

SUNHONG

DESCRIPTION

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INSTALLATION REQUIREMENT



Knight Sparta II Carousel



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Required Tools for Installation

serial number	Item	Specs.	Unit	Qty.	Pic.	Remarks
1	Open-end Spanner	17mm-19mm	pcs	2		Universal tools
2	Open-end Spanner	24mm-27mm	pcs	2		Universal tools
3	Open-end Spanner	22mm-24mm	pcs	2		Universal tools
4	Open-end Spanner	12mm-14mm	pcs	2		Universal tools
5	Open-end Spanner	8mm-10mm	pcs	1		Universal tools
6	Electric Drill	Portable 12V	pcs	1		Universal tools
7	Multimeter	VC890D	pcs	1		Universal tools
8	Quick-release Wrench		Set	1		Universal tools
9	Flathead Screwdriver	6mm-150mm	pcs	1		Universal tools
10	Crosshead Screwdriver	6mm-150mm	pcs	2		Universal tools
11	Hexagon Wrench	Plus 12mm and 14mm *2	Set	1		Universal tools

Required Tools for Installation

serial number	Item	Specs.	Unit	Qty.	Pic.	Remarks
12	Adjustable Spanner	595mm	pcs	1		Universal tools
13	Adjustable Spanner	450mm	pcs	1		Universal tools
14	Hammer Drill		pcs	1		Must-have for Installation
15	Hanging Hoist	Capacity over 3t	Set	1		Must-have for Installation
16	Level		pcs	1		Must-have for Installation
17	Hammer		pcs	1		Must-have for Installation
18	Crowbar	1m	pcs	2		Must-have for Installation
19	Tape Measure	7.5m	pcs	1		Must-have for Installation
20	Scaffolding	1.9m	Set	2		Must-have for Installation
21	Forklift	Capacity over 3t, Height over 4.5m	Unit	1		Must-have for Installation
<p>Note Requirements might change for different models. Please reach out to installation technicians for confirmation.</p>						

Installation Requirement

Vehicle:

- ①unload: Forklift truck (not less than 3 tons)
- ②install: Crane (not less than 3 tons),scaffold (2 sets)

Tools: 1 set of wrench, 1 set of hexagonal, electric wrench, electric drill, inflatable drill (fixed expansion screws)

Installation manpower: Four people



Step 2: Install the diagonal braces

Screw: M16*80mm



Step 3: Install the slewing support. Before installation, make sure the oil filling nozzle is facing downward and fix it with **M16*50mm** screws



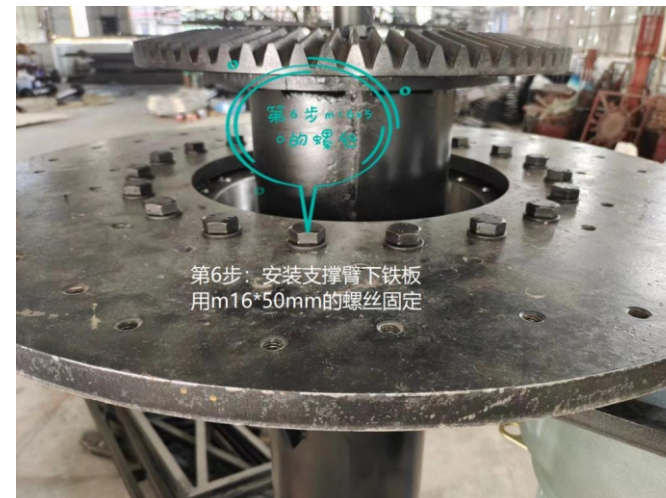
Step 4: Install the motor board and fix it with **M16*70mm** screws. Make sure the direction is the same as that of the outlet



Step 5: Install the motor and fix it with **M14*60mm** screws. Pay attention to adjusting the tightness of the gear fit properly



Step 6: Install the iron plate below the support arm and fix it with **M16*50mm** screws



Step 7: Install the large umbrella-shaped teeth and fix them with M16*35mm screws



Step 8: Install the conductive ring and fix it with M10*30mm screws



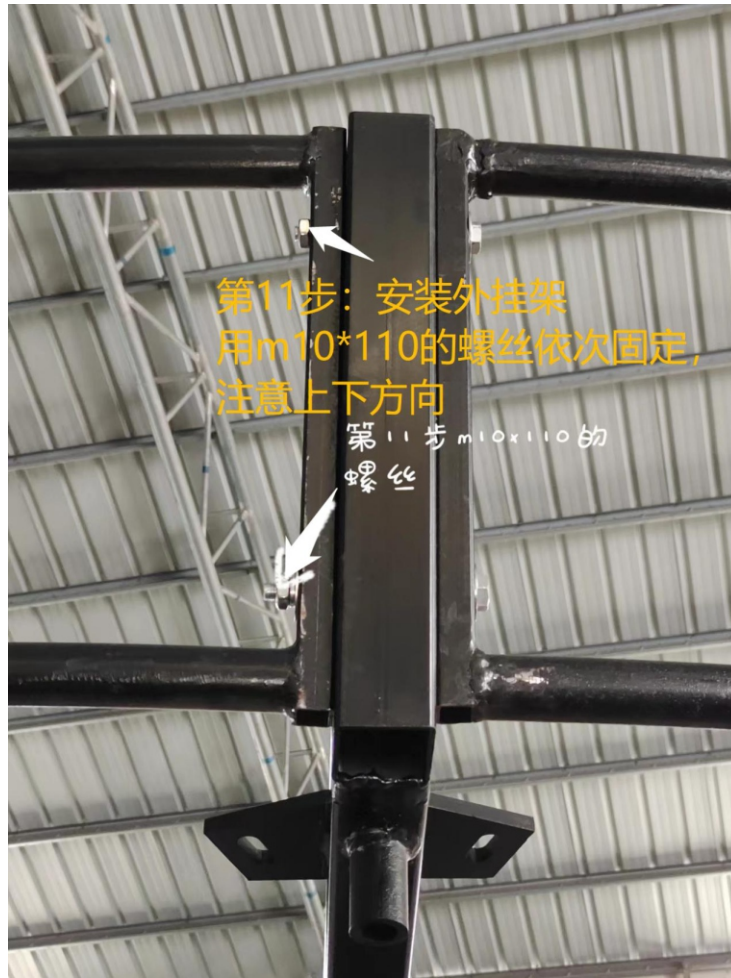
Step 9: Install the boom. First, fix the lower end of the boom diagonally with M12*35mm screws in sequence



Step 10: Install the fixed plates on the boom and fix them in sequence with M12*45mm screws



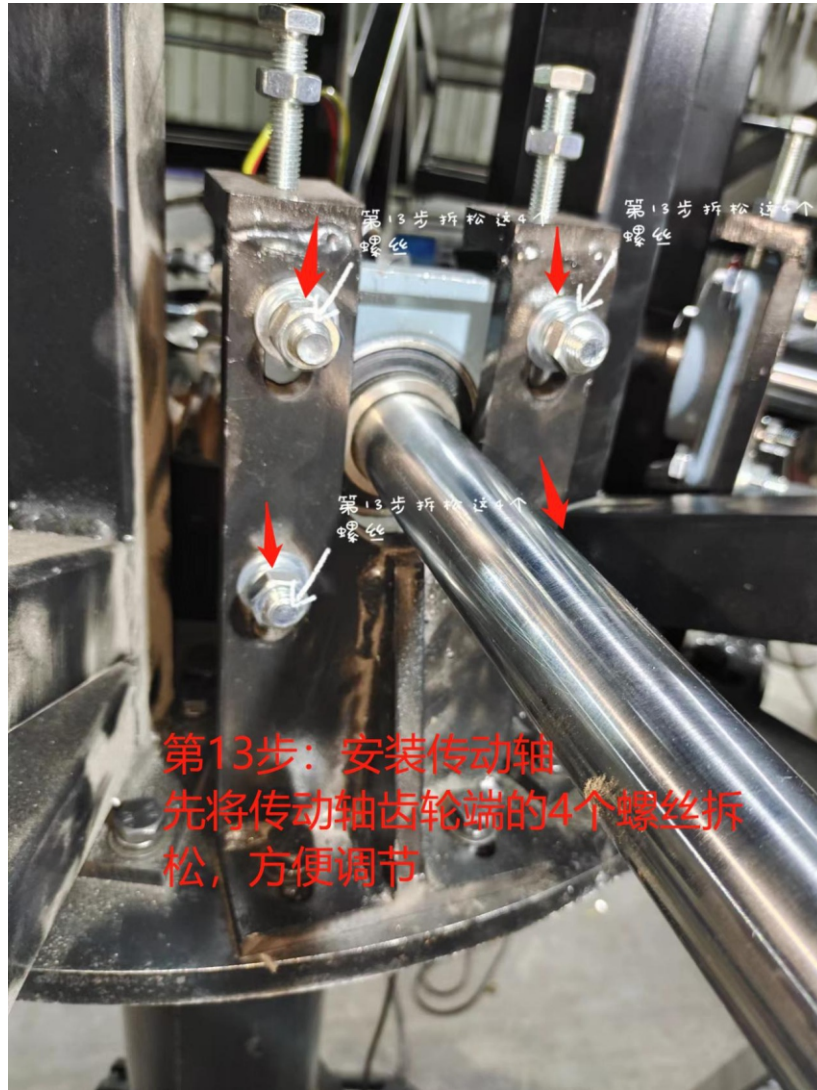
Step 11: Install the external hanging frame and fix it in sequence with **M10*110mm** screws, paying attention to the up and down direction



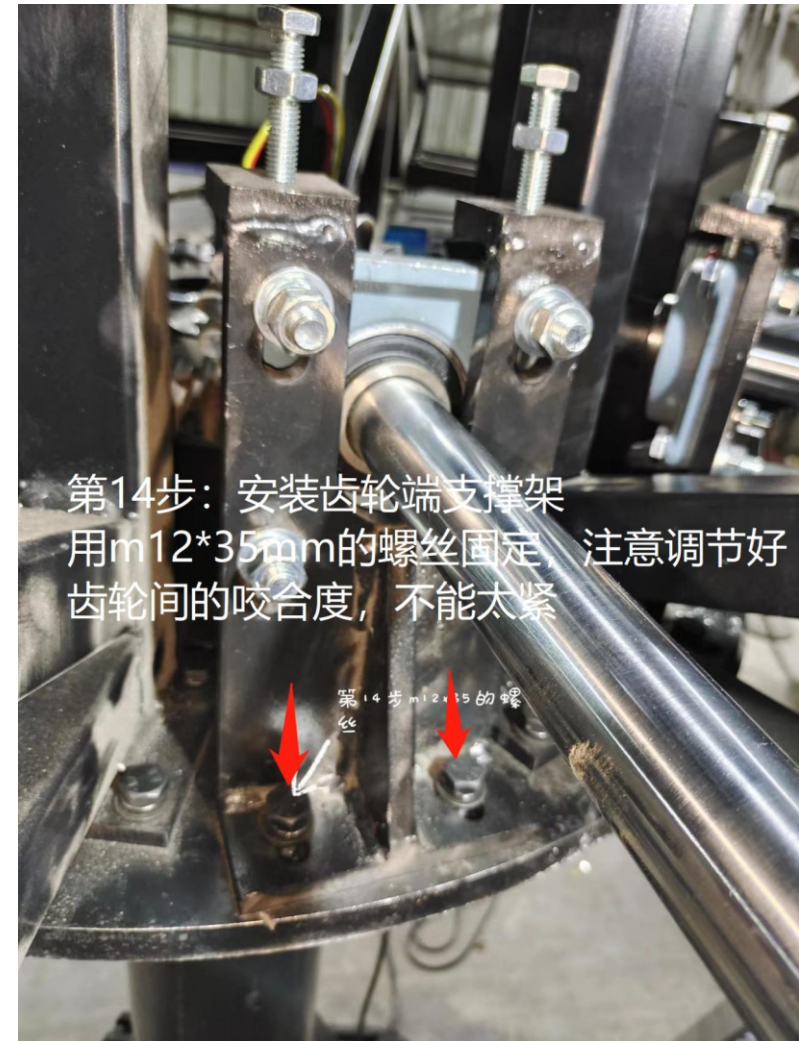
Step 12: Install the crossbeams. Fix the crossbeams of the three lengths in sequence with **M12*100mm** screws



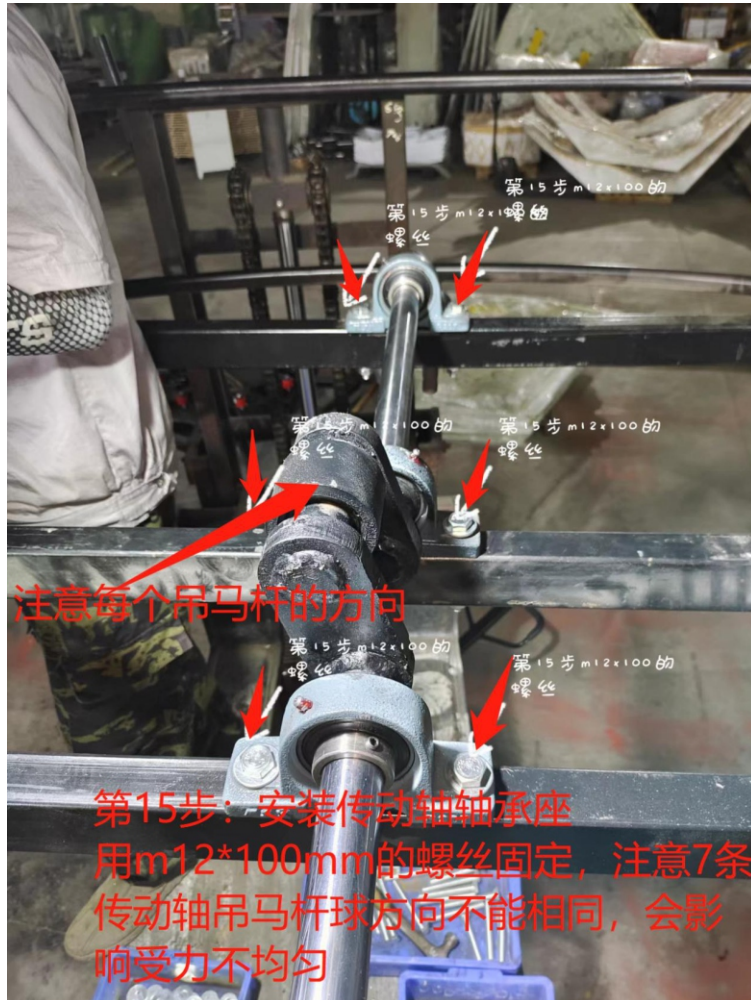
Step 13: Install the drive shaft. , loosen the four screws at the gear end of the drive shaft to facilitate adjustment



Step 14: Install the gear end support frame and fix it with M12*35mm screws. Pay attention to adjusting the meshing degree between the gears properly and do not make it too tight



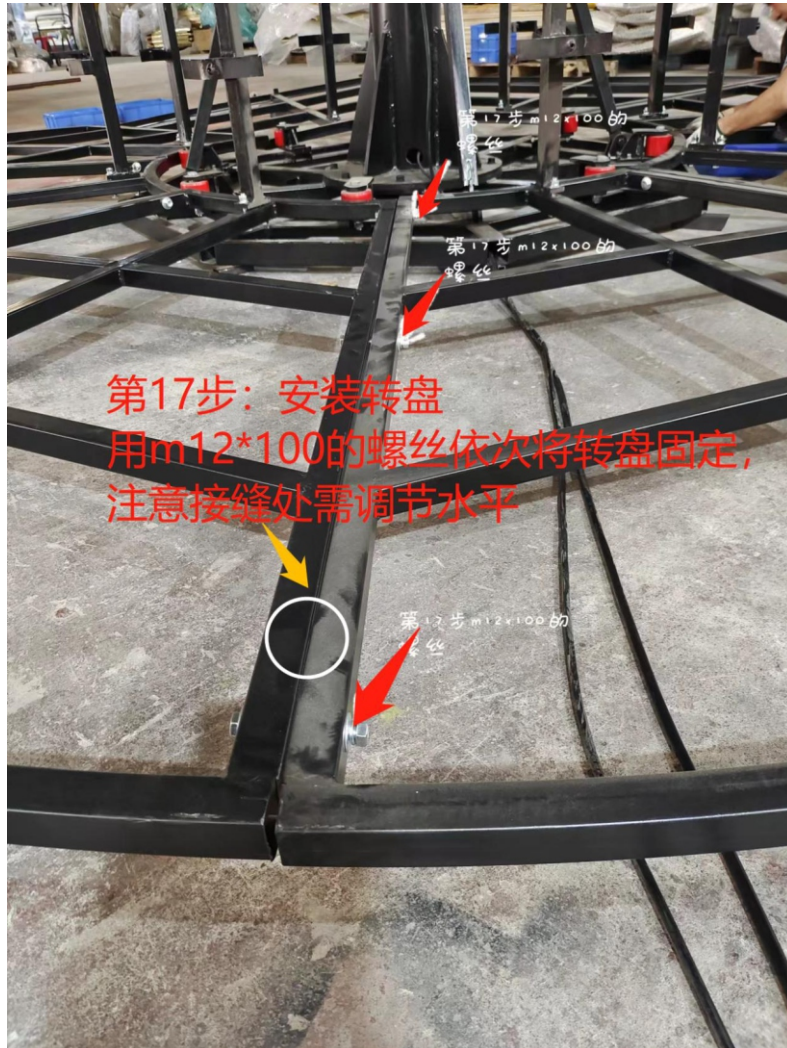
Step 15: Install the drive shaft bearing housing and fix it with M12*100mm screws. Note that the directions of each drive shaft hoist rod should not be the same, as this will affect uneven force distribution



Step 16: Install the inner hanging rods and fix both ends with M12*80mm screws up and down



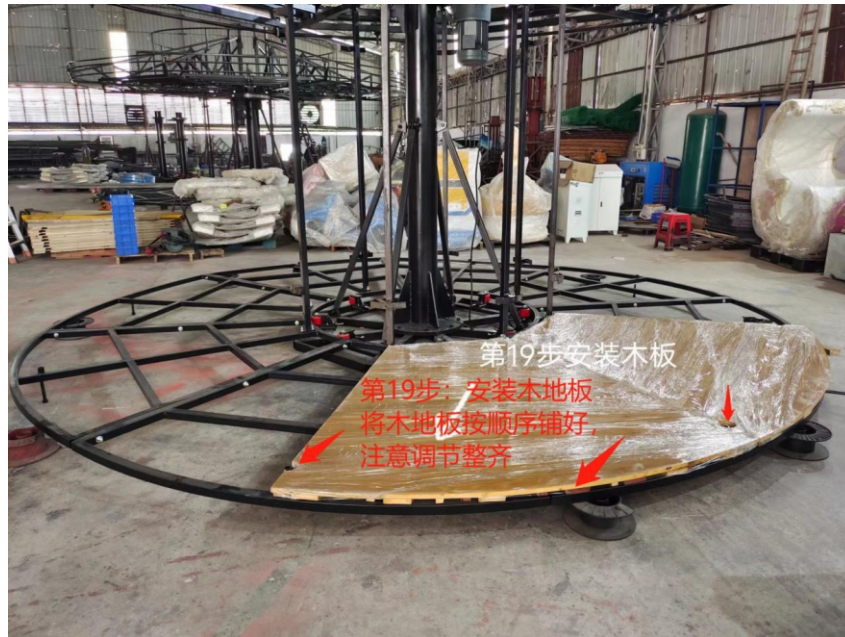
Step 17: Install the turntable. Use **M12*100mm** screws to fix the turntable in sequence. Note that the seams need to be adjusted to be level before fixing



Step 18: Install the outer fiberglass reinforced plastic (FRP) column. Before installation, first insert the upper screw **M16*130mm** and the lower screw **M16*120mm**, as shown in the figure



Step 19: Install the wooden boards. Lay them out in sequence and make sure to adjust them neatly



Step 20: Install the fiberglass reinforced plastic columns and fix the screws at both ends of the columns tightly. Make sure the larger end of the column faces the wooden floor



Step 21: Adjust the stabilizing wheel. It is best to keep the rubber wheel 5mm away from the circle of the turntable. If it is too tight, it may wear out the rubber wheel. Then, fix and lock it with the screws



Step 22: Fix the deer head lamp. Insert the wires and screws into the corresponding holes of the screen, and lock it with M6 nuts in the correct direction



Step 23: Install the screen. As shown in the picture, after adjusting the screen properly, drill holes at the corresponding fixed points with a drill bit, and then tighten it with **M8*80mm** screws



Step 24: Fix the screws in the middle of the screen. Use **M8*80mm** screws to attach the accessories as shown in the picture at the middle position of the screen, and clamp the intersection of the two screens tightly



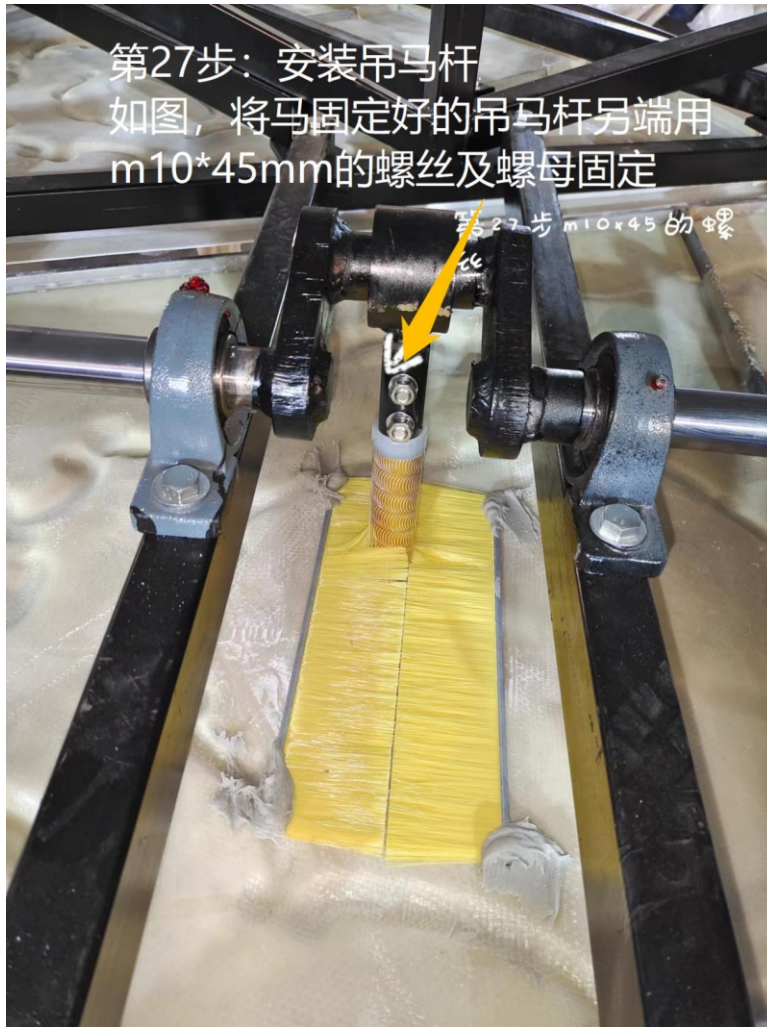
Step 25: Install the ceiling. Place the ceilings in sequence and fix them with self-tapping screws. Note that the ceiling where the carriage is placed does not have horse pole holes



Step 26: Install the hoist pole. As shown in the figure, lock the hoist pole and the horse with M10*55mm screws and nuts



Step 27: Install the hoist pole, as shown in the figure. Secure the other end of the hoist pole with M10*45mm screws and nuts



Step 28: Install the horse foot bucket, as shown in the figure. Fix the prepared horse foot bucket to the hoist pole below the horse's belly with M10*55mm screws and nuts



Step 29: Locate the position of the horse foot bucket as shown in the figure. Use a level to adjust the hanging horse pole to a vertical position, and then fix the horse foot bucket to the four holes on the wooden board. It is necessary to mark the numbers in advance for easy positioning



Step 30: Fix the position nuts of the horse foot bucket as shown in the figure. Use a drill bit of the corresponding size to drill holes in the wooden board at the positions marked in the front, and then lock in the wood tooth nuts



Step 31: Fix the horse foot cylinder. As shown in the figure, adjust the previously prepared horse foot cylinder to the corresponding hole position and fix it with **M8*40mm** screws



Step 32: Install the side hangers and other decorations. Finally, connect all the corresponding light wires coming out of the electrical cabinet. Then, pull up the canopy and install the fiberglass reinforced plastic on the top.

