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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

PC mold, Fixed tables

Municipal road and bridge prefabricated molds

Pipe gallery mold

Prefabricated components are supported by tooling shelves and spreaders

Contents

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01 公司简介
Company profile

Company Profile

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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 industriallZED 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.

Factory overview

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ZhuangChen headquarters

Fujian Zhuangchen

ZhuangChen, Zhejiang

Guangdong Zhuangchen

Company advantages

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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 ±0.1mm;
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。

Scope of business

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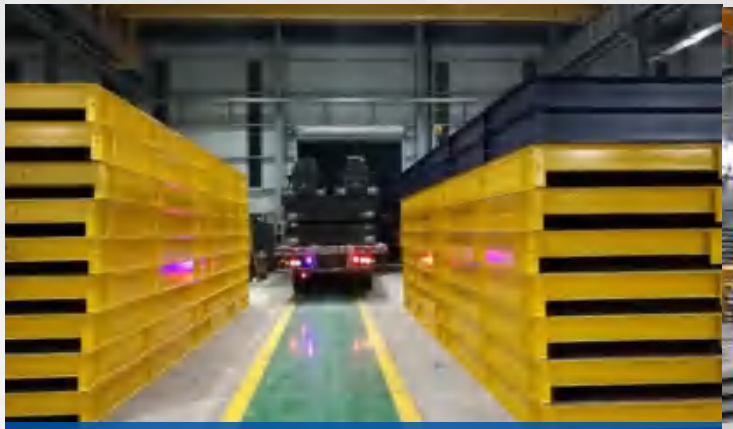
1. PC mold

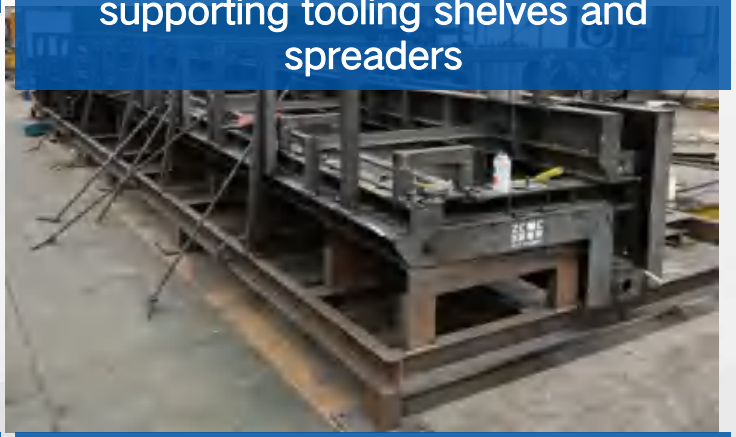


2. Fixed tables

3.Prefabricated components supporting tooling shelves and spreaders

4. Pipe gallery mold

5、Prefabricated member columns



6. Prefabricated stadium grandstand board

Japanese training

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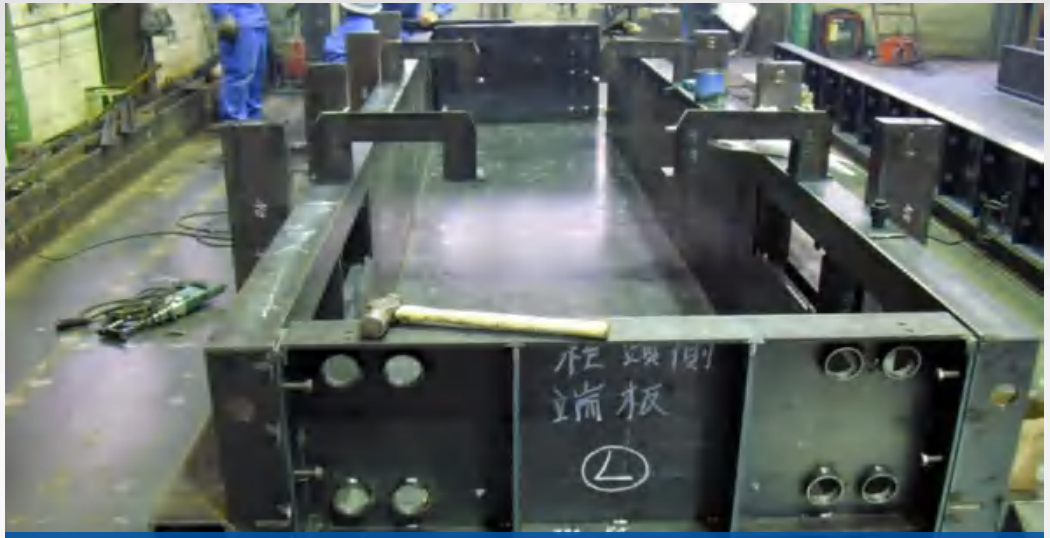
Japanese training



Japanese training

Japanese training

Japanese training

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Internal standards

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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 无磕伤拉毛 无刻印，应去毛刺角 ,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 mm

公差等级 Tolerance level	基本长度范围 Range of basic length					
	<100	>100 ~ 500	>500 ~ 1000	>1000 ~ 3000	>3000 ~ 3000	>5000
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 mm

公差等级 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		

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 模具表面作为被测要素。

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 mm

公差等级 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 mm

公差等级 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 s not indicated are shown in Table 4.

Table 4 shows the requirement of assembly diagonal /gap tolerance

表3 mm

公差等级 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 K 表示中等公差） "K"-above indicates a medium tolerance

Internally, we use export Japanese standards

Core equipment

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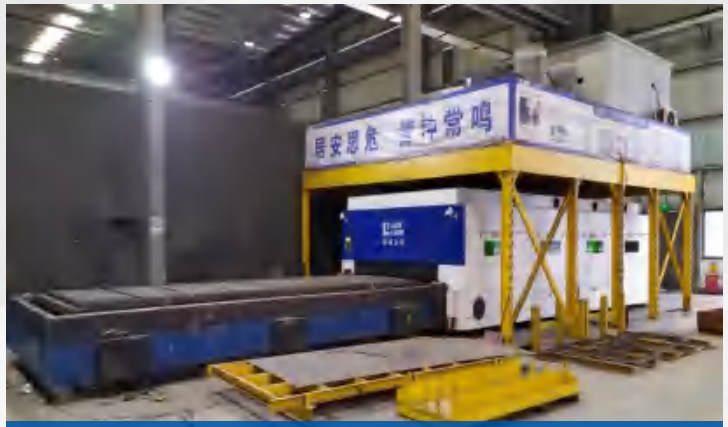

3 sets of 12KW large laser cutting machine

Large table top laser cutting machine

Shearing machine

Edge milling machine

Bending machine

Blast equipment

Technological power

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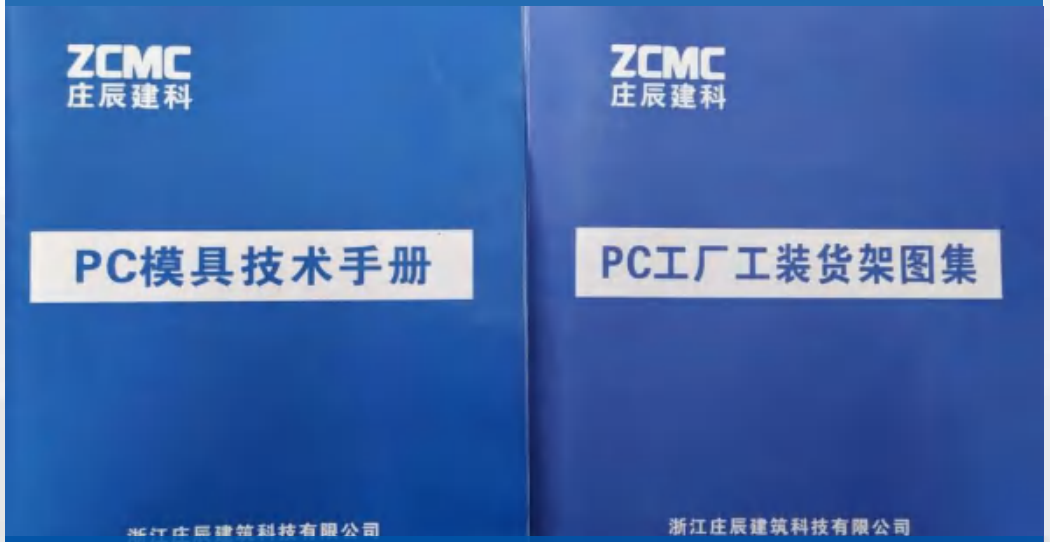
Mold designer training

Workshop technician training

Add technical power



Technical manuals

Enterprise honor

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High-tech enterprise

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

Enterprise honor

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CERTIFICATE

质量管理体系认证证书

证书编号：00219Q26051R0M

兹证明

浙江庄辰建筑科技有限公司

管理体系符合

GB/T 19001-2016/ISO 9001:2015
《质量管理体系 要求》

覆盖的产品和服务

预制构件精密模具、模台的设计开发和生产

生效日期：2019 年 11 月 06 日　有效期至：2022 年 11 月 05 日

注册号：CQM-33-2019-0149-0001

二零一九年十一月六日

Quality management system

CERTIFICATE

职业健康安全管理体系
认 证 证 书

证书编号：00219S22878R0M

兹证明

浙江庄辰建筑科技有限公司

管理体系符合

ISO 45001:2018
《职业健康安全管理体系 要求及使用指南》

覆盖的产品和服务

预制构件精密模具、模台的设计开发和生产及相关管理活动

生效日期：2019 年 11 月 06 日　有效期至：2022 年 11 月 05 日

注册号：CQM-33-2019-0149-0003

二零一九年十一月六日

Occupational health and safety management system

CERTIFICATE

环境管理体系认证证书

证书编号：00219E33501R0M

兹证明

浙江庄辰建筑科技有限公司

管理体系符合

GB/T 24001-2016/ISO 14001:2015
《环境管理体系 要求及使用指南》

覆盖的产品和服务

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生效日期：2019 年 11 月 06 日　有效期至：2022 年 11 月 05 日

注册号：CQM-33-2019-0149-0002

二零一九年十一月六日

Environmental management system

Leadership care

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.

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02 产品介绍

Product introduction

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PC mold

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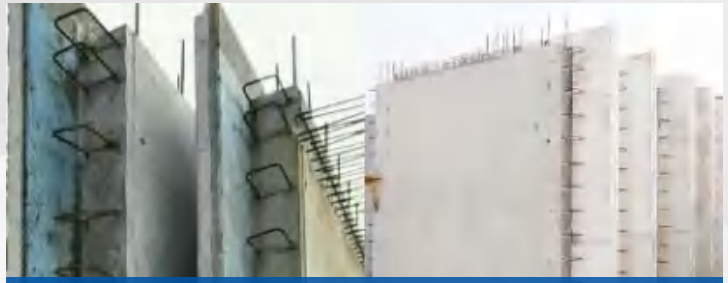
PC mold



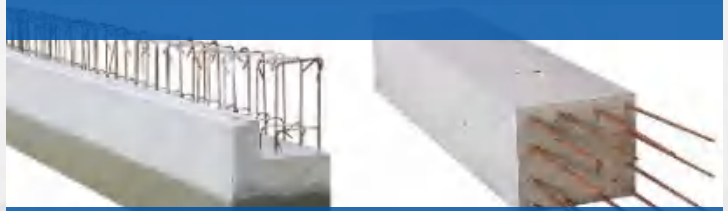
Wall panel components

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.

Production process

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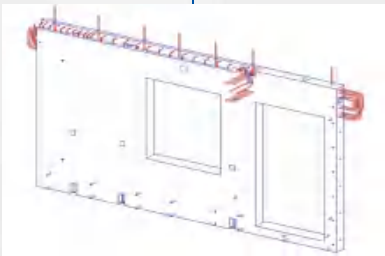
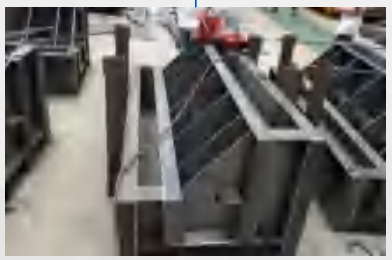
1. Component sheets
2. Mold design
3. Cutting, unloading
4. Bending, milling edges
5. Welding, grinding
6. Assembly, inspection





Stair molds

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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.

Stair molds

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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

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Stacked plate molds

Double-layer stacked plate mold

Stacked board components

Stacking board mold use site

Special-shaped molds

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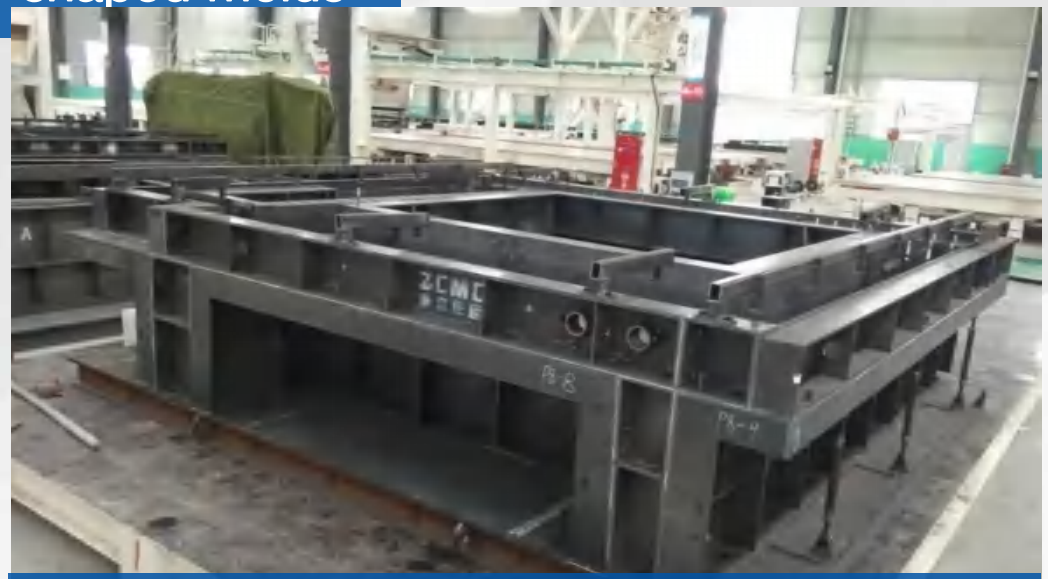

Bay window molds

Balcony mold

Beam molds

Wall panel molds

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Special-shaped molds

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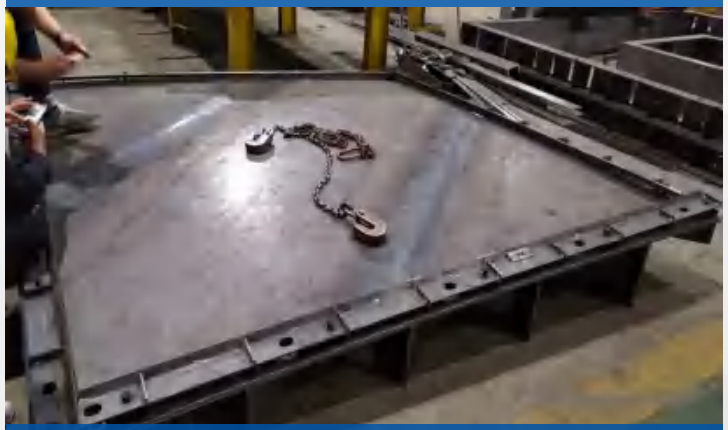
Large column molds

Elevator pit mold

Stadium grandstand board mold



Roofing mold with curvature

Double leather wall mold

Elevator shaft mold

Fixed tables

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Assembly line mold table

Fixed mold table

Stainless steel composite panel mold table

Vibrating die table

Maintenance mold table

Stacking die stages

Fixed tables

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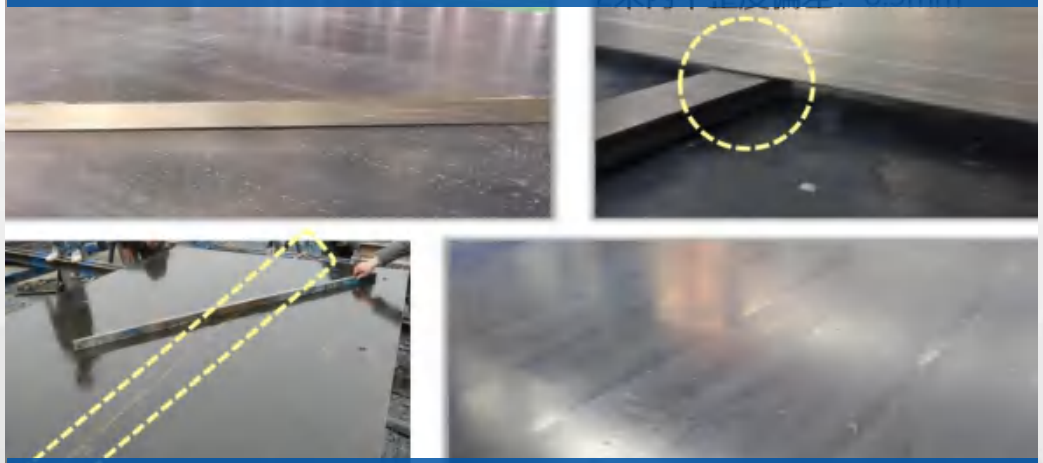
Mold table surface used by Customers in Tianjin for more than 2 years (supplied by our company)

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

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



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

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Municipal road and bridge prefabricated molds

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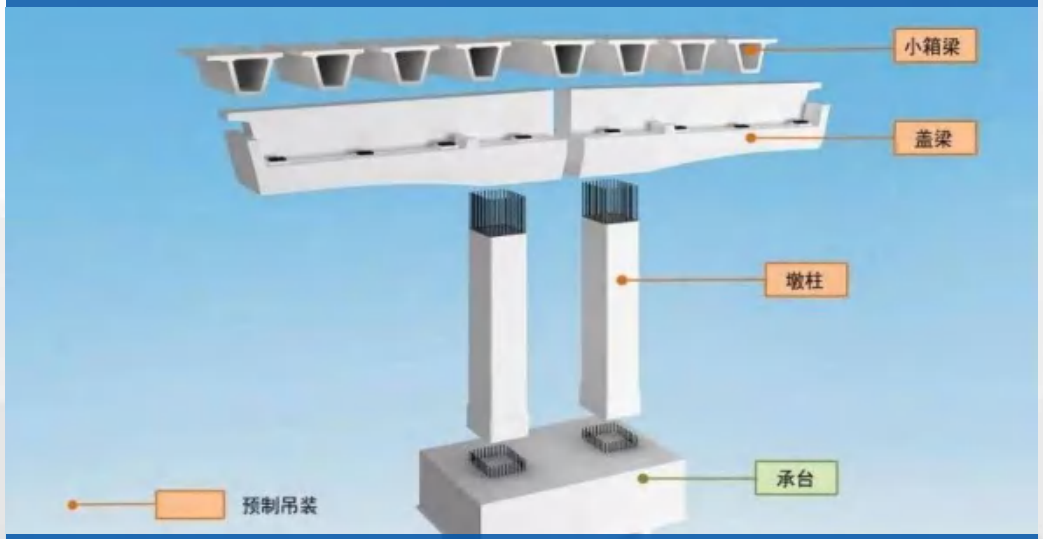
Pier post molds

Pier column reinforced tire frame

Pier member



Schematic of an assembled bridge

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Municipal road and bridge prefabricated molds

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Cover beam mold

Cover beam reinforced tire frame

Cover beam components

Prefabricated bridge construction site

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Municipal road and bridge prefabricated molds

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T beam mold

Hydraulic T beam mold

T beam components

T beam mold use site

Municipal road and bridge prefabricated molds

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Pier post mold (cast-in-place)

Box girder dies

Hanging basket mold (cast-in-place)

Guardrail mold

Pier post mold (cast-in-place)

Precast CULVERT Mold

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Vertical pipe gallery mold

Vertical pipe gallery mold processing site

Double-silo pipe gallery member

Multi-segment arc pipe gallery mold use site

Precast CULVERT Mold

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Horizontal pipe gallery mold

Horizontal pipe gallery mold processing site

Single-warehouse pipe gallery components

Horizontal pipe gallery mold use site

Power projects

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Power pipe discharge mold

Cable well mold

Power pipe components

Cable well installation site

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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

Rotary handle hopper

Stair-specific hopper

Square hopper

Prefabricated components are supported by tooling shelves and spreaders

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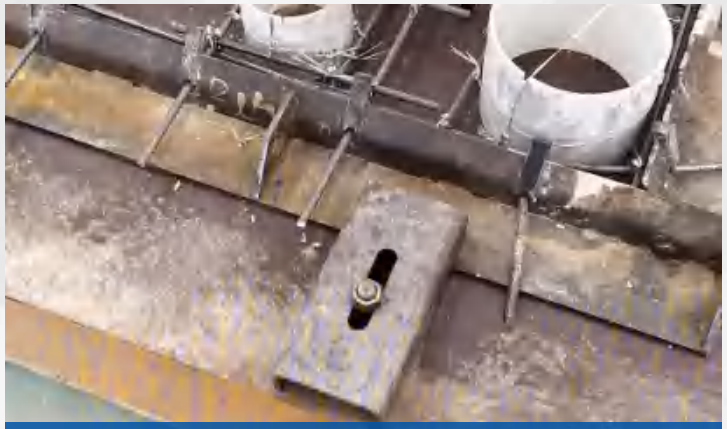

The mold fixes the briquette

Mold table sweeper

Stacked plate spreaders

Release power hammer

Second-generation mold table sweeper

Reinforcement lashing tooling

03 经典案例

Classic Case

International cases

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Exported to Japan column mold

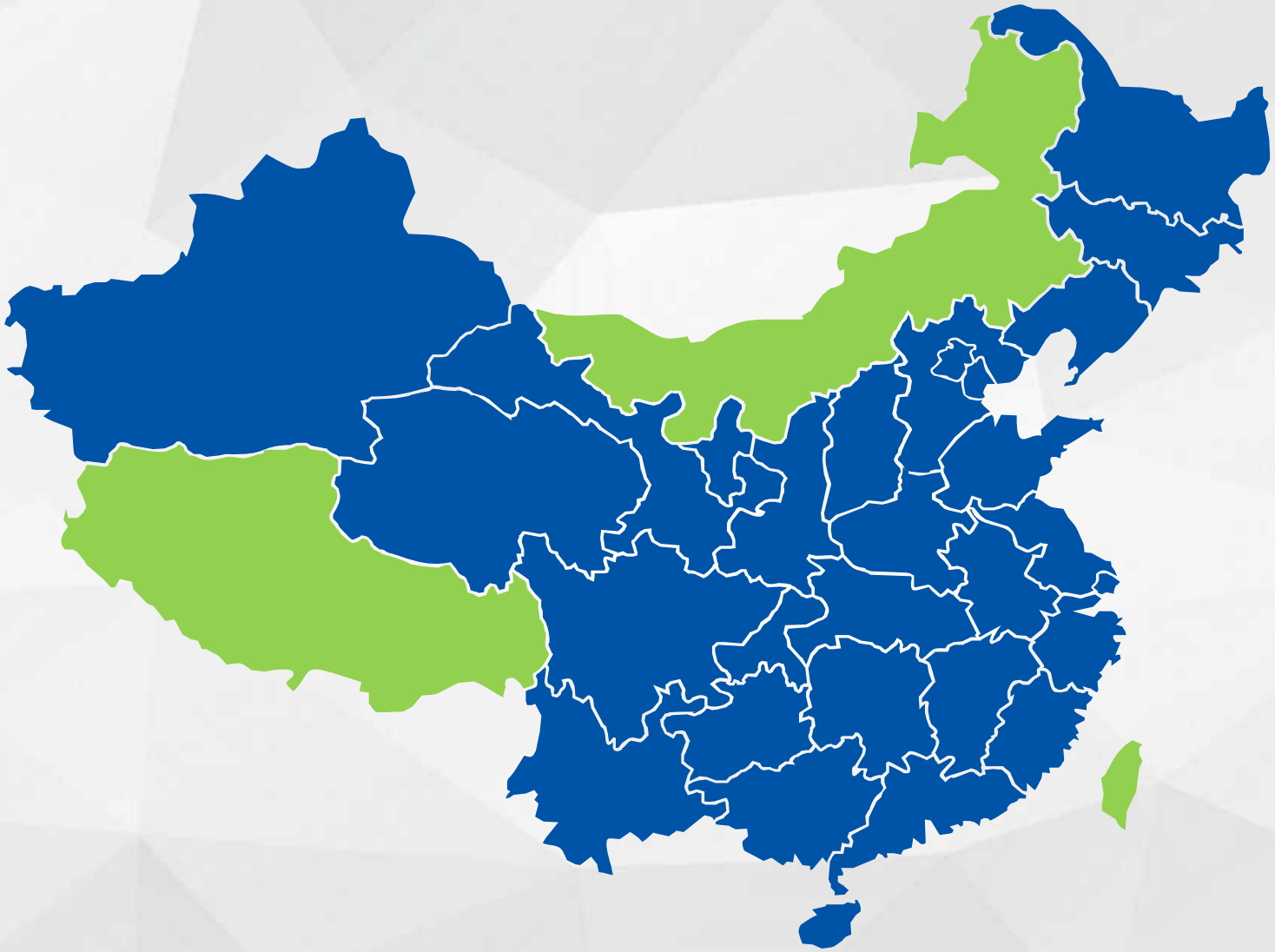
Exported to Japan roof mold

Exported to Malaysia Mould

Exported to Japan molds

Exported to Malaysia Mold Platform

国内案例



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

Cooperative customers

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中天建设 ZHONGTIAN CONSTRUCTION
SAMSUNG
vanke 万科
龙信集团 LONGXIN GROUP
宝业 BAOYE
華潤
碧桂园·森林城市 COUNTRY GARDEN PACIFICVIEW
MCC 中冶集团
上海城建集团 SHANGHAI CHENGJIAN JITUAN
中国建筑
中国电建 POWERCHINA
中国交建
上海建工
CMIG Drawin
北京市政路桥 BMRB
中国中铁
远大住工
天津住宅集团 TIANJIN HOUSING GROUP

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

SAMSUNG ENGINEERING

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

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)

PHONE : +86-156-1937-4340

TO:

至：浙江庄辰建筑科技有限公司 （"卖方"）

PHONE
FAX

Project Name : 项目名称 ：	**Xi'an X2 Project** 西安 **X2** 工程
Project No. : 项目编号	SE-6135
Purchaser Order No.: 合同号	
Requisition No. and Description: 订单号及描述:	
Date of Contract : 合同日期	2017.10.19
Contract Delivery Date : 合同交货期	2017.12.20

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。

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做中国最优秀的 PC 模具公司
www. zcmade. com

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。

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BUYER'S AUTHORIZED REPRESENTATIVE 买方授权代表	SELLER'S AUTHORIZED REPRESENTATIVE 卖方授权代表
Samsung Engineering Construction (Xi'an) Co., Ltd. 三星工程建设（西安）有限公司	浙江庄辰建筑科技有限公司
Name: 姓名	Name: 姓名
Title: 职位	Title: 法人代表 职位

PARK CHANGMIN

良单印章

Classic case

ZCMC
庄辰建科

To : ZCMC

From : SECL Xian X2 project, [illegible]

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,

[illegible]

Hyun(Hook) CHOI | [illegible] Project Industrial & Environmental Business Div.

SAMSUNG ENGINEERING CO., LTD

@samsung.com

The above message is intended solely for the named addressee and may contain trade secret, [illegible] otherwise protected under applicable law including the Unfair Competition Prevention and Trade Secret Protection Act [illegible] If you have received this communication in error, please notify the sender by email and delete this communication immediately [illegible]

PTW wall panel mold

Construction site

Prestressed beam molds

SAMSUNG

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

1、 Production of 1000 tons of molds

2、 customer thank you letter

Classic case

ZCMC
庄辰建科

Curved stacking boards are used on the spot

Curved stacking plate mold

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

Classic case

ZCMC
庄辰建科

Water Cube Arena

mold

(China Architecture - Winter Olympic Venue Renovation Project)

Classic case

ZCMC
庄辰建科

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

UHPC curtain wall mold

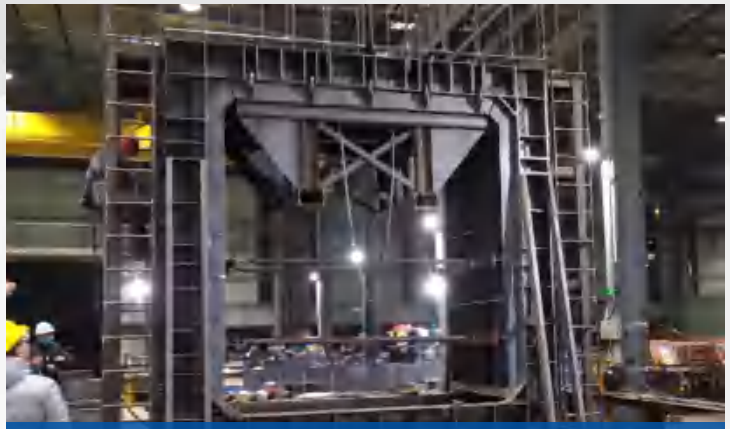
19th Asian Games
Hangzhou 2022

（Hangzhou 2022 Asian Games project）

Classic case

ZCMC
庄辰建科

Case scene



Pipe gallery mold

(Guangxi Construction Engineering - Pipe Corridor Project)

04 联系方式

Contact information

Contact details

ZCMC
庄辰建科

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
Whatsapp/Wechat:+86 13646720020
tony@zcmade.com

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)