



# Multifunctional Hoist SC200/200

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# Application

Our multifunctional hoist is applied to carry workers, concrete and long reinforcing bars in construction of high-rise buildings, especially for power construction fields like high chimney, hyperbola cooling tower, bridge and dam. Since we launched multifunctional hoist, they have been adopted in construction of over 30 power plants in China. The highest chimney they worked for reaches to 270m, and the highest cooling tower reaches to 140m.



**Wu Sha shan power plant**

Our multifunctional hoist has replaced traditional methods

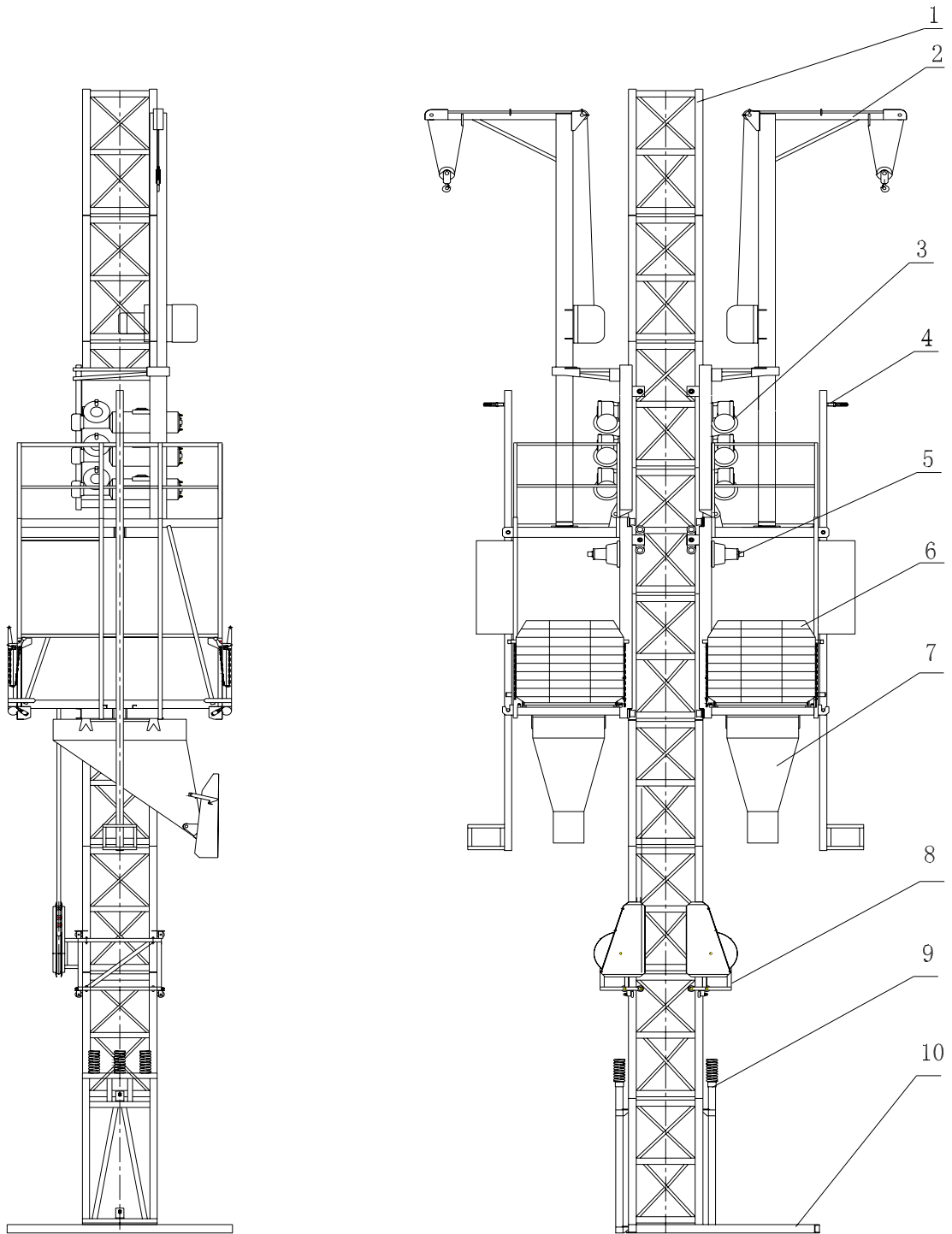
for construction of cooling tower and high chimney which together use goose-neck jib tower crane and windlass, and because it is installed inside of cooling tower for transporting of workers and materials, no another curve hoist is needed outside. So multifunctional hoists

greatly reduce equipment demands and maintenance costs. Besides, our multifunctional hoist is praised for its friendly design that users can conveniently disassemble the transporting system of concrete and reinforcing bar, transferring it into a normal hoist.



**Da Gang power plant project III**

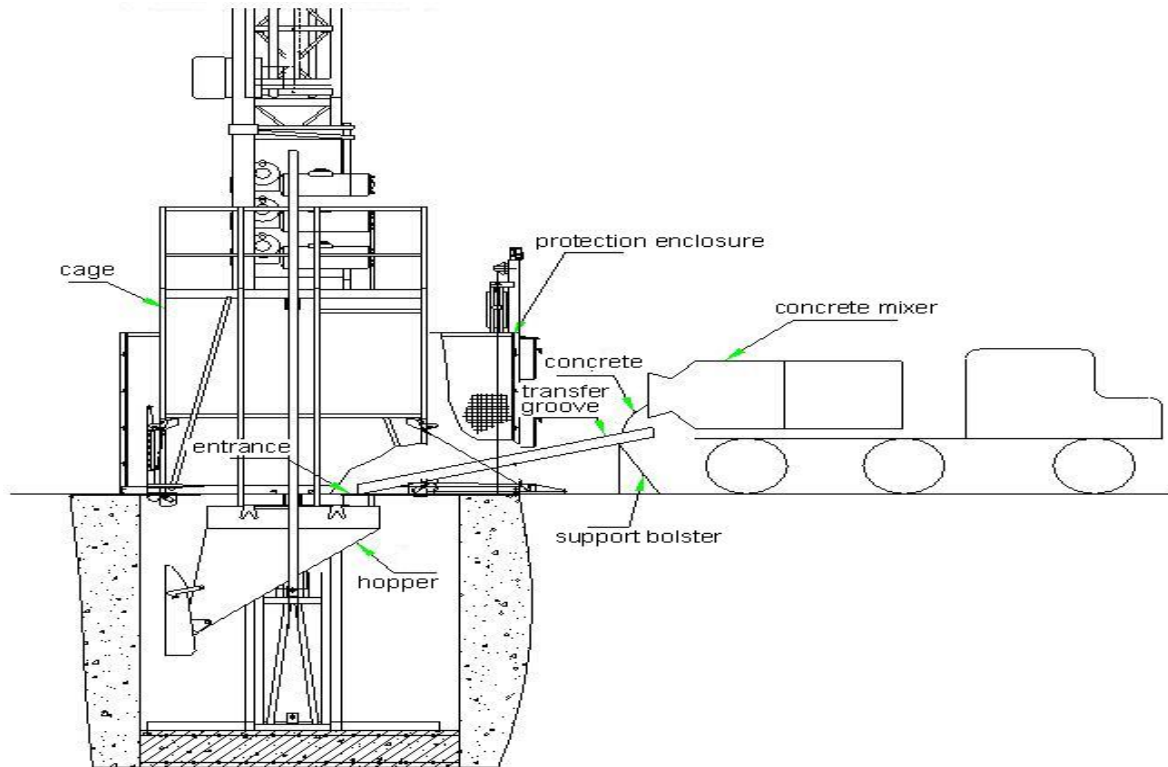
# Structure Map



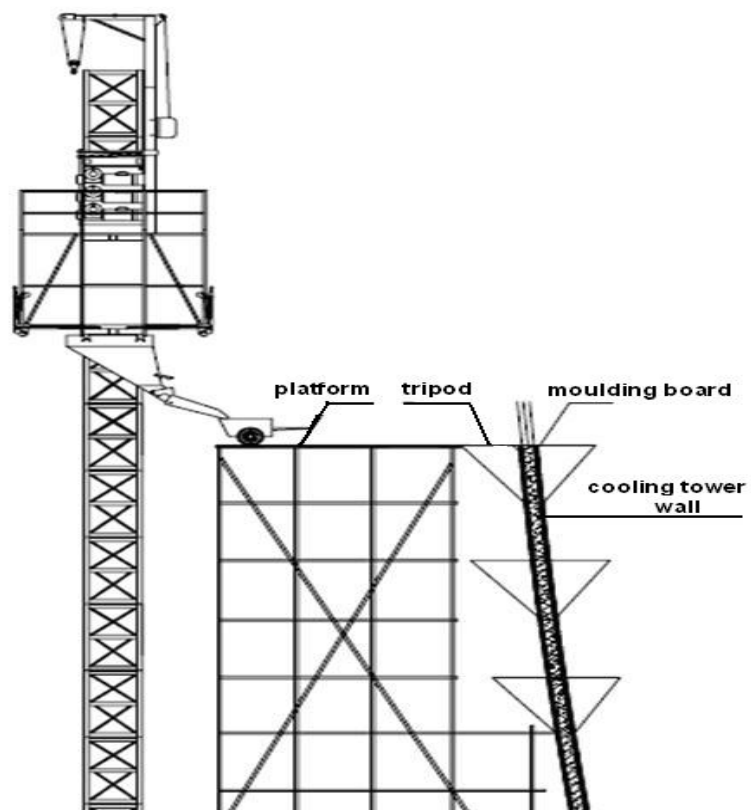
- 1. Mast system      2. Manual crane      3. Transmission system
- 4. Reinforcing bar transporting system      5. Anti-drop safety device
- 6. Cage      7. Concrete transporting system
- 8. Cable guide and protection system      9. Buffer device      10. Base

# Concrete transporting

- ◆ **Feeding:** Users can feed concrete to multifunctional hoist hopper by several ways, like concrete pump, mixer, and manual cart. It depends on what the contractor have in locale.



- ◆ **Placing:** Manual cart is the best concrete placing method to work with multifunctional hoist.

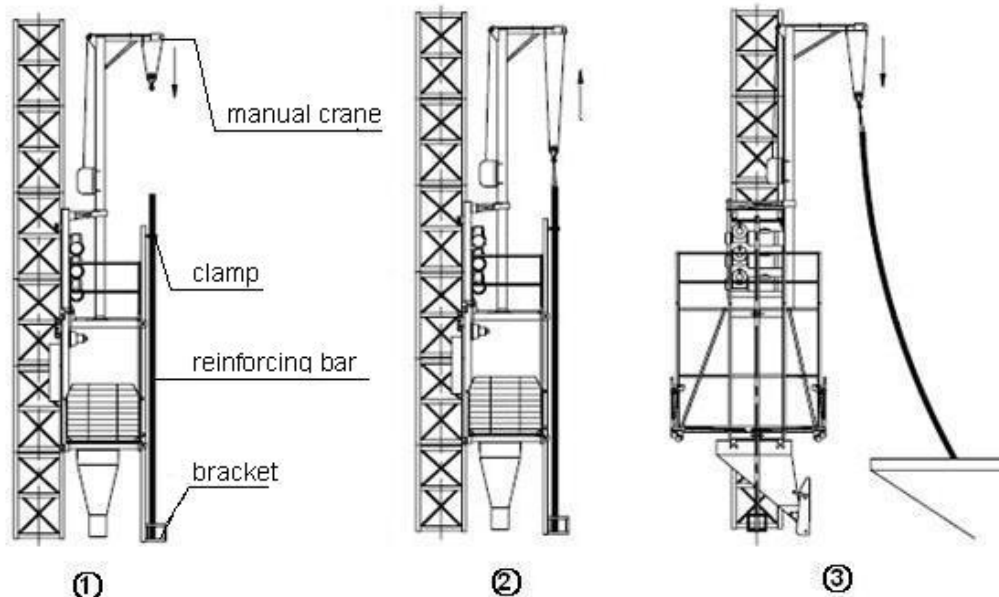


## Concrete transporting capacity

- ◆ Two hoppers equipped in SC200/200 for concrete transporting
- ◆ Each hopper with capacity of  $0.7\text{m}^3$  ( 2T ), equal to 6~8 times of a cart
- ◆ For example
  - H:100m, Speed 0~60m/min
  - Calculate with the load & unload time, 10 minutes for one transporting circle, 6 circles in one hour
- ◆ So the concrete transporting capacity of SC200/200:
  - $2 \times 0.7 \times 6 = 8.4 \text{ m}^3/\text{h}$
  - $2 \times 2 \times 6 = 24 \text{ T/h}$

## Reinforcing bar transporting

Multifunctional hoist can load reinforcing bars with the longest length of 9m, 600kg. Transporting system consists of bracket, clamp, and manual crane. They can be assembled and disassembled easily.



## MULTIFUNCTIONAL SC200/200 TECHNICAL DATA

Item	Technical data	Remarks
Rated weight (kg)	2000/2000	
Rated passagers	10/10	
Rated lifting speed (m/min)	0-60	
Electric box	VVVF+PLC	1.Inverter and Brake unit: Yaskawa Japan 2.PLC: OMRAN,Japan 3. AC contactor, thermal overload relays, witch, button etc: Telemecanique electric corporation, France.
Capacity of hopper of concrete (m <sup>3</sup> )	0.7/0.7	
Max. capacity of the lifted reinforcing bar (kg)	600/600	
Max. length of the transported reinforcing bar (m)	9	
Lifting speed of the erection crane (m/min)	6	
Max. lifting height (m)	400	
Antidrop safety device		with our patent
Electric power	380V, 50Hz	
Motor power ( kw)	2x3x15	
Transmission device		china motor, reducer and couple
Cage size LXWXH (m)	2.0x1.0x2.2	1. upper side with perforated steel board. 2.lower side made of aluminum and plastic board; 3. cage door with perforated steel board. 4. cage painted color: jacinth; 5. cage ceiling and floor : checked steel board.
Ground safety enclosure		steel nets
Mast section (mm)	650x650x1508 800x800x1508	hot in dip galvanized
Wall-tie		hot in dip galvanized
Tie in distance(m)	2.8~3.2	you'd better advise your building drawing in order to decide the distance.
Space between ties (m)	6~9	
Cable	YX3x1625+2x10	