等精密设备。
- Our factory is equipped with state of theart GunnDrill, Maching Center, CNC lathe etc.



**Workshop**  
生产车间

# The whole hot runner system

## 整体式系统



MYC-MOLD Valve System (整体式针阀式气压系统)

## Introduction of MYC-MOLD System MYC-MOLD系统简介

MYC-MOLD 热流道系统是装备了分流板，热咀，接线盒，气缸（油缸），发热圈，热电偶为一体的整体式热流道系统。

MYC-MOLD 系统广泛应用于汽车模具领域，其简单，快捷的安装方式深受客户好评。它大幅度降低了客户的加工难度，缩短了模具的交货周期，顺应了现代模塑的快速发展，必将为模塑企业的更好更快发展助一臂之力。

MYC-MOLD is an integrated hot runner system equipped with manifold, hot nozzle, terminal box air cylinder (oil cylinder), heating coil and thermocouple. MYC-MOLD system is widely used in the field of automobile tooling, which was well received by customer due to its easy and convenient installation. What's important, it can not only reduce the processing difficulty for customer, but also shorten the deadline of tooling, which can satisfy the rapid development of modern moulding, and help moulding enterprises to have a better and faster development in future undoubtedly.

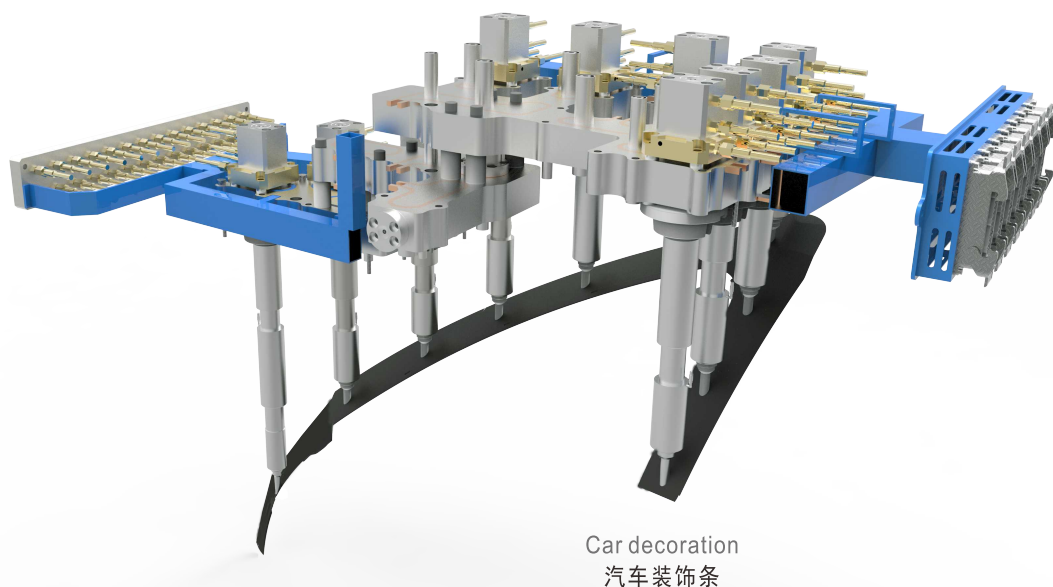


Bumpers  
汽车前保险杠

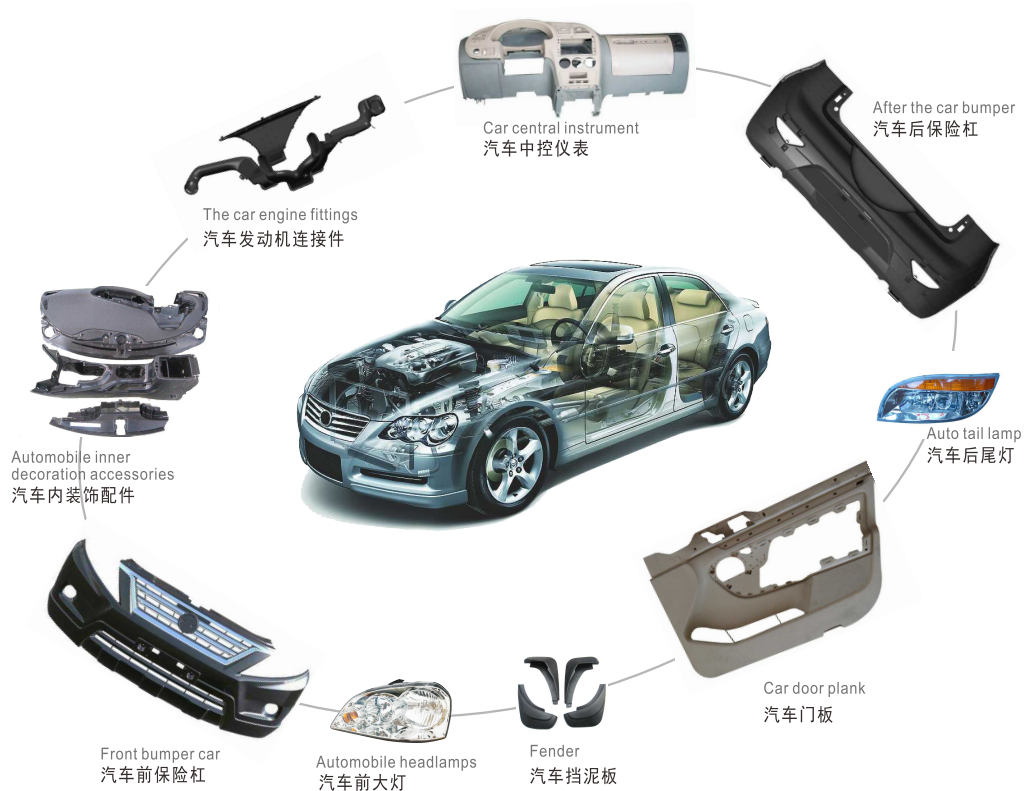


# The whole hot runner system

## 整体式系统



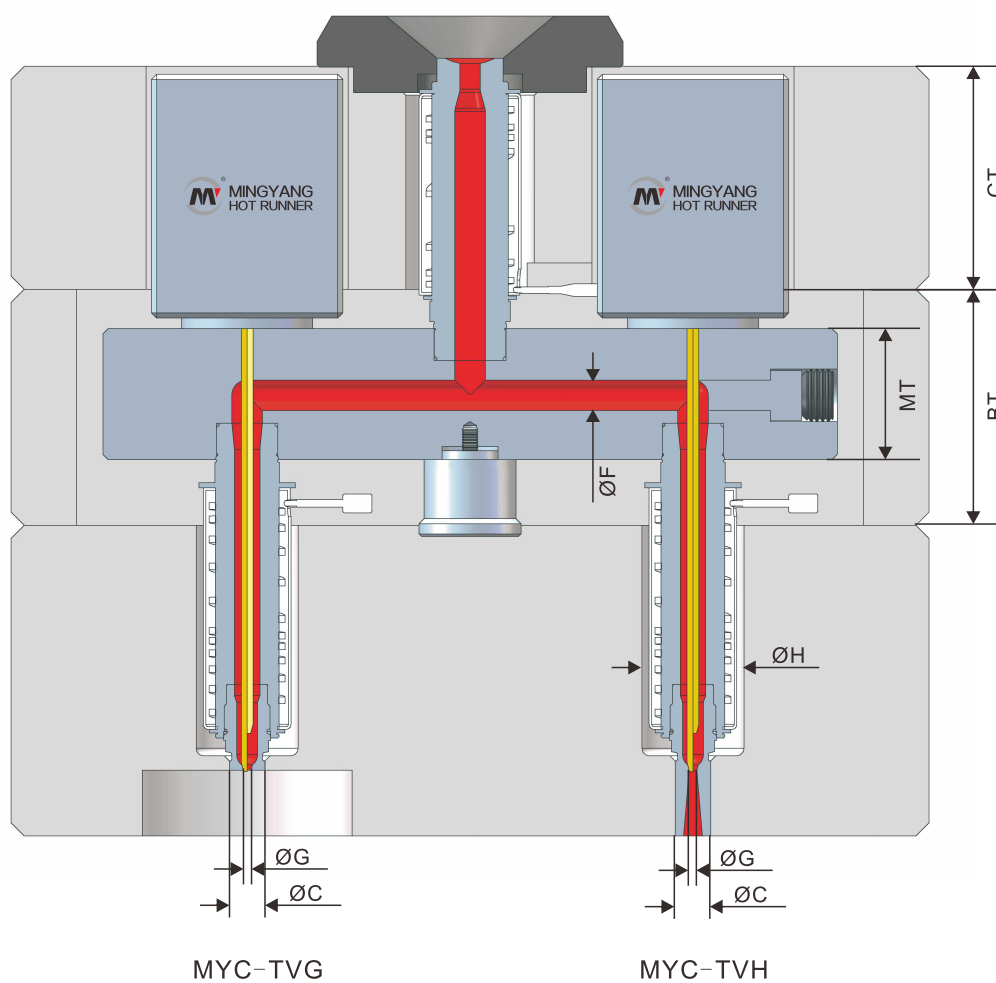
## Auto parts of plastic decoration 汽车配件中的塑料装饰件



# The whole hot runner system

## 整体式系统

Specification of MYC-MOLD System (MYC-MOLD系统简介)  
MYC-MOLD Valve System (整体式针阀式系统)



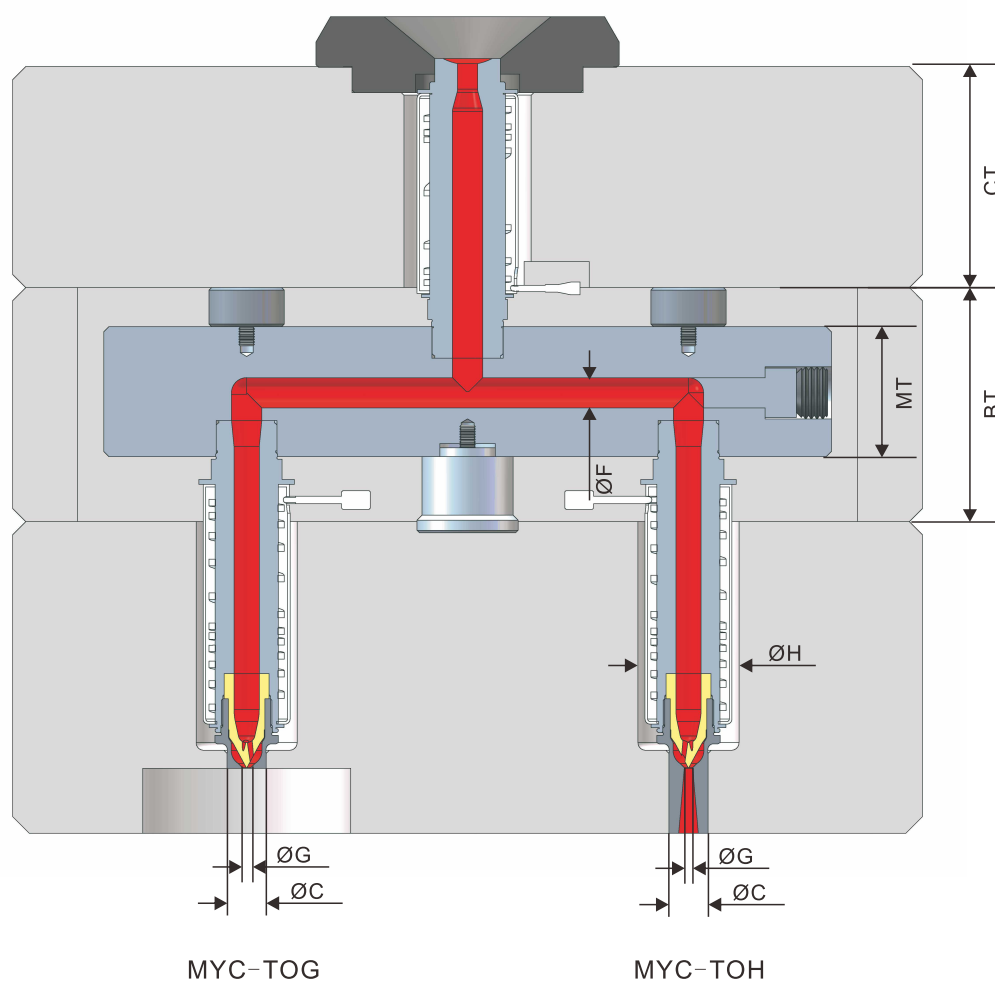
Specification of MYC-MOLD System  
MYC-MOLD 系统详细规格

Division	MYC25	MYC 35	MYC 45
	VALVE	VALVE	VALVE
Ø F	10	15/18	18/22
Ø G	1.5/2.0/2.5	4.0/5.0/6.0	5.0/6.0/7.0
MT	55/60		
BT	125/135		
CT	65		
Ø C	14	16/20	16/20
Ø H	40	50	60

# The whole hot runner system

## 整体式系统

Specification of MYC-MOLD System (MYC-MOLD系统简介)  
 MYC-MOLD Open System (整体式开方式系统)



Specification of MYC-MOLD System  
 MYC-MOLD 系统详细规格

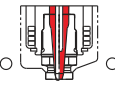
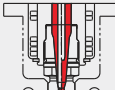

Division	MYC 25	MYC 35	MYC 45
	OPEN	OPEN	OPEN
Ø F	8/10/12	12/15/18	15/18
Ø G	2.0/3.0	3.0/5.0	4.0/5.0/6.0
MT	55/60		
BT	90/95		
CT	45/55		
Ø C	14	16/18	18/20/22
Ø H	40	50	60



# The whole hot runner system

## 整体式系统

### Gating Method of MYC-MOLD System MYC-MOLD 针阀式系统选择用方式

TPYE	APPLICATION
 MYC-TVG	1.Easy assembly and disassembly in a mold. 2.Wide application,poor gate vestige and post molding operation required. 3.Gate area maching of a mold is simple. 1.模具上容易组装及拆分。 2.广泛应用,极小的胶口痕迹及加速成型。 3.模具上胶口区域加工简单。
 MYC-TVH	1.Easy assembly and disassembly in a mold. 2.A sprue will be added on your product(TVH). 3.Gate area maching of a mold is simple. 4.The length of sprue can be adjusted by customer(TVH). 1.模具上容易组装及拆分。 2.会在你的产品上留有水口(TVH). 3.模具上胶口区域加工简单。 4.浇口的长度可根据客户需求作调整(TVH)。
 MYC-TVGH	1.Use for general valve system. 2.Gate area maching by customers. 1.具有点浇口的效果。 2.模具上胶口区域加工简单。



### Automotive 汽车产品



产 品：汽车保险杠  
材 质：PP  
热流道：八点整体针阀式  
Product : Bumpers  
Material: PP  
Hot runner: Eight points integrated needle valve type



产 品：汽车保险杠  
材 质：PP  
热流道：十点整体针阀式  
Product : Bumpers  
Material: PP  
Hot runner: Ten points integrated needle valve type



产 品：汽车前中网  
材 质：PP  
热流道：五点整体针阀式  
Product: Automobile front central mesh  
Material: PP  
Hot runner: Five points integrated needle valve type

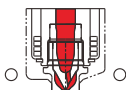
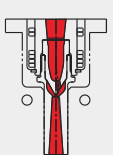



产 品：汽车保险杠  
材 质：PP  
热流道：八点整体针阀式  
Product : Bumpers  
Material: PP  
Hot runner: Eight points integrated needle valve type

# The whole hot runner system

## 整体式系统

Gating Method of MYC-MOLD System  
MYC-MOLD 开放式系统选择用方式

TPYE	APPLICATION
 MYC-TOG	1.Easy assembly and disassembly in a mold. 2.Wide application,poor gate vestige and post molding operation required. 3.Gate area maching of a mold is simple. 1.模具上容易组装及拆分. 2.广泛应用,极小的胶口痕迹及加速成型. 3.模具上胶口区域加工简单.
 MYC-TOH	1.Easy assembly and disassembly in a mold. 2.A sprue will be added on your product(TOH). 3.Gate area maching of a mold is simple. 4.The length of sprue can be adjusted by customer(TOH). 1.模具上容易组装及拆分. 2.会在你的产品上留有水口(TOH). 3.模具上胶口区域加工简单. 4.浇口的长度可根据客户需求作调整(TOH).
 MYC-TOGH	1.As perfect as dot gate. 2.Gate area maching by customers. 1.具有点浇口的效果. 2.浇口区域由客户加工.



### Automotive 汽车产品



产 品：汽车门板  
材 质：PP  
热流道：六点整体针阀式  
Product: Automobile door panel  
Material: PP  
Hot runner: Six points integrated needle valve type



产 品：汽车门板  
材 质：PP  
热流道：三点整体针阀式  
Product: Automobile door panel  
Material: PP  
Hot runner: Tree points integrated needle valve type

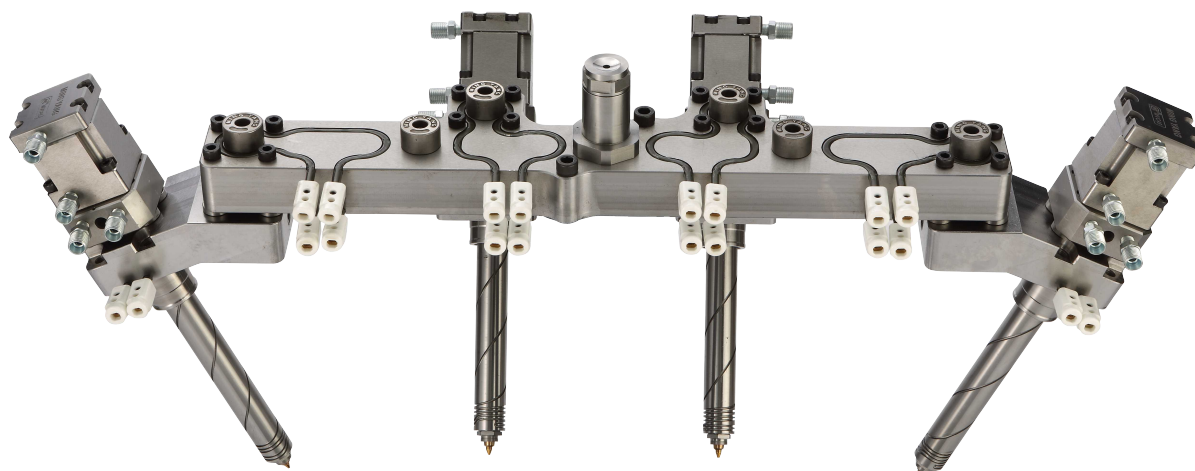


产 品：汽车前中网  
材 质：ABS  
热流道：三点整体针阀式  
Product: Automobile front central mesh  
Material: ABS  
Hot runner: Tree points integrated needle valve type



# The whole hot runner system

## 整体式系统



产 品：车灯  
材 质：PMMA  
热流道：二点整体针阀式

Product: Automobile light  
Material: PMMA  
Hot runner: Two points integrated needle valve type



产 品：汽车前灯  
材 质：PMMA  
热流道：二点整体针阀式

Product: Headlight of automobile  
Material: PMMA  
Hot runner: Two points integrated needle valve type

名洋热流道凭借多年热流道技术经验的研发了专适用汽车模具的MYC System, 整体的结构, 安装维护简单易用, 不断满足在汽车行业的领域求。

With many years of experience in hot runner technology, Mingyang developed and researched MYC system with integrated structure for automobile tooling specially, which can be installed and maintained simply and conveniently, and meet the requirement of automobile industry.



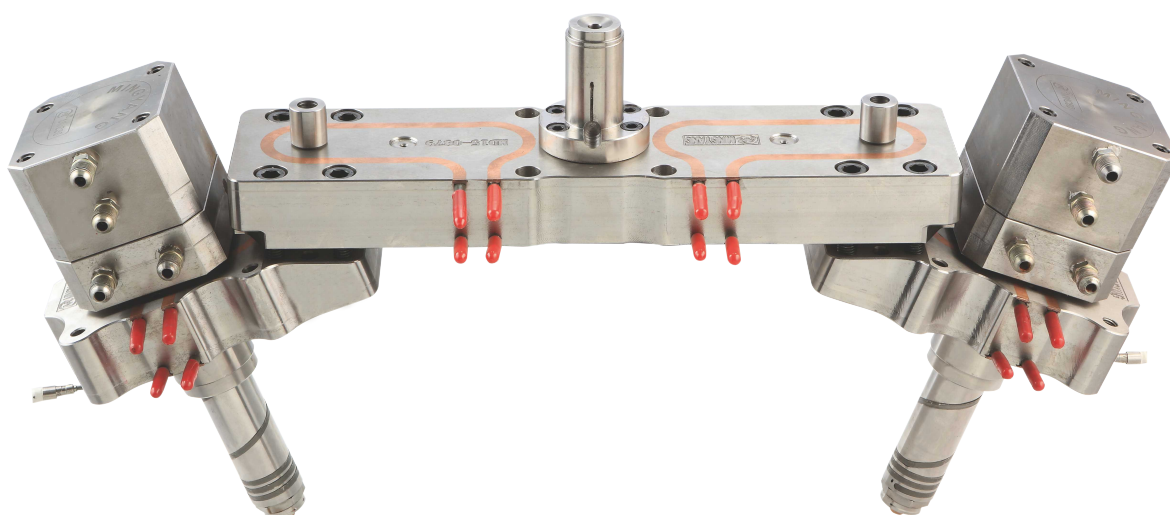
# The whole hot runner system

## 整体式系统



### Perfect solution 完美的解决方案

- ※ 浇品痕迹美观；
  - ※ 注塑压力损失小, 流道平衡；
  - ※ 最快速的换色效果；
  - ※ 为PMMA和PC材料提供特别形状的进胶口和热咀类型；
  - ※ 时序控制将熔接线推到最佳位置；
  - ※ 针阀弧形使产品更佳美观。
- 
- ※ Beautiful gate mark ;
  - ※ Small loss of injection pressure and balanced runner ;
  - ※ Fastest color change effect ;
  - ※ Provide special gate and nozzle type for PMMA and PC material ;
  - ※ Push weld line to the best position through sequential control ;
  - ※ Achieve beautiful appearance of product by arcuate needle vale.





## Side gate hot runner for medical parts series

### 医疗侧进胶热流道系列



名洋热流道公司医疗侧进胶系列是针对医疗类模具进行长期和深入的研究，与医疗类专业生产的模具厂家经过长期的合作，从实际制作过程中总结出大量实战经验，从而制定出一整套专业针对医疗类模具的标准，让用户可以在使用合理成本的情况下，得到更优质的产品，最专业的服务。

医疗类模具因其产品特殊性，对热流道开发要求高，医疗产品多维的结构特点，只有热流道侧浇口可以满足其特殊的侧面进胶和产品深腔部件的要求，如吸液管，注射针筒，针套，以及更小的部件。

Side gate series for medical parts of Mingyang Hot Runner Technology Co., Ltd. is developed by focusing on the research of medical tooling and cooperating with factories that is dedicated in manufacturing tooling of medical products for a long time. A whole set of standard has been made for medical tooling based on lots of experiences from practical manufacture. Users can get more superior product with best service in the use of reasonable cost.

Medical products tooling always has high requirement to the development of hot runner due to its specificity. Based on the multidimensional structure of medical product, only side gate hot runner can satisfy the special requirement of side gate and components with deep cavity, such as, pipette, injection syringe, needle guard or even small parts.



## Side gate hot runner for medical parts series

### 医疗侧进胶热流道系列

名洋热流道公司医疗侧进胶系列有模穴分布呈圆形和线形的两个类别：

Side gate series for medical parts of Mingyang Hot Runner Technology Co., Ltd. can be divided into two types, linear cavity distribution and circular cavity distribution.

1、模穴分布呈线性分布，可以允许更密集的喷嘴排布，其嘴头可以在现场进行更换，非常方便，其特殊的设计方式可以提升注塑速度，在浇口区域进行温度控制。系统最大化的缩减了浇口到分型线的距离，使其能获得更好的加热条件。

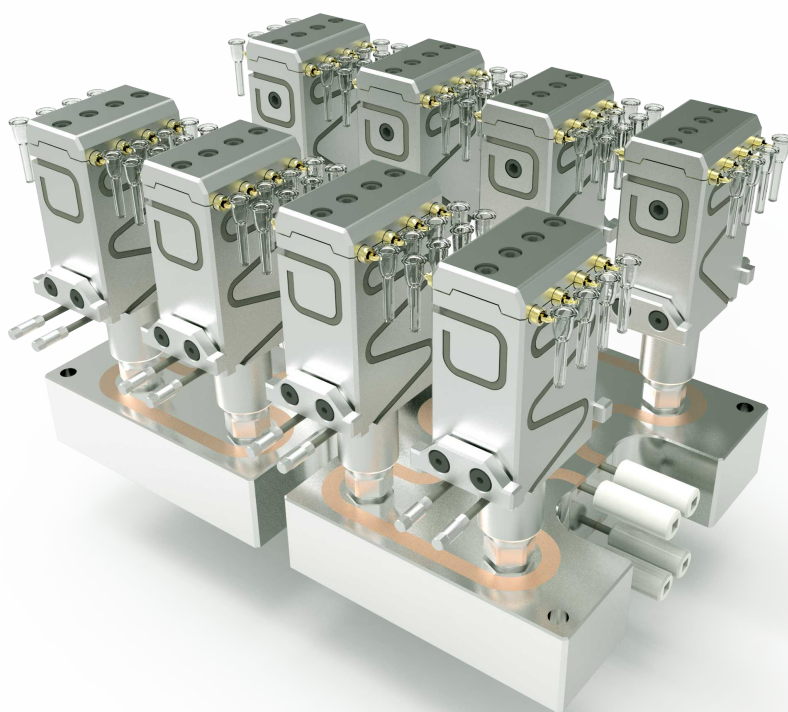
a、每次生产部件根据客户要求来决定，量身定做，量多可做128腔产品。

b、浇口角度与水平线成0°，15°，30°，45°，60°。

2、模穴分布呈圆形分布，其嘴头可以在现场进行更换，非常方便，

a、每次可生产2，4，6，8个部件，

b、浇口角度与水平线成0°，15°，30°，45°，60°



#### 产品主要特点：

1. 侧进胶热流道系统产品均匀的结构确保流变学平衡。
2. 浇口固定位置的加热系统给浇口区域提供理想的温度。
3. 可选择的每个型腔的单独闭合。
4. 嘴尖与本体之间的滑动膨胀联接，可保证嘴角尖位置的准确性。

#### Main characteristics of product:

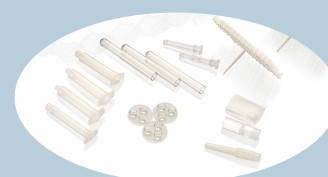
1. Product made by side gate hot runner system has even structure to ensure the balance of rheology.
2. Heating system at fixed position of gate will provide ideal temperature for gate area.
3. Independent closure of each cavity is optional.
4. Expansion connection is adopted between the tip and body of nozzle, which can ensure the accuracy of the tip of nozzle.

1. The distribution of cavity is linear. Intensive nozzle arrangement is also allowed, nozzles can be replaced on the spot. Moreover, the special design is able to improve the speed of injection and control the temperature in the area of gate. This system enables to reduce the distance from gate to part line at maximum and make it obtain better heating condition.

a The components for each production can be decided and customized according to the requirement of customer, 128 cavities can be made for big quantity. b Angle between gate and horizontal line can be 0° , 15° , 30° , 45° and 60° .

2. The distribution of cavity is circular, and nozzles can be replaced on the spot. It is very convenient. a 2, 4, 6 or 8 products can be produced per each shot.

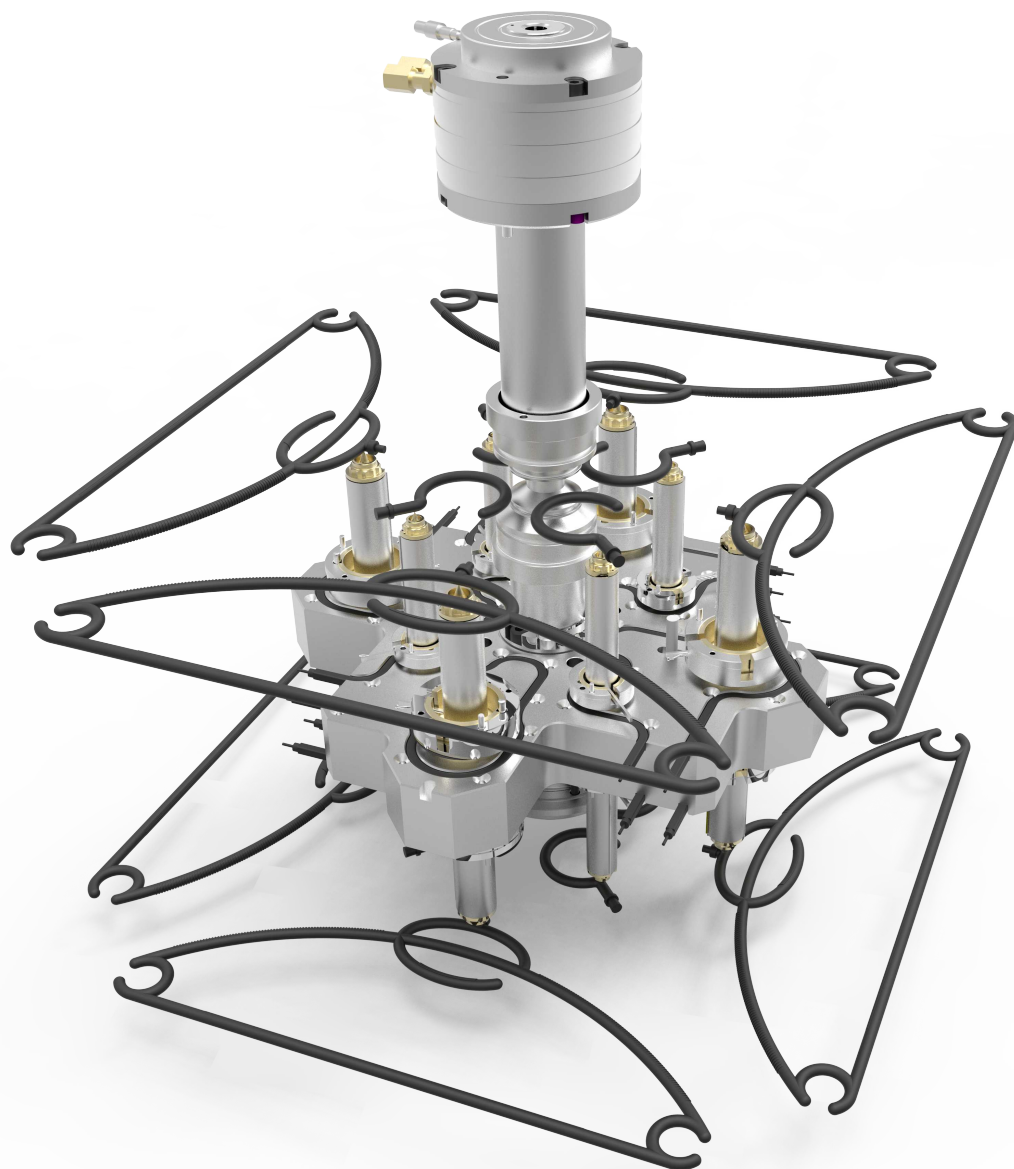
b Angle between gate and horizontal line can be 0° , 15° , 30° , 45° and 60°





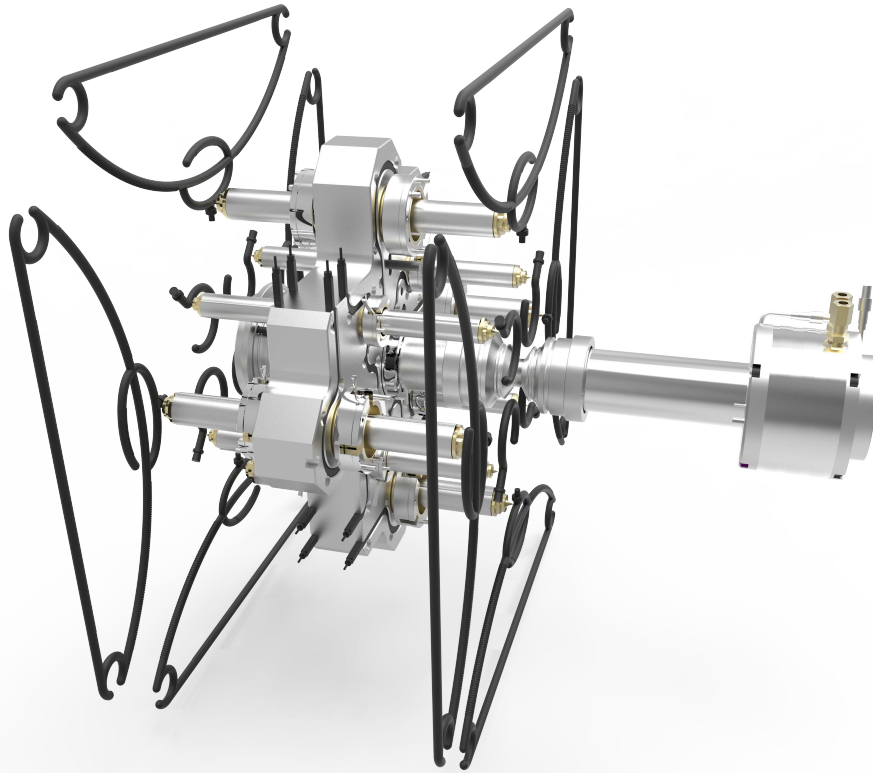
## ■ 叠层模优点:

- ※ 与常规模具相比，叠层式模具锁模力只提高了10%-15%，但产量可以增加90%~95%；
- ※ 模具制造要求基本上与常规模具相同，且将多副型腔组合在一副模具中，所以模具制造周期也大大缩短；
- ※ 使用高效叠层注塑模可以得到双倍或者四倍于普通单层模的产出而无须投资购买额外的机器和设备。这就节约了安装机器、设备和扩建厂房、新增劳动力的费用；
- ※ 叠层模具可以装在单层模具要求相近的注塑机上，单位时间的产出效率却是成倍的增长；节约原料，易于自动化，提高产品性能，缩短生产周期。



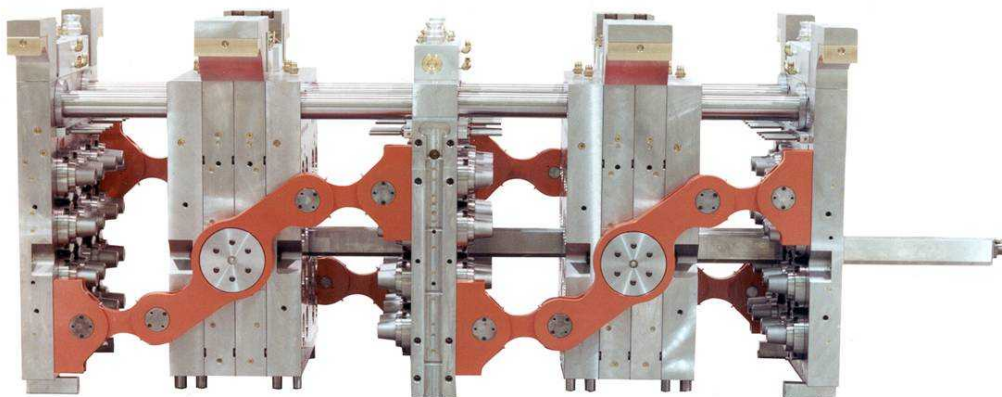
# Stack mold

叠层模



## Stack mold Advantages:

- ※ Compared with the conventional mold, stack mold clamping force is only increased by 10% -15%, but the yield can be increased by 90% to 95%;
- ※ Mold manufacturing requirements are basically the same as the conventional mold, and the combination of a multi-cavity mold, vice, so mold manufacturing cycle is shortened;
- ※ Injection molding using high stack can be doubled or without investing in additional machinery and equipment is four times the ordinary single-mode output. This saves
- ※ Installation of machinery, equipment and plant expansion, new labor costs;
- ※ Stack mold can be mounted on single mold injection molding machine requires similar output efficiency per unit time is growing exponentially;
- ※ Save raw materials, easy to automate, improve product performance and shorten the production cycle.



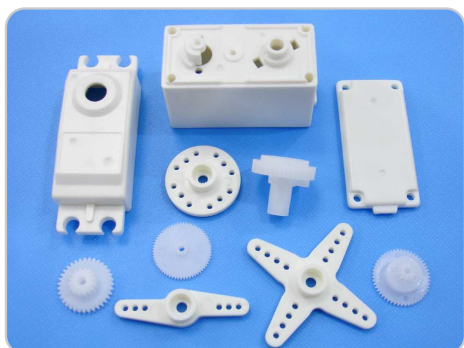


■ 热半模性能特点：

- ※ 流量、温度平衡，压力均衡；
- ※ 装拆极为简便，装上型腔及后模直接试模；
- ※ 定位精度高；
- ※ 热流道维护更方便，更换热咀加热丝不用拆热流道；
- ※ 为客户节省做模时间。

■ Hot half performance characteristics:

- ※ flow, temperature equilibrium, the pressure equalization
- ※ dismantle extremely simple, fitted after the mold cavity and direct tryout
- ※ high positioning accuracy
- ※ hot runner maintenance more convenient replacement without dismantling the hot runner nozzle heater wire
- ※ do die for customers to save time





# Small precision product-specific NOZZLE

精密小产专用热咀 (MYU热咀)



## ■ MYU热咀特点:

- ※ 发热丝镶入本体，减少了热量损失；
- ※ 无死角换色，换色速度快，适用白色或透明产品；
- ※ 采用特殊合金材质，热传导性良好；
- ※ 加工精度高，专为精密小产品研制。

## ■ MYU Nozzle Feature:

- ※ The heating wire embedded into the body, reducing heat loss;
- ※ No dead change color, change color faster for white or transparent products;
- ※ The use of special alloy materials, good thermal conductivity;
- ※ High-precision machining, designed for precision small product development.



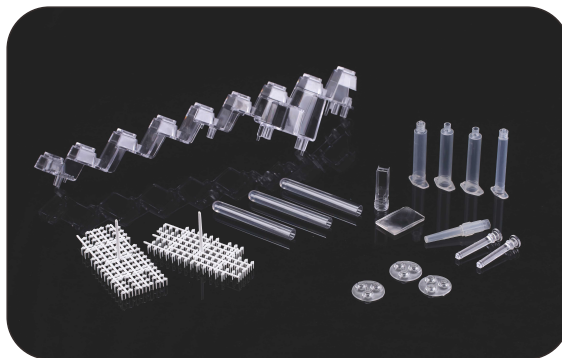
## Food packaging series

食品包装系列

包装行业需求的快速增长，对多腔热流道系统有了越来越高的要求，经过长期的实际应用和对生产反馈进行的经验总结，我司在多腔热流道方面的应用，已有非常成熟的产品。

我司常规系列: 1x24 1x32 1x48 1x64 1x72 1x96 1x128

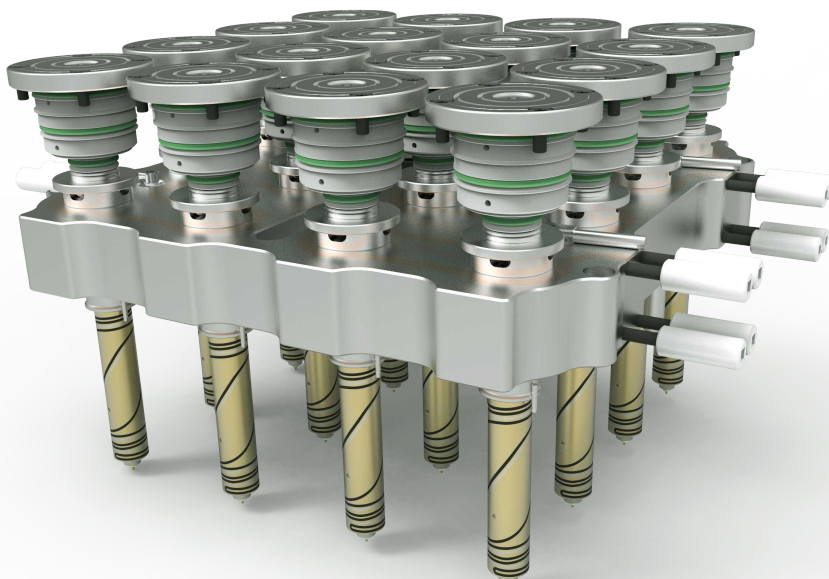
食品包装有较高的行业生产标准，我司在此类产品中都采用进口的优质钢材，来保证此类产品的安全性为使用过程中的大批量，长久生产提供强有力的保证。



With rapid increase of demands in package industry, the requirement for multi-cavities hot runner system becomes more and more high. After the practical use and summary of experience feedback from production for a long time, we have developed matured product on the aspect of multi-cavities hot runner.

The general series are as following: 1x24, 1x32, 1x48, 1x64, 1x72, 1x96 and 1x128.

Food package has higher industrial production standard. Our company always use imported high quality steel for such kind of product, so as to ensure the safety of product, and provide strong and powerful guarantee for large quantity of use and production for a long time.



**PET PREFORM MOULD** PET瓶坯模具

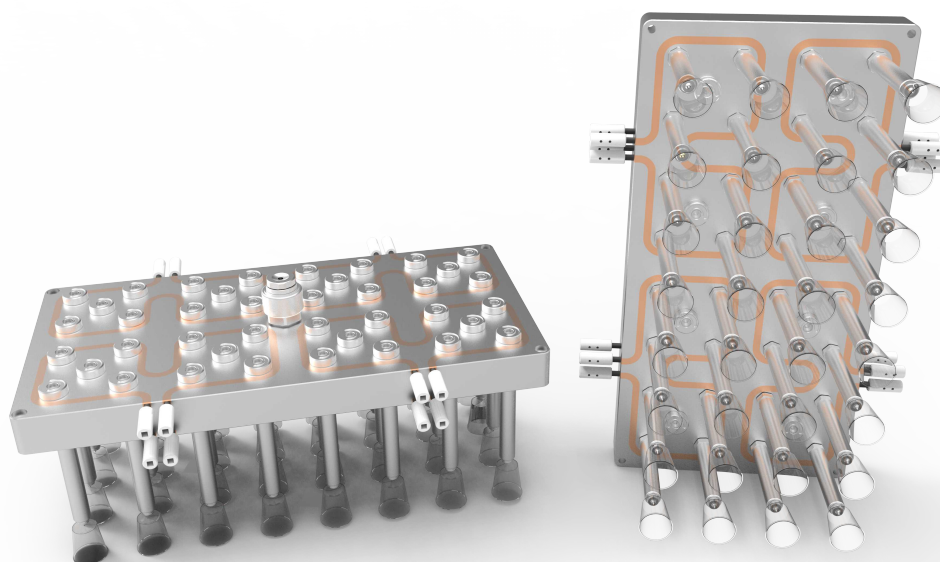
# Food packaging series

## 食品包装系列

名洋热流道公司包装类多腔热流道系列：  
Multi cavities hot runner series for package category:

包装多腔热流道标准热嘴的流道直径有4mm, 5mm, 6mm及8mm。喷嘴直径小，允许紧密的间距尺寸，常用于高腔模具的注塑成型。名洋热流道高腔热流道系统特别以几何平衡的流道设计，并配以热分布的均匀与稳定，来满足客户的不同高腔产品的应用。

The diameter of package multi-cavities hot runner with standard nozzle can be 4mm, 5mm, 6mm and 8mm. The small diameter of nozzle allows a tight spacing dimension, which is often used in injection and moulding for high cavity tooling. Mingyang high cavity hot runner system can meet different application of high cavity products for customer by geometric balanced hot runner design together with even and stable thermal distribution.



名洋热流道系列以其简单快速的安装一直以来赢得客户好评，整个热半模，在工厂完成安装测试，产品运抵客户模具厂商处可立即安装到型腔，减少了客户的交付时间。

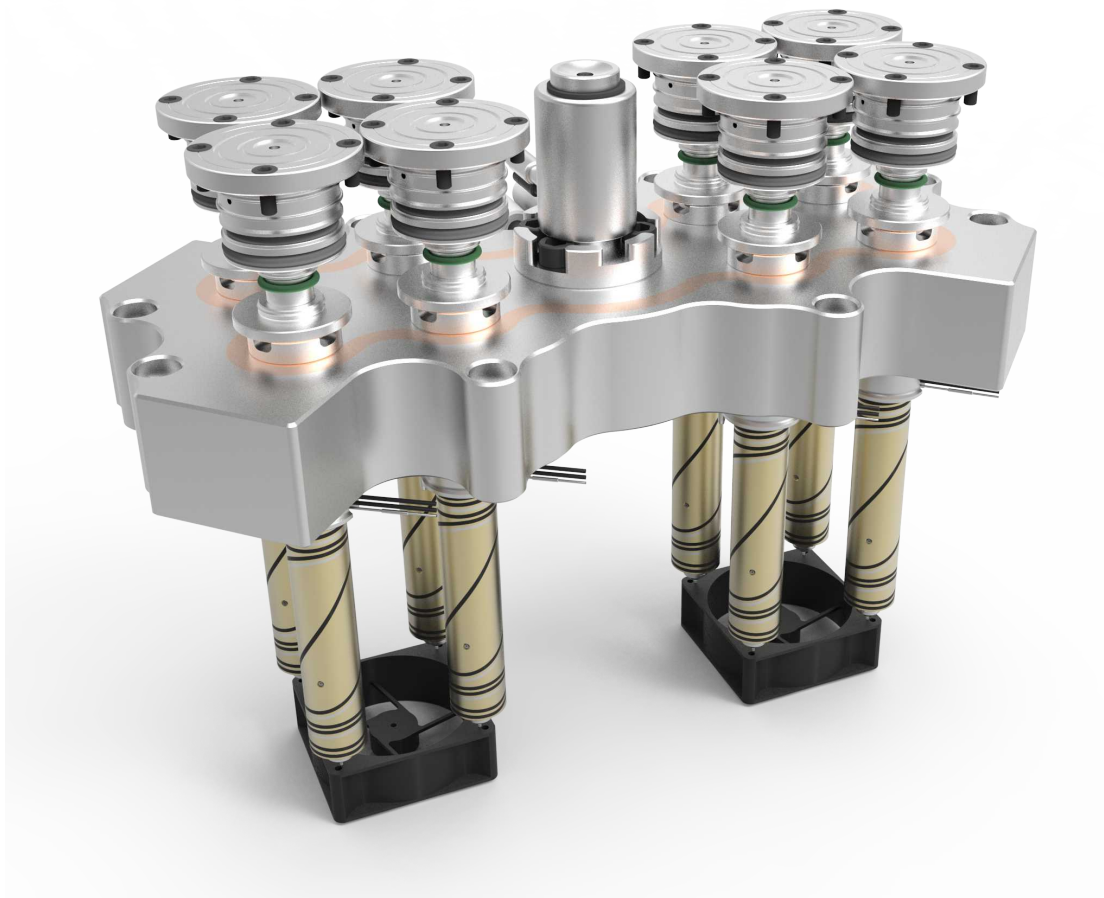
Mingyang hot runner series have win high praise of customer all the time due to simple and rapid installation. The whole hot half is installed and tested in factory, which can be installed to the cavity immediately once it arrives to the tooling factory of customer, which can reduce the deadline for customer.





名洋专注于精密零件注塑成型，十五多年的专业沉淀，为客户降低了制作成本，提高了模具寿命，为客户提供完美的热流道解决方案。

Mingyang is dedicated in injection and moulding of precision products. With more than 15 years of experience to reduce manufacture cost for customer and increase service life of tooling, we can provide perfect hot runner solutions for customer.



### System characteristics 系统特点

- ※ 热咀温度和浇品可独立即控制;
- ※ 浇口套和咀芯采用高导热耐磨，耐腐蚀材料;
- ※ 寿命可达90万模次;
- ※ 产品尺寸精密度可达 $\pm 0.005$ .
- ※ Hot nozzle temperature and gating can be independently controlled.
- ※ Material with high thermal conductivity and corrosion resistance is adopted for sprue bush and nozzle core.
- ※ The service life is up to 900000 shots.
- ※ The precision of product dimension is up to  $\pm 0.005$



# PRECISION PARTS

## 精密零件

### 精密产品小间距多点针阀方案

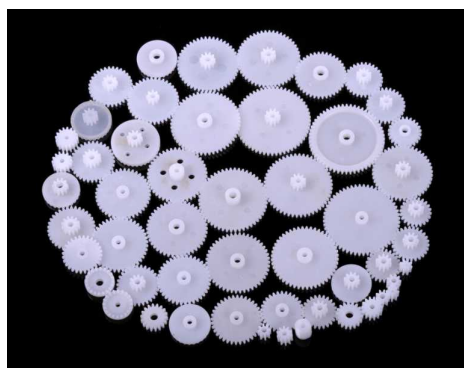
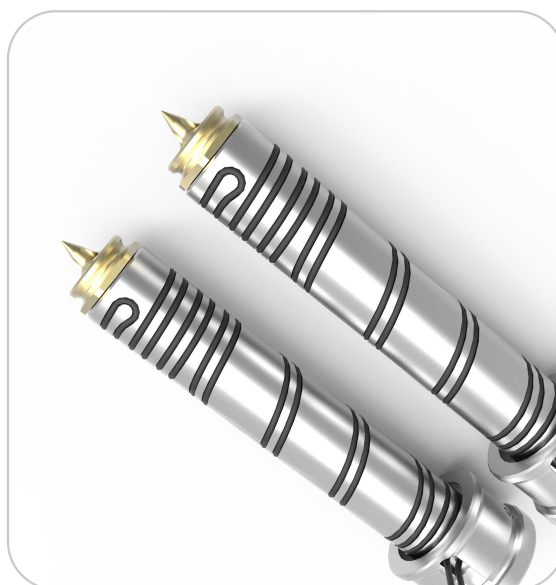
Precision product with small space and multipoint needle valve scheme

名洋创新的精密注射成型技术，可实现单个嘴头之间的流动平衡，出色的浇口痕迹，让产品更美观，尺寸更精确，注射压力低等特点符合结晶与非结晶进胶应用需求。

Mingyang's innovative precision injection moulding technology can realize flowing balance between single nozzles. Excellent gate mark makes the product beautiful with accurate dimension and lower ejection pressure, which meet the requirement of gate application for crystalline and non-crystalline.

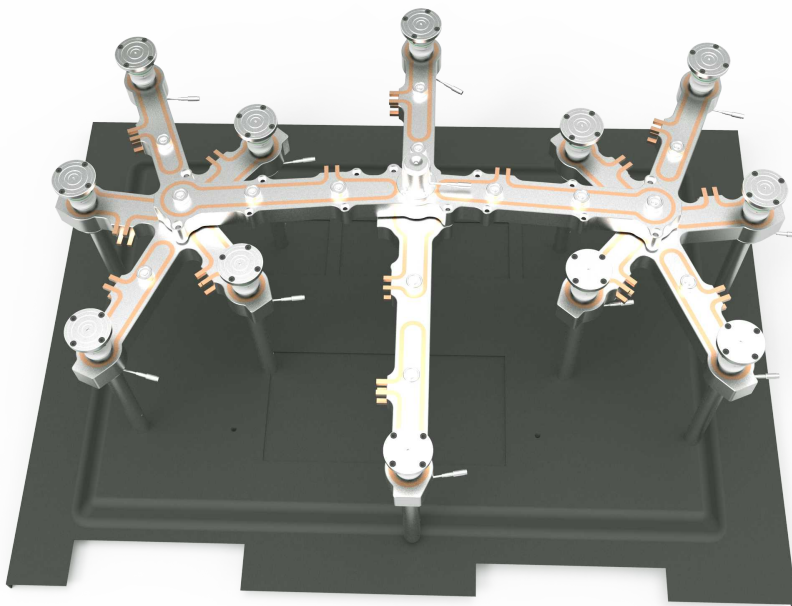
### System characteristics 系统特点

- ※ 热咀单独发热，温度可精准控制；
  - ※ 热咀压力分布平衡，出胶顺畅、平衡性达98%；
  - ※ 实现产品均匀充填，保证产品精度稳定；
  - ※ 产品尺寸精度高，保证产品尺寸要求；
  - ※ 产品换色性能好，30模可完全替换颜色。
- 
- ※ Independent heating of hot nozzle, temperature can be precisely controlled.
  - ※ Balanced pressure distribution of hot nozzle, product can be ejected smoothly with a balance of 98%.
  - ※ Realization of even filling, the stable precision of product can be ensured.
  - ※ High accuracy of product dimension, the requirement of product dimension can be ensured.
  - ※ Good color change performance for product, the color of 30 cavities can be completely replaced.



65寸平板电视后壳搭板技术，解决了大型产品卡阀针，加热后分流板变形导致漏胶等一系列技术难题。

65 inch flat panel back cover butt strap technology solved a series of difficult problems, such as, large product stuck needle valve, plastic leakage caused by deformation of manifold after heating, etc.



在家电类产品行业，名洋以更长的设计寿命一，更稳定的制作工艺和最可靠的用材有效保障了产品的正常生产，获得客户一致认可。运用针阀式热流道系统方案解决产品外观、浇口、强度等问题。

In the industry of home appliance, Mingyang have effectively guaranteed the normal production of product by long design life, more stable manufacture process and reliable material, which was recognized by our customers consistently. Needle valve hot runner system scheme is able to solve many kinds of problems, for example, appearance issue, gate, strength and so on.





# Household appliances

家用电器



## 电视机前框

材料 Material: ABS+PC

重量 Weight: 600G

出胶口 Thickness: 1.2mm

咀型 Nozzle type: MV0-A



## 空调外壳

材料 Material: ABS+防火

重量 Weight: 1500G

出胶口 Thickness: 3.0mm

咀型 Nozzle type: MTV-A



## 冰箱抽屉

材料 Material: PS

重量 Weight: 800G

出胶口 Thickness: 1.2mm

咀型 Nozzle type: MV0-A

## Mobile phone series

手机类

### Electrical Product Solutions 电子产品解决方案



### Electrical Technology Development 电子技术发展

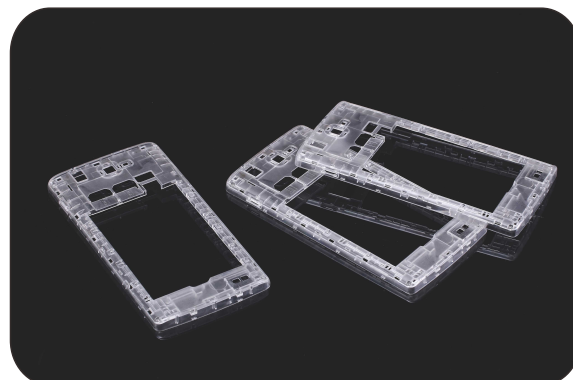
名洋在通讯电子领域积累了丰富的技术经验，现已成为电子领域标准的热流道系统供应商。我们以最快的速度提供热流道方案，标准系统最短交期5天，热半模5-7天。

After the accumulation of many years of experience in the field of communications and electronics, Mingyang has become the standard supplier for hot runner system in such industry. We can supply hot runner scheme as soon as we can. The shortest deadline for standard system and hot half is 5 days and 5-7 days respectively.

### Aduantages 优势

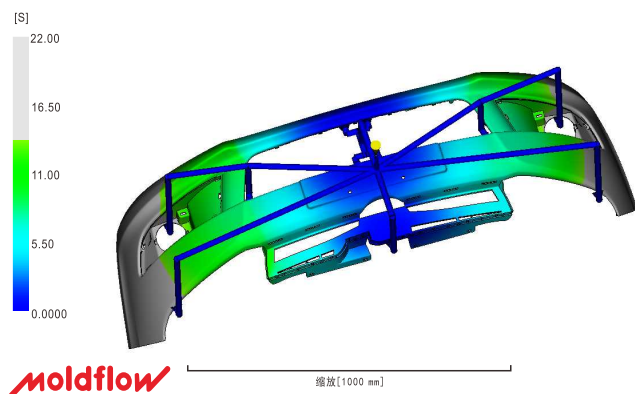
- ※ 发热装置采用铜套加热器，热传导均衡适用各种高温料
- ※ 咀芯采用特殊合金，抗磨损，耐腐蚀性强
- ※ 可适用各种工程料、换色性能良好

- ※ Copper bush heater is utilized for heating device, and the balanced heat transmission is suitable for different kinds of high temperature materials.
- ※ Special alloy is used for nozzle core, which has strong wear strength and corrosion resistance.
- ※ The capability of color changing is good, which is proper for variable engineering materials.



# Mold flow

## 模流分析



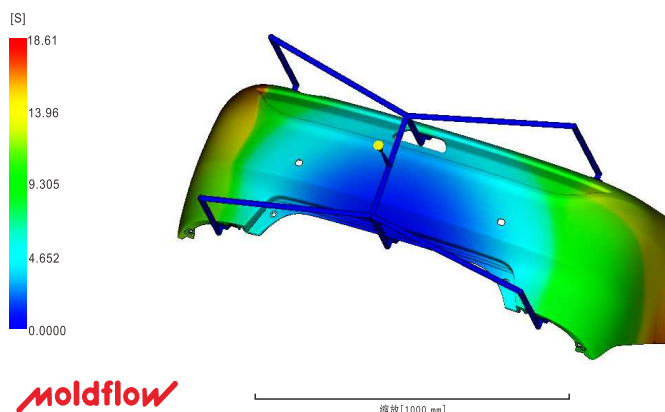
### 塑料模流分析

#### Plastic mold flow

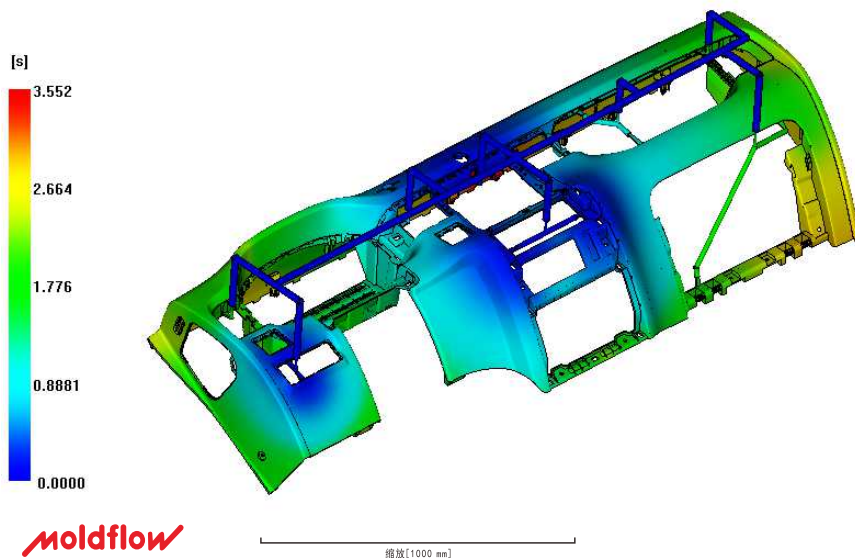
- 1、确定浇口位置，改善模具结构
  - 2、预测产品的充填情况，熔接痕位置，翘曲变，形变等缺陷。
  - 3、模拟塑料充填过程。
  - 4、优化注塑工艺，减少试模次数。
- 1、Confirm the gate position and improve the mould frame.
  - 2、Forecast the possible disfigurement such as filling of products, melting joint position, warping change, shape change and so on.
  - 3、Simulate the filling process of plastic.
  - 4、Optimize the injection molding technics and reduce the time of mold debugging.

根据流变分析，对模具进行注塑系统设计，通过试模后充分验证结果，以达到最佳效果产品。

Design the injection molding system according to the rheology analysis, and achieve the high quality products pass the debugging.



充填时间  
= 3.552[s]





**nexthermal** High Quality Coil Heaters from Nexthermal  
smart heat management

名洋热流道公司与美国nexthermal加热器长期合作伙伴，并在中国华东地区总代理  
Mingyang Hot Runner company is the long-term cooperative partner as well as general agency of eastern China of USA Nextthermal heater.



加热圈截面有圆形和方形以及矩形等多种形式，外表面有光亮型、喷砂处理以及发黑处理效果。并可带K型，J型或者E型控温电偶。

它具有体积小，功率密度高，升温快，控温精确，使用寿命长，安装方便，节约能源，无污染等特点。广泛用于热流道塑胶模具，吹塑机，挤出机及热喷嘴上。

■ 主要技术指标

电压：12V~415V

功率：50~3000w

加热圈内径：6~100mm

加热圈长度：15~500mm

截面：圆形，方形和矩形

热电偶：K,E,J,无

表面处理：光亮型，喷砂型

最大功率密度：10w/cm<sup>2</sup>

表面最高温度：650



There are several kinds of spring heating coil, such as, round, square and rectangular. Polished and sand blasted finish are available for the outside surface. K, J or E shape temperature controlling thermocouple can be equipped as well.

It has many advantages, for example, small volume, high power density, rapid increase of temperature, precision control of temperature, long service life, convenient installation, energy saving, no pollution and so on, which is widely used in hot runner plastic mold, blowing machine, extruding machine and hot nozzle.

■ Main technical indexes

Voltage : 12V~415V

Power: 50~3000w

Heating coil inner diameter: 6~100mm

Heating coil length: 15~500mm

Section: Round, square and rectangular

Thermocouple: K,E,J,none

Surface treatment: polished, sand blasted

Maximum power density : 10w/cm<sup>2</sup>

Highest temperature on the surface: 650



# Temperature controller

## 温度控制器

**感温：**控制器以每秒二十次的频率精确控制温度。

**控制：**如果实际温度偏差到设定温度 专有的自我优化Pid 控制运算会进行调整。此二次可以检测实际温度变化率。这样，在温度到达设定点之前预先调整加热器的输出，以限制或排除过热或温度不足现象。

**启动：**使用相角启动输出，控制器的每个加热器提供平稳精准的动力以达到温控的最终极限。

**Temperature sensing:** Temperature is precisely controlled by a frequency of 20 times per second.

**Control:** In case the practical temperature is deviated to set value, the dedicated self-optimization Pid controlling operation will adjust it. The practical temperature change rate can be detected as well. In this case, the output of heater can be adjusted in advance before it arrives to the set value, so that restrict or avoid overheating or insufficient temperature.

**Startup:** Use phase angle start output, stable and accurate power will be provided by each heater of controller to arrive the ultimate limit of temperature control.



### ■ 插卡式温度控制器

- ※不同温度环境可多模式选择
- ※控温精准可达 0.01度
- ※错误报警自动储存功能
- ※开机软启动除湿功能，保护加热器使用寿命

### ■ Plug-in Card Temperature Controller

- ※Multi mode selection is available for different temperature environment
- ※The precision of temperature control is up to 0.01 degree
- ※Automatic storage for wrong alarm
- ※ Boot soft start dehumidification function, which can protect the service life of heater.



### ■ 集成温控器

温控器具有高品质和长期运行的可靠及准确性。设计适合在苛刻的条件下工作，为热流道系统提供精准的控制，易于安装简单操作，自我调节的PID 算控模式实现精度范围正负一度。独有的待机模式是温度控模块在电源故障后减少电流冲击或避免热流道在不知晓的情况下被加热。

### ■ Integrated Temperature Controller

Temperature controller has high quality and reliability and accuracy of long operation, which is suitable for using under harsh conditions and provide precision control for hot runner system. Moreover, this kind of controller is easy to be installed and operated. The precision scope of PID numerical control mode with self-regulation is  $\pm 1$  degree. What's more, the unique standby mode indicates that, temperature control module can reduce current surge after power failure or prevent hot runner from heating under unknown situations.

## Accessory introduction

### 零部件介绍



#### ■ 全进口电磁阀

敏感度较高  
同步性更强  
简单方便

#### ■ Imported Electromagnetic valve

Higher sensitivity  
Stronger synchronism  
Simple and convenient



#### ■ 多种模式时间控制器

消除产品熔接痕  
参数设置自动保存功能  
时序控制精确度达到0.01S  
充填均匀，获得高质量的产品

#### ■ Multi mode time controller

Remove weld mark from product  
Save parameter setting automatically  
Conduct sequential control with an accuracy of 0.01S  
Achieve high quality product with even filling

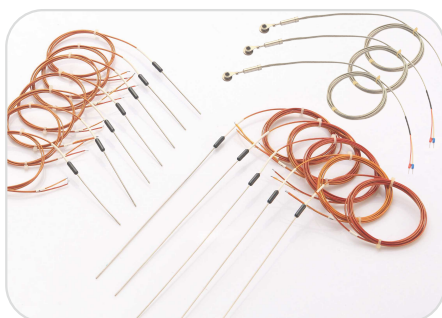


#### ■ 进口加热元件

提升了外表面最优化荷载。  
加热器至喷嘴间热传递最优化。  
保护加热器免受机械损伤。  
适用于小型热流道分流板。

#### ■ Imported heating components

Improve the most optimized load on surface  
Optimize heat transmission between heater and nozzle  
Protect heater from mechanical damage  
Suitable for small hot runner manifold



#### ■ 热电偶

探针和导线的连接密封在高温转换头里，提供了优良的密封性能和防潮能力。转换头里具有高机械强度和拉伸强度，不易碎，适于多种应用场合。  
可供多种尺寸，满足各种应用要求，探针尺寸从0.5-0.3mm转换头连续工作耐温到427摄氏度。

#### ■ Thermocouple

The connection of probe and conductor is sealed in high temperature converter, which can provide excellent sealing performance and moisture proof ability. With high mechanical and tensile strength, the converter is not easy to be cracked and suitable for many kinds of occasions. Various dimensions are available to meet the needs of different kinds of applications. The size of probe is 0.5-0.3mm, and the temperature resistance of converter for continuous service is up to 427 °C.





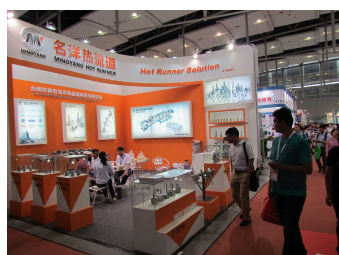
Guangzhou fair 2019  
2019年广州展会



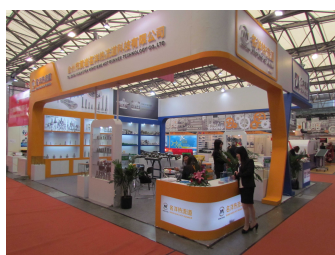
Shanghai fair 2018  
2018年上海展会



Guangzhou fair 2017  
2017年广州展会



Guangzhou fair 2015  
2015年广州展会



Shanghai fair 2014  
2014年上海展会



Guangzhou fair 2013  
2013年广州展会

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