

# Mobile Crane





### Stronger lifting capacity

5 section 45m main boom with leading comprehensive lifting capacity over competitors by 5%-15%.  
 Innovative plate-structure boom head and compact boom end.  
 Best lap ratio in the industry and optimal U-shaped main boom.  
 Second generation of arbitrary telescoping technology.  
 Minimum stable slewing speed: 0.1°/s.  
 Minimum stable hoisting speed: 2.5 m/min.

### Better fuel efficient

20% improvement in fuel economy.  
 IECO Smart Fuel-Efficient Module.  
 Hydraulic system with variable displacement pump and energy-saving control.

### Higher comfort

Large-space panoramic operator's cab.  
 New large-space sliding door + forward-push window.  
 Operator's cab can be tilted by 20°.  
 Driver's cab with sleeper function.

### More reliable

Reliability has improved up to 30%.  
 Modular design and consistent quality.  
 Quality wall management for full development process.  
 Over 20,000 times of fatigue tests.

### Higher traveling performance

Maximum speed: 85km/h.  
 Gradeability: 47%.

#### ■ Environmental friendly and energy conservation

Systematic comprehensive noise reduction, in line with industry CE standard;  
 With the intelligent multi-power mode energy-saving system, the average comprehensive fuel consumption of superstructure is reduced by 20%.

#### ■ Intelligent interconnection

7 inch colorful screen, standard onboard integrated information platform.

#### ■ Reliable and efficient

Cooperation with China CEPREI Laboratory, reliability design concept is fully executed.  
 After 10,000 simulated fatigue tests, 5,000 rated-load tests, 3,000 limiting condition load tests and 11,000Km high-intensity driving test, the MTBF is increased by 30%.

#### ■ Excellent performance

Optimal setting of crane parameters, topological optimization of four major structures, and the comprehensive lifting performance stronger than its counterparts in the industry.

**Stronger lifting capacity**

5 section 47m main boom with leading comprehensive lifting capacity.  
 Innovative plate-structure boom head and compact boom end.  
 Best lap ratio in the industry and optimal U-shaped main boom.  
 Second generation of arbitrary telescoping technology.  
 Minimum stable slewing speed: 0.1°/s.  
 Minimum stable hoisting speed: 2.5 m/min.

**Better fuel efficient**

20% improvement in fuel economy.  
 IECO Smart Fuel-Efficient Module.  
 Hydraulic system with variable displacement pump and energy-saving control.

**Higher comfort**

Large-space panoramic operator's cab.  
 New large-space sliding door + forward-push window.  
 Operator's cab can be tilted by 20°.  
 Offer both left-hand drive and Right-hand drive.  
 Driver's cab with sleeper function.

**More reliable**

Reliability has improved up to 30%.  
 Modular design and consistent quality.  
 Quality wall management for full development process.  
 Over 20,000 times of fatigue tests.

**Higher traveling performance**

Maximum speed: 85km/h.  
 Gradeability: 46%.

**Environmental friendly and energy conservation**

Systematic comprehensive noise reduction, in line with industry CE standard.  
 With the intelligent multi-power mode energy-saving system, the average comprehensive fuel consumption is reduced by 20%.

**Intelligent interconnection**

7 inch colorful screen, standard onboard integrated information platform.

**Reliable and efficient**

Cooperation with China CEPREI Laboratory, reliability design concept is fully executed.  
 After 10,000 simulated fatigue tests, 5,000 rated-load tests, 3,000 limiting condition load tests and 11,000Km high-intensity driving test, the MTBF is increased by 30%.

**Excellent performance**

Optimal setting of crane parameters, topological optimization of four major structures, and the comprehensive lifting performance stronger than its counterparts in the industry.



**Stronger lifting capacity**

6-section elliptical boom (total length of 63m), with 2-section standard jibs and one optional extension (total length of 26.6m), reaching the maximum lifting height of 90.5m.

Comprehensive lifting capacity is higher than that of 6-axle 100t products by more than 15%.  
Third generation single cylinder pinning technology.

**Higher comfort**

Large space panoramic operator's cab.  
Operator's cab can be tilted by 20°.

**More reliable**

Reliability has improved up to 30%.  
Modular design and consistent quality.  
Over 10,000 times of fatigue tests.  
Cooperation with top CEPREI Laboratory.

**Higher traveling performance**

Max. gradeability: 40%.  
Jobsite transit can carry 10T counterweight.



**Stronger lifting capacity**

Superior lifting capacity, 7-section main boom length up to 72 m.  
Four-section fixed jibs length up to 36 m.  
Third generation single cylinder pinning technology.  
Minimum stable slewing speed: 0.1° / s.  
Minimum stable hoisting speed: 2.5 m/min.

**More economical**

Take the lead to realize the localization of the core components of the chassis of the all-terrain crane in the industry.  
After five years' cooperative research and development of the whole supply chain, it offers high maturity and dependability and easy maintenance.

**More comfort**

Large space panoramic operator's cab.  
The operator's cab can be tilted by 20°.  
Full width metal driver's cab.

**More reliable**

Reliability has improved up to 30%.  
Modular design and consistent quality.  
Cooperation with top CEPREI Laboratory.  
More than 10,000 fatigue tests.

**Higher traveling performance**

Max. gradeability: 40%.  
Maximum speed: 75 Km/h.  
It meets the standard of Category G vehicles.

**Lower cost**

Take the lead to realize the localization of the core components of the chassis of the all-terrain crane in the industry, with the purchase cost more than 20% lower than that of competitors.

**More convenient maintenance**

After five years' cooperative research and development of the whole supply chain and 300,000 km rigorous test and assessment, it has high maturity and dependability.  
The domestic components are more convenient to maintain, and parts have higher availability. The all-terrain crane are sold to Singapore, Malaysia, Hong Kong, South Africa, the Middle East, etc.

**Better maneuverability**

With the upgraded operating performance and customized low speed shift function, the minimum stable hoisting speed is 2.5 m/min, thus meeting precise hoisting requirements.





### Stronger lifting capacity

The "micro luffing with load" superlift boom technology makes the positioning accuracy of wind turbine up to grade mm.

With 85 m mounting height and 100 t lifting capacity, it meets installation requirements of a typical 2.0 MW wind turbine.

With 90 m mounting height and 93 t lifting capacity, it meets installation requirements of some typical 2.5 MW wind turbine.

### Higher safety

Fully upgraded operating performance.

The slewing action realizes principles of "quick for light and near one and slow for heavy and far one".

Balanced operating speed, smoothness and micro-positioning operation.

### More comfortable

Large space panoramic operator's cab. The operator's cab can be tilted by 20°.

Chassis cab with sleeper function.

### More reliable

Reliability has improved up to 30%.  
Modular design and consistent quality.  
Cooperation with top CEPREI Laboratory.  
More than 10,000 fatigue tests.

### Higher traveling performance

Only 3-4 trailers are required for transit in wind power applications.  
The machine can drive together with superstructure.  
Super-lifting can be self transited in super short distance.

### Higher stability

With the micro luffing boom technology, the mounting positioning accuracy is up to grade mm, which can easily realize precise alignment of the thread hole, no matter that the main boom length is up to 100m long. With the modular disassembling & assembling and with super-lifting transiting function, the efficiency is highly improved.

### Higher traveling performance

With higher gradeability, it is suitable for complex construction jobsite.

### Wider working range

The general purpose crane is suitable for different operation requirements and can bring stronger wind resistance capacity in wind power applications.



### Efficient disassembling & assembling and transportation

The equipment installation can be completed within 15 h in case of the superlift mode.

The basic machine transportation weight is 40 t, satisfying the global road transportation requirements.

### Stronger lifting capacity

Comprehensive lifting performance is higher than that of products with same tonnage. The hoisting requirement for 120 m 3 MW wind turbine and 140 m 2.0 MW-2.5 MW in wind power applications are satisfied.

### Wider construction application

It is designed with 12 working modes, covering wind power, thermal power generation, petrochemical, shipbuilding, metro, water conservancy, etc.

### Convenient and efficient disassembling & assembling, available for global transportation

The equipment can be disassembled, transited and assembled for construction within 2 days. With the upper and lower structure split technology, its max. transport weight of single part is 40 t, and the longest configuration for wind power application can be transported only with 30 vehicles.

### New intelligent functions and improved safety control

With the new functions such as crane equipment management, statistical reports, maintenance, fault alarm, equipment positioning and track playback functions at the mobile APP terminal, the equipment management level and operation efficiency are improved.

### New and comfortable operator's cab

Full field of view, large operation space, all-around A/C vents, and comfortable and cool interior temperature. The switches and buttons are arranged in a centralized way within the reach of the operator's hand, easy to operate.

### Stronger lifting capacity

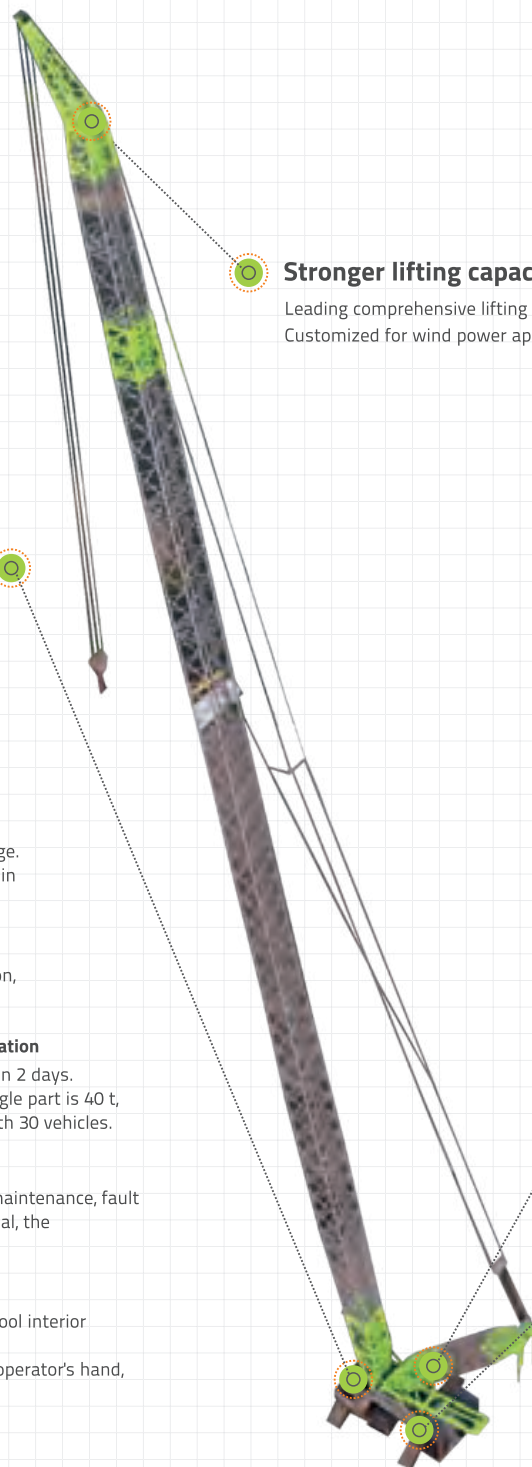
Leading comprehensive lifting performance. Customized for wind power applications.

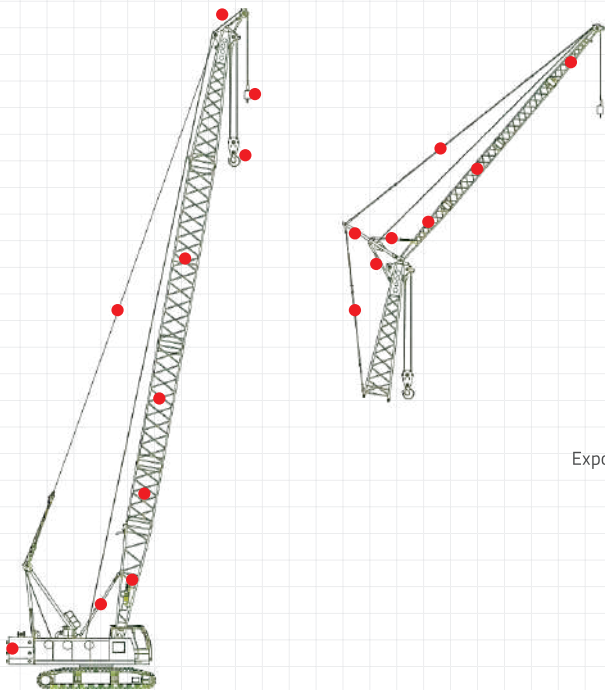
### High safety and dependability

Imported configuration. Study on super long combined boom with multiple variable diameters. Multiple safety devices.

### Comfortable control

Spacious and comfortable, with broad field of view. The centralized arrangement of buttons brings accessible operation.





**High lifting capacity**

Lifting performance improved by 5%-15%.  
Higher than competing products by 5%-10%.

**Quick maintenance**

Dedicated maintenance access.  
Exposed filling (discharging) port of reducer.

**High working efficiency**

Flexible combination of all actions.  
One-button switch of working modes for main and auxiliary hooks.  
Winch with free fall function (optional).

**Low operating cost**

Generalization rate for components is over 70%.  
Easier assembly and disassembly.



■ With the modular design, the generalization rate for components is over 70%

	ZCC551H	ZCC751H	ZCC850H
Counterweight tray	✓	✓	✓
Counterweight	✓	✓	✓
Fixed jib	✓	✓	✓
Stay bar of jib	✓	✓	✓
Tilting-back support	✓	✓	✓
Mast section of main boom section		✓	✓
Gooseneck Aux rooster sheave	✓	✓	✓
55t hook	✓	✓	✓
30t hook	✓	✓	✓
16t hook	✓	✓	✓
6t hook	✓	✓	✓



**Leading performance**

Lifting performance improved by 5%-15%.  
Higher than competing products by 5%-8%.

**Convenient sitetransit**

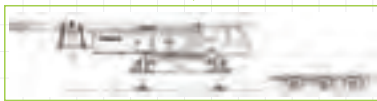
Max. transport weight: 33.5t.  
Transport width: 2.98m.  
In line with new road rules.  
Assembly time of complete crane ≤ 6 hours.

**High efficiency**

Working speed of mechanism improved by more than 10%.  
One-button switch of main and auxiliary hooks.

**Convenient assembly and job site transit**

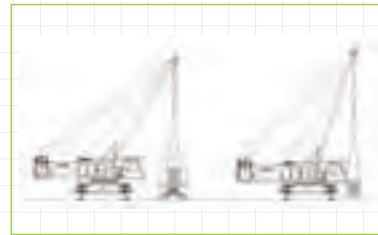
Convenient assembly and job site transit



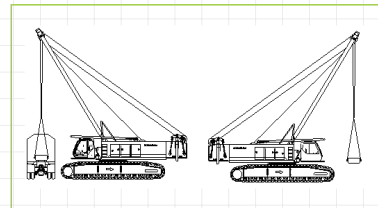
Boom installation



Crawler installation



Counterweight installation



- Max. transport weight of single unit is decreased from 35t to **33t**.  
Max. transport width is decreased from 3.3m to **2.98m**.  
It is easy to disassemble and assemble the modular components with the assembly time of complete crane not more than **6h**.



**Intelligent control**

Mobile APP management  
(Only used in China)

**Leading lifting capacity**

Comprehensive lifting performance is higher than that of products with same tonnage.

- 100m 3MW wind turbine under superlift working mode (108+7).
- 120m 2.0-2.5MW wind turbine under superlift working mode (129+7).

**Superior maneuverability**

Intelligent control of system speed.  
Flexible combination of multiple mechanisms.  
Electro-hydraulic precise matching, and synchronous action of multiple mechanisms.

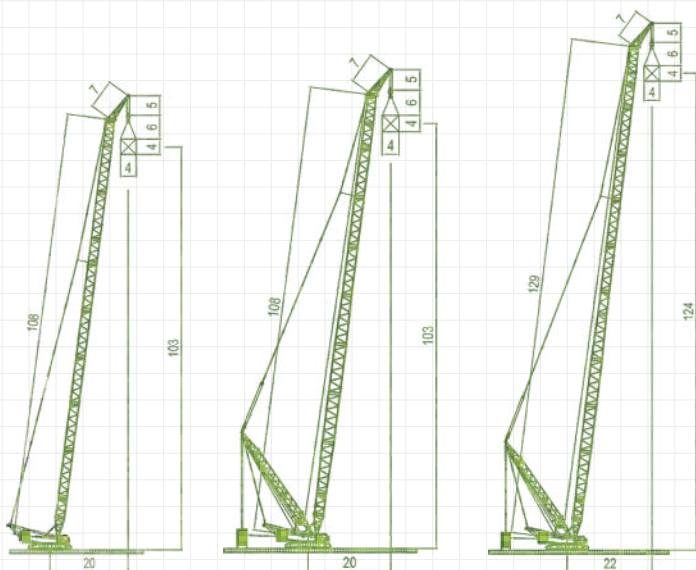
**New smart upgrade**

Mobile APP is added with new functions such as the crane equipment management (only used in China).

**Efficient and easy disassembly and reassembly**

Quick disassembly, reassembly, transit and transportation based on the modular design and self assembly/disassembly of main body.

**Leading comprehensive lifting performance**



**Standard working mode for wind power applications: 108+7**

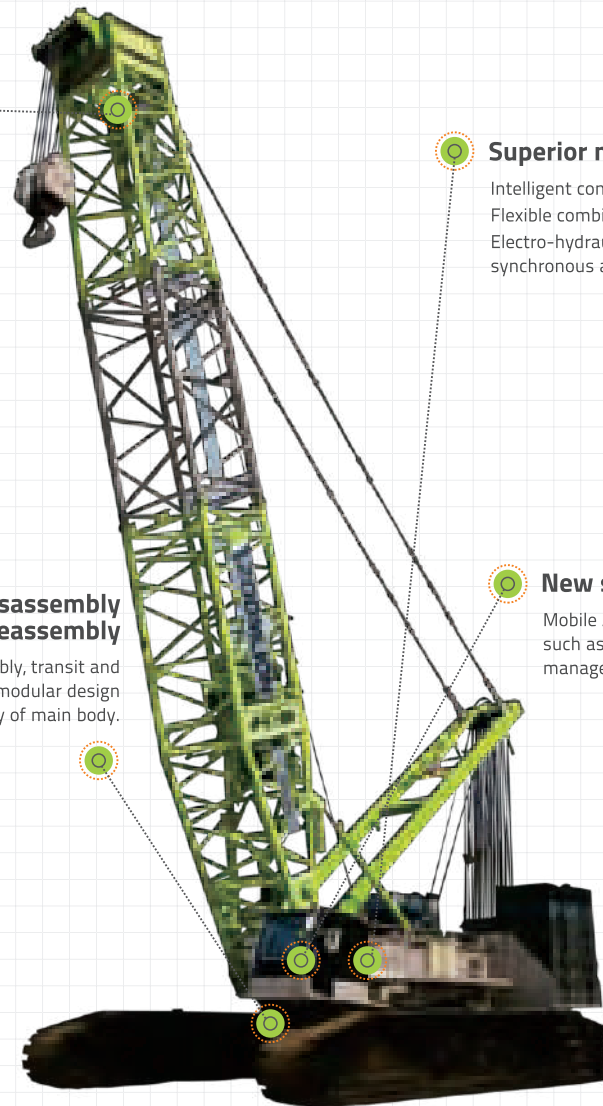
Position height: 103m  
Rated lifting capacity: 95t  
Lifting of 100m 2MW fan

**Superlift working mode for wind power applications: 108+7**

Position height: 103m  
Rated lifting capacity: 140t  
Lifting of 100m 3MW fan

**Superlift working mode for wind power applications: 129+7**

Position height: 124m  
Rated lifting capacity: 95t  
Lifting of 120m 2-2.5MW wind turbine





**High standard**

The whole series of rough terrain cranes have been certified by ANSI of North America, CE of European Union and EAC of Customs Union.

**More mature**

Share the superstructure of "Product 4.0" auto mobile crane.  
Lifting performance is higher than that of same-level product by 5%-25%.  
More convenient after-sales service.

**More reliable**

30% improvement in reliability.  
Modular design and consistent quality.  
More than 10,000 fatigue tests.  
In top CEPREI Laboratory.

**Imported components**

Engine, transmission case, axle, hydraulic elements and electrical elements are all imported from US and Germany.

**Stronger off-road capability**

Max. gradeability: 75%.



