

# ZCMC



Tony Shen 86 13646720020 (WeChat same number)

Zhuang Chen precast concrete mold - to be the best construction mold company  
in China

[www.zcmade.com](http://www.zcmade.com)


PC mold, Fixed tables

Municipal road and bridge prefabricated molds

Pipe gallery mold

Prefabricated components are supported by tooling shelves and spreaders





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## 01 公司简介 Company profile





Factory

Zhejiang Zhuangchen Construction Technology Co., Ltd. is located in Deqing County, Huzhou City, Zhejiang Province, plant area of 14,000 square meters, the company since 2009 specializing in the construction of industrialized PC molds, mold platforms, municipal road and bridge prefabricated molds, pipe gallery molds and prefabricated components supporting tooling shelves and spreaders design, manufacturing.

He has hired Japanese mold expert Takashi Kanda as a technical guide, and the main technical backbone has gone to Japan to learn mold technology, and is the first batch of mold design and production technical talents in China. At present, it has a mold technical team of 30 people.

In 2021, branches will be set up in Huizhou, Guangdong and Fuzhou, Fujian, with a plant area of 4,000 square meters each.





ZhuangChen headquarters



Fujian ZhuangChen



ZhuangChen, Zhejiang



Guangdong ZhuangChen





workshop

1. The earliest company engaged in PC mold design and processing in China, with more than 10 years of industry experience;
2. It has three major factories in Deqing, Zhejiang, Chengdu, Sichuan and Huizhou, Guangdong, which can serve customers collaboratively;
3. 1300 tons of PC molds per month (700 tons in Zhejiang factory, 300 tons in Fujian and Guangdong factories, excluding mold tables and other molds, tooling shelves, etc.), and a production capacity of 500 molds;
4. The company has 6 sets of high-power laser cutting machines, of which 3 laser generators have a power of 12kw, the maximum cutting size can reach 3 meters \* 18 meters, and the cutting accuracy  $\pm 0.1\text{mm}$ ;
5. Wide business coverage: with the Yangtze River Delta market as the core, radiating the whole country. There are cooperative customers in the north to Heilongjiang, south to Hainan, and west to Xinjiang;
6. Have a professional after-sales service team to meet the needs of the business covering the whole country, and are committed to providing fast and high-quality services;
7. The company has export qualifications: the mold has been exported to Japan, Malaysia and other countries;
8. The company has passed 9001 quality management, 45001 occupational health management, 14001 environmental management system certification, is a "national high-tech enterprise", has 29 patent certificates。





1. PC mold



2. Fixed tables



3. Prefabricated components  
supporting tooling shelves and  
spreaders



4. Pipe gallery mold



5. Prefabricated member columns



6. Prefabricated stadium grandstand  
board





Japanese training



Japanese training



Japanese training



Japanese training



Internal quality standards of Zhuangchen for PC mold

PC 模具庄辰内部质量标准

一、零组件的外观质量

- 1. 零件表面应无焊渣、无碰伤、拉毛、无钢印，应去毛刺、倒角应符合图纸要求。
- 2. 表面无加工螺旋纹、接刀痕等缺陷。
- 3. 表面应保证光洁无锈斑。
- 4. 钻孔、攻牙必需去毛刺。
- 5. 焊点均匀、美观、牢固。

一、Appearance quality of the components

- 1. Surface of the parts should be no welding slag, no bumps, nap, no stamp, should deburr and chamfer, chamfer should meet the requirements of the drawings.
- 2. Surface without processing spiral, marks and other defects.
- 3. Surface should be smooth to ensure no rust.
- 4. Deburring is required while drilling and tapping.
- 5. Solder joints should be uniform, smooth, stable.

二、零件尺寸应符合图纸要求，

未注尺寸公差（见标准公差数值）

二、Part measurements should meet the requirements of the drawings Tolerance does

not note (see standard tolerance values)

PC模具标准公差数值 PC mold standard tolerance values

| 公差等级<br>Tolerance level | 基本长度范围 Range of basic length |            |             |              |               |        |
|-------------------------|------------------------------|------------|-------------|--------------|---------------|--------|
|                         | <100                         | >100 ~ 500 | >500 ~ 1000 | >1000 ~ 3000 | >3000 ~ 30000 | >50000 |
| K                       | 0.2                          | 0.3        | 0.4         | 0.5          | 0.8           | 1      |

三、直线度和平面度的未注公差值见表1

表1给出了直线度和平面度的未注公差值。在表1中选择公差值时，对于直线度应按其相应线长度选择，对于平面度应按其表面的较长一侧。

Straightness and flatness of a tolerance value are shown in Table 1. In Table 1, select the tolerance value, for straightness should be the appropriate length choice, for the flatness should be the longer side of its surface

表1 直线度和平面度的未注公差数值 Straightness and flatness of a tolerance value

| 公差等级<br>Tolerance level | 基本长度范围 Range of basic length |            |             |              |              |       |
|-------------------------|------------------------------|------------|-------------|--------------|--------------|-------|
|                         | <200                         | >200 ~ 500 | >500 ~ 1000 | >1000 ~ 2000 | >2000 ~ 4000 | >4000 |
| K                       | 0.3                          | 0.4        | 0.5         | 0.6          | 0.8          | 1     |

四、垂直度的未注公差值见表2

表2给出了垂直度的未注公差值。取水平固定平台作为基准，PC模具表面作为检测要素。

Verticality of a tolerance values which is not indicated is shown in Table 2.

Verticality of a tolerance values is shown in Table 3. Taken as the base level of fixed platforms, PC mold surface consider as the measured elements.

表2

| 公差等级<br>Tolerance level | 基本长度范围 Range of basic length |          |          |      |
|-------------------------|------------------------------|----------|----------|------|
|                         | <100                         | >100~300 | >300~600 | >600 |
| K                       | 0.2                          | 0.3      | 0.4      | 0.5  |

五、焊接长度（间距）的未注公差值见表3

表3给出了焊接的未注要求

Welding length, spacing of a tolerance value which is not indicated are shown in Table 3

Table 3 show the requirement of welding which is not indicated.

表3

| 公差等级<br>Tolerance level | 基本长度范围 Range of basic length |           |           |           |
|-------------------------|------------------------------|-----------|-----------|-----------|
|                         | <20                          | >200~500  | >500~1000 | >1000     |
| K                       | 20*5 (80)                    | 25*5(120) | 25*5(150) | 30*6(200) |

六、组装对角线、配合间隙的未注公差见表4

表4给出了组装时对角线/间隙公差要求。

Assembly diagonal, gap of a tolerance value which is not indicated are shown in Table 4.

Table 4 shows the requirement of assembly diagonal /gap tolerance

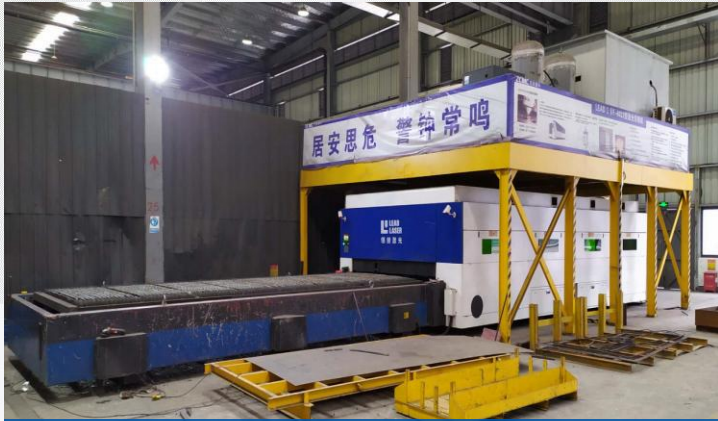
表3

| 公差等级<br>Tolerance level | 基本长度范围 Range of basic length |            |            |       |
|-------------------------|------------------------------|------------|------------|-------|
|                         | <1000                        | >1000~2000 | >3000~4000 | >4000 |
| K                       | 0.4/0.2                      | 0.6/0.3    | 1/0.4      | 2/0.5 |

（注：以上L表示中等公差）“K”=above indicates a medium tolerance

Internally, we use export Japanese standards





3 sets of 12KW large laser cutting machine



Large table top laser cutting machine



Shearing machine



Edge milling machine



Bending machine



Blast equipment





Mold designer training



Workshop technician training



Add technical power



Technical manuals





In 2019, it obtained the certificate of "high-tech enterprise".









Leadership care

On the afternoon of October 9, 2017, Xiang Yongdan, director of the Department of Housing and Urban-Rural Development of Zhejiang Province, led a delegation of provincial housing system leaders to visit Zhongtian Deqing Construction Industrial Park to guide the work and inspect our company.





# 02 产品介绍

Product introduction





PC mold



Wall panel components



Stacked board components



Bay window widget



Balcony elements



Stair components



Beam and column components

PC mold is a necessary tool used by the factory to pour concrete and mold it through design and production, and is an important part of building industrialization.



Component  
sheets

Mold  
design

Cutting,  
unloading

Bending,  
milling  
edges

Welding,  
grinding

Assembly,  
inspection

1

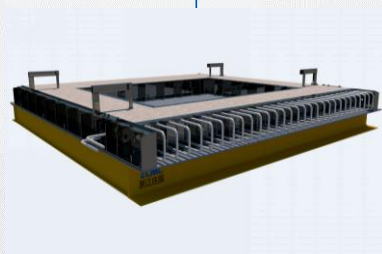
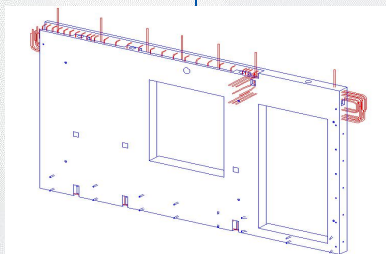
2

3

4

5

6







Vertical staircase mold



Push-pull stair mold



Horizontal staircase mold



Scissors stair components



Flip the staircase mold to use the site



Half-sided scissors staircase mold

1, component type: scissor ladder (half-side type), double running ladder, etc.; 2, mold type: vertical and horizontal, etc.; 3, demolding mode: push and pull mode and flip mode, etc.





1. The use site of the stair mold



2. The use of stair molds



3. Finished stair components

Stair elements can be combined with cast-in-place buildings

Components made with stair molds are not prone to collapse during use. (The picture shows a project in Lanzhou, the main structure is made of aluminum mold)





Stacked plate molds



Double-layer stacked plate mold



Stacked board components



Stacking board mold use site



# Special-shaped molds

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Bay window molds



Balcony mold



Beam molds



Wall panel molds





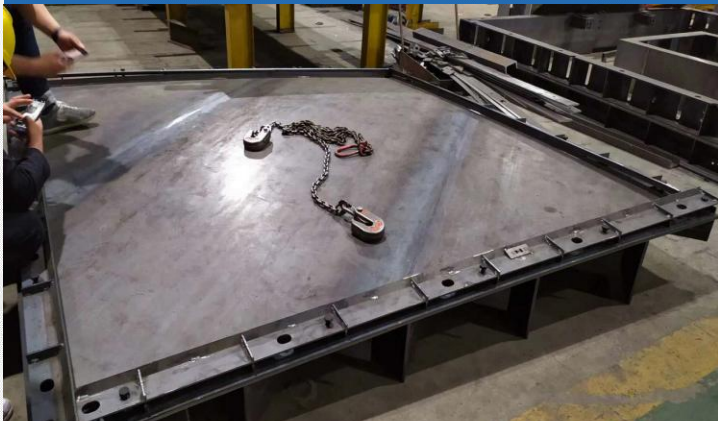
Large column molds



Elevator pit mold



Stadium grandstand board mold



Roofing mold with curvature



Double leather wall mold



Elevator shaft mold





Assembly line mold table



Fixed mold table



Stainless steel composite panel mold table



Vibrating die table



Maintenance mold table



Stacking die stages





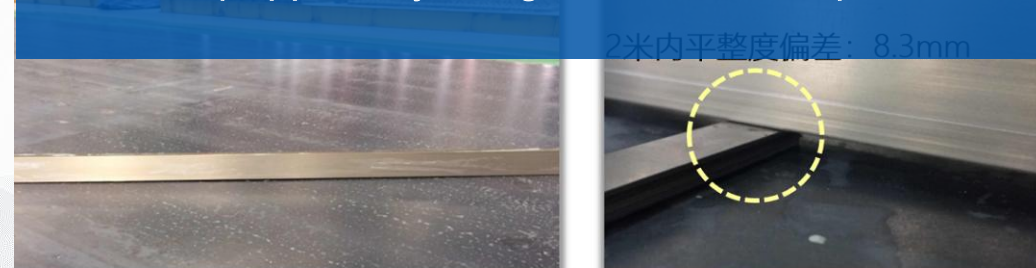
Mold table surface used by Customers in Tianjin for more than 2 years (supplied by our company)



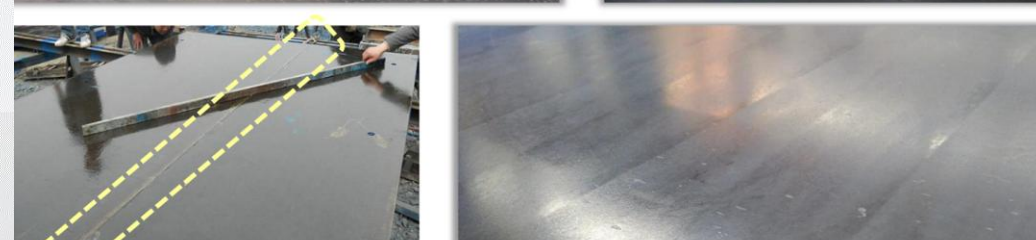
Flatness measurement before the mold table leaves the factory (our Sichuan Vanke project)



A customer in Shanghai used a 6-month mold table (supplied by Jiangsu manufacturer)



2米内平整度偏差: 8.3mm

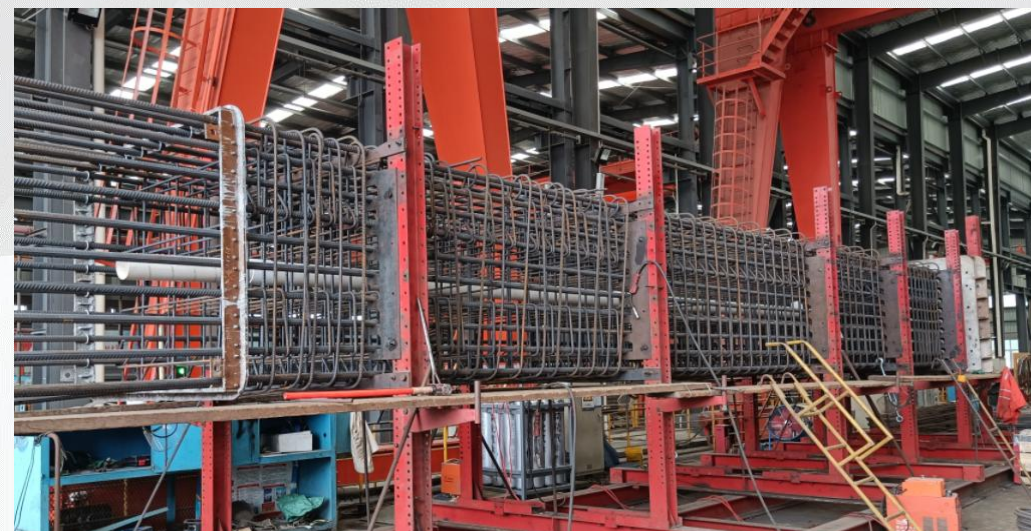


Deformation after a customer mold table in Zhejiang arrives at the factory (supplied by a steel structure manufacturer in Zhejiang)





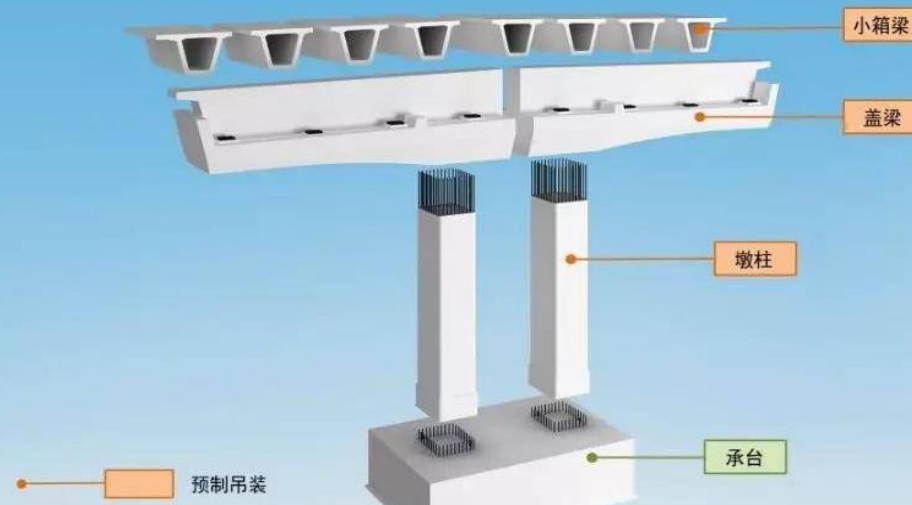
Pier post molds



Pier column reinforced tire frame



Pier member



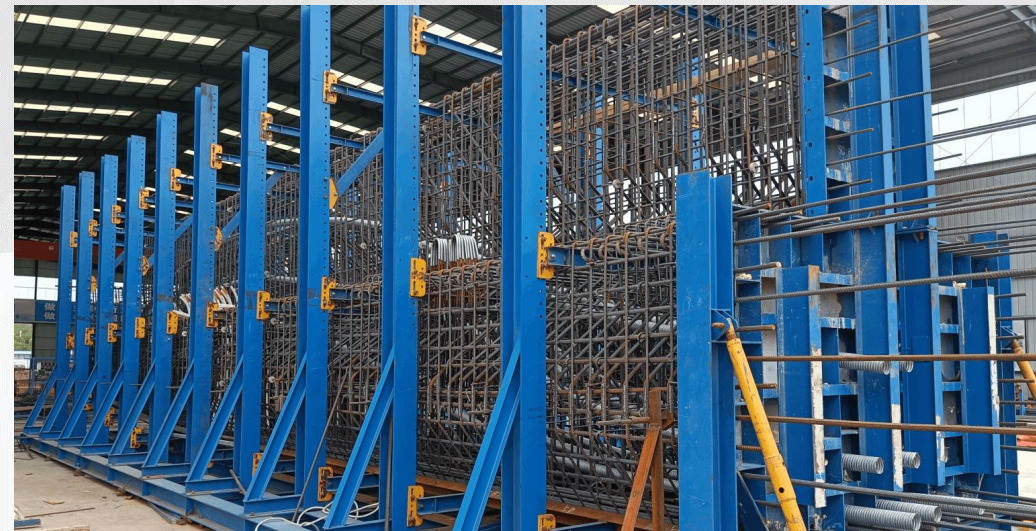
Schematic of an assembled bridge



# Municipal road and bridge prefabricated molds



Cover beam mold



Cover beam reinforced tire frame



Cover beam components



Prefabricated bridge construction site



# Municipal road and bridge prefabricated molds



T beam mold



Hydraulic T beam mold



T beam components



T beam mold use site





Pier post mold (cast-in-place)



Box girder dies



Guardrail mold



Hanging basket mold (cast-in-place)



Pier post mold (cast-in-place)





Vertical pipe gallery mold



Vertical pipe gallery mold processing site



Double-silo pipe gallery member



Multi-segment arc pipe gallery mold use site





Horizontal pipe gallery mold



Horizontal pipe gallery mold processing site



Single-warehouse pipe gallery components



Horizontal pipe gallery mold use site





Power pipe discharge mold



Cable well mold



Power pipe components



Cable well installation site



# Prefabricated components are supported by tooling shelves and spreaders



Single-layer stacking rack



Double-layer stacked panel stack



Multi-layer stacking rack



Wall panel transport rack



Wall panel transport rack



Wall panel stacking racks



# Prefabricated components are supported by tooling shelves and spreaders



Lifting hopper



Forklift hopper



Stair-specific hopper



Rotary handle hopper



Square hopper



# Prefabricated components are supported by tooling shelves and spreaders



The mold fixes the briquette



Mold table sweeper



Stacked plate spreaders



Release power hammer



Second-generation mold table sweeper



Reinforcement lashing tooling





# 03 经典案例

Classic Case





Exported to Japan column mold



Exported to Japan roof mold



Exported to Malaysia Mould



Exported to Japan molds



Exported to Malaysia Mold Platform





In the blue area, our company has cooperative customers, and Tibet and Inner Mongolia have not cooperated.





The above is only some of our cooperative customers.



This is one of the sales contracts signed between Samsung head office and our company, we are authorized by Samsung

ZCMC  
庄辰建科

做中国最优秀的 PC 模具公司  
www.zcmade.com

**SAMSUNG ENGINEERING CONSTRUCTION (Xi'an) CO., LTD.**  
www.samsungengineering.co.kr

**Purchase Order Contract**  
采购合同

FROM : Samsung Engineering Construction (Xi'an) Co., Ltd. (the "Buyer")  
Xi'an Samsung Project Head quarter  
Xitai Road, High-tech Zone, Xi'an City

Project Name : **Xi'an X2 Project**  
项目名称 : 西安 X2 工程

自: 三星工程建设(西安)有限公司(“买方”)  
西安市高新区西太路西安三星项目指挥部  
(韩方指挥部)

Project No. : SE-6135  
项目编号

PHONE : +86-156-1937-4340

Purchaser Order No.:  
合同号

TO: 浙江庄辰建筑科技有限公司 (“卖方”)

Requisition No. and Description:  
订单号及描述:

Date of Contract : 2017.10.19  
合同日期

Contract Delivery Date : 2017.12.20  
合同交货期

**CORRESPONDENCE**  
相关信息

Send copies of correspondence relating to prices or other commercial provisions of this Purchase Order to the attention of the Samsung Engineering Construction (Xi'an) Co., Ltd. authorized procurement representative named below at the address shown at top left above. Project, Purchase Order Number and Requisition Numbers must be referenced on all such correspondence.

将此采购合同中有关价格或其他商务条款的副本发送至左上角三星工程建设(西安)有限公司采购代表处。

项目采购合同号及订单号必须包括在内。

**SAMSUNG ENGINEERING**

**SAMSUNG ENGINEERING CONSTRUCTION (Xi'an) CO., LTD.**  
www.samsungengineering.co.kr

SELLER agrees to undertake the Work and furnish the Materials specified in full accordance with all conditions stated in this Purchase Order Contract, which consists of the following documents (the "Purchase Order" or "Contract")

卖方同意完全按照本采购合同(由下列各项文件构成)的规定执行工作并提供材料(“采购合同”或“合同”):

- ☐ This Form of Purchase Order Contract  
本采购合同范本
- ☐ Section 1 – Scope of Work and Pricing  
第一部分 工作范围及价格
- ☐ Section 2 – Requisition  
第二部分 订单
- ☐ Section 3 – Commercial MOM  
第三部分 商务会谈会议纪要
- ☐ Section 4 – General Terms and Condition  
第四部分 通用条款
- ☐ Section 5 – Conditions for Approved Site Specialist  
第五部分 指定现场专家条款
- ☐ Section 6 – Forms (Bond, Inspection forms, IRC)  
第六部分 格式(保函, 检验格式, 放行单)
- ☐ Section 7 – Shipping and Invoicing Instructions  
第七部分 运输和发票说明

The Purchase Order shall be read as a single document however the priority of interpretation and application of such documents shall be in the order as listed above.  
采购合同作为独立文件使用。上述文件按其排列顺序享有解释和适用的优先权。

ISSUED BY:  
签发方

BUYER'S AUTHORIZED REPRESENTATIVE  
买方授权代表

Samsung Engineering Construction (Xi'an) Co., Ltd.  
三星工程建设(西安)有限公司

Name: \_\_\_\_\_  
姓名  
Title: \_\_\_\_\_  
职位

ACCEPTED BY:  
签署方

SELLER'S AUTHORIZED REPRESENTATIVE  
卖方授权代表

浙江庄辰建筑科技有限公司

Name: \_\_\_\_\_  
姓名  
Title: \_\_\_\_\_  
职位



西恩 ZCMC 公司  
发件人: 崔恩旭 <@samsung.com> 自动回复  
时间: 2011年07月27日(星期四) 上午9:47  
收件人: sales@zcmade.com <sales@zcmade.com>; cai@zcmade.com <cai@zcmade.com>;  
抄送: 崔恩旭 <@samsung.com>

To : ZCMC  
From : SECL Xian X2 project, 崔恩旭 自启

Thank you for your collaboration to keep our Project progress.  
We look forward to your continuous assistance and interest.  
Wish your business prosperous!

With Best Regards,

崔恩旭 自启  
Hyun(wook) CHOI | 西安 Project Industrial & Environmental Business Div.  
SAMSUNG ENGINEERING CO., LTD

@samsung.com

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PTW wall panel mold



Prestressed beam molds



Construction site

**SAMSUNG**

(South Korea's Samsung-Xi'an Semiconductor Factory Project)

- 1、Production of 1000 tons of molds
- 2、customer thank you letter





Curved stacking boards are used on the spot



Curved stacking plate mold



(China State Construction -  
Zhengzhou High-speed Railway  
South Station Project)





Water Cube Arena

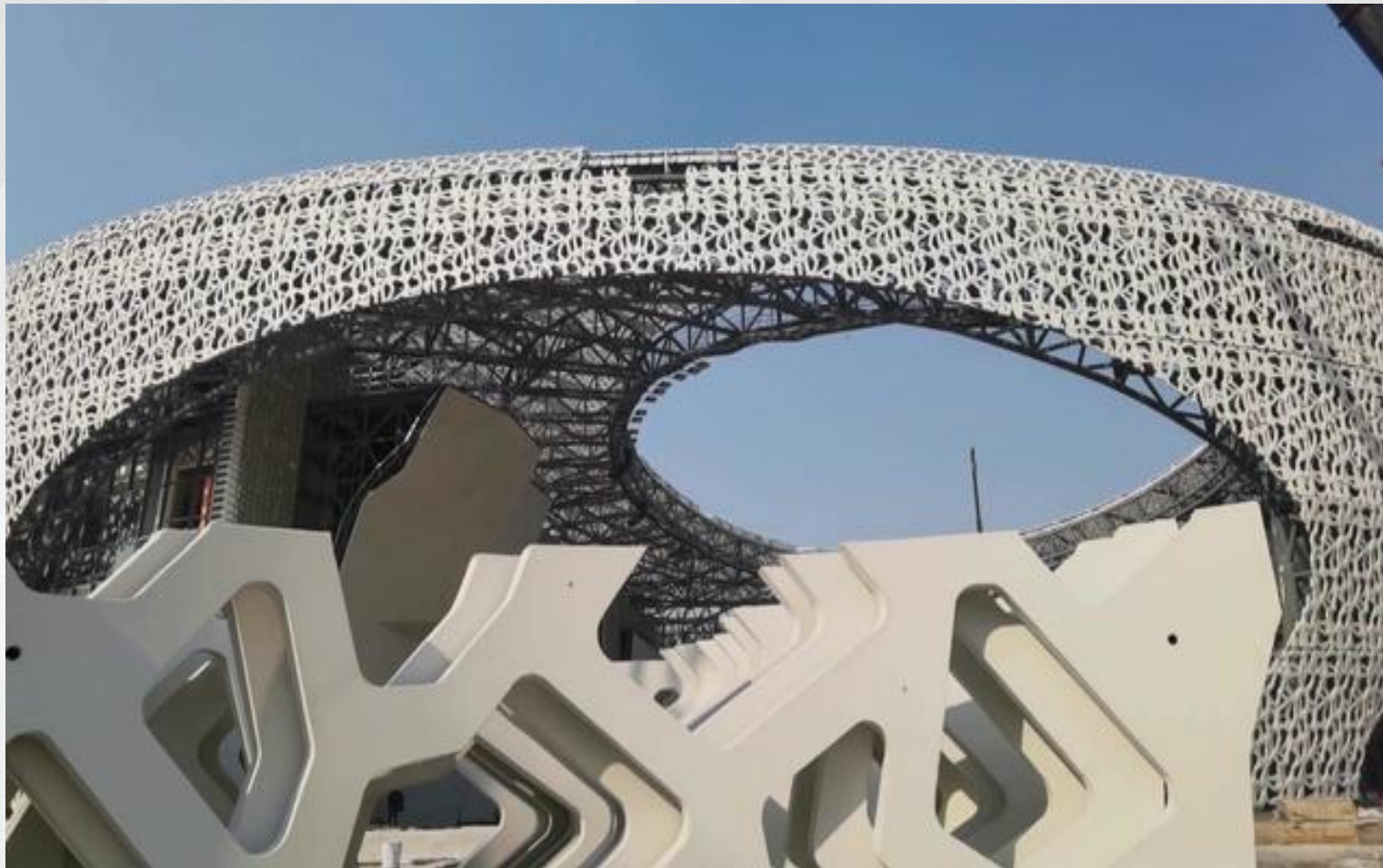


mold



(China Architecture - Winter  
Olympic Venue Renovation Project)





The most distinctive venue of the Asian Games, the Yangshan Rock Climbing Hall, appeared on the CCTV news network

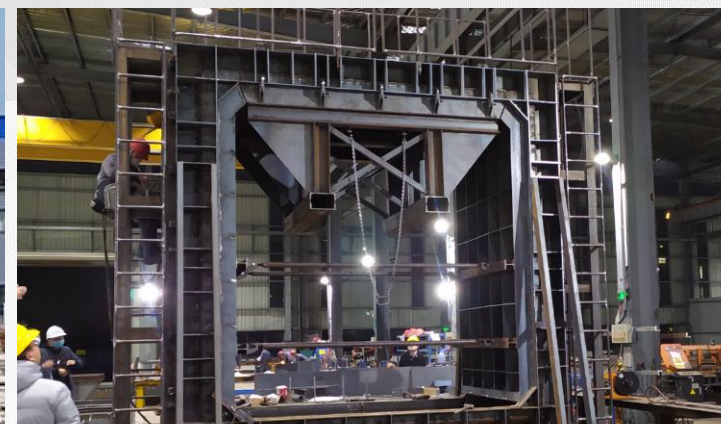


UHPC curtain wall mold



(Hangzhou 2022 Asian Games project)





(Guangxi Construction Engineering -  
Pipe Corridor Project)





# 04 联系方式

Contact information



# THANK YOU

Zhejiang Zhuangchen adheres to the enterprise spirit of "integrity, responsibility, focus and innovation", based on Zhejiang, radiates the whole country, and is committed to achieving the goal of "being the best construction mold company in China".

Tony Shen

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tony@zcmade.com



Tony  
WhatsApp 联系人



沈涛 Tony  
新加坡



扫一扫上面的二维码图案，加我微信



Zhejiang Factory: No. 18 Wuniushan Road, Deqing County, Huzhou City, Zhejiang Province (near Deqing Station)



Guangdong factory: Minsheng Machinery, Iron Field Industrial Zone, Shiwan Town, Boluo County, Huizhou City, Guangdong



No. 8 Xinggang Road, Kemen Industrial Zone, Lianjiang County, Fuzhou City, Fujian Province (close to Lianjiang Station)