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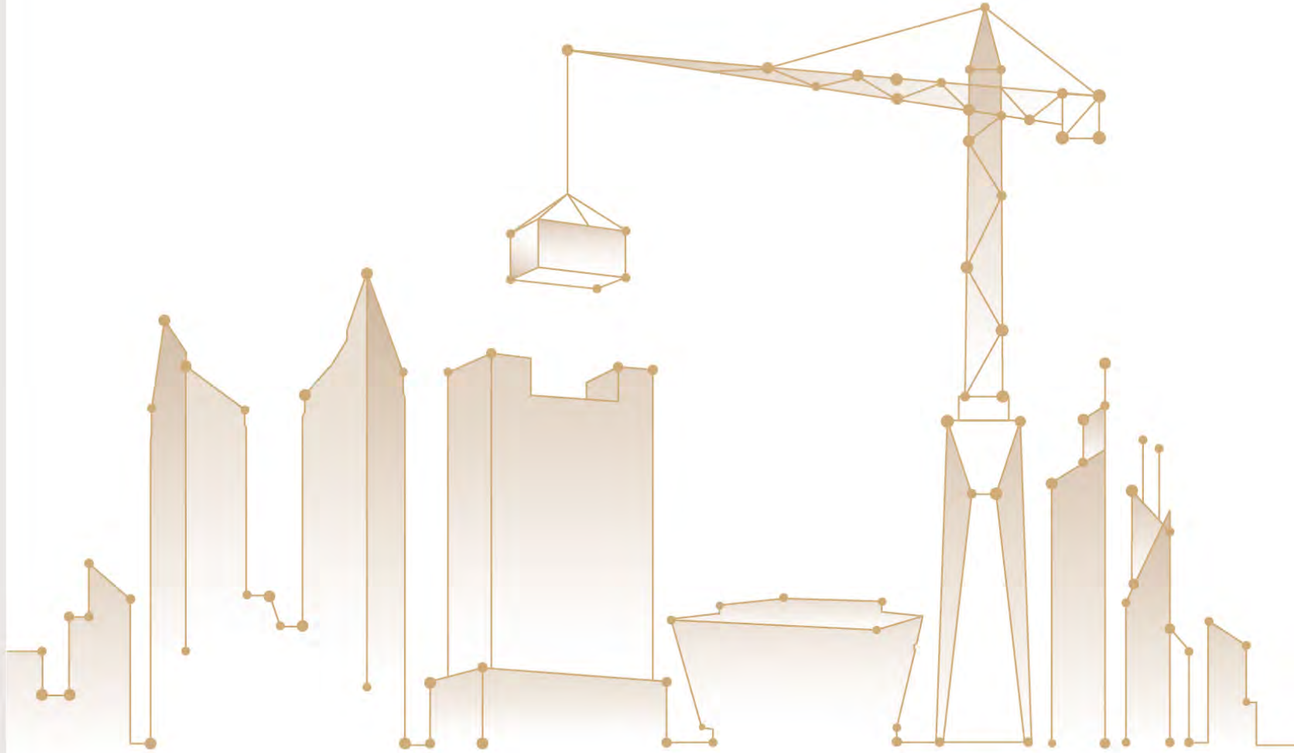
中建海龍 CHINA STATE CONSTRUCTION HAILONG 中海建築 CHINA OVERSEAS CONSTRUCTION

MiC

MODULAR INTEGRATED CONSTRUCTION PRODUCT MANUAL

PATHFINDER OF NEW CONSTRUCTION INDUSTRIALIZATION



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COMPANY INTRODUCTION

Comprehensive Service Provider for the Entire Industrial Chain of Modern Construction Methods

China State Construction Hailong Techology Co., Ltd. and China Overseas Construction Co., Ltd. are subsidiaries of China Overseas Holdings Limited, a leading professional platform in China for providing full industry chain solutions in new construction methods, design research, and intelligent construction capabilities.

Founded in 1993 in Shenzhen, China State Construction Hailong was one of the pioneers in building industrialization in China. The company initiated industry-leading practices such as establishing the "National Housing Industrialization Base," "National Prefabricated Building Industrial Base," "Specialized and innovative 'Little Giant' enterprises" and postdoctoral innovation practice base among others. With multiple scientific achievements, the company holds Grade A qualifications in architectural design and has established eight prefabricated production bases and eleven construction technology research institutes across the country. Its original "Modular Integrated Building System" has ushered in the prefabricated 4.0 era in China, making it the lead organization in the national "14th Five-Year Plan" key research projects in this field.

China Overseas Construction, also established in Shenzhen in 1993 with a registered capital of 350 million yuan, is a "National High-Tech Enterprise" with an AAA credit rating in the national construction industry. The company has extensive experience in managing the entire chain of intelligent construction and building industrialization, holding first-class qualifications for general contracting of construction projects and specialized contracting of foundation and geotechnical engineering. Over the past three years, the company has undertaken over 390 domestic projects, with an average annual turnover exceeding 20 billion yuan.

A Central Enterprise with Hong Kong Capital - Building City Prosperity through Quality Construction

China State Construction International Holdings Limited (abbreviated as "China State Construction International") was established in Hong Kong in 1979. It is a subsidiary of China State Construction Engineering Corporation (HKEX: 3311.HK). After over 40 years of development, it has become a well-known comprehensive urban investment and construction operator and a leading general contractor in Hong Kong and Macau, as well as a core business investment platform for China State Construction.

China State Construction International adheres to its corporate mission of Expanding Happiness with four major business regions in the Greater China area (Mainland China, Hong Kong, and Macau), Southeast Asia, and overseas. The company has invested in and built over 1,500 landmark buildings worldwide.

Rooted in Hong Kong and Macau, Expanding Nationwide

Technology Leadership: New Construction Industrialization Technology Service Team

Hailong is the editor-in-chief of two national prefabricated construction standards and the lead unit for the national "14th Five-Year Plan" project "Research and Application of Key Technologies in Modular Integrated Construction." It also hosts a postdoctoral innovation practice base in Shenzhen, along with research centers in Guangzhou and China State Construction Group's Technology Innovation Platform. The company has over 210 registered patents and proprietary technologies. Its self-developed MIC (Modular Integrated Construction) system was selected as one of the "Top 10 Construction New Technologies of 2022" and ranked first in the "Sci-Tech Innovation China" list for 2022.

348 million ¥

Investment in technology R&D

- Lead Unit for the National "14th Five-Year Plan" Project "Research and Application of Key Technologies in Modular Integrated Construction"
- Editor-in-Chief of Two National Prefabricated Construction Standards
- Participation in 16 Industry-leading Expert Committees of China State Construction, with a database of over 200 experts to assist in solving major technical challenges
- Nearly 348 million yuan in R&D investment over the past three years

Empowering with Technology: Creating an Original Technology "Incubator"

- Six Core Technologies: 1.High-rise steel structure MiC system mechanics performance and design method research 2.High-strength concrete MiC system mechanics performance and design method research 3.Construction, structure, mechanical, electrical, interior, and information-based integrated design and construction technology 4.Life-cycle and full-period BIM-based modular building information application technology 5.Prefabricated buildings and traditional buildings connection and interface technology 6.Anti-seismic technology for buildings with high application requirements in high-seismic zones.
- Six Major Technological Innovations: 1.The first implementation of a modular high-rise steel structure building system in a domestic project, ensuring seismic safety in high-risk zones 2.The first implementation of high-strength concrete MiC system in high-rise buildings, with application in high-density urban areas 3.The first realization of high-strength concrete application in prefabricated buildings to improve resistance against earthquake forces 4.Completing the design of a BIM-integrated modular design platform for high-rise buildings 5.Achieving an improvement of traditional building interfaces with industrial-level standards, with accuracy up to 1mm 6.Realizing digital information exchange and feedback loops.
- Hailong has obtained 430 patents for national invention and new utility models, 32 software copyrights, 56 standards, 31 technical processes, 175 papers, 210 awards, and led 7 main editing roles in industry standards.Collaboration with 16 universities, including Tsinghua University, Zhejiang University, Harbin Institute of Technology, and others, for technological R&D.In collaboration with China State Construction and other key technological innovation institutions, Hailong has also developed special research projects in modular building construction.

Patents	Standards	Technical Processes	Papers	Awards	Universities/Research Institutes Partnerships	R&D Projects
430 patents	56 standards	31 methods	175 papers	210 awards	16 institutions	85 projects

INTEGRATED DIGITAL DELIVERY SOLUTIONS

Hailong actively explores digital and low-carbon development paths, continuously deepens the application of prefabricated buildings, and leads the development of the construction industry with advanced building technology.

Through intelligent digital systems, Hailong has built a "Smart Factory" and a "Digital Center" to achieve "data integration," "intelligent project management," "intelligent decision-making and delivery," "digital supply chains," and "smart operation and maintenance." Hailong integrates intelligent design, intelligent construction, and intelligent operations, maintaining high efficiency and quality in projects, thereby realizing digitalization throughout the entire project lifecycle.

Hailong is among the first in the industry to be recognized as a "Leading Enterprise in China's Industrial Digital Transformation."

100%

Smart Application Coverage

1 Digital Design (DfMA)

Comprehensive professional design based on visualized model collaboration and optimization.

2 Intelligent Manufacturing

Implementing "one product, one code" through intelligent digital systems to manage production planning, processes, product quality, warehouse inventory, and project dashboards.

3 Smart Transportation

Project managers can monitor the real-time transportation status of each product and make real-time adjustments to warehouses, transit depots, and inventories.

4 Intelligent Construction

Through the C-SMART integrated platform, construction sites are managed with intelligent and digital systems, enabling real-time monitoring of workforce distribution, safety alerts, vehicle entry and exit, material supply, quality, and project progress.

5 Smart Operations and Maintenance

The "Electronic Sentinel" operations and maintenance system provides real-time monitoring of building equipment to ensure safe operations, safety, and energy consumption data.

ADVANTAGES ON MiC

MiC Modular Integrated Construction — Building Houses Like Manufacturing Cars

Hailong has innovatively developed MiC (Modular Integrated Construction), a method of modular construction. This approach involves dividing the building into several modules based on functional zones during the design or construction drawing stage. These modules are then prefabricated to high industrial standards (including interior finishes and equipment installation) and transported to the construction site for assembly into a complete building. This new green construction method maximizes the shift of construction work from the site to the factory, truly realizing the concept of "building houses like manufacturing cars." We provide comprehensive services in both steel structure MiC and concrete MiC.

Hailong offers a full-service chain, from design and production to delivery, providing one-stop services for clients. We guide clients based on their needs, innovate management models, and create greater value for them across the entire lifecycle of design, construction, and operations.

1 Prefabrication 1.0 Traditional Building Components

2 Prefabrication 2.0 Integrated Decoration Components

3 Prefabrication 3.0 Prefabricated Bathrooms and Three-Dimensional Products

4 Prefabrication 4.0 MiC Modular Integrated Construction

MiC Modular Integrated Construction — Ushering in the Prefabrication 4.0 Era

Over the past 30 years, Hailong has continuously innovated, leveraging the MiC modular integrated construction system to lead the domestic industry into the Prefabrication 4.0 era. Hailong has established a comprehensive and advanced industrialized building product system.

MiC modular integrated construction demonstrates four key advantages—high efficiency, high quality, green and low-carbon, and cost-effectiveness—throughout the entire lifecycle, from design, production, and construction to post-demolition recycling. It has become a critical tool in promoting new industrialized building methods and low-carbon transformation, driving high-quality development in the construction industry.

High Efficiency
Reduced duration of traditional construction
↓60%

High quality
Industrial standardized production
↑90%

Green and low carbon
Reduction of solid waste emission
↓75%

Material and labor saving
Reduced on-site labor
↓70%

MiC PRODUCT SYSTEM

Concrete Modular Integrated Construction (C Series)

Prefabricated concrete modules are produced in a factory and connected on-site through dry joints to form modular stackable frame structures or use load-bearing walls as modules. These modules can be used to construct cast-in-place concrete frames or shear wall buildings, creating a combination of concrete modular integrated buildings. This method integrates three types of construction techniques into one.

Concrete High-Rise Structural System

Applications

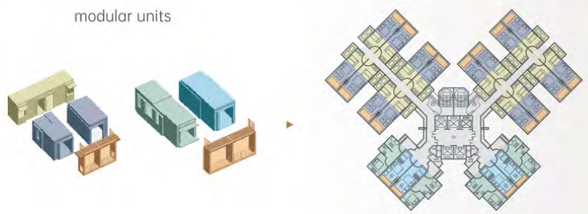
High-rise residential buildings, apartments, hotels, etc.

Applicable Height

≤150m

Modular Combination Demonstration

modular units



Low-Rise Concrete Structural System

Applications

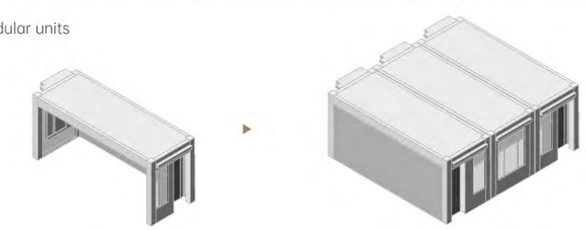
Low-rise and mid-rise buildings for schools, dormitories, hotels, apartments, office buildings, and residential housing.

Applicable Height

≤24m

Modular Combination Demonstration

modular units



Steel Structure Modular Integrated Building (S Series)

Standardized prefabricated space modules are completed in the factory and assembled on-site to form a modular integrated steel structure building.

Steel structure modular integrated buildings are a type of modular construction where the main steel structure, enclosure, equipment pipelines, and interior finishes are all fabricated and installed in the factory. The modules are then transported to the site and assembled using cranes to complete the construction.

Steel Structure High-Rise Modular System

Applications

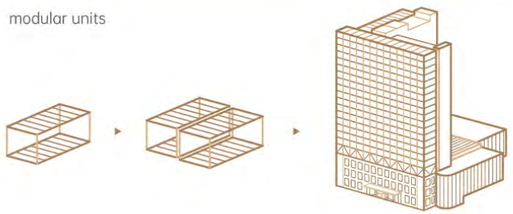
High-rise hotels, residential buildings, hospitals, schools, office buildings, exhibition halls, and other civil buildings.

Applicable Height

⩽100m

Modular Combination Demonstration

modular units



Steel Structure Low-Rise Modular System

Applications

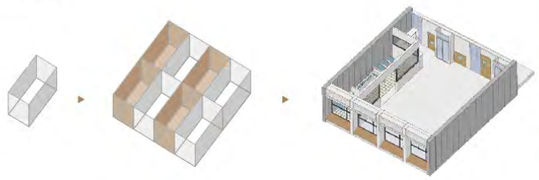
Low-rise and mid-rise hotels, residential buildings, hospitals, schools, office buildings, exhibition halls, and other civil buildings.

Applicable Height

⩽24m

Modular Combination Demonstration

modular units



I-BOX Modular Integrated Building (I Series)

Digital Mobile Housing System

I-BOX is a self-developed MiC (Modular Integrated Construction) building product, based on Hailong's steel module products with horizontal system integration. The modules can be freely combined, offering various design choices and requiring no foundation—simply set up and use. I-BOX is movable and detachable, making it suitable for diverse applications. It supports compact living with hydrogen energy, solar power, a "five-constant" control system, passive building methods, integrated sewage treatment, and smart management, ensuring safety, comfort, human-centric design, spatial richness, and functional variety.

Applications

Small medical stations, mobile workstations, public libraries, restrooms, community stations, government service spaces, camping sites, themed halls, and commercial spaces.

Modular Combination Demonstration

modular units

Elevator Modular Integrated Building (E Series)

Multi-Functional Elevator Shaft System

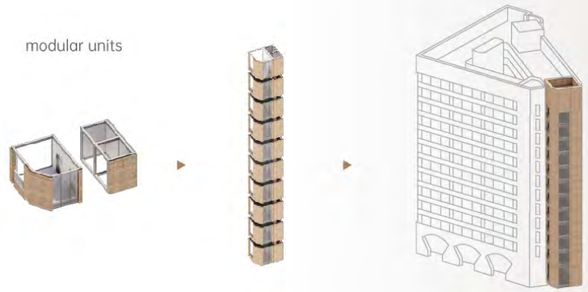
Elevator installation is modularized, with elevator shafts, wiring, elevator components (such as guide rails, counterweight frames, elevator doors), and exterior walls assembled in an integrated manner at the factory. After the prefabricated elevator pit is installed on-site, the modular elevator units are hoisted in sequence, with modules joined and pipelines connected, ready for use.

Applications

Elevator installations for old residential communities, schools, factories, commercial spaces, hospitals, hotels, etc.

Modular Combination Demonstration

modular units



Autonomous Modular Integrated Building (T Series)

Multi-Functional Autonomous Building System

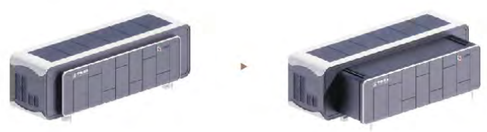
The modules are designed with detachable and extendable features, providing a large, independent space that meets the needs of mobile homes, mobile factories, and similar products. When retracted, they comply with road transport limitations, making them easy to transport and assemble. Exterior finishes, interior fittings, and MEP (mechanical, electrical, and plumbing) installations are primarily completed in the factory, ensuring high automation and integration.

Applications

Leisure resorts, temporary offices, street commercial buildings.

Modular Combination Demonstration

modular units



Water Cube MiC (W Series)

Modular Integrated Water Treatment System

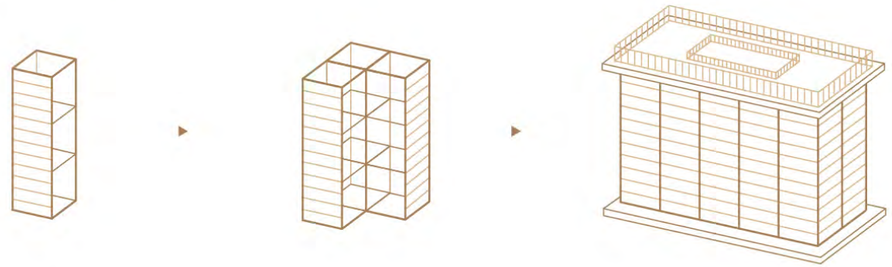
The modules are suitable for large-scale sewage treatment at a depth of 10 meters, utilizing a fully dry connection system. The modular units are detachable and reusable. Highly integrated with water treatment equipment, they allow for rapid construction and immediate commissioning. Simple assembly creates modular units with a treatment capacity of 1,500 tons per day, and by easily replicating these units, treatment plants with capacities of 20,000 to 50,000 tons per day can be formed.

Applications

Water purification, sewage treatment buildings.

Modular Combination Demonstration

modular units



MiC APPLICATION SCENARIOS

Hailong's MiC products are suitable for low-rise, mid-rise, and high-rise systems. With their safety, speed, and efficiency, they allow for industrialized applications in standardized buildings such as residential buildings, schools, hospitals, hotels, and apartments. These products are highly adaptable to the needs of the "Three Major Projects." In affordable housing, they enable rapid mass construction; in urban village redevelopment, flexible design improves efficiency; and in "dual-use" emergency projects, their mobility and reusability ensure safety and meet environmental requirements.

Hailong's MiC business has expanded to 19 cities across 11 provinces nationwide, providing reliable and trustworthy solutions for various engineering projects through extensive experience in high-standard project management.

Diversification

—

Hailong "Modular"
Product Applications

Integration Industrialization Digitalization Sustainability

MiC - Residential Building

MiC - Hotel Building

MiC - School Building

MiC - Medical Facility

MiC - Public Building

MiC - Exhibition Hall Buildings

MiC - Office Building

MiC - Cultural and Tourism Facilities Buildings

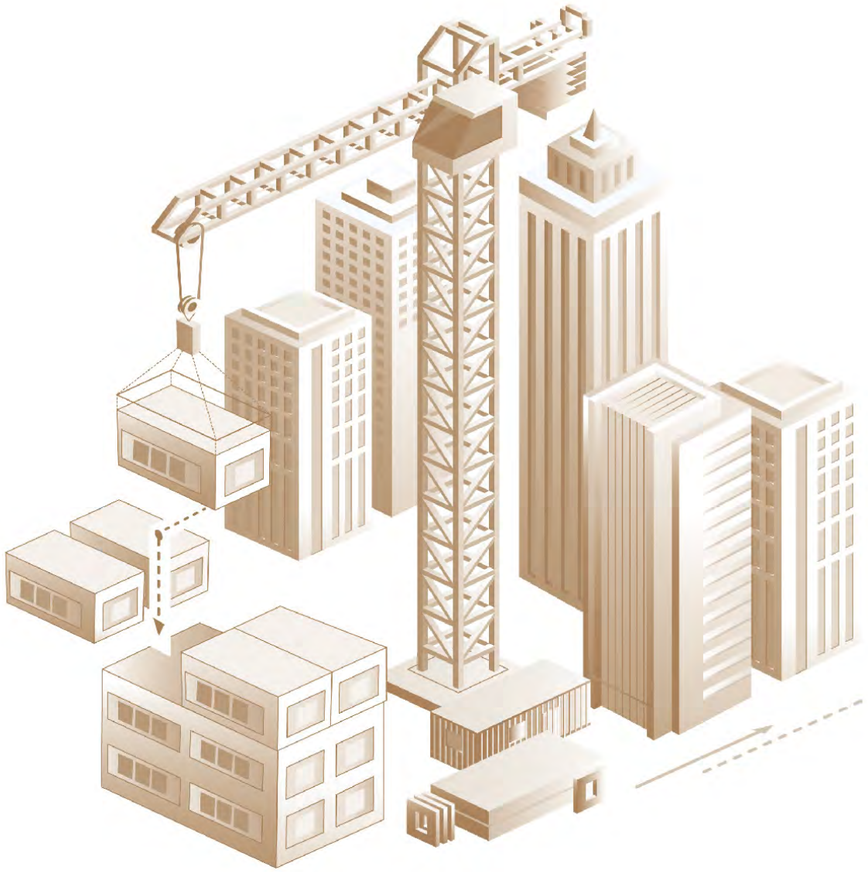
Hailong MiC
Representative Project
...

77
MiC Projects

81378
MiC Units

5.09 million m²
MiC Built Area

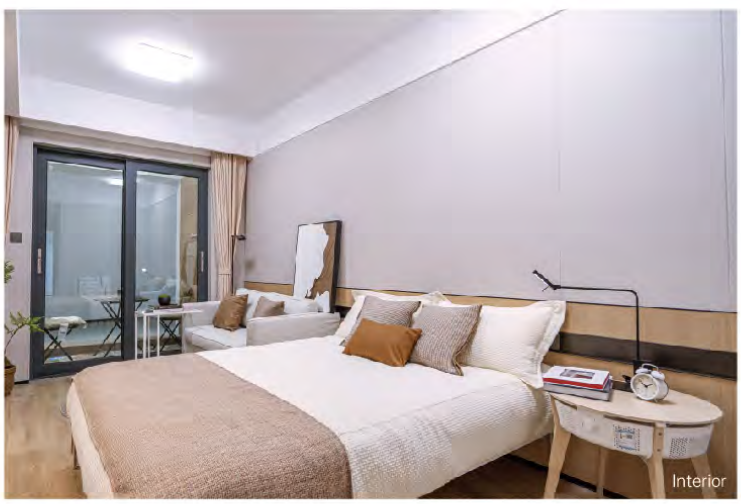
MiC - Elevator Retrofit Buildings



MiC - Residential

Huazhang Xinzhu, Longhua District, Shenzhen

- This project is China's first near-100-meter-tall modular with the first phase construction area of 173,000 square meters,five 99.7-meters-high talent sheltered housing buildings. It will provide 2,740 rental units using 6,028 precast concrete modules. The project employs full prefabrication, integrating concrete modular structures, DFMA steel structures for roofing and podiums, and underground technical rooms. Digital technology is applied across design, production, construction, and handover.



Concrete Modular Integrated Construction (C Series)

365 days of uninterrupted construction

6,028 MiC modules

The fastest-constructed high-rise affordable housing project in China

The world's first concrete modular high-rise building

Exterior Rendering

Bird's-eye View

Hong Kong Kai Tak Olympic Avenue Light Public Housing Project

- The project is a large-scale social initiative focused on enhancing the quality of life for residents in Hong Kong. Spearheaded by the Hong Kong government, it strategically utilizes government and private land that has yet to be employed for long-term development plans, implementing modular integrated construction techniques to rapidly develop "simple public housing." As the largest simple public housing undertaking in Hong Kong, it encompasses a total construction area of 320,000 square meters with a contract value of approximately HKD 6.28 billion. The project features seven residential towers, each with 17 stories, and will ultimately provide 10,723 housing units along with necessary facilities, representing more than one-third of the overall simple public housing initiative.

Interior Rendering

Steel Structure Modular Integrated Construction (S Series)

8,994 MiC modules

Area of 32,000 square meters

Reduction in on-site labor by 90%

The largest simple public housing project in Hong Kong

MiC - Residential

Bird's-eye View

Rendering

Public Housing Project in Kwun Tong North Area 19 Phase 2, Hong Kong

- The project consists of six residential buildings, each 38-39 stories high, with one building constructed using the original concrete modular integration technology developed by China State Construction Hailong. A total of 6,314 modules were utilized, covering a total construction area of approximately 227,000 square meters, with the project reaching a height of 152 meters.

Rendering

Concrete Modular Integrated Construction (C Series)

6,314 MiC modules

Area of 22,775 square meters

Project height of 152 meters

The Hong Kong Housing Authority's first modular project with a general contractor responsible for design and build

Exterior Rendering

Rendering

Anderson Road Public Housing Project, Hong Kong (R2-6 & R2-7)

- This project is located on Anderson Road in Hong Kong and includes two public housing buildings (R2-6 and R2-7). The total site area is 5.167 hectares, with a construction area of approximately 140,000 square meters. The project consists of 40 and 45-storey buildings, providing a total of 1,410 residential units. The project is designed to accommodate about 3,000 residents, making it a significant public housing development in Hong Kong.

Rendering

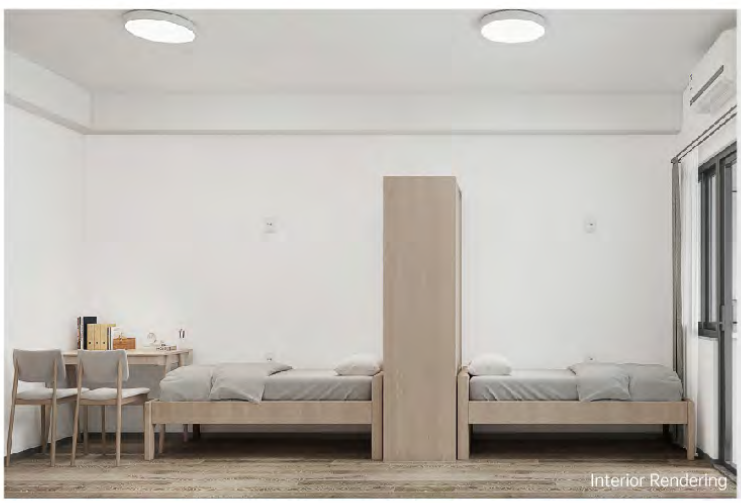
Concrete Modular Integrated Construction (C Series)

4065 MiC modules

Area of 5.167 hectares

1,410 residential units

The first nearly completed modular project by the Hong Kong Housing Authority



Industrial Community Neighborhood Center Project in Baibu Economic Development Zone, Jiaxing

- The project is located in the Economic Development Zone of Baibu Town, Haiyan County, Jiaxing City, and consists of two construction phases. Phase one includes a 15-storey service apartment building (No. 7) utilizing China State Construction Hailong Technology's concrete modular integrated construction technology, with a total construction area of approximately 18,000 square meters, comprising 384 modular units and a construction period of 154 days.
- This key pilot project for innovative building industrialization is Zhejiang Province's first high-rise concrete modular building and the first prefabricated project in the province to achieve assembly-style AAA certification at the design phase.

Concrete Modular Integrated Construction (C Series)

154 days of construction

384 MiC modules

Area of 18,750 square meters

The tallest concrete modular building in Zhejiang

MiC - Residential

Bird's-eye View

Interior

Government-Subsidized Housing Project at No. 6 Meilin Road, Futian District, Shenzhen

- The project has a total construction area of 44,500 square meters, with 2 underground and 30 above-ground floors, reaching nearly 100 meters in height. It offers 696 affordable rental units in 40m² and 70m² layouts. As a demonstration project for China's 14th Five-Year National Key R&D Plan, it uses the "box form-cast-in-place shear wall system" (C-MiC) high-rise concrete modular construction technology, enhancing integration with standardized designs, upgraded modules, micro-corridors, and collaborative structural systems. The project consists of 800 modular units, incorporating award-winning designs from the Shenzhen affordable housing competition, providing faster and higher-quality housing for residents.

Interior

Concrete Modular Integrated Construction (C Series)

365 days of construction

800 MiC modules

C-MiC2.0 residential modules

High-quality finishes and smart home integration

Exterior Rendering

Exterior Rendering

Apartment Project of Industrial Park, Lot II, South Fucheng, Shenzhen

- The project is located in Longhua District, Shenzhen, and consists of two dormitory buildings and one factory. The dormitory buildings on plots 12-16 are nearly one hundred meters tall and constructed using concrete modular technology, employing a "box form-cast-in-place frame shear wall system." It comprises four types of modules and 728 concrete module units, with a construction period of 530 days.
- The project utilizes "modular construction" and "smart construction" technologies, significantly enhancing construction quality and efficiency through digitization and intelligence in the building process. This approach has reduced safety risks, pollution losses, and economic costs, setting a new benchmark for the modern construction industry.

Bird's-eye View

Concrete Modular Integrated Construction (C Series)

530 days of construction

728 MiC modules

Area of 44,475 square meters

The tallest modular dormitory project in Longhua District

Exterior Real Scene

Interior

Redevelopment Project of Building No. 8, Huapichang Hutong, Beijing

- Beijing's first pilot project for renovation using the "original site construction" model.
- Located in Xicheng District, covering 374 square meters with a 1,194 square meters construction area. Five stories, 20 units.
- Uses "reinforced concrete frame modular construction + prefabricated components" with 55 modular units. Total construction period: 90 days.

Interior

Concrete Modular Integrated Construction (C Series)

90 days of construction

55 MiC modules

Beijing's first C-MiC modular concrete project

A pilot project for the "original demolition and reconstruction" model

MiC - Hospitality

Exterior Rendering

Interior

Phoenix Tower, Laishan District, Yantai, Shandong

- This project is currently the tallest steel structure modular integrated building in China and the first high-end modular hotel and office complex in Shandong Province. The project covers a total construction area of 117,000 square meters, with 20 floors and a height of 78 meters. It utilizes a "modular + steel structure" system, introducing 352 modules to achieve the highest standards in structural integrity, volume, assembly efficiency, and overall integration among modular hotels in China.

Interior

Steel Structure Modular Integrated Construction (S Series)

Completed in 14 months

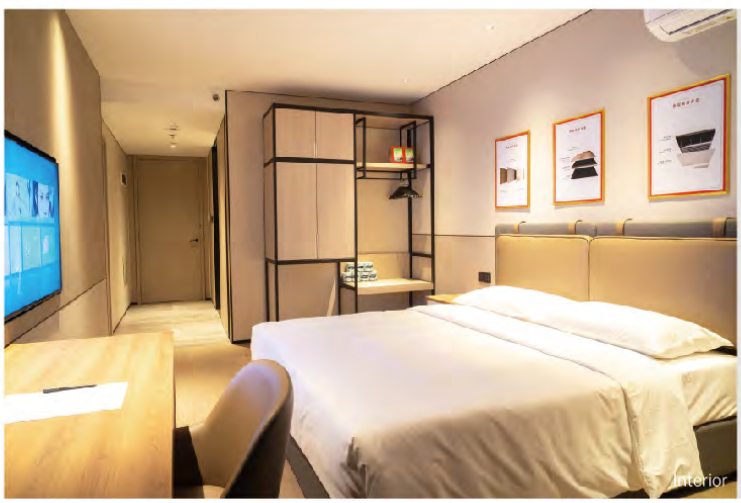
352 modules

The tallest steel structure modular building in China

The first high-end modular hotel and office complex in Shandong Province

MiC - Hospitality

Real Scene



Interior

Baguang Ecological International Hotel in Shenzhen

- The project consists of six 7-storey buildings and four 18-storey buildings, along with supporting facilities, covering a total construction area of 253,000 square meters. The main 7-storey building employs modular construction, while the 18-storey buildings use traditional steel structures. The southern building was completed 44 days early, with the entire project finished in just 124 days, setting a new benchmark for China's modular hotel industry in efficiency and quality.
- Based on the DfMA concept, it integrates modular design, intelligent production, smart logistics, and digital twin technology, featuring five major systems, 36 application scenarios, and a C-SMART system linked to the MES for seamless operations.

Exterior

Steel Structure Modular Integrated Construction (S Series)

Completed in 124 days

1,660 modules

Evaluated as a top project under the "Shenzhen Standard" Building Assessment Plan

China's first permanent modular building with 7 stories

Bird's-eye View

Exterior Rendering

Anhui Guangde Scientific Innovation Experimental School

- Located in Guangde Economic Development Zone, Anhui Province, this project has a total construction area of 44,000 square meters. It includes 24 elementary and junior high school classes and can accommodate 2,200 students. The project uses modular construction technology, with 828 concrete modules deployed. It is designed to adapt to a wide range of environments, and one of the buildings has been awarded the highest national AAA-grade prefabrication level. The entire project was completed in 150 days.

Interior Rendering

Concrete Modular Integrated Construction (C Series)

Completed in 150 days

828 modules

The first concrete modular school project in China

Area of 44,000 square meters

MiC - School

Real Scene

Interior

Tongxin Primary School and Tongde Kindergarten, Shenzhen Guangming District Experimental School Group

- This project is located in the Xinsheng Science and Technology Industrial Park in Guangming District. It is the first modular school project in Guangming District, with a total construction area of 25,000 square meters. The project was completed in 259 days, utilizing 338 modules to accommodate 1,920 primary school students and 360 kindergarten children. The design and construction fully consider the needs of relocating the modular units, making the project adaptable for future expansions and promoting the industrialization of construction.

Interior

Steel Structure Modular Integrated Construction (S Series)

Completed in 259 days

338 modules

The first modular school project in Guangming District

One of the Top 10 Construction Technology Projects in Guangming District in 2022

Shenzhen Futian NO.2 Experimental School

- This project covers a total construction area of 5,656 square meters and includes 137 modular units. It is built to accommodate 810 elementary school placements across 18 classes, with a project construction period of 100 days.
- The project enables flexible disassembly and relocation, offering value for reuse.

Steel Structure Modular Integrated Construction (S Series)

Completed in 100 days

137 modules

Intelligent production and construction

Area of 5,656 square meters

Real Scene

Interior

Eight Kindergartens in Futian District, Shenzhen

- The eight kindergartens in Futian District have a total construction area of 22,500 square meters, using 421 modular units. The project was completed in 3 months and is a key prefabrication project in Shenzhen. It won the Global Best Design Award for prefabricated architecture.

Corridor

Steel Structure Modular Integrated Construction (S Series)

Completed in 90 days

421 modules

Global Best Design Award for prefabricated architecture

Area of 22,500 square meters

Real Scene

Interior

North Lantau Hospital Hong Kong, Infection Control Centre

- The world's first modular hospital for infectious disease isolation, and the largest negative pressure isolation hospital in Hong Kong built using modular construction technology.
- Adhering to Hong Kong's permanent building standards, the construction time was reduced from 3-4 years to under 4 months.
- The project won several prestigious awards, including the China Construction Engineering Luban Prize (Overseas Project) and multiple international awards such as the 2021 European Healthcare Design Awards and the DFA Asia Most Influential Design Award.

Bird's-eye View

Steel Structure Modular Integrated Construction (S Series)

Completed in 120 days

524 modules

China Construction Engineering Luban Prize (Overseas Project)

The world's first modular negative pressure isolation hospital for infectious diseases

MiC - Medical

Exterior Rendering

Bird's-eye View

Chinese Medicine Hospital in Tseung Kwan O, Hong Kong

- The Chinese Medicine Hospital in Tseung Kwan O, located on Tong Ming Street, is a smart hospital integrating traditional Chinese medicine with modern technology. The hospital includes a 7-storey main building and a 5-storey podium, with a total construction area of 190,000 square meters. It uses 1,460 steel structure modules, including 571 inpatient room modules, 580 consultation or treatment room modules, and 309 MEP (Mechanical, Electrical, and Plumbing) modules.

Exterior

Steel Structure Modular Integrated Construction (S Series)

1,460 modules

Independently developed innovative structure

Hong Kong's first modular Chinese medicine hospital

Area of 190,000 square meters

MiC - Medical

Kai Tak Community Quarantine and Treatment Facility Project

Penny's Bay Community Quarantine and Treatment Facility Project

New Community Quarantine and Treatment Facilities Constructed with Mainland Support in Hong Kong

- The central government has assisted in the construction of eight new community isolation and treatment facilities in Hong Kong. China State Construction HaiLong is responsible for the supply of six modular container units and the production and supply of two permanent modular isolation facilities.
- The project covers a total constructionarea of 510,000 square meters, utilizing over 17,600 modules. Following British standards, five main factories and over 20 sub-factories collaborated with tens of thousands of workers to complete the production and assembly, delivering the project in just 66 days.

Kai Tak Community Quarantine and Treatment Facility Project

Steel Structure Modular Integrated Construction (S Series)

Delivered in 66 days

Over 17,600 modules

Area of 510,000 square meters

The largest community quarantine and treatment facility project in Hong Kong

Exterior

Exterior

Anderson Road Quarry Site Joint Cavern Development, Hong Kong

- This project involves the excavation of an 80-meter-deep cavern at the Anderson Road Quarry site. The design includes a two-storey underground workshop and a three-storey underground historical artifact storage facility. The project uses modular integrated construction, with each module comprising three smaller sub-modules. A total of 2,324 modules were used, covering a total construction area of approximately 26,700 square meters.

Bird's-eye View

Concrete Modular Integrated Construction (C Series)

2,324 modules

Area of 26,700 square meters

Intelligent production and construction

The first modular integrated construction project in a cavern for a Hong Kong civil engineering project

Exterior Rendering

Interior

Welfare Service Complex Project, Hong Kong Kwu Tung North Zone 29

- The welfare service complex covers a construction area of 40,000 square meters and uses 1,764 modules built with advanced concrete modular integrated construction technology developed by Hailong.

Bathroom

Concrete Modular Integrated Construction (C Series)

1,764 modules

Area of 40,000 square meters

Intelligent production and construction

The first public welfare project in Hong Kong built using concrete modular integrated construction

MiC - Public Buildings

Bird's-eye View

Police Driving and Traffic Training Complex

Kong Nga Po Police Training Facilities in Hong Kong

- The project is located in the Kong Nga Po area and includes a 14-storey, 4-building complex. It comprises police training venues and associated facilities, including a firearms training center, a 25-meter shooting range, 300 dormitory rooms, a dining hall, and various training and administrative spaces. The project uses modular integrated construction technology, with a total of 124 modules (42 steel modules and 82 concrete modules).

Police Driving and Traffic Training Complex

Concrete Modular Integrated Construction (C+S Series)

124 modules

Area of 45,000 square meters

Intelligent production and construction

The first project in Hong Kong to simultaneously use steel and concrete modular units

MiC - Cultural and Tourism Facilities

Luogang Central Park Smart Station Project in Hefei

- Features 34 smart stations offering public amenities, including restrooms, nursing rooms, exhibition halls, and commercial spaces. Some stations utilize I-BOX modular technology.
- Incorporates advanced modular construction with BIPV technology, completed in 120 days, with software and hardware integration achieved in just 2 days.

I-BOX Modular Integrated Construction (I Series)

- Completed in 120 days
- First in Anhui to integrate BIPV in public stations
- Intelligent construction
- China's first "Passive House" certified modular projec

MiC - Elevator Installation

Exterior Renderings

Interior Real Scene

Elevator Installation EPC Project in Nigang Campus of Shenzhen Middle School

- The project involved installing 12 elevators across 4 dormitory buildings, with 8 staircases. It used modular construction, with 108 prefabricated units for the elevator shafts, stairs, and machine rooms. The entire installation was completed in 66 days, with the fastest installation of a single elevator taking only 4 days.

Hoisting Construction

Elevator Modular Integrated Construction (E Series)

Fastest installation in 4 days

108 modules

Key project in Shenzhen for industrialization

The first high-rise building product in China to adopt dual elevator shaft modular integrated construction technology