

Airport Passenger Stairs

Brochure



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1) Product Introduction

The SKT-1 passenger boarding ladder is a new type of non-motorized passenger ladder developed by our company. It is beautiful in appearance, sturdy in structure and light in weight. The passenger platform is 2600~3200mm above the ground. The boarding ladder is suitable for: B737-200, B737-300, B737-500, B737-800, A320, A321, DC-8, TU-154 aircraft.

Because the SKT-1 passenger boarding ladder has no car disk and engine, it greatly reduces the user's operating cost and is economical and durable. When docked with the aircraft, it is slower to operate manually, safer and less polluting than the mobile passenger ladder, and it's environmentally friendly. The passenger elevator is light and light, easy to operate, flexible and stable. When approaching the aircraft at close range, it can be driven by one or two staff members, and the long distance can be towed by the baggage tractor. It is suitable for the operation of medium and small airports.

The SKT-1 passenger boarding ladder is equipped with hand-holding feet, and the front wheel is equipped with a brake device to ensure the stability and safety of the passenger ladder under large wind power.

2) The main technical parameters

1, The working height of the platform is 2600mm, which is suitable for series aircraft such as B737.

<i>Overall Length</i>		<i>mm</i>	<i>5940</i>
<i>Overall Width</i>		<i>mm</i>	<i>2370</i>
<i>Overall Height</i>		<i>mm</i>	<i>3700 (include handle)</i>
<i>Wheelbase</i>		<i>mm</i>	<i>4500</i>
<i>Front/rear track</i>		<i>mm</i>	<i>1500/400</i>
<i>Minimum ground clearance</i>		<i>mm</i>	<i>160</i>
<i>Minimum turning diameter</i>		<i>mm</i>	<i>11000</i>
<i>Front overhang</i>		<i>mm</i>	<i>560</i>
<i>Rear overhang</i>		<i>mm</i>	<i>867</i>
<i>Slope</i>		<i>(°)</i>	<i>34</i>
<i>Step Qty</i>		<i>PC</i>	<i>14</i>
<i>Step</i>	<i>Pedal width</i>	<i>mm</i>	<i>1200</i>
	<i>Riser height</i>	<i>mm</i>	<i>200</i>
	<i>Pedal length</i>	<i>mm</i>	<i>300</i>
<i>Platform</i>	<i>Platform width</i>	<i>mm</i>	<i>1700</i>
	<i>Platform length</i>	<i>mm</i>	<i>1800</i>
	<i>Handrail height</i>	<i>mm</i>	<i>1100</i>
<i>Weight</i>		<i>kg</i>	<i>1050</i>
<i>Platform limit number</i>			<i>7</i>
<i>Moving style</i>			<i>Push or drag</i>

2, The platform working height is 3200mm, suitable for A320 series aircraft

<i>Overall Length</i>		<i>mm</i>	6990
<i>Overall Width</i>		<i>mm</i>	2370
<i>Overall Height</i>		<i>mm</i>	3700 (include handrail)
<i>Wheelbase</i>		<i>mm</i>	4500
<i>Front/rear track</i>		<i>mm</i>	1500/400
<i>Minimum ground clearance</i>		<i>mm</i>	160
<i>Minimum turning diameter</i>		<i>mm</i>	11000
<i>Front overhang</i>		<i>mm</i>	560
<i>Rear overhang</i>		<i>mm</i>	867
<i>Slope</i>		(°)	34
<i>Step Qty</i>		<i>PC</i>	17
<i>Step</i>	<i>Pedal width</i>	<i>mm</i>	1200
	<i>Riser height</i>	<i>mm</i>	200
	<i>Pedal length</i>	<i>mm</i>	300
<i>Platform</i>	<i>Platform width</i>	<i>mm</i>	1700
	<i>Platform length</i>	<i>mm</i>	1800
	<i>Handrail height</i>	<i>mm</i>	1100
<i>Weight</i>		<i>kg</i>	1150
<i>Platform limit number</i>			7
<i>Moving style</i>			<i>Push or drag</i>

3) Structural characteristics and working principle

The SKT-1 passenger boarding ladder includes a mobile carrier, which is symmetrically mounted with telescopic legs and a ladder body. The lower end of the ladder body is fixed at the rear end of the mobile carrier body, and a rubber wheel is installed at the bottom of the carrier body.

SKT-1 passenger stairs can be divided into: chassis system, ladder system, lifting mechanism & platform system.

1, The chassis system

The chassis is made of a rectangular stainless steel tube welded with two wheels in front and rear, the front wheel is a fixed wheel and equipped with a brake device; the rear wheel is a guide wheel. The passenger car is an integral steering of the front axle, and a tow bar is installed on the front axle, and the towing bar is used to control the direction of the passenger car and tow the passenger car. There are two hand support feet on the front and back of the chassis.

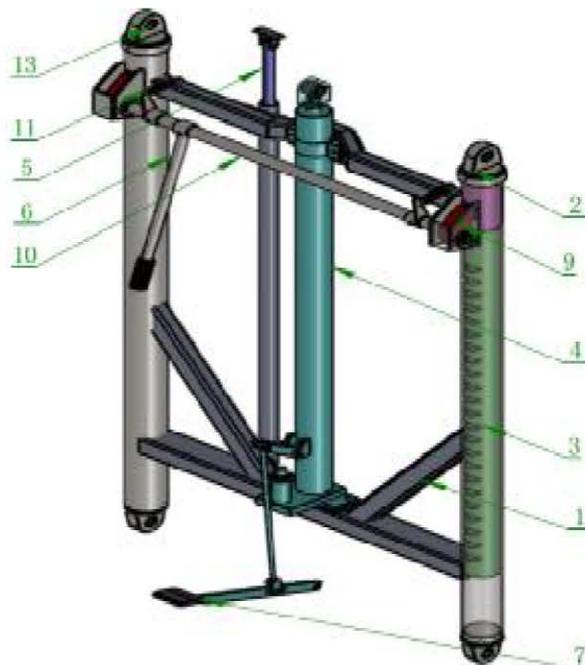
2, The ladder system

The ladder body consists of ladders, guards, handrails and steps. The ladder frame is welded by rectangular steel pipe, and the frame of the shield on both sides of the ladder body is welded by stainless steel rectangular pipe. The side guard plate skeleton and the ladder frame are welded integrally, and the aluminum

plastic plate is wrapped outside the skeleton to form a guard plate. The armrests are welded from stainless steel round tubes. The steps are made up of risers and pedals, and the pedals are made of a non-slip aluminum plate with a pattern.

3, Lifting mechanism

Lifting mechanism mainly by the mast, foot hydraulic cylinder, guide column rack, locking block, manual locking lever, locking tension spring and other components. Ladder platform lift foot; both sides of the guide column rack, guide sleeve, the middle of the lifting mechanism, assembled into a gantry form, the front of the hydraulic cylinder with platform height indicator. When the platform is raised, tighten the unloading valve first, use the pedal hydraulic cylinder pedal to make the platform rise, the locking block automatically beats, when the height is determined, unload the valve slightly, due to the tension spring, the locking block Automatically lock the guide column rack and the unloading valve can be closed; the platform first down when the unloading valve is closed, with the pedal hydraulic cylinder pedal so that the platform is properly raised, the lever handle push forward, the locking block After leaving the guide pin rack and then slowly release the unloading valve, the platform slowly decline. (Note: unloading valve can not be released too fast! Only slightly loose).



Lifting mechanism

4, The platform system

The platform is a whole of welded rectangular steel tube and ladder frame. There are movable doors on both sides of the platform, and the movable door can slide freely. A normally closed pin is mounted on each side of the ladder body, and a row of small holes are drilled in the movable door. The hole spacing is 100mm. When the movable door needs to slide, the bolt is pulled out and the movable door is moved to the desired position. , release the latch, the latch lever is automatically inserted into the lock hole, and the movable door is fixed.

4) The use of operations and precautions

1. The passenger stair is manually pushed in close proximity to

the aircraft.

2. Before the passenger stair is towed, the front and rear support legs must be rotated to the top dead center, and the stop pin should be inserted to prevent it from falling due to vibration during walking. The straightening speed of traction is not more than 10km/h, and the turning speed is not more than 3km/h.

3. After the passenger stair is in place, the front and rear support feet must be lowered first; then the wheel gear is lowered and the hand brake is pulled up.

4. To ensure safety, the passenger stair should be used at a wind speed of 75km/h or less.

5. When the passenger stair is not in use or overnight, it must support the front and rear to the ground, put down the wheel block, and pull up the handbrake to prevent the passenger car from slipping when the night wind is too large.

6. Before the passenger stair is docked, the movable door on the platform and the side of the aircraft door should be moved back to the maximum range. After docking with the aircraft, the staff moved the movable door to the door position to insert the bolt into the lock hole, and checked the locking of the movable door on both sides to ensure that the movable door was locked before the passenger could get on and off.

5) Maintenance

When the SKT-1 passenger boarding ladder is maintained during maintenance, the following work is generally done:

- 1. Check the wear of the front and rear casters. If the wear is serious or damaged, it must be replaced.*
- 2. Check whether the fixing screws of the front and rear support feet are loose and whether the support is effective.*
- 3. Check whether the support shafts and pins are detached and add grease.*
- 4. Check whether the movable door locking device on both sides of the platform is valid and whether the movable door slides normally.*
- 5. Check whether the platform railings and pedals are deformation.*