

**ZOOMLION**

# **CONSTRUCTION HOISTING MACHINERY**



en.zoomlion.com



Zoomlion Tower Crane



Zoomlion Tower Crane



ZOOMLION TOWER CRANE



ZOOMLION TOWER CRANE





## ZOOMLION GROUP

Founded in 1992, ZOOMLION primarily engages in the research, development, and manufacturing of construction machinery, agricultural machinery and other high-tech equipment and new building materials. Its leading products covering 18 major categories, 105 product series, and 636 models. ZOOMLION is the first company in the industry to be listed on both A and H stock markets, with a registered capital of RMB 8.678 billion and total assets amounting to RMB 136.7 billion.

ZOOMLION is the world-leading manufacturer of construction hoisting machinery, mobile crane machinery, concrete machinery, earthmoving machinery, aerial working platform machinery, etc. Its products, including tower cranes, crawler cranes, concrete pump trucks, and wheeled cranes have been awarded national manufacturing single champion titles.

ZOOMLION has successively acquired Powermole from the UK, CIFA from Italy, M-TEC from Germany, Wilbert from Germany and Rabe from Germany, and has built overseas production bases in Belarus, Brazil, India and other places. The company's R&D center, production base, market network and service system cover all over the world, and its products cover more than 130 countries and regions in seven continents. It has established more than 30 subsidiary platforms worldwide, and established a global logistics network and spare parts supply system.

## ZOOMLION CONSTRUCTION HOISTING MACHINERY COMPANY



Bridge



Wind Power



Thermal Power



Nuclear Power



Hydroelectric



Venue



Super High-rise

ZOOMLION Construction Hoisting Machinery Company (ZCHM) is a subsidiary of Zoomlion Heavy Industry Science & Technology Co., Ltd., and is mainly engaged in the design and development, manufacturing, sales and services of tower cranes and construction hoists, with a modern plant of over 300,000 square meters and more than 3,000 employees.

ZOOMLION Tower Crane Intelligent Factory was honored as National Green Factory in 2020, producing one tower crane every 18 minutes and one construction hoist every 25 minutes.

ZCHM is a pioneer in the industry of super-large tower cranes, with global leading technical strength and complete equipment series to meet various construction needs, and performs well in the fields of housing, stadiums, bridges, thermal power and nuclear power.

Through global operations, ZOOMLION has ranked No.1 in global tower crane manufacturers list for many consecutive years, and is now the global leader in brand value, market share and sales revenue.



## 2 OVERALL STRENGTH - WORLD LEADING

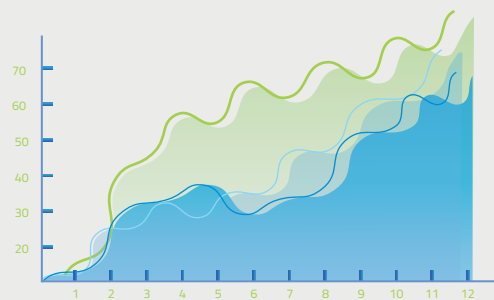
### TOP 10 GLOBAL TOWER CRANE MANUFACTURERS

| Rank | Manufacturer     | Country | year of<br>foundation |
|------|------------------|---------|-----------------------|
| 1    | 中联重科<br>ZOOMLION | CHINA   | 1992年                 |

Brand ranks No.1 in the world.

---from the "China Construction  
machinery" magazine

Sales revenue and market share  
has ranked No.1 for many  
consecutive years.



The only enterprise in China  
industry that has won the National  
Science and Technology Progress  
Award and the title of "National  
excellent engineer team".



ISO Crane Technical Committee  
(ISO/TC96) Secretariat settled in  
Zoomlion.

China tower crane national  
standard formulation and revision  
enterprise.



ZOOMLION has the world's  
largest tower crane intelligent  
factory and 8 bases around the  
world, which can guarantee an  
annual output of 20,000 tower  
cranes and 10,000 elevators.

## 3 TECHNICAL ACCUMULATION - ABUNDANT



In 1956, China's first tower crane was born in  
ZOOMLION; ZOOMLION is focusing on tower  
crane design and manufacturing for nearly 70  
years.

The world's longest jib  
tower crane  
**D1250-80**



The strongest wind  
resistance tower crane  
**D1100-63V**



The world's biggest  
internal-climbing luffer  
**LH3350-120**



The world's first tower  
crane exceed 10,000tm  
**R12000-450**

The world's biggest luffer for  
wind power construction  
**LW2800-200**



The world's largest  
tower crane  
**R20000-720**



### REPEATEDLY CREATE WORLD-CLASS PRODUCTS



The world's largest  
hammer-head tower crane  
**D5200-240**

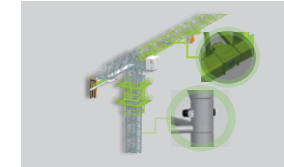




## FOREFRONT DESIGN TECHNOLOGY

- In 2012, ZOOMLION bought out Germany JOST's whole series flat-top tower crane technologies;
- In 2018, ZOOMLION acquired Germany tower crane manufacturer Willbert;
- ZOOMLION has formed a unique tower crane technology style through independent innovation, our product technology is at the forefront of the world.

## SECURITY TECHNOLOGY LEADS THE INDUSTRY



### ALL PIN CONNECTION

Save on maintenance;  
Safety and reliable standard.



### ANCHORING ITEMS DETECTION

Millisecond response;  
Immediately stop by suddenly load change;  
Effectively reduce the risk of overload during high-speed operation.



### ANTI-COLLISION

Alerting and control at same time;  
Ad-Hoc Network, Automatic get the data of the tower height.



### ANTI SUDDEN UNLOAD

Rope breaking impact confirmatory;  
Tower crane stay stable when rope breaking under rated load.

## WORLD LEADING INTELLIGENT FACTORY



High precise laser cutting, cutting tolerance  $\leq 0.5\text{mm}$ , cutting range plate thickness  $\leq 300\text{mm}$ .

Automatic robot welding.

International leading automotive technology-electrophoresis coating.

With Level 7 of drilling hole, ensuring the tightly stitched of mast sections, easy installation and removal of pins, and long service life.

## ADVANCED QUALITY CONTROL TECHNOLOGY

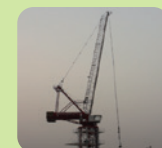
1200h average trouble-free working time of the whole equipment;  
More than 10000 working cycles all-working condition experiment;  
Special experimental system for key parts.



Fatigue life test for connection



Function test for internal climbing equipment



Overturn proof

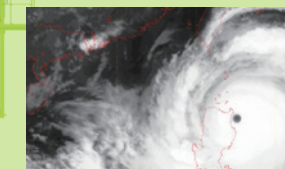


Mechanism testing



### ANTI-OVERLOAD

ETI digital control;  
overload test is stricter than EU.



### ANTI TYPHOON

Typhoon resistance is higher than the national standard;  
European standard typhoon resistance.

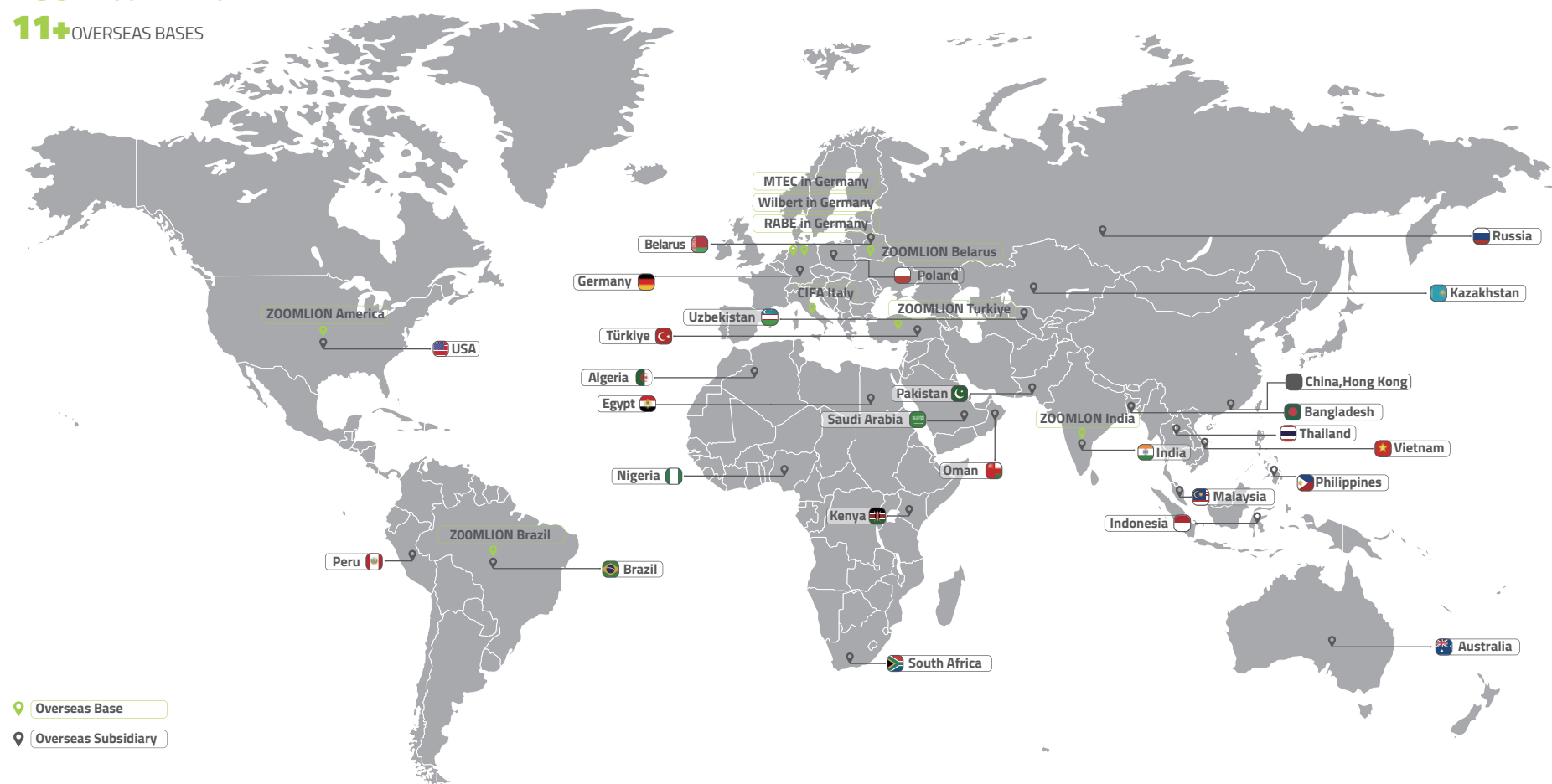




# 5 SERVICE RESPONSE - RAPID

Based on the "global village principle",Zoomlion has built a global and grid management system, set up 31 regional headquarters,and covered 130+ countries through branch business, covering about 60% of the country and 95% of the market demand.

31+ NATIONAL BRANCH  
186+ REGIONAL BRANCH  
11+ OVERSEAS BASES



## FAST TECHNICAL RESPONSE

The professional technical team goes into major markets abroad, closely coordinates with sales and service teams, quickly responds to customized requirements from customers.



## FAST SERVICE RESPONSE

With the three-level inventory system of overseas branch company warehouse, China harbor-base warehouse and long-periodic material inventory, 24h on-line for service and 24h reach to site, we provide customers with the fastest delivery.



## FAST DELIVERY RESPONSE

Completed the development and delivery of the world's largest tower crane in only 8 months, and completed the production and delivery of nearly 1,000 tower cranes for Xiongan Project within only 3 months.





# FLAT-TOP TOWER CRANE

**HIGH-END**  
High quality  
High safety  
Long life span

**INTELLIGENT**  
Remote debugging  
Remote security inspection  
Remote health management

**GREENIZATION**  
Modular design  
Ecological layout

### REMOTE SECURITY INSPECTION

- Standardization of the inspection, transmission and electrical control sensors inspection.
- Real-time monitoring of tower crane operation status, abnormal items are automatically recorded.

### HIGH QUALITY

- The world's best round tenon mast section, with higher FSH and suspension height.
- Highly integrated panoramic cabin, with industrial and ergonomic design .

### HIGH SAFETY

- All pin connection, anti-sudden unload, anti-collision, maintenance-free.
- Digital control, avoid overload/slipping/topping.

### LONG SERVICE LIFE

- 30 years life-span of top part; 30 years equivalent life-span of upper support, lower support and jibs.
- 30 years life-span of bottom part; 30 years equivalent life-span of round tenon, square tenon and H tenon masts.

### REMOTE DEBUGGING

- Calibration of remote digital safety device. Settings of remote anti-collision parameter.
- Remote inverter self-learning.

### REMOTE HEALTH MANAGEMENT

- Monitoring of security status, real-time monitoring of 4 kinds of security status.
- Data board of tower crane, tower crane distribution query, statistical analysis of data.

## PRODUCT SERIES

**80t.m-370t.m**  
**FLAT TOP WITH MONO TYPE MAST**

| Mode | Jib Length (m) | Tip Load (t) | Max Load (t) |
|------|----------------|--------------|--------------|
| R90  | 50/60          | 1.5/1.0      | 5/6          |
| R100 | 60             | 1.3          | 6            |
| R135 | 60             | 1.7          | 8            |
| R165 | 65             | 1.7          | 8/10         |
| R220 | 65             | 2.2          | 10           |
| R245 | 70             | 2.0          | 10/12        |
| R275 | 70             | 2.7          | 10/12        |
| R335 | 75             | 3.0          | 16/20        |
| R370 | 80             | 2.5          | 16/20        |

**80t.m-370t.m**  
**FLAT TOP WITH PIECES TYPE MAST**

| Mode   | Jib Length (m) | Tip Load (t) | Max Load (t) |
|--------|----------------|--------------|--------------|
| WA5610 | 56             | 1.0          | 6            |
| WA6013 | 60             | 1.3          | 6            |
| WA6017 | 60             | 1.7          | 8/10         |
| WA6515 | 65             | 1.5          | 8/10         |
| WA7015 | 70             | 1.5          | 10           |
| WA7020 | 70             | 2.0          | 10           |
| WA7025 | 70             | 2.5          | 10/12        |
| WA7527 | 75             | 2.7          | 16/20        |
| WA350  | 80             | 2.2          | 16/20        |

Note: special models excluded in the above templates are available for some areas.





# SUPER-LARGE TOWER CRANE

### COMPLETE MODEL SERIES

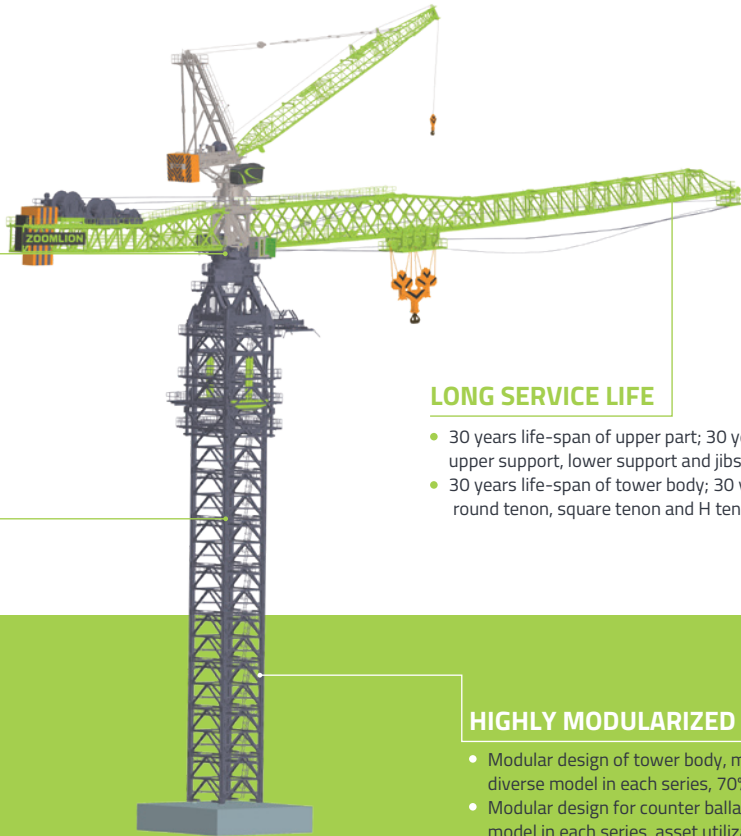
13 models with 32 specifications  
Excellent performance in various  
working conditions

### INTELLIGENT AND SAFETY

All-round security technology  
Remote debugging  
Remote security inspection  
Remote health management

### GREENIZATION AND HIGH-EFFICIENCY

Modular design  
30 years equivalent life-span of structural component  
Planetary transmission mechanism



### HIGH SAFETY LEVEL

- Multi-cylinder synchronous jacking system, with automatic correction and good synchronization.
- Real-time monitoring of rope guide and automatic hook tracking can be checked in driver's cab.

### HIGH EFFICIENCY

- Electric inletting, high jacking efficiency.
- Equipped with pin pulling device, high efficiency for tower body installation and dismantling.

### LONG SERVICE LIFE

- 30 years life-span of upper part; 30 years equivalent life-span of upper support, lower support and jibs.
- 30 years life-span of tower body; 30 years equivalent life-span of round tenon, square tenon and H tenon masts.

### HIGHLY MODULARIZED

- Modular design of tower body, mast section can be universally used for diverse model in each series, 70% purchasing cost can be reduced.
- Modular design for counter ballast, same counter ballast block for diverse model in each series, asset utilization rate is greatly improved.

## PRODUCT SERIES

### 500t.m-22000t.m HUGE TONNAGE MODEL

| Mode  | Jib Length (m) | Tip Load (t) | Max Load (t) |
|-------|----------------|--------------|--------------|
| R500  | 80             | 3.5          | 25           |
| R600  | 85             | 2.8/2.6      | 25/32        |
| R800  | 80             | 7.5/7.2      | 32/40        |
| R1000 | 80             | 11.2         | 50           |
| R1300 | 80             | 15.6         | 64           |
| R1660 | 80             | 19.5         | 80           |
| R2300 | 80             | 24.0         | 80/100/120   |
| R2800 | 85             | 27.5         | 160          |

## CLASSIC CASE



BRIDGE PROJECT /  
CHINA/ R20000-720



SHIP BUILDING PROJECT /  
KOREA / R4300-100



POWER CONSTRUCTION PROJECT /  
CHINA / R3200-200



PPVC PROJECT /  
SINGAPORE / R1000-50



# LUFFING JIB TOWER CRANE

### OUTSTANDING HOISTING PERFORMANCE

The hoisting performance of all jib lengths exceeds that of the industry equivalent luffing jib crane, and all jibs with different length have maximum hoisting capacity.

### MULTIPLE CONFIGURATION

Multiple combinations of jib length  
Multiple sections are available for tower body  
The mast section types including integral type, piece type and rod type  
Multiple configurations are available for hoisting mechanism, some are partial universal to flat-top hoisting mechanism.

### EXCELLENT HANDLING PERFORMANCE

- Fully inverter controlled technology for three mechanisms, allow smoother and more stable operation.
- Fence type drum technology with double-line rope groove, ropes are arranged neatly, lifespan are extended.

### EXCELLENT HOISTING PERFORMANCE

- The hoisting performance of all jib length exceeds that of the industry equivalent luffing crane.
- All jibs with different length have maximum hoisting capacity.

### MULTIPLE CONFIGURATION

- Multiple combinations of jib length are available to meet the demands of various working conditions.
- Multiple sections are available for tower body, RA/RB round tenon mast are optional for middle and small tonnage luffing crane.

### HIGH INTELLIGENCE LEVEL

- Remote management of device information, device status and operator identity authentication.
- Real-time monitoring of equipment working conditions, alarm data recording, tracking and analysis.

### EFFICIENT INSTALLATION & DISMANTLING

- High efficient installation and debugging technology, complete installation or dismantling within 1 day;
- Jib dismantling can be completed in the air, safe and efficient.

## PRODUCT SERIES

### LUFFING 125-3350t.m

| Mode  | Max Length (m) | Tip Load (t) | Max Load (t) |
|-------|----------------|--------------|--------------|
| L125  | 50             | 1.5          | 8/10         |
| L140  | 50             | 2.5          | 10           |
| L200  | 55             | 2.2          | 12/16        |
| L250  | 60             | 3.0/2.71     | 16/20        |
| L315  | 60             | 3.6          | 20           |
| L400  | 60             | 4.71         | 25           |
| L500A | 60             | 6.3/5.0      | 32/50        |
| L650  | 60             | 9.57         | 50           |

### ROOF LUFFING

| Mode  | Max Length (m) | Tip Load (t) | Max Load (t) |
|-------|----------------|--------------|--------------|
| LR50  | 20             | 3.0          | 3            |
| LR125 | 30             | 4.1          | 10           |
| LR160 | 45             | 3.9          | 25           |
| LR250 | 30             | 9.17         | 25           |

| Mode  | Max Length (m) | Tip Load (t) | Max Load (t) |
|-------|----------------|--------------|--------------|
| L800  | 60             | 12.0         | 64           |
| L900  | 66             | 10.6         | 50           |
| L1600 | 65             | 14.5         | 64           |
| L2000 | 70             | 16.2         | 100          |
| L2580 | 70             | 23.3         | 100          |
| L2800 | 70             | 24.5         | 100          |
| L3350 | 70             | 33.0         | 120          |

### WIND TURBINE LUFFING

| Mode   | Max. Load (t) | Max. lifting height(m) |
|--------|---------------|------------------------|
| LW2800 | 180           | 180                    |
| LW2800 | 200           | 198                    |

## CLASSIC CASE





# TOPLESS HYDRAULIC LUFFING JIB CRANE

### Quick Installation & Dismantling, Easy Maintenance

- Compared to traditional luffing jib, the mounting of A frame, trolley mechanism and rope-pulley system is not required.
- The jib heel and hydraulic cylinder, the pump and counter jib are combined transportation unit. The lifting and erect. & dis. efficiency can be increased by 50%.
- Each arm section of the jib can be disassembled in the air.

### Better Performances

- Max. 87° radius in luffing model, solve the close lifting problem.
- Max. park range 15m in luffing model out of service, supper short counter iib, better obstacle avoidance ability.

### Easy transportation, fewer container

- Fewer types of parts, light weight, small size, easier transportation.
- Compared to traditional luffing jib crane, 1\*40HQ can be saved for the transportation of upper part.

### High Safety, High Reliability

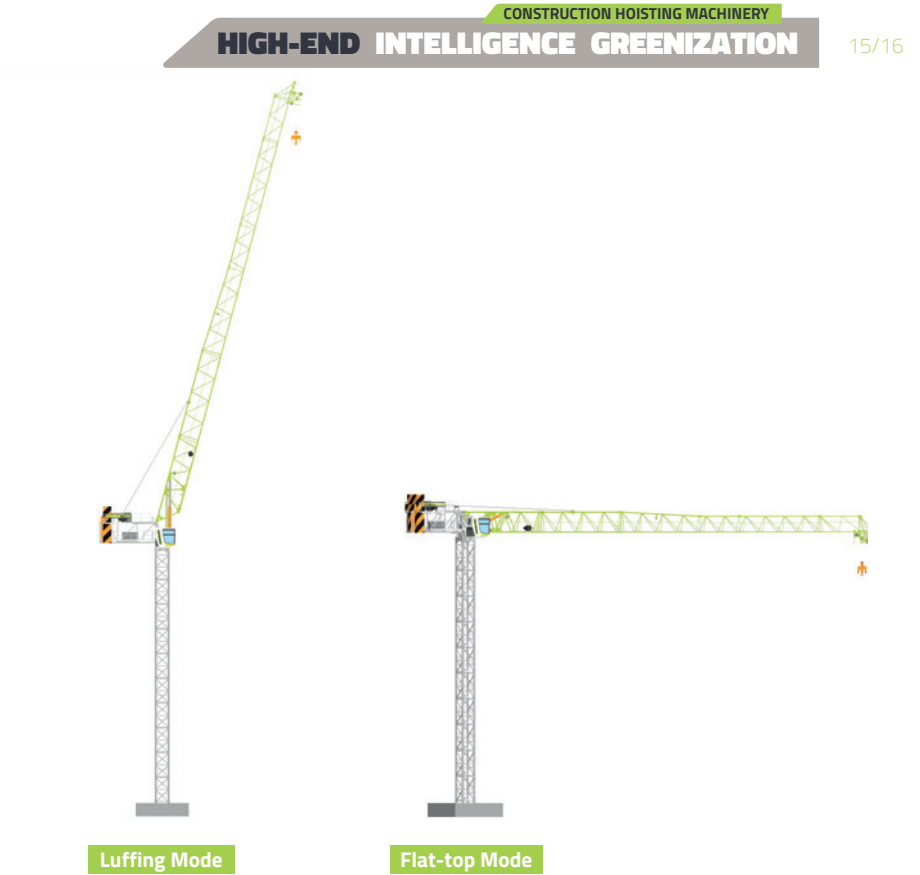
- Hydraulic variable amplitude double locking technology, triple protection function, anti-cylinder leakage, preventing fuel line bursts.
- ETI digital control system, real time feedback, real time control.

## PRODUCT SERIES

### TOPLESS HYDRAULIC LUFFING JIB CRANE 90~315t.m

| Mode  | Max Length (m) | Tip Load (t) | Max Load (t) |
|-------|----------------|--------------|--------------|
| RL90  | 40             | 1.70         | 6            |
| RL125 | 50             | 2.36         | 8            |
| RL165 | 50             | 2.65         | 10           |
| RL205 | 55             | 2.60         | 10/12        |
| RL250 | 60             | 2.40         | 12/16        |
| RL315 | 60             | 4.00         | 20/25        |

## CLASSICA CASE



HIGH-END INTELLIGENCE GREENIZATION



# CONSTRUCTION HOIST



### High-efficiency

- Speed is 50m/min, increased by 50%;
- Reducer efficiency is 95%;
- Motor efficiency is 90%;
- Only one oil change during lifetime;
- Brake pads only need replacement every 4 years.

### High-safety

- Suspending at zero speed, anti-sudden drop;
- Reduce pressure and speed to prevent slipping;
- Multiple security protections for main electrical control cabinet.

### Humanization

- Close-loop control, flexible connection;
- All rollers and back wheels are anti-loose and lubrication free;
- Brand new coating, maintenance free.

### Intelligent

- Face recognition, classified management;
- Automatic leveling, with millimeter accuracy;
- Intelligent console, can display more than 100 faults;
- Remote fault self-diagnosis;
- The ordinary construction hoist can be modified to unmanned operating construction hoist.

## PRODUCT SERIES

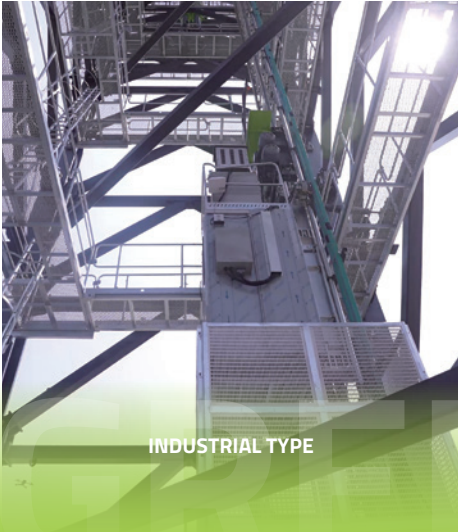
### CONSTRUCTION HOIST

| Type               | Model           | Configuration | Configuration                         | Rated Load(kg) | Rated Speed(m/min) | Maximum installation height(m) |
|--------------------|-----------------|---------------|---------------------------------------|----------------|--------------------|--------------------------------|
| Energy-saving      | SC200/200EB-A1  | 4S2050        | double cage                           | 2×2000         | 50                 | 500                            |
|                    | SC200EB-A1      |               | Left single cage<br>Right single cage | 2000           |                    |                                |
| Intermediate speed | SC200/200EB-B1  | 4S2058        | double cage                           | 2×2000         | 58                 |                                |
|                    | SC200EB-B1      |               | Left single cage<br>Right single cage | 2000           |                    |                                |
|                    | SC200/200BZ-A   | 4S2063        | double cage                           | 2×2000         | 63                 |                                |
|                    | SC200BZ-A       |               | Left single cage<br>Right single cage | 2000           |                    |                                |
| High-speed         | SC200/200BG-A   | 4S2080        | double cage                           | 2×2000         | 80                 |                                |
|                    | SC200BG-A       |               | Left single cage<br>Right single cage | 2000           |                    |                                |
| Tilted             | SCQ200/200EB-A1 | 4S2050        | double cage                           | 2×2000         | 50                 |                                |
|                    | SCQ200EB-A1     |               | Left single cage<br>Right single cage | 2000           |                    |                                |
| Shaft lift         | SC200EB-J       | 4S2050        | Single cage                           | 2000           | 50                 | 260                            |
| Industrial         | SC40BD          | BWM-4S        | Single cage                           | 400            | 33                 | 200                            |

## CLASSIC CASE



HIGH SPEED TYPE



INDUSTRIAL TYPE



Shaft lift



TILETED TYPE