

混凝土与水泥制品装备

Concrete and Cement Product Equipment



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青岛环球重工科技有限公司
Qingdao Hicorp Heavy Industry Science & Technology Co., Ltd.

founded in 1966

集团始建于1966年

高精模具·制造专家

青岛环球集团始建于1966年，历经半个世纪的发展，全球人坚持“以客户为中心，用创新引领行业先锋”的核心价值观，注重技术创新，加快提升企业核心竞争力，不断提升产品科技含量，已经成长为以重工装备、智能仓储物流设备、纺织机械、汽车配件、医用生物液氮罐为主导产业的现代化企业集团。五十年来，企业先后被评为国家火炬计划重点高新技术企业，国家“守合同重信用”企业，“模范职工之家”。被工信部授予智能制造试点示范企业和服务型制造示范企业；公司拥有国家企业技术中心、国家认可实验室。

青岛环球重工科技有限公司是集盾构管片模具、风电混塔模具、装配式地铁站模具、轨道板及箱型梁模具、整体箱涵模具、预制方涵模具、生态构件及海绵城市构件模具、盾构管片生产线、智慧梁场生产线、中小型构件生产线、PC构件生产线、轻质墙板生产线等制造销售于一体的工程装备制造公司。

公司通过不断改进及创新完善，形成了独到的模具研发制造理念和技术工艺，先后参与了国内多条地铁、综合管线下工程模具及生产线的研发和制造。公司加工装备先进，加工精度高，从而保证了生产模具的公差精度和成品率；同时，公司模具还具有操作容易，开合模简单的特点，大大提高了水泥制品的生产效率；其中地铁管片模具和综合管廊模具均采用先进的附着式振动方式，极大地节省了人工成本。

公司秉承“以客户为中心，用创新引领行业先锋”的企业核心价值观，本着“诚实守信 合作共赢”的经营原则，竭诚为全球客户推出蕴含中国智慧的优秀产品，与国内外朋友携手共创双赢互惠的美好未来。

Qingdao Hicorp Group finds its origin in 1966. In half a century of development, Hicorp people always adhere to the core value concept of "Focusing on Customers, Leading the Industry by Innovation", paying more attention to technological innovation, accelerating the improvement of corporate core competitiveness. With constant improvement of technology content in products, Hicorp Group is becoming a modern enterprise group with heavy industry equipment, intelligent warehousing and logistics equipment, textile machinery, auto parts, and medical biological liquid nitrogen tanks as the leading industries. In the past 50 years, the corporate has been rated as a key high-tech enterprise of the National Torch Program, a national "Contract-honoring and Credit-respecting Enterprise", a "Model Home for Workers", also awarded by the Ministry of Industry and Information Technology as an intelligent manufacturing pilot demonstration enterprise and a service-oriented manufacturing demonstration enterprise; the corporate also has a national enterprise technology center and a nationally recognized laboratory.

Qingdao Hicorp Heavy Industry Science & Technology Co., Ltd. is a construction equipment manufacturer, integrating manufacturing and sales of tunnel lining segment molds, concrete tower molds, prefab station component molds, track plate molds, box girder molds, integral box culvert molds, prefabricated utility gallery molds, ecological component molds, tunnel segment carousel, intelligent girder carousel, special-shape precast concrete element carousel, PC structure carousel, and lightweight wall panel production lines.

Through constant improvement and innovation, we have developed a unique concept and our own technology of mold development and manufacturing. Hicorp has participated in the research & development and fabrication of molds and production lines for many metro tunnels and underground utility gallery projects in China. Our company has advanced processing equipment with high machining accuracy, which ensures the tolerance precision and the yield of mold production. Moreover, our molds have the advantages of easy operation and simple opening and closing, which greatly improve the production efficiency of concrete products. Particularly, our segment mold and utility gallery mold adopt the most advanced attached vibrators mode, which saves labor costs to the utmost.

Hicorp will keep adhering to our core value concept of "Focusing on Customers, Leading the Industry by Innovation", and following the business principle of "honest operation and win-win cooperation", dedicate to provide excellent products with Chinese intelligence to Hicorp customers, and create a bright future of mutual benefit with business partners at home and abroad.



盾构管片模具

Tunnel Lining Segment Mold

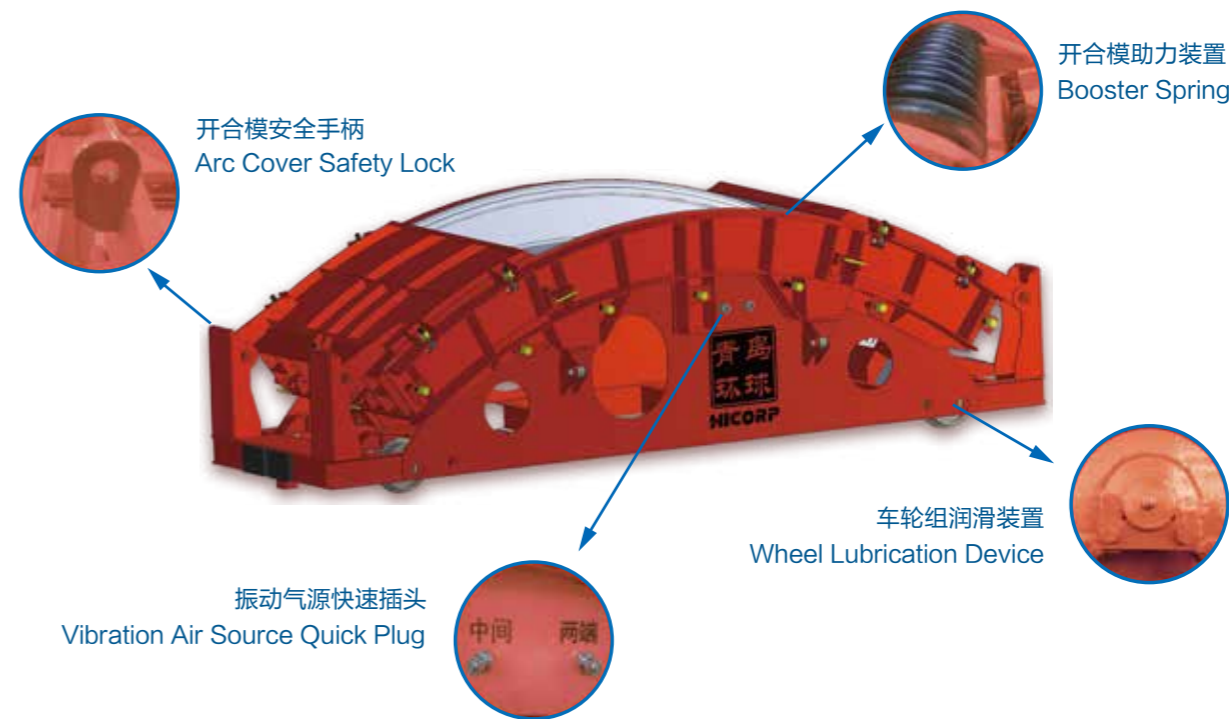
■ 盾构管片模具 Tunnel Lining Segment Mold

盾构法隧道衬砌管片模具就是为生产盾构管片而设计的，与其他类型的模具相比，设计和制造要求都非常高。成型隧道结构质量优劣与隧道混凝土管片的质量密不可分，混凝土管片的质量在很大程度上取决于钢模具的质量。

Tunnel Lining Segment Mold is tailor-designed for the production of precast concrete lining segments in shield tunneling. Compared to other types of molds, the design and manufacturing requirements of the segment mold are both strict. The quality of the formed tunnel structure is inseparable from the quality of the precast concrete segments, while the quality of the segments depends to a large extent on the quality of the steel segment mold.



盾构管片模具
Tunnel Lining Segment Mold



■ 盾构管片模具特点

Tunnel Segment Mold Characteristics

- ◆ 模具加工精度高
- ◆ 连续生产不变形
- ◆ 附着式振动振捣密实
- ◆ 嵌入式密封不漏浆
- ◆ High machining precision
- ◆ No deformation in continuous production
- ◆ Compact concreting with attached vibration
- ◆ Anti-leakage with embedded seal



盾构管片模具

Tunnel Lining Segment Mold

盾构管片生产线

Tunnel Lining Segment Carousel

◆管片模具尺寸检测 Size Inspection



序号 NO.	项目 Item	允许偏差 Tolerance (mm)	检验工具 Measurement Tool	检查数量 Measurement Frequency
1	宽度 Width	-0.2,0	内径千分尺 Inner Diameter Micrometer	6点/个 6 points/each
2	弧、弦长 Arc Length	-0.4,+0.4	钢卷尺 Steel Tape Ruler	2点/个, 每点2次 2 points/each, 2 times/point
3	内腔高度 Cavity Height	-0.8,+0.8	深度尺 Depth Gauge	4点/个 4 points/each

◆管片成品检测 Segment Product Testing



三环拼装
Three-ring assembled

抗拔试验台
Pull-out test stand

抗渗试验台
Impermeability test stand

◆管片生产辅助设备 Ancillary Equipment



抗弯实验台
Bending test stand

真空吸盘
Vacuum lifter

翻转机
Turning device

公司自主研发高精度管片模具及生产线制造技术，通过不断改进和创新，形成独到的柔性管片生产线及隧道窑式管片生产线研发制造理念和技术工艺，从客户厂区设计到产品研发，我们均可提供项目需要的整套解决方案。



Hicorp Group independently researches and develops high-precision segment molds and production line manufacturing technologies. Through continuous improvement and innovation, we have developed a unique R&D and manufacturing concept and technical process for both flexible segment carousel and tunnel curing mode segment carousel. From plant design to product development, we are capable of providing a package solution that a project needs.



中建三局 1+3 管片生产线
China Construction 3rd Bureau 1+3 Segment Carousel



中铁四局集团 1+4 管片生产线
China Railway 4th Bureau 1+4 Segment Carousel



浙江建材集团 2+3 管片生产线
Zhejiang Construction Materials Group 2+3 Segment Carousel



中铁十四局集团 1+4 管片生产线
China Railway 14th Bureau 1+4 Segment Carousel



新疆城建集团 1+3 管片生产线
Xinjiang Urban Construction Group 1+3 Segment Carousel



中天建设集团 1+4 管片生产线
Zhongtian Construction Group 1+4 Segment Carousel

盾构管片生产线智能化设备

Intelligent Equipment for Tunnel Segment Carousel

高精度卧式风电混塔模具及生产线

High Precision Horizontal Wind Turbine Tower Segment Mold & Production Line

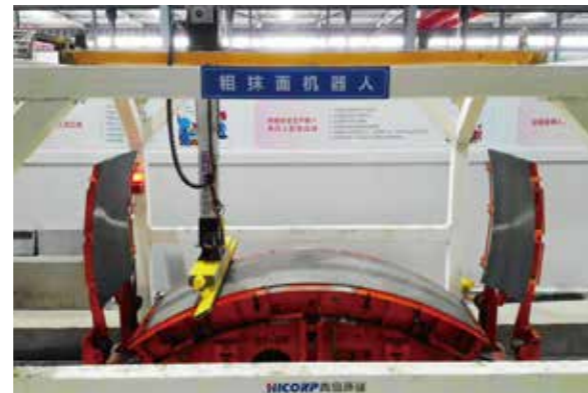
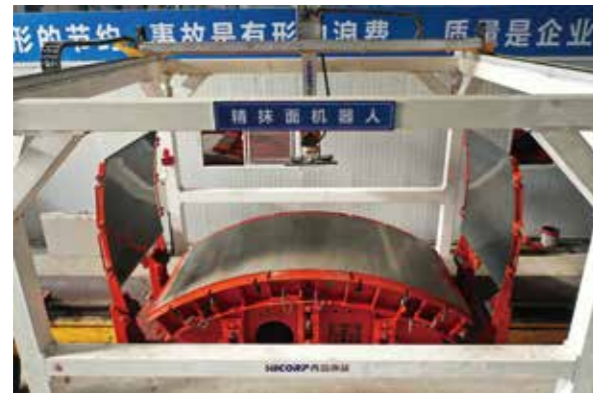
■ 盾构管片自动抹面系统 Tunnel Segment Automatic Surface Finish System

目前国内外盾构隧道管片生产中均采用人工抹面，每条生产线至少需设置三个抹面工位，每个工位一般需 3-4 人，大大制约了生产效率。青岛环球重工科技有限公司推出的盾构管片自动抹面系统，成功解决了传统抹面工艺存在的生产效率低、工人配置多、劳动强度大、产品质量不稳定等多年来困扰行业发展的难题。

At present, manual plastering of segment outer arc surface is used in the production of tunnel segments at home and abroad. At least three plastering stations are required for each production line, and each station generally requires 3-4 people, which greatly restricts the production efficiency. The automatic surface finish system for segment outer arc surface launched by Qingdao Hicorp Group solved the problems that have troubled the development of the industry for many years, such as low production efficiency, multiple worker allocation, high labor intensity, and unstable product quality in the traditional plastering process.

■ 产品特征 Product Features

- ◆ 自动化程度高
- ◆ 大幅节省人工
- ◆ 质量输出稳定
- ◆ High degree of automation
- ◆ Substantial labor savings
- ◆ Stable quality output



■ 盾构管片生产线智能化设备

Intelligent Equipment for Tunnel Segment Carousel



自动开模
Automatic mold opening

自动合模
Automatic mold closing

自动喷油
Automatic oil spraying

自动清理
Automatic cleaning

风电混凝土塔架的发展趋势是越来越高，这对混塔管片的精度要求也会越来越高，而混塔管片的质量和精度很大程度上取决于模具。卧式模具特点：模具加工精度高；连续生产不变形，附着式振动振捣密实，嵌入式密封不漏浆。

The development trend of wind power concrete tower is getting higher and higher, which will require higher and higher precision of concrete tower segments, and the quality and accuracy of concrete tower segments mainly depend on the mold. Horizontal mold features: high processing precision, no deformation in continuous production, well-compacting with attached vibrator, no leakage with embedded seal.

■ 卧式模具尺寸精度

Horizontal mold dimensional accuracy

序号 Serial number	项目 Item	允许偏差 (mm) Allowable deviation (mm)	检测要求 Detection requirement
1	宽度 Width	± 0.35	每片至少测 14 点 At least 14 points on each piece
2	弧长 Arc length	± 0.4	每片测 4 条 Measure 4 pieces per piece
3	弦长 Chord length	± 0.4	每片测 4 条 Measure 4 pieces per piece
4	内腔高度 Intracavity height	0~1.5	每片至少测 14 点 At least 14 points on each piece

■ 立式模具尺寸精度

Vertical mold dimensional accuracy

序号 Serial number	项目 Item	允许偏差 (mm) Allowable deviation (mm)	检测要求 Detection requirement
1	底模顶面平面度 Top flatness of bottom die	0.5	
2	模具内模直径 Mold inner die diameter	± 2	测 4 条 Test 4 pieces
3	模具外模直径 Die diameter	± 2	测 4 条 Test 4 pieces
4	内模、外模高度 Inner mold, outer mold height	± 2	分别测 4 条 Test 4 pieces separately

■ 单片预制构件精度要求

Monolithic prefabricated component Precision requirement

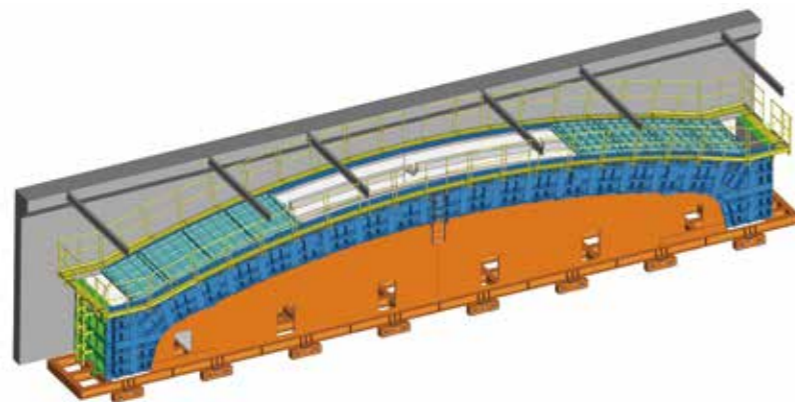
序号 Serial number	项目 Item	允许偏差 (mm) Allowable deviation (mm)
1	宽度 Width	± 1
2	弧长 Arc length	± 1
3	弦长 Chord length	± 1
4	厚度 Thickness	0~+3



■ 装配式车站预制构件模具 Prefabricated Station Component Mold

地铁装配式车站是装配式建筑的一种，组成车站主体结构的预制构件在工厂内流水化生产完成，再运输到施工现场完成拼装，将复杂的主体结构施工像搭积木一样拼接完成。车站的整个拼装过程都在地下进行，这对预制构件的生产和安装精度、运输及吊装等工艺流程都有更高的要求。作为中国预制构件装备旗舰企业，青岛环球集团重工科技有限公司的相关产品赢得认可。

The subway prefabricated station is a kind of prefabricated building. The prefabricated components that make up the main structure of the station are produced in the factory, and then transported to the construction site for assembly. The complex main structure is constructed like building blocks. The entire assembly process of the station is carried out underground, which has higher requirements on the production and installation accuracy of prefabricated components, transportation and hoisting and other technological processes. As the flagship enterprise of prefabricated equipment in China, the related products of Qingdao Hicorp Group Heavy Industry Science & Technology Co., Ltd. have won recognition.



装配式地铁站生产线
Prefab Station Component Production Line

北城院设计地铁站模具
Prefab Station Mold designed by Beicheng Institute

广州院设计地铁站模具
Prefab Station Mold designed by Guangzhou Institute

■ 轨道板模具 Track Plate Mold

轨道板模具主要用于生产非预应力轨道板，应用于城市轨道交通系统，我公司可生产 ZXI-1 型轨道板模具和 ZXI-2/3/4 共用型轨道板模具，模具主要由底模、端模、侧模、支腿和减震装置组成，振动电机可实现变频振动。

Track plate molds are mainly used to produce non-prestressed rail track plates, which are used in urban rail transit systems. Our company can produce ZXI-1 track plate molds and ZXI-2/3/4 shared track plate molds. The molds are composed of bottom part, end part, side part, outriggers and shock absorption device. The vibration motor can realize variable frequency vibration.



■ 箱型梁模具 Box Girder Mold

智慧预制梁生产线将机械自动化、信息化管控等高新技术集成到工程建设领域，增加工序间统筹协调性，真正实现了公路“梁场”到“梁厂”的转变，使预制梁的生产和管理达到一个新的高度。智慧梁厂引进由“全自动液压模板+智能液压动力控制单元”组成的液压智能整体模板系统，操作人员通过触摸屏，可对梁片振捣部位、振捣次数等数据进行智能调控，有效提升了混凝土振捣密实度。

The intelligent prefabricated girder production line integrates high and new technologies such as mechanical automation and information management and control into the field of engineering construction, increases the overall coordination between processes, and truly realizes the transformation of highway "girder field" to "girder factory", raising the production and management of prefabricated girder up to a new height. The intelligent prefabricated girder factory has introduced an intelligent hydraulic integrated formwork system consisting of "automatic hydraulic formwork + intelligent hydraulic power control unit". Through the touch screen, the operator can intelligently control the vibrating position of the girder, and the vibrating frequency etc, effectively improving the compactness of concrete.



■ 轻质墙板生产线 Lightweight Wall Panel Production Line

轻质墙板具有质轻、隔音、保温、耐火等优良性能，可大大减少建筑施工中的湿作业，缩短工期，有利于建筑节能，实现建筑的机械化作业，提高装配率。我司研发的轻质墙板生产线可用于生产 GRC 轻质隔墙板、石膏轻质隔墙板、陶粒轻质隔墙板、硅钙轻质隔墙板、菱镁轻质隔墙板、水泥轻质隔墙板等多种产品。

Lightweight wall panels have excellent properties such as slight weight, sound insulation, heat preservation, and fire resistance. Thus it can greatly reduce wet work in building construction, shorten the construction period, and contribute to building energy conservation, achieve mechanized building operations, and increase prefabrication rate. The lightweight wall panel production line developed by our company can be used to produce GRC lightweight partition walls, gypsum lightweight partition walls, ceramsite lightweight partition walls, silicon calcium lightweight partition walls, magnesite lightweight partition walls, and cement lightweight partition walls, etc.



■ 墙板机 Wall Panel Mold

本模具满足全自动墙板生产线的生产；模腔尺寸精确，长度与厚度方向尺寸可调，满足不同规格墙板生产；模腔面板采用特制钢材制作，板面平整光滑并耐磨；整体结构稳定，使用寿命长。

This mold meets the production requirement of automatic wall panel production line. The cavity size is accurate, and the length and thickness can be adjusted to meet the production of different specifications of wall panels. The cavity panel is made of special steel, with smooth surface and being wear-resistant. The overall structure is stable and long lasting.

■ 盖板自动抓取 Automatic Cover Grab

本设备满足盖板的快速抓取与放置，精准定位，快速抓取，平稳升降，快速转运，适用于不同高度盖板的快速取放与转运，降低劳动强度，提高工作效率。

This equipment satisfies the requirements of fast picking and placing of cover plates, precise positioning, fast grasping, smooth lifting, and fast transfer, suitable for quick pick, place and transfer of covers at different heights, thus realizes reducing labor intensity and improving work efficiency.



■ 净面机 Surface Finish Vibrator

本设备满足模腔内物料的快速振捣，采用刀片插入式振捣，多组刀片同时运行，高频振动快速消除模腔内气泡，保证墙板表面平整度，提高产品质量。

This equipment satisfies the rapid vibration of materials in the mold cavity. It adopts blade insertion vibration, multiple sets of blades running at the same time. High-frequency vibration can quickly eliminate air bubbles in the mold cavity, ensure the flatness of the wall panel surface, and improve product quality.



■ 双模摆渡车 Double-mold Ferry Trolley

本设备满足全自动墙板生产线的生产，采用水平与垂直双向定位摆渡车位置，定位精准，结构稳定，满足自动化需求，精准定位负载墙板机，满足自动化设备的位置需求。

This equipment meets the production requirement of fully automatic wall panel production line. It adopts horizontal and vertical positioning of the trolley, with precise positioning and stable structure, which can meet the needs of automation.



■ 抽芯机 Core-tube Pulling Device

本设备满足芯管的快速拔管与插管过程，设备结构稳定，抽拔力大，满足批量芯管的同时抽拔过程，抽芯机内设置多处导向机构，运行平稳，降低劳动强度。

This device satisfies the process of rapid extracting and inserting of the core tube. The device structure is stable with large pulling force. It can meet the simultaneous extraction of batch core tubes. With multiple guiding mechanisms inside, the device can run smoothly with lower labor needed.



■ 自动喷油机 Automatic Oil Sprayer

本设备满足墙板机脱模剂的快速喷涂，设置多组喷头，自动升降，可同时满足多组模腔的喷涂，喷涂均匀；适用于不同长度墙板模腔的喷涂要求，快速高效，减少用工量。

This equipment meets the need of rapid spraying of release agent. With multiple groups of automatic lifting nozzles, it can spray oil evenly in multiple mold cavities at the same time, suitable for spraying for different length wall panel mold. It is fast and efficient, reducing workload.



■ 布料机 Concrete Distributor

本设备满足物料的快速转运与布料，设置多组出料口，同时对多组模腔的浇注动作，通过控制料口开合，可调整物料流量，满足不同墙板机的物料需求，高效便捷。

This equipment satisfies the rapid transfer and distribution of concrete. With multiple groups of discharge ports, it can simultaneously pour concrete in multiple mold cavities. By controlling the opening and closing of the discharge ports, the material flow can be adjusted to meet the material requirements of different wall panel molds, which is efficient and convenient.



■ PC构件生产线简介 Brief Introduction of PC Structure Carousel

我公司自主研发形成了具有自主知识产权的 PC 构件 PMS 系统。该系统具有生产准备功能，包括构建日计划和构件拼模。生产管理包括：PMS 主界面、流转管理、清理机管理、划线机管理、喷油机管理、布料机管理、搓平机管理、预养窑管理、立体养护窑管理、堆垛管理、翻转机管理、配方管理等，以及相关配套的管理。生产统计包括信息查询、产能统计节拍统计等功能，系统管理包括角色管理、用户管理、权限管理、系统日志、数据备份等功能。

青岛环球集团 PC 构件生产线具有多种组织方式，包括：环形生产线、柔性生产线、游牧式生产线固定台座式生产线、可重组预应力长线台座生产系统。

我公司生产的 PC 构件生产线，最大限度的帮助客户实现多元化生产，降低投资风险，节约用地，减少投入，提高产能，加快投资回报。可以为客户量身定制各种装配式建筑构件设备解决方案，加工精度高，智能化程度高。产品销售遍及全国，深受广大客户信赖。

Our company has formed a PC component PMS system with independent intellectual property rights. The system has production preparation functions, including daily build schedule and component moulding. Production management includes :PMS main interface, flow management, cleaning machine management, marking machine management, injection machine management, distributing machine management, leveling machine management, pre-raising kiln management, three-dimensional maintenance kiln management, stacking management, turning management, formula management, as well as related management. Production statistics includes information query and capacity statistics and beat statistics. System management includes role management, user management, rights management, system logs, and data backup.

The PC structure carousel of Qingdao Hicorp Group has many organizational modes, such as annular carousel, flexible carousel, nomadic carousel, fixed pedestal carousel and reconfigurable prestressed long-line pedestal production system.

Our PC carousel helps our clients to realize diversified production maximally, lower investment risks, save land, reduce investments, improve capacity, and speed up investment returns. We can provide customized solutions of prefabricated construction components equipment to clients. With high processing accuracy and high intelligence, our products have been extended all over the country and deeply trusted by our customers.



■ PC构件生产线工程实例 Project Case of PC Structure Carousel



中小型构件生产线

Special-shape Precast Concrete Element Carousel



中小型构件自动化生产线是我公司结合异形构件生产工艺，自主创新研发的适用于多种混凝土异形构件的全自动化生产线。该生产线具有自动化程度高、生产效率高、产品质量稳定，是能适应各种异形构件产品批量化作业，真正达到一线多能，批量化生产的目的。

The automatic production line of small and medium-sized components is a fully automatic production line for a variety of special-shaped concrete components, which is independently innovated and developed by our company in combination with the production process of special-shaped components. The production line has high degree of automation, high production efficiency and stable product quality. It can adapt to the batch operation of various special-shaped components, and truly achieve the purpose of multi-functional and batch production.

■ 变频式振动台 Frequency Conversion Vibrating Table

变频调节 个性选择

Frequency conversion adjustment individual choice

设备简介：震动频率 0~75Hz 无极调频，涵盖绝大部分中小型构件所需振捣频率。适应性强，通用度高，振捣密实。通过气囊气缸举升震动平台，可以有效避免振捣对模具底盘滚轮的损伤，同时降低振捣噪音。

Equipment Description: the vibration frequency is 0 ~ 75Hz, which covers the vibration frequency of most small and medium-sized components. It has strong adaptability, high generality and compact vibration. By lifting the vibration platform by the bladder cylinder, the damage to the roller of the mold chassis can be effectively avoided and the vibration noise can be reduced at the same time.



■ 三维移动布料机 3D Concrete Distributor

三维移动 方便灵活

Three-dimensional movement is convenient and flexible

设备简介：通过液压油缸及行走电机实现浇筑料斗三维可移动，能够适应不同高度、不同浇筑口位置的多种混凝土构件模具，是实现多种规格中小型构件上线生产的重要设备之一。有自重落料和挤出式落料两种方式可供客户选择，料斗可选配自动称重装置，实现浇筑过程的精准控制。

Equipment introduction: the three-dimensional movable pouring hopper can be realized by hydraulic oil cylinder and walking motor, which can adapt to a variety of wet soil component molds with different heights and different pouring positions. It is one of the important equipment to realize the on-line production of various specifications of small and medium-sized components. There are two ways for customers to choose: self weight blanking and extrusion blanking. The hopper can be equipped with automatic weighing device to realize the precise control of pouring process.

■ 通用底盘 General Chassis

坚固稳定 通用性强

Strong stability and versatility

设备简介：是实现多种中小型构件模具上线生产的核心配套之一，多种不同种类及型号的中小型构件模具通过合理的布置安装在通用底盘上，实现模具在生产线上的转运。底盘结构牢固通用性高、可反复使用。根据生产需求更换模具。

Equipment Description: it is one of the core supporting facilities for the on-line production of a variety of small and medium-sized component molds. A variety of different types and models of small and medium-sized component molds are installed on the general chassis through reasonable layout to realize the transfer of molds on the production line. The chassis has firm structure, high versatility and can be used repeatedly. Change the mold according to the production requirement.



■ 可调节蒸养窑 Adjustable Steam Curing Chamber

适应性强 经济环保

Strong adaptability, economic and environmental protection

设备简介：通过蒸养可以加速混凝土凝固，极大提高生产效率。可调节蒸养窑能够遇过调节窑体高度，实现蒸养大构件时有充足空间，蒸养小构件时减少蒸汽浪费。在提高产能的同时，尽可能的减少浪费。

Equipment introduction: steam curing can accelerate the concrete solidification and greatly improve the production efficiency. The adjustable steaming kiln can adjust the height of the kiln body, so that there is sufficient space for steaming large components and reducing steam waste when steaming small components. At the same time, reduce waste as much as possible.

■ 整体箱涵模具及生产线

Integral box culvert mold and production line

模具采用立式浇注工艺，模板结合处采用嵌入式密封胶条不漏浆。

模具组成：底模、平面侧模、弧面侧模、端模、左右芯模、中间芯模、走台、配件等。

模具可采用固定地模生产和生产线生产两种方式，底模固定，侧模采用平移式开合，端模采用铰链式开合，芯模采用铰链与平移混合开合。

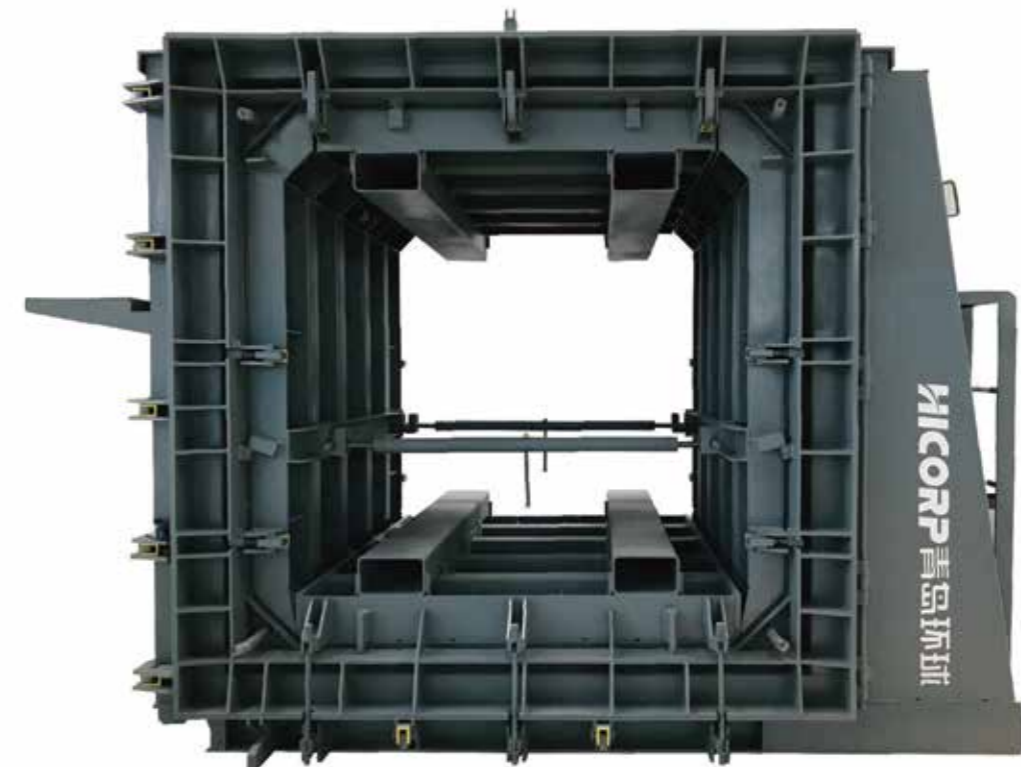
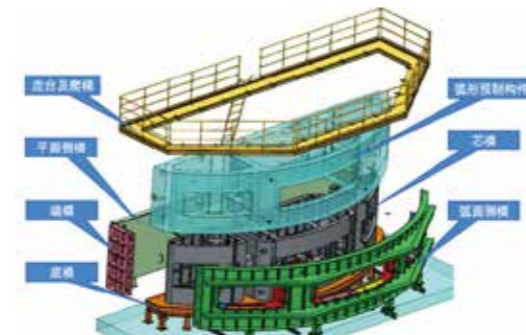
模具设计合理、结构紧凑、性能稳定、易于操作、维护、调遣、转移和运输。

The mold adopts vertical casting process, and the joint of the template adopts embedded sealing rubber strip to prevent slurry leakage.

Mold composition: botom mold, plane side mold, arc side mold, end mold, left and right core mold, middle core mold, walking table, accessories, etc.

The mold can be used in two modes, static mode and production line. With bottom mold fixed to the ground, the side mold adopts translation opening and closing, the end mold adopts hinge opening and closing, and the core mold adopts mixed hinge and translation opening and closing.

With reasonable design, compact structure, our mold is characteristic with stable performance, and easy to operate, maintain, dispatch, transfer and transport.



综合管廊模具
Precast Concrete Box Culvert Mold

■ 综合管廊模具 Utility Gallery Mold

地下综合管廊模具多用于城市地下集中敷设电力、通信广播电视、给水、排水、热力、燃气等市政管线的公共隧道建设上，它从根本上解决了反复开挖地面的“马路拉链”问题，逐步消除主要街道蛛网式架空线。我公司生产的管廊模具消化吸收了国外知名模具厂家先进技术，依据国内地下工程的建设现状成功打造的一款能适应恶劣环境、连续生产不变形、不漏浆，产成品外表光滑无气孔的高端模具产品，经过不断使用改进完善，已被国内多家预制构件厂采纳使用。

Underground Utility Gallery Molds/Precast Concrete Box Culvert Molds are often used in the construction of urban underground tunnels for the concentrated laying of municipal pipelines of electricity, communications, cables, water supply, drainage, heating, gas. It fundamentally solve the problem of "road zipper" - repeating trenching, and will gradually replace main streets' overhead spider-web lines.

Our composite utility gallery mold adopts advanced technology from famous mold manufacturers. Based on the domestic condition of underground construction, we developed our mold that is suitable to bad environment, no deformation in continuous production, anti-leakage, and with smooth surface and no porosity of finished products. With continuous refinement and improvement, our molds have been adopted by more and more precast concrete element factories in China.



管廊模具制作现场
Manufacturing Site

综合管廊模具的常用规格尺寸：

规格尺寸 Def/mm	壁厚 mm	跨度 mm width	有效长度 m	规格尺寸 Def/mm	壁厚 mm	跨度 mm width	有效长度 m
1200x1500	140	1500x150	< 1.5	3000x3000	300	3000x300	< 1.5
1500x1500	160	1500x150	< 2.5	3000x3000	320	3000x300	< 1.5
1500x1800	160	1800x150	< 2.5	4000x3000	300	3000x300	< 1.5
2000x2000	200	2000x200	< 2	4500x3500	350	3000x300	< 1.5
2300x2500	250	2000x200	< 2	5000x3000	400	3000x300	< 1.5
2500x2500	250	2000x200	< 2	5500x2500	450	3000x300	< 1.5
3000x3000	300	3000x300	< 2	6000x2000	400	3000x300	< 1.5



■ 快速锁紧装置 Rapid Locking Device

本模具所有开合模均采用快速锁紧装置，该快速锁紧装置采用特殊钢材制造而成，开合模简单、调节方便、使用寿命长，降低了劳动强度，节省了专用工具。

All the opening and closing of this mold are equipped with quick fastening locks. The quick locks are made of special steel. It's simple to open or close the mold, convenient to adjust, durable in use, lower in labor intensity, and less-used of special tools.



■ 多功能开模装置 Multifunctional Mold Opening Device

多功能开模装置具有多种便捷开合模功能，本装置同时具备紧固和整体开合侧模等多种功能，能快速实现模具的开合，大大降低了劳动强度，节约了人工成本。

The multifunctional mold opening device has a variety of convenient mold opening and closing functions. The device has multiple functions such as fastening and overall opening and closing of side molds, which can quickly open and close the mold. It greatly reduces labor intensity and saves labor costs.



■ 高强度专用底座 High-strength Special Base

我公司模具出厂前，均标配高频振动器用高强度专用底座，本专用底座采用高强度特种钢材制造而成，仅用一根螺栓固定，拆卸方便，提高电机利用率。

High-strength special bases for high-frequency vibrators are equipped as standard before delivery of our molds. This special base is made of high-strength special steel and is fixed with only one bolt. It is easy to dismantle and improve the motor utilization.



■ 高频附着式振动器 Attached High-frequency Vibrator

120HZ 以上的高频附着式振动器，可增强混凝土产品强度，使产品表面更加美观，更降低了劳动强度，提高了生产效率。

The attached high-frequency(120+HZ) vibrator can enhance the strength of concrete products, make the product surface more beautiful, reduce labor intensity, and improve production efficiency.



双仓综合管廊模具
Horizontal Dual Box Culvert Mold



双层卧式方涵模具
Horizontal Split Box Culvert Mold



立式三仓方涵模具
Vertical Tri Box Culvert Mold



数控加工车间一角
CNC machining workshop



三维坐标仪
Three-dimensional coordinate instrument



液压式材料试验机
Hydraulic material test machine



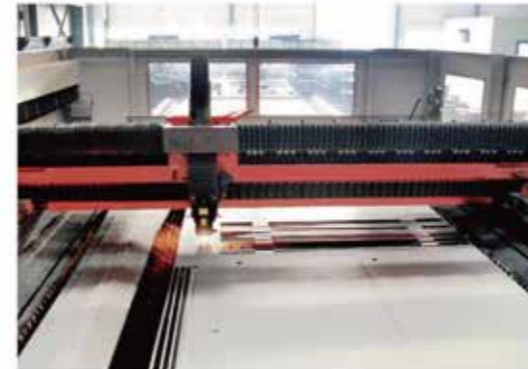
电子万能试验机
Electric universal testing machine



德国SPECTRO光谱分析
Germanic SPECTRO Spectroanalysis



机器人焊接手臂
Robot welding arm



激光切割机
Laser cutting machine



数控折弯机
CNC bending machine



数控龙门加工中心
CNC gantry machining center



等离子切割机
Plasma cutting machine



大型压力机
Large press machine



数控龙门铣床
CNC gantry milling machine



数控加工中心
CNC machining center

资质&荣誉

Qualifications & Honors

品牌客户

Brand Customers

HICORP



中国中铁



中国铁建



中国电建



中国建筑



中国交建



绍兴中亚



北京住总



北京城建



浙江中天



浙江建材



建华建材



湖州交投



浙江蓝绿双城



浙江交通



南昌城建



青岛市政

我公司设有 24 小时客户服务中心，本着“打造世界品牌服务全球客户”的理念宗旨，定期开展全国客户巡回服务活动，完善售后服务流程，提高服务质量，规范售后服务管理，“立刻、马上”的服务特色，是我们环球人服务客户的承诺。

Our company has a 24-hour customer service center. Based on the concept of "Building a World Brand and Serving Global Customers", we regularly conduct customer service activities to improve after-sales service processes and service quality, and regulate after-sales service management. The service feature of "Immediate Response, First Action" is our commitment to serve customers worldwide.



快速的配件供应

Rapid Spare Parts Supply

