





浩博科技
HYBO TECHNOLOGY

浩博－致轻于世间万物

GIVE LIGHTNESS FOR EVERYTHING
IN THE WORLD

福建（浩博）新材料科技有限公司

2024版



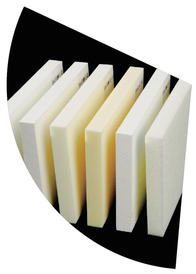
HyboFOAM®

浩博－致轻于世间万物















2024版

GIVE LIGHTNESS FOR EVERYTHING IN THE WORLD

Corporate Data as 2012

公司基本介绍

福建（浩博）新材料科技有限公司

成立时间
2012年成立于泉州市综合保税区

主要生产方向
专注于PMI泡沫材料及特种轻质材料产业发展

PMI泡沫
PMI泡沫作为一种高性能的夹芯材料
已广泛应用于航空航天、5G通信
电子消费产品（手机振膜、平板电脑键盘、音响）
高速列车、舰船、雷达、运动器械、医疗器械等行业。

公司规模
公司已建成年产8000立方米PMI泡沫产线。
产值达亿元，完全实现了进口替代，已拥有专利22项

公司获得中国商飞国内唯一PMI泡沫材料认证资格。

未来五年将建成，国内第一家年产5万m^3全自动PMI泡沫产线
构建从上游原料、泡沫材料、CNC精密加工
下游复材产品生态业链发展体系，产值将超10亿以上。

Time of establishment
Founded in Quanzhou Comprehensive Bonded Zone in 2012

Main production direction
Focus on the development of PMI
foam materials and special light materials industry

PMI foam
As a high-performance sandwich material, PMI foam has been widely used in aerospace and 5g communication，Consumer electronics (mobile phone diaphragm, tablet keyboard, stereo) High speed trains, ships, radars, sports equipment, medical equipment and other industries.

Company size
The company has built a PMI foam production line with an annual output of 8000 cubic meters.With an output value of billion yuan,it has fully realized import substitution and has 22 patents. Obtained the only PMI foam material certification qualification of COMAC in China.

浩博科技

以“致轻于世间万物”为愿景，践行与合作伙伴共赢，与行业共发展、与环境共生的理念，助力国家2060年实现碳中和做出我们的贡献！

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Top Message

董事长寄语



浩博科技集团
董事长

丁 友 家

Chairman of Haobo Technology Group

大家好！
承蒙大家对浩博科技集团一直以来特别的支持和理解，我在此表示由衷的感谢。

浩博集团成立于2012年，是一家还很年轻但富有潜力的新材料科技公司。从创立之初，公司作为高性能PMI泡沫材料制造企业，为各行各业提供轻量化解决方案，到现在企业不断往复合材料，电子材料领域拓展，也展示出了公司为创造高附加价值产品，不断向其他领域研发拓展的决心。目前浩博科技是国内少数能够大批量生产并加工PMI泡沫的公司，并具有完整的新技术研发体系。那么，在短期的目标中，我们要实现国内创造高附加价值产品，并将产品推广应用至全世界，加速全球化布局。
在2019年末，人类遭遇新冠疫情大流行，这让我们企业意识到，新冠疫情的背后是全球一体化所致使的。于此同时习近平总书记强调的人类命运共同体和地球村理念，让我们对全球化布局有了更深层次的理解。所以在这个百年未有的大变局中，我们需要无时不刻认真的理解时代所带来的讯息和机遇，以及对未来产品的定位。最后在公司不断地探讨和深研中，我们提出了两点：产品必须要符合可持续性发展这个原则，同时企业必须要为社会服务作为存在的基础。两个“必须”，体现出了浩博集团为了坚守社会责任的信念。在未来的一段时间中，我们相信疫情很快就会过去，更希望能够见到各位与浩博合作和未来一起合作的客户，请给予一如既往的支持和信任。

我们愿和所有的朋友携起手来，团结奋进，共创未来！

hello everyone! Thanks for your special support and understanding of Haobo technology group, I would like to express my heartfelt thanks here. Haobo group, founded in 2012, is a young but potential new materialtecnology company. Since its inception, the company, as a high-performance PMI foam material manufacturingenterprise, has provided lightweight solutions for all walks of life. Up to now, the company has continued to expand into the field of composite materials and electronic materials, which also shows the determination of the company to continuously expand its research and development to other fields in order to create high value-added products. At present, Haobo technology is one of the few companies in China that can mass produce and process PMI foam, and has a complete new technology research and development system. Then, in the short term, we should create high value-added products domestically, promote and apply products to the world, and accelerate the layout of globalization. At the end of 2019, human beings suffered from the COVID-19 pandemic, which made our enterprises realize that the COVID-19 epidemic is caused by global integration. Therefore, in this great change that has not happened in a century, we need to carefully understand the information and opportunities brought by the times and the positioning of future products all the time. Finally, in the continuous discussion and in-depth research of the company, we put forward two points: products must conform to the principle of sustainable development, and enterprises must serve the society as the basis of existence. The two "must" reflect Haobo group's belief in adhering to social responsibility. In the coming period of time, we believe that the epidemic will soon pass, and we hope to see all customers who cooperate with Haobo and in the future. Please give us your support and trust as always. We are willing to join hands with all our friends to forge ahead in unity and create a better future!

Business philosophy

企业经营理念　企業経営理念

浩博科技秉持着为社会进步做贡献为目标，通过多年对自身产品的进步不断精益求精，向国外的技术靠拢，打破外国产品对中国市场的垄断，提供更多的国产化替代可能。

Haobo technology adheres to the goal of making contributions to social progress.
Through years of progress in its own products, it keeps improving,
closes to foreign technology,
breaks the monopoly of foreign products on the Chinese market,
and provides more possibilities for localization substitution



在对员工的管理中

我们坚持着对员工不断培养，从而提高员工的自身知识储备和文化素养，
来保证员工可以成为公司生产高品质产品坚实后盾。

在工厂建设上

我们致力于可以发展更加绿色环保并且低碳的生产方式，
能够追随国家制定的“碳中和”，“碳达峰”的目标。

In the management of employees

We adhere to the continuous training of employees,
so as to improve their own knowledge reserves and cultural literacy,
so as to ensure that employees can become a solid backing for
the company to produce high-quality products.

In factory construction

We are committed to developing more green and low-carbon production methods,
and can follow the national goals of "carbon neutrality" and "carbon peak".

企业的目标　Enterprise objectives

**浩博科技是现在国内最大PMI泡沫生产厂家，我们领域横跨民用市场，
在公司未来规划中，我们致力建成国内第一家年产5万m^3全自动PMI泡沫产线，
产值将得到大幅提升。**

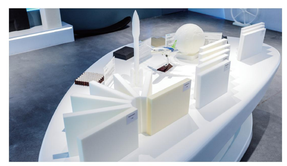
**于此同时在不断布局国内市场的同时，与国外公司达成合作，
将更多优质的产品理念融合进公司的自有体系。**











Haobo technology is now the largest PMI foam manufacturer in China. Our field spans the civil markets. In the company's future planning, we are committed to building the first domestic manufacturer with an annual output of 50000 M ³ The output value of the fully automatic PMI foam production line will be greatly increased. At the same time, while constantly laying out the domestic market, we have reached cooperation with foreign companies to integrate more high-quality product concepts into the company's own system.

可持续发展战略 Strategy Of Sustainable Development

在对于世界越来越严重的环境问题，浩博科技作为一家制造业公司，
我们需要不断改进自己的生产流程。

可持续发展，不单单只有产品，同时也有生产的过程，如何做到节能减排，
同时还有减少对环境的影响，这都是非常重要的。
所以浩博科技的可持续发展战略的核心就是公平性，共同性，持续性。
因为为了实现这个战略，需要从上到下，以点带面的实施，提高员工对可持续性的认知，
从而能够追上国家2060碳中和的脚步。



With regard to the increasingly serious environmental problems in the world, Haobo technology, as a manufacturing company, needs to constantly improve its production process.

Sustainable development is not only about products, but also the production process. How to save energy and reduce emissions, as well as reduce the impact on the environment, is very important. Therefore, the core of the sustainable development strategy of Haobo technology is fairness, commonality and sustainability. In order to realize this strategy, we need to implement it from top to bottom and from point to area, so as to improve employees' awareness of sustainability, so as to catch up with the national 2060 carbon neutrality.



对于2030年的需要做到的事情 What needs to be done in 2030

1	**制定完整的可持续性发展战略**	以五年为基础，从而来完成国家下达的“碳中和”“碳达峰”目标
2	**WA吸波型泡沫**	完成WA吸波型泡沫的开发，以及各类新型的泡沫制品
3	**CM和CNC加工中心**	扩大CM和CNC加工中心的能力，不断拓展下游业务
4	**产线2.0实验**	进行对产线的2.0实验，并于2025年建立国内首条全自动PMI泡沫生产产线
5	**建立产品研发中心**	从而提高科研力度，保证未来不断推出新产品

1.Formulate a complete sustainable development strategy	On the basis of five years, so as to achieve the national goals of "carbon neutralization" and "carbon peak"
2.WA absorbing foam	Complete the development of VW absorbing foam and various new foam products
3.CM and CNC machining centers	Expand the capacity of CM and CNC machining centers and continuously expand downstream business
4.Production line 2.0 experiment	Carry out the 2.0 experiment on the production line, and establish the first fully automatic PMI foam production line in China in 2025
5.Establish a product R & D Center	So as to improve scientific research and ensure the continuous introduction of new products in the future

1 为什么要选择PMI泡沫?

首先PMI泡沫的优势就是作为非金属材料的同时还拥有极高刚性，
这样可以为大量需要使用非金属材料，并且同时想拥有高强度的需求提供方案。

2 PMI和别的材料有什么区别?

因为PMI作为目前最新型的泡沫材料，无论是在力学性能上，或者是各类电子绝缘，
保温性能，都超越了市面上其他种类泡沫，如PVC，聚氨酯等。

3 现有客户都是如何使用PMI泡沫?

在与客户的交流过程当中，我们都是尽量满足客户的要求，
对客户的产品进行微调以保证达到需要的标准，
所以说这就是浩博科技与其他企业的不同之处。

Why choose PMI foam?

First of all, the advantage of PMI foam is that as a non-metallic material, it also has a very high rigidity, which can provide a solution for a large number of non-metallic materials and high strength requirements.

What is the difference between PMI and other materials?

As the latest foam material, PMI has surpassed other kinds of foam in terms of mechanical properties, electronic insulation and thermal insulation, such as PVC, polyurethane, etc.

How do existing customers use PMI foam?

In the process of communicating with customers,
we try our best to meet the requirements of customers and fine tune their products to ensure that they meet the required standards.
Therefore, this is the difference between Haobo technology and other enterprises

客户群体

Customer group

中国船舶工业集团有限公司 / 中国航空工业集团有限公司 / 中国电子科技集团有限公司 /中国商用飞机有限责任公司
苹果公司 / 华为公司 / 歌尔声学 / 小鹏汇天 / 海康威视 / 中国西南交通大学 / 各类制造公司……

浩博科技

在发泡材料领域具有深厚的技术沉淀，拥有一支年轻的PMI泡沫技术原创团队，

由专业从事高分子发泡材料20多年的高级工程师带队，并于国内高校长期合作，
形成产、学、研一体化技术创新化平台。

Haobo technology, as a manufacturing company, needs to constantly improve its production process. Sustainable development is not only about products, but also the production process. How to save energy and reduce emissions, as well as reduce the impact on the environment,is very important. Therefore, the core of the sustainable development strategy of Haobo technology is fairness, commonality and sustainability. In order to realize this strategy, we need to implement it from top to bottom and from point to area, so as to improve employees'



■ **HyboFOAM®实验室**
设施及场景展示
Facilities and scene display

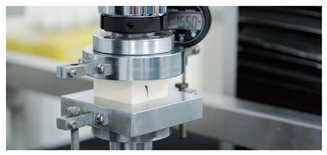














Enterprise development history
企业历程

2010
Foundation

公司正式取得生产地块
In 2010, the company officially obtained the production land



‘工厂及实验室

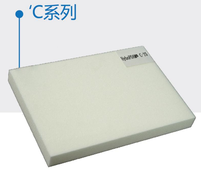




2012年公司正式成立

逐渐进入半研发半量产的状态
开始进行C系列产品和
E系列产品的技术转化

In 2010, the company officially obtained the production land



‘C系列



‘E系列







2013年C系列和E系列产品正式投产

并进入预量产状态
并于年底开始成功量产

In 2013, c-series and E-Series products were officially put into production and entered the pre mass production state, and the successful mass production began at the end of the year



2014年根据产品量产经验

设计出了国内第一条隧道式轨道发泡炉
进一步加大产量
与此同时加快新产品的研发

In 2014, according to the experience of mass production, the first tunnel track foaming furnace in China was designed to furtherincrease production and speed up the research and development of new products









‘T系列



‘AF系列

2015年T系列和AF系列研发成功

正式标志着浩博科技材料
迈出了走向航空航天的第一步

The successful development of T series and AF Series in 2015 officially marks the first step of Haobo scientific and technological materials towards aerospace





‘CHR系列

2019年CRH系列和WA系列开始研发

同期开展复合粘接业务，进一步拓展公司业务
提高公司营销能力

In 2019, CRH series and wa series began to be developed, and composite bonding business was carried out at the same time to further expand the company's business and improve the company's marketing ability





2018年RF系列和A系列正式量产

浩博科技成为国内第一家完成
PMI泡沫全系列覆盖的公司
并于年底公司开展CNC业务

In 2018, RF series and a series were officially mass produced. Haobo technology became the first company in China to complete the full series coverage of PMI foam, and the company launched CNC business at the end of the year



2021年B系列正式投产
CNC部门拓展到20台数控机床

大大提升了生产加工能力
与此同时公司业务大大增加

In 2021, the B series was officially put into production, and the CNC department was expanded to 20 CNC machine tools, which greatly improved the production and processing capacity. At the same time, the company's business was greatly increased



2020年CRH正式投产

耐高温B系列开始研发
与此同时公司内部开始实施6S管理
进一步规范生产流程

In 2020, CRH was officially put into production, and the high temperature resistant B series began to be developed.

At the same time, the company began to implement 6S management internally to further standardize the production process





2012

2015

2019

2022

HyboFOAM®C/AF
系列产品介绍

一种基于PMI的闭孔刚性泡沫材料，不含卤素。泡孔孔径0.2-0.4 mm。
推荐固化工艺：最高温度180° C、最大压力0.3MPa。

A PMI Based closed cell rigid foam material, halogen-free.The cell diameter is 0.2-0.4 mm.
Recommended curing process:
maximum temperature 180 ° C, maximum pressure 0.3MPa.

HyboFOAM®C/AF

应用范围非常广泛。通常来说,适用于绝大多数的三明治夹心结构复合材料部件，
包括X射线CT机床板，运动器材，车辆/高速列车，或者浮力设备/鱼漂等。

The application range is very wide. Generally speaking, it is applicable to most sandwich structure composite parts, including X-ray CT machine tool boards, sports equipment, vehicles / high-speed trains, or buoyancy equipment / fish floats.

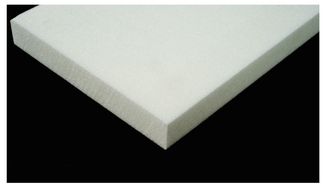
■ **HyboFOAM®C/AF**
产品图片以及应用展示
Product pictures and application display



HyboFOAM®AF系列
产品图片
Product pictures



HyboFOAM®C系列
产品图片
Product pictures



HyboFOAM®C系列局部
产品图片
Product pictures



HyboFOAM®C/AF系列
产品应用展示
Product pictures



HyboFOAM®C/AF系列
产品应用展示
Product pictures



HyboFOAM®C/AF系列
产品应用展示
Product pictures

HyboFOAM®A
系列产品介绍

是一种基于PMI的闭孔刚性泡沫材料,不含卤素。泡孔孔径0.2-0.4 mm。
满足中国商飞CMS-CP-403材料规范。
推荐固化工艺：最高温度180° C、最大压力0.7MPa。

It is a closed cell rigid foam material based on PMI and does not contain halogen.
The cell diameter is 0.2-0.4 mm. Meet COMAC cms-cp-403 material specification.

Recommended curing process:
the maximum temperature is 180 ° C and the maximum pressure is 0.7MPa.

HyboFOAM®A

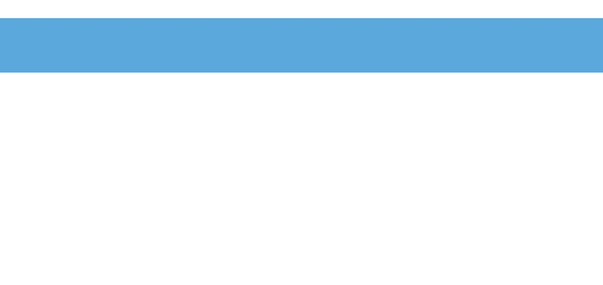
主要用于制造高等级的复合材料部件比如民用飞机航天运载火箭无人机等。

It is mainly used for manufacturing high-grade composite parts, such as civil aircraft, space launch vehicle, UAV, etc..

■ **HyboFOAM®A**
产品图片以及应用展示
Product pictures and application display



HyboFOAM®A系列
产品图片
Product pictures



HyboFOAM®A系列局部
产品图片
Product pictures



HyboFOAM®A系列
产品应用展示
Product pictures





HyboFOAM®A系列
产品应用展示
Product pictures



HyboFOAM®E/RF
系列产品介绍

一种基于PMI的闭孔刚性泡沫材料,不含卤素。泡孔孔径≤0.1 mm。
优良的介电性能。
推荐固化工艺：最高温度150° C、最大压力0.5MPa。

A PMI Based closed cell rigid foam material, halogen-free.Cell diameter ≤ 0.1 mm.
Excellent dielectric properties.
Recommended curing process: the maximum temperature is 150 ° C and
the maximum pressure is 0.5MPa.

HyboFOAM®E

主要用于雷达,天线,电子设备声学设备等领域

It is mainly used in radar, antenna,
electronic equipment and acoustic equipment

■ **HyboFOAM®E**
产品图片以及应用展示
Product pictures and application display



HyboFOAM®E系列
产品图片
Product pictures



HyboFOAM®E系列
产品图片
Product pictures

■ HyboFOAM®E系列局部
产品图片
Product pictures



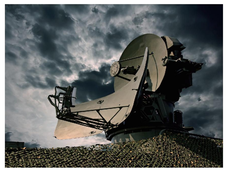


HyboFOAM®E系列
产品应用展示
Product pictures





HyboFOAM®E系列
产品应用展示
Product pictures





HyboFOAM®E系列
产品应用展示
Product pictures



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Product pictures

HyboFOAM®CRH
系列产品介绍

一种基于PMI的闭孔刚性泡沫材料,不含卤素。
泡孔孔径≥0.1 mm。
通过UL94-V0等级测试，具备优良的防火特性，可离火自熄灭。
推荐固化工艺：最高温度150° C、最大压力0.3MPa。

A PMI Based closed cell rigid foam material, halogen-free.Cell diameter ≥ 0.1 mm.
Through ul94-v0 grade test,
it has excellent fire protection characteristics and can be self extinguished without fire.
Recommended curing process:
the maximum temperature is 150 ° C and the maximum pressure is 0.3MPa.

HyboFOAM®CRH

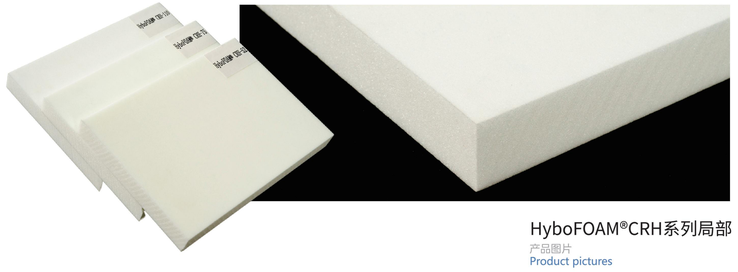
应用范围非常广泛，通常来说，适用于车辆/高速列车的三明治夹心结构复合材料部件,
比如内饰和壁板等，尤其对防火或者燃烧可挥发物有特别要求的部件。

The application range is very wide. Generally speaking, sandwich sandwich structure
composite parts, such as interior trim and wall panels, which are suitable for
vehicles / high-speed trains, especially those parts with special requirements for fire
protection or combustion of volatile substances.

■ **HyboFOAM®CRH**
产品图片以及应用展示
Product pictures and application display



HyboFOAM®CRH系列
产品图片
Product pictures



HyboFOAM®CRH系列局部
产品图片
Product pictures









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HyboCORE®T
系列产品介绍

一种基于PMI的闭孔刚性泡沫材料，不含卤素。泡孔孔径0.1-0.3 mm。
优异的断裂延伸率，在保证力学性能的前提下，提高了韧性。
推荐固化工艺：最高温度150° C、最大压力0.3MPa。

A PMI Based closed cell rigid foam material, halogen-free.The cell diameter is 0.1-0.3 mm.
Excellent fracture elongation improves toughness on the premise of
ensuring mechanical properties.Recommended curing process:
the maximum temperature is 150 ° C and the maximum pressure is 0.3MPa.

HyboCORE®T

成本极具优势,与PVC泡沫芯材处在同一水平。在不影响材料成本的前提下，
客户可以采用较高的固化温度与更快的固化速度，降低工艺和制造成本

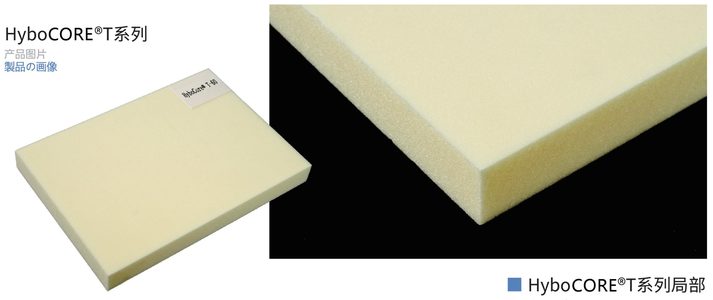
The cost is extremely advantageous, which is at the same level as the PVC foam
core material. On the premise of not affecting material cost, customers can adopt higher
curing temperature and faster curing speed to reduce process and manufacturing costs.

■ **HyboCORE®T**
产品图片以及应用展示
Product pictures and application display



HyboCORE®T系列
产品图片
Product application display

HyboCORE®T系列
产品图片
製品の画像



■ HyboCORE®T系列局部
产品图片
Product application display





HyboFOAM®E系列
产品应用展示
Product application display



HyboFOAM®E系列
产品应用展示
Product application display

CNC数控中心 Computer Numerical Control

浩博科技的CNC数控中心成立于2018年，从创立之初就拥有了规模化生产的能力
可以完美的驾驭三轴或五轴数控机床，并且拥有极其精确的加工能力
可以做到加工精度**±0.01**

我们制品大多数服务于，
航空航天、轨道交通、新能源汽车、医疗、船舶、3C电子、运动器材等。
因为我们的生产效率高，且工艺制程稳定，
并且能够可以根据PMI泡沫的特性研究出相对应的加工方式，从而减轻客户的工作量



■ CNC数控中心
场景展示 Scene display

The CNC CNC center of Haobo technology was estab-
lished in 2018. Since its inception, it has the capacity of
large-scale production. It can perfectly control three-axis
or five-axis CNC machine tools, and has extremely
accurate processing capability, which can achieve a
processing accuracy of ± 0.01.

Most of our products serve
aerospace, rail transit, new energy vehicles, medical,
shipping, 3C electronics, sports equipment, etc.
Because our production efficiency is high and the process
is stable, and we can research the corresponding
processing methods according to the characteristics of
PMI foam, thus reducing the workload of customers





CM加工中心 Cm machining center

浩博科技的CM加工中心成立于2019年
虽然成立的时间短，但是却拥有用了大量丰富的经验
我们拥有非常丰富的复合，多种类型的环氧树脂，胶膜；
同时可将碳纤维，玻璃纤维或这种金属薄膜
与PMI泡沫进行复合大大提升了我们力学性能。

在复合工艺和工具上，浩博科技也是拥有多种不同的器械，

例如热压罐或传统的真空负压加热固化的方式来进行复合。

Haobo technology's cm processing center was established in 2019. Although it has been established for a short time, it has used a lot of rich experience. We have a very rich composite, a variety of types of epoxy resins and adhesive films; At the same time, carbon fiber, glass fiber or this metal film can be combined with PMI foam, which greatly improves our mechanical properties.

In terms of composite technology and tools, Haobo technology also has a variety of different instruments, such as autoclave or traditional vacuum negative pressure heating and curing.







■ CM加工中心
场景展示 Scene display

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