

POWERED STAIR CLIMBER



OPERATION MANUAL

EC DECLARATION OF CONFORMITY FOR MACHINERY

The company XSTO CO.,LTD. herewith declares that the products of the powered stair climbers are conform to the current regulations of the European Union, EC Guidelines 2006/42/EC. This declaration becomes void if the climbers have been altered without the consent of XSTO CO.,LTD.



Description of the machine: Powered Stair Climber Type:
Signature of the manufacturer: XSTO CO.,LTD.

CATALOG

1 Symbols and safety instructions.....	3
2 Description.....	5
2.1 The features.....	5
2.2 Technical data.....	9
2.3 Application fields.....	9
2.4 Technical parameters.....	9
2.5 Dimensions.....	15
2.6 Standard Supply Accessories.....	18
2.7 Optional Accessories.....	18
3 Initial Operation.....	19
3.1 Folding Toe Plate.....	20
3.2 Adjustable handrail.....	20
3.3 Battery Pack.....	21
3.4 Turning on the Stair Climber.....	21
3.5 Start Climbing Position.....	22
3.6 Check the Brake.....	22
3.7 Two-Speed Climbing Mode.....	23
3.8 UP/Down Mode Switch.....	23
3.9 Check Battery Capacity.....	24
4 Operation.....	25
4.1 Picking up Load.....	25
4.2 Operating on Flat Ground.....	26
4.3 Operating on a Slope.....	27
4.4 Climbing upstairs.....	28
4.5 Climbing downstairs.....	31
4.6 Pausing machine on stairs.....	34
4.7 Park.....	35
4.8 Loading a vehicle.....	35
4.9 Unloading a vehicle.....	36
4.10 Transport.....	37
4.11 Cargo loading method and carrier curve.....	38

5.Maintenance	40
5.1 Battery pack.....	40
5.2 Exchange the fuse.....	44
5.3 Check the brake pad and the climbing wheel.....	44
5.4 Folding maintenance (suit for GF&EF)	45
5.5 Recycling.....	46
6 Malfunction and troubleshooting	46
7 Warranty and Responsibility	47
7.1 Warranty.....	47
7.2 Responsibility.....	49
8 Accessories and method of use	50
8.1 Quick Charger.....	50
8.2 Auxiliary handrails.....	50
8.3 Extra Toe Plate.....	51
8.4 Water bucket tool.....	52
8.5 The Ground Support System.....	53
8.6 Cylinder device.....	54
8.7 Extension device.....	55
8.8 Gravity center adjusting device.....	56
8.9 Frame Extender.....	56
8.10 Widened guardrail.....	57
8.11 Telescopic folding widened guardrail.....	58
8.12 Extension device (stainless steel).....	59
8.13 Aluminium Alloy tool for widening guardrail.....	60

1 Symbols and safety instructions



WARNING__ Can lead to serious injuries and fatalities



CAUTION__ Can lead to light injuries



NOTICE__ Can lead to material or premises damage

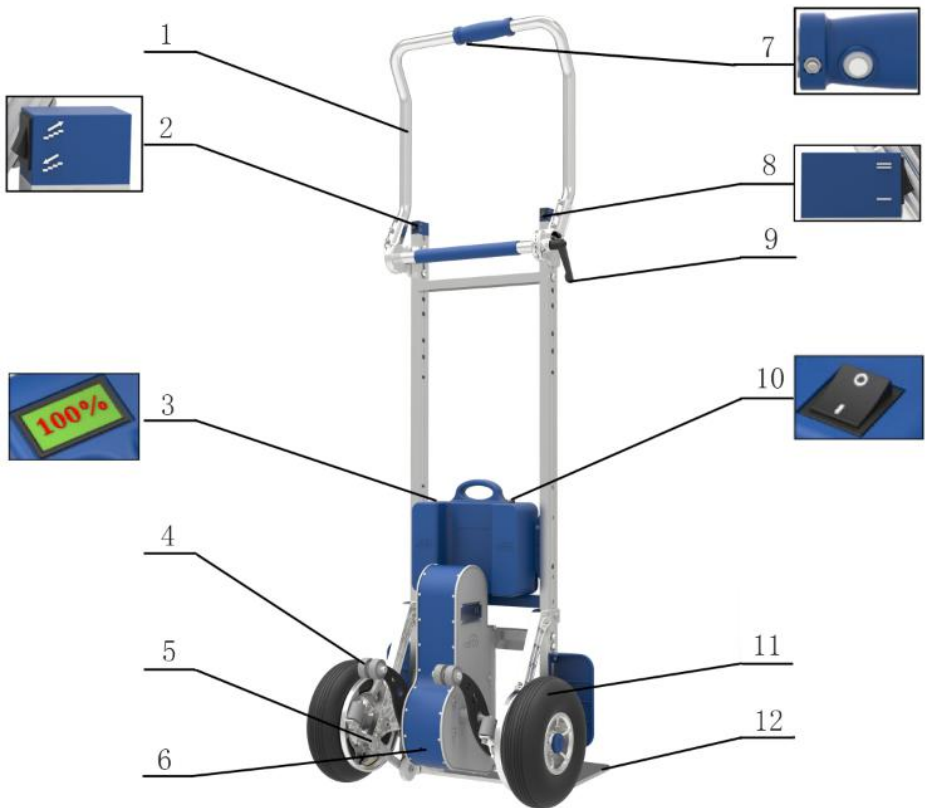
- Before initial operation, read the user manual and take note of the warning and safety instructions.
- Before initial operation, check the electronic functions, the safety brakes and the position of the climbing wheels
- Before initial operation, store the rated load at least one hour in a nonfreezing environment
- Take note of the technical data as the lifting capacity cannot be exceeded
- Stair climber operator should be trained. The person should be physically and experienced to handle it.
- When stair climber the machine is going up and down, other personnel shall not stand under the machine .
- Wear non-slip footwear and always operate with both hands. Practice operating without a load and at a low speed to start with.
- For transportation of cargo, not people. Ensure loads are secured with attached Safety strap.
- Never put your hand under the toe plate or touch rotating or moving parts.
- Do not use it in rain, wet condition, snow or ice.
- Do not use it if the wheels broken.
- Make sure there are no obstacles on the stairs and the steps are not slippery.

-
- Do not use it on escalators or moving belts.
- If the drive elements blocked, turn off the machine immediately.
- Turn off machine when transporting to different locations.
- Keep the plug-in elements dry. Protect the battery and charging cable by avoiding car oil, grease, aggressive cleaning agents and thinners. otherwise they will be damaged.
- Do not use a high-pressure cleaning. Store it in dry condition.
- Repairs may only be done by certified and experienced engineer
Keep it away from ignition source.
- It may interfere with other electronic devices' sensitive electro-magnetic fields (e.g. anti-theft systems in department stores).
- Only the accessories provided by XSTO are provided.

2 Description

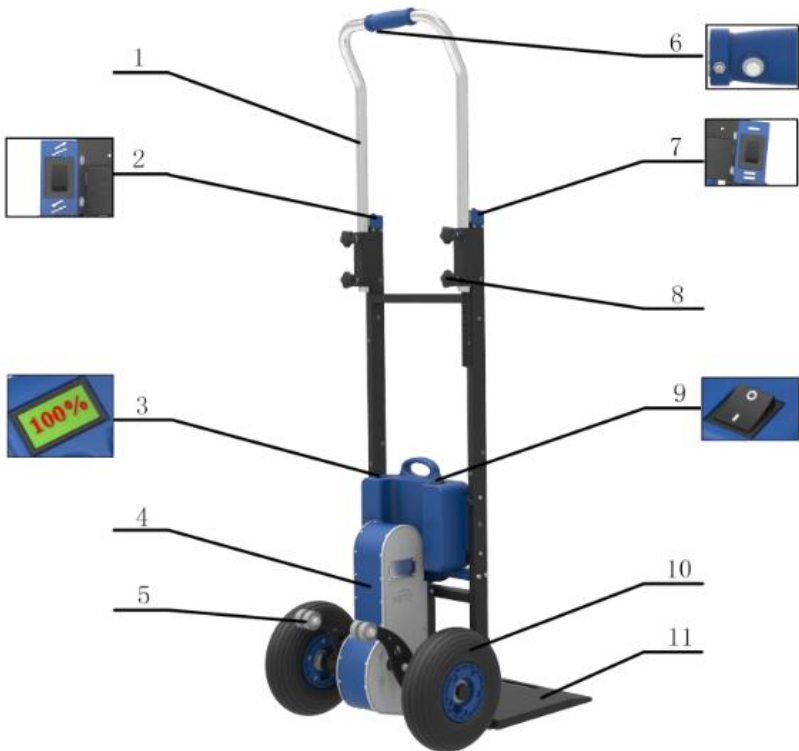
2.1 The features

2.1.1 E/G series



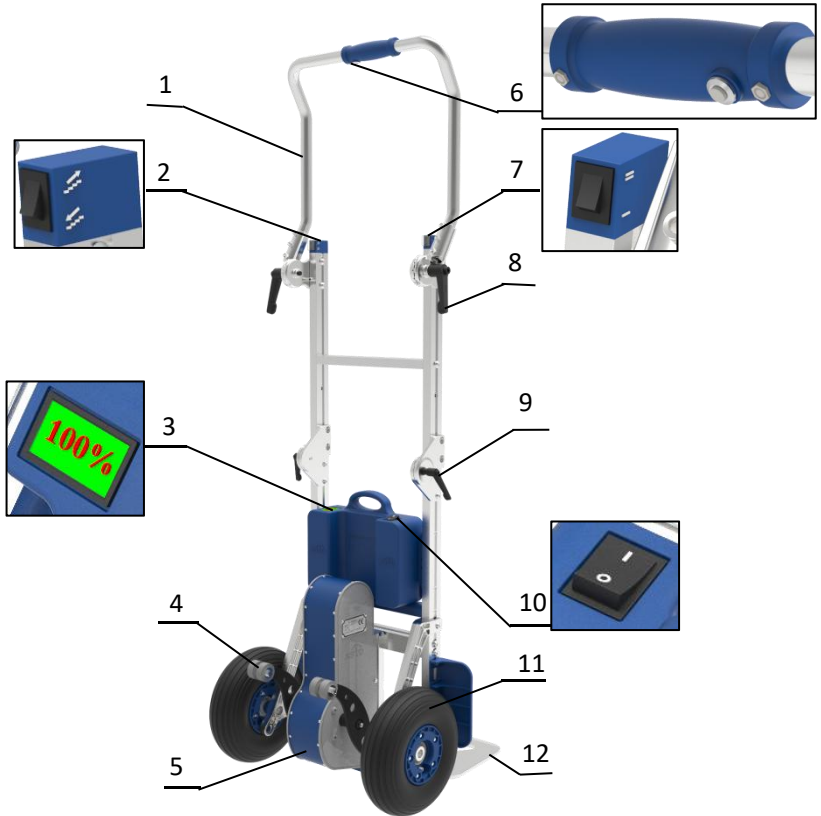
- 1.Fold-down handle 2.Up/down switch 3.Battery status 4.Climbing wheel 5.Brake bar (For some type) 6.Cover 7.Operating button 8.Speed switch 9.Clamp 10.ON/OFF switch 11.Main wheel 12.Toe plate

2.1.2 ZW4/D series



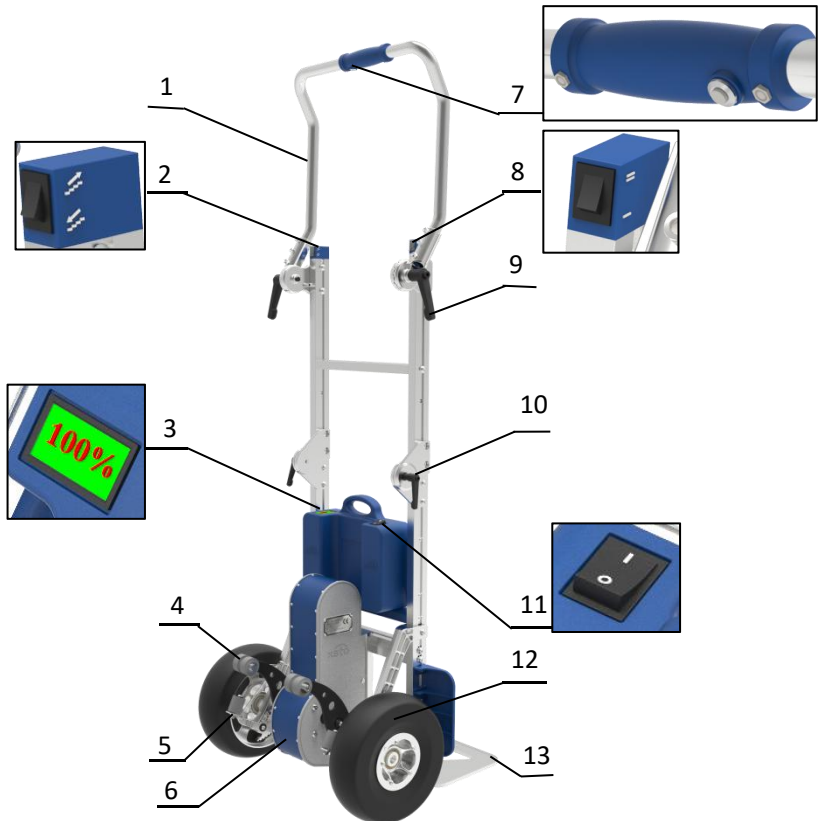
1. Fold-down handle 2. Up/down switch 3. Battery status 4. Cover
5. Climbing wheel 6. Operating button 7. Speed switch 8. Locking bolt
9. ON/OFF switch 10. Main wheel 11. Toe plate

2.1.3 ZWEF series



- 1.Fold-down handle
- 2.Up/down switch
- 3.Battery status
- 4.Climbing wheel
- 5.Cover
- 6.Operating button
- 7.Speed switch
- 8.Clamp
- 9.Folding mechanism
- 10.ON/OFF switch
- 11.Main wheel
- 12.Toe plate

2.1.4 ZWGF series



- 1.Fold-down handle 2.Up/down switch 3.Battery status 4.Climbing wheel 5.Brake bar (For some type) 6.Cover 7.Operating button 8.Speed switch 9.Clamp 10.Folding mechanism 11.ON/OFF switch 12.Main wheel 13.Toe plate

2.2 Technical data

This user manual is for E/G/D series.

2.3 Application fields

It's highly portable and very economic with the ability to carry loads up and down stairs. Requiring a single operator, this stair climber can transport heavy loads up and down stairs with minimum fuss, providing a huge saving on labor costs.

2.4 Technical parameters

2.4.1 ZW7170G\ZW7170GF\ZW7200G

Note: All the following products are recommended to be used below 1000m altitude, and the environmental humidity is required to be within the range of 45%-85% (no coagulated snow).

Type	ZW7170G	ZW7170GF	ZW7200G
Unfold size(mm)	Height: 1590 Width: 545 Depth: 540	Height: 1590 Width: 545 Depth: 540	Height: 1590 Width: 545 Depth: 540
Fold size (mm)	Height: 1195 Width: 545 Depth: 308	Height: 770 Width: 545 Depth: 308	Height: 1195 Width: 545 Depth: 308
Weight (Kg)	Main unit: 26 Charger: 0.3 Battery: 3.2	Main unit: 26.4 Charger: 0.3 Battery: 3.2	Main unit: 29 Charger: 0.3 Battery: 3.2
Capacity (Kg)	170	170	200
Climbing speed (steps/min)	Slow: 24 Fast: 34	Slow: 24 Fast: 34	Slow: 24 Fast: 34
Board type	A	A	A

Step count on one charge	68-153floors (1224-2448 steps)	68-153 floors (1224-2448 steps)	52-117 floors (936-1873 steps)
Fold Type	Handrail Fold	Frame Fold	Handrail Fold
Brake	Yes	Yes	Yes
Tyre size(inch)	10	10	10
Step height limitation(mm)	210	210	210
Required step width (Straight step)	Machine+Goods carried	Machine+Goods carried	Machine+Goods carried
	+100mm	+100mm	+100mm
Minimum Platform size (the turn of stairs)	Depends on the height of the user	Depends on the height of the user	Depends on the height of the user
Battery type	Lithium ion battery	Lithium ion battery	Lithium ion battery
Batteries	48V 10AH	48V 10AH	48V 10AH
Charging voltage(V)	110-230	110-230	110-230
Direct current motor	48V 400W	48V 400W	48V 400W
Noise level (1 m out from actuator)	<70dB	<70dB	<70dB
Storing/operating temperature of device	-5°C - +35°C / 0°C - +40°C (With no icing)	-5°C - +35°C / 0°C - +40°C (With no icing)	-5°C - +35°C / 0°C - +40°C (With no icing)
Storing/operating temperature of battery	-5°C - +35°C / 0°C - +40°C	-5°C - +35°C / 0°C - +40°C	-5°C - +35°C / 0°C - +40°C
Serial number	On body name plate	On body name plate	On body name plate

Protection Level	IP54	IP54	IP54
------------------	------	------	------

Note: The machine will have machining errors and assembly errors. The actual size will generally be within 5mm of the above table and the weight will be within 0.5kg

2.4.2 ZW7170E and ZW7170EF

Type	ZW7170E	ZW7170EF
Unfold size (mm)	Height: 1590 Width: 525 Depth: 540	Height: 1590 Width: 525 Depth: 540
Fold size (mm)	Height: 1195 Width: 525 Depth: 308	Height: 770 Width: 525 Depth: 308
Weight (Kg)	Main unit: 23.5 Charger: 0.3 Battery pack: 3.2	Main unit: 23.9 Charger: 0.3 Battery pack: 3.2
Capacity (Kg)	170	170
Climbing speed (steps/min)	Slow: 24 Fast: 34	Slow: 24 Fast: 34
Board type	A	A
UP/Down display	NO	NO
Step count on one charge	68-153floors (1224-2448 steps)	68-153floors (1224-2448 steps)
Fold Type	Handrail Fold	Frame Fold
Brake	no	no
Tyre size(inch)	10	10
Step height limitation(mm)	210	210

Required step width (Straight step)	Machine+Goods carried	Machine+Goods carried
	+100mm	+100mm
Minimum Platform size (the turn of stairs)	Depends on the height of the user	Depends on the height of the user
Battery type	Lithium ion battery	Lithium ion battery
Batteries	48V 10AH	48V 10AH
Charging voltage(V)	110-230	110-230
Direct current motor	48V 400W	48V 400W
Noise level (1 m out from actuator)	<70dB	<70dB
Storing/operating temperature of device	-5°C - +35°C / 0°C - +40°C (With no icing)	-5°C - +35°C / 0°C - +40°C (With no icing)
Storing/operating temperature of battery	-5°C - +35°C / 0°C - +40°C	-5°C - +35°C / 0°C - +40°C
Serial number	On body name plate	On body name plate
Protection Level	IP54	IP54

Note: The machine will have machining errors and assembly errors. The actual size will generally be within 5mm of the above table and the weight will be within 0.5kg.

2.4.3 D Series

Type	ZW4170D	ZW4200D
Unfold size (mm)	Height: 1555 Width: 530 Depth: 620	Height: 1555 Width: 530 Depth: 620
Fold size (mm)	Height: 1235 Width: 530 Depth: 320	Height: 1235 Width: 530 Depth: 320
Weight (Kg)	Main unit: 24.5 Charger: 0.3 Battery pack: 3.2	Main unit: 28.5 Charger: 0.3 Battery pack: 3.2
Capacity (Kg)	170	170
Climbing speed(steps/min)	Slow: 24; Fast: 34	Slow: 24; Fast: 34
Board type	A	A
UP/Down display	no	no
Step count on one charge	68-153floors (1224-2448 steps)	52-117floors (936-1873 steps)
Fold Type	Handrail Telescopic	Handrail Telescopic
Brake	no	no
Tyre size(inch)	10	10
Step height limitation(mm)	210	210
Required step width (Straight step)	Machine+Goods carried +100mm	Machine+Goods carried +100mm
Minimum Platform size (the turn of stairs)	Depends on the height of the user	Depends on the height of the user
Battery type	Lithium ion battery	Lithium ion battery
Batteries	48V 10AH	48V 10AH
Charging voltage(V)	110-230	110-230

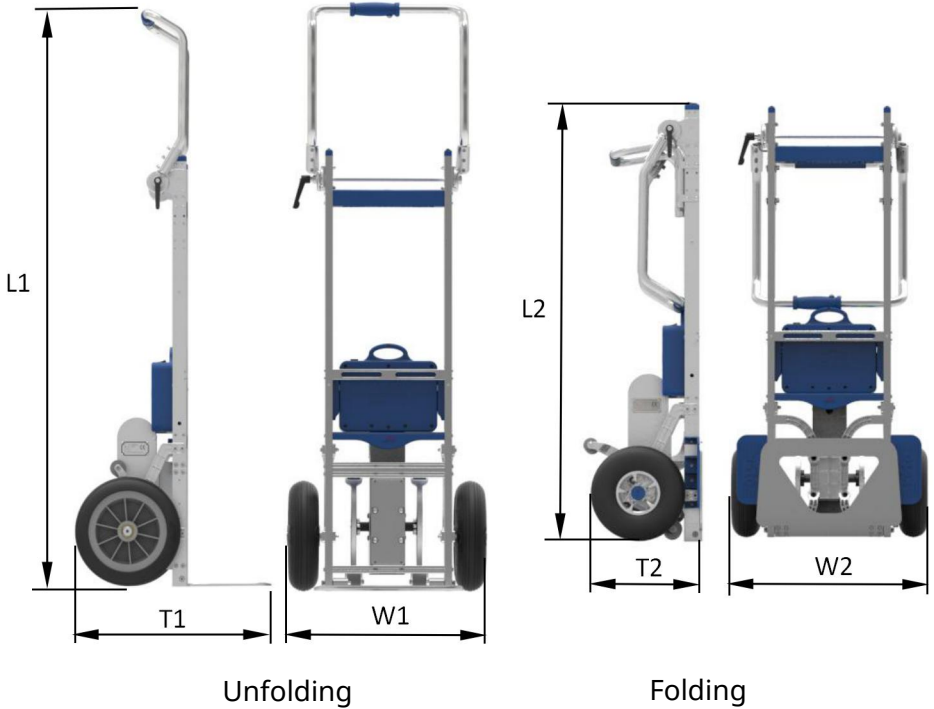
Direct current motor	48V 400W	48V 400W
Noise level (1 m out from actuator)	<70dB	<70dB
Storing/operating temperature of device	-5°C - +35°C / 0°C - +40°C (With no icing)	-5°C - +35°C / 0°C - +40°C (With no icing)
Storing/operating temperature of battery	-5°C - +35°C / 0°C - +40°C	-5°C - +35°C / 0°C - +40°C
Serial number	On body name plate	On body name plate
Protection Level	IP54	IP54

Notice:Step count on one charge will decline under slow speed.

Note: The machine will have machining errors and assembly errors. The actual size will generally be within 5mm of the above table and the weight will be within 0.5kg.

2.5 Dimensions

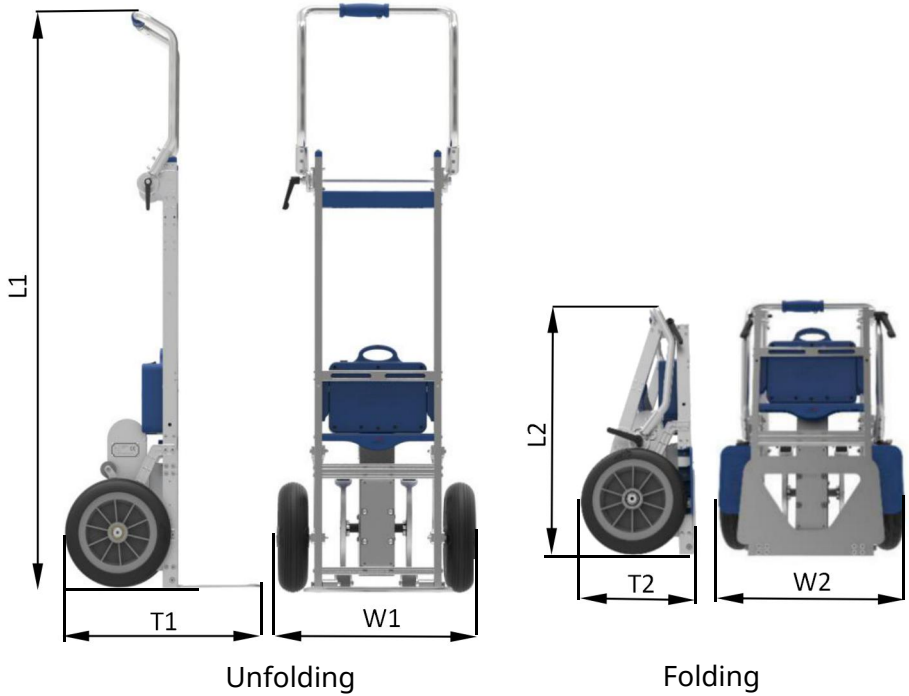
2.5.1 Handrail Fold series



Unit: mm

Type	L1	W1	T1	L2	W2	T2
ZW7170G	1590	545	540	1195	545	308
ZW7170E	1590	525	540	1195	525	308
ZW7200G	1590	545	540	1195	545	308

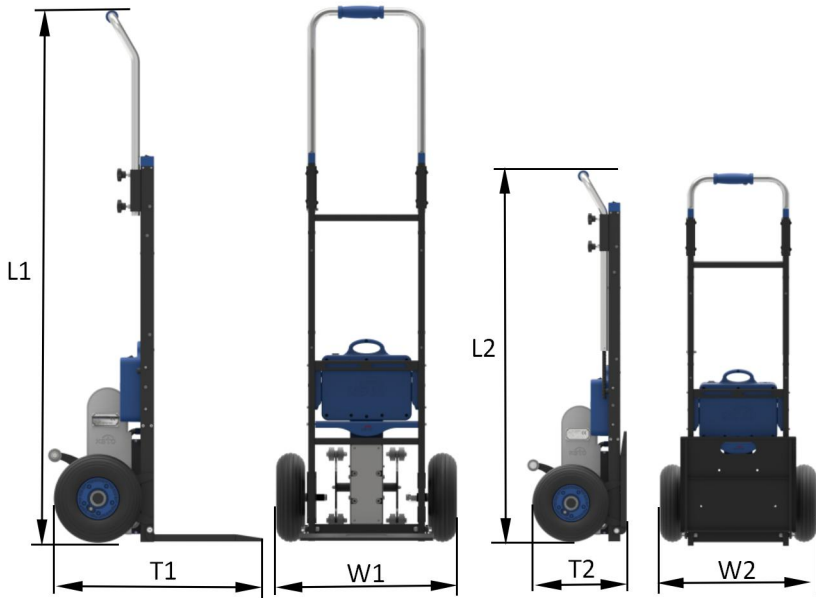
2.5.2 Frame fold series



Unit: mm

Type	L1	W1	T1	L2	W2	T2
ZW7170GF	1590	545	540	770	545	308
ZW7170EF	1590	525	540	770	525	308

2.5.3 D fold series






Unit: mm








Type	L1	W1	T1	L2	W2	T2
ZW4170D	1555	530	620	1235	530	320
ZW4200D	1555	530	620	1235	530	320

2.6 Standard Supply Accessories

			
① Main unit	② Safety strap	③ Battery Pack	④ Normal charger

2.7 Optional Accessories

			
① Main wheel	② Battery Pack	③ Speedy Charger	④ Door Delivery
			
⑤ Water-bucket Device	⑥ Ground Support system	⑦ Cylinder Device(single)	⑧ Frame Extender

		bottle, double bottles)	
			
⑨ Extension Device	⑩ Center of Gravity Adjustment Frame	⑪ End bar	⑫ Transfer device
			
⑬ Foldable Toe Plate	⑭ Storage Box Holder	⑮ Chair Delivery	

Note: Machines and accessories will be replaced gradually without further notice.

3 Initial Operation



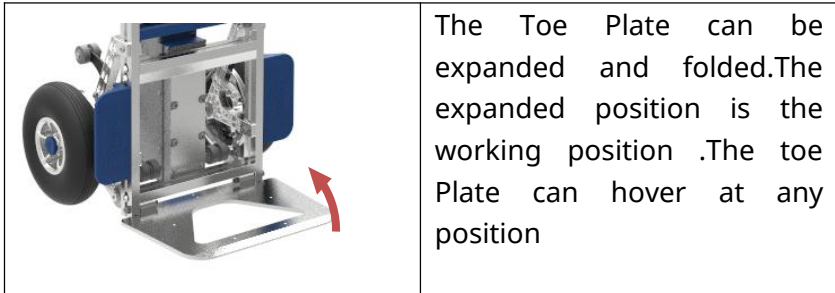
Note - Before initial operation, please ensure the machine is operated in an environment higher than 0 °C



Note - Motor 50% working time[Continuons Operating

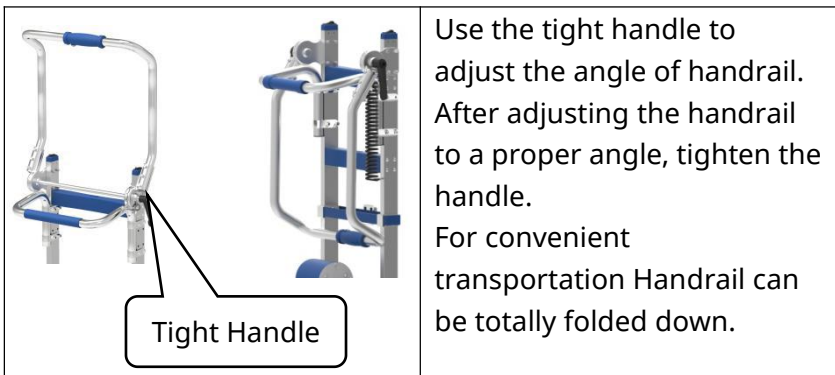
Hours/(Continuons Operating Hours+Continuous rest hours) \leq 50%],Rated load of 70% or above,the maximum continuous running time is less than 10 minutes.Rated load of less than 70% ,the maximum continuous running time is less than 30 minutes.

3.1 Folding Toe Plate

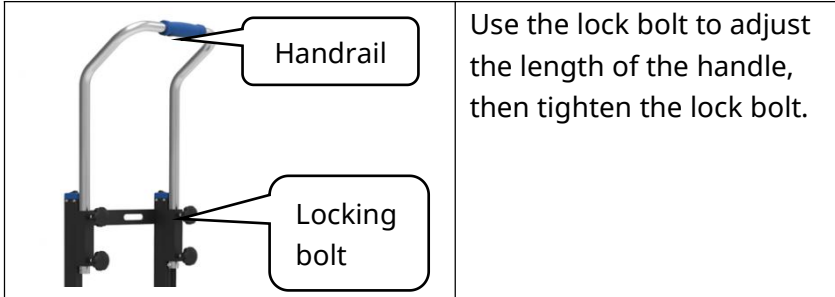


3.2 Adjustable handrail

3.2.1 ZW7/G/E



3.2.2 For ZW4/D



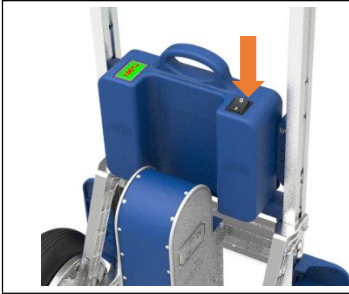
3.3 Battery Pack



Note - Keep the plug-in dry!

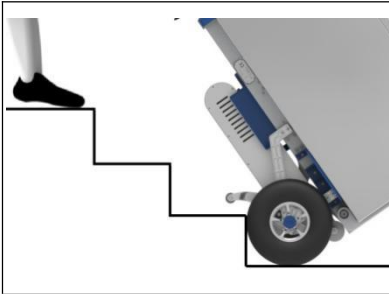


3.4 Turning on the Stair Climber



Turning on the stair climber. the state: "1" means turn on, and "0" means turn off. The screen on the battery box shows the battery level.

3.5 Start Climbing Position



Adjust the climbing arm, make sure that one side of the arm wheels do not touch the ground and the other side wheels are above the stair. as shown position in the picture.

3.6 Check the Brake

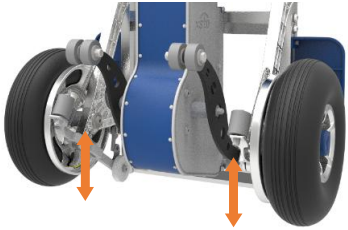
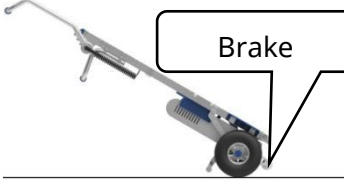
Note: Only apply to ZW7170G/ZW7170GF/ZW7200G.




WARNING - Do not use the machine, if the required brake effect (on one side or both sides) is not guaranteed! Contact manufacturer or authorized personnel !




WARNING - Check safety brakes without load !

	<p>It is safety protecting tools for the automatic braking of the climber from slipping down the stairs. Lift the brakes upward, brakes will start working; Press the brake downward, and the brake will close.</p>
	<p>Test method: the climber cannot be pushed forward, only backward.</p>





3.7 Two-Speed Climbing Mode

	<p>One bar means low climbing mode, two bars means high climbing mode.</p>
---	--

3.8 UP/Down Mode Switch

	<p>Switch up or down stair mode according to the sign.</p>
---	--

3.9 Check Battery Capacity

 	<p>1. When screen is displayed as 100% (part of the power is displayed as 8 grids), it is fully charged.</p>
	<p>2. When the power display is less than 20% (part of the power display is 3 grids), it means that the power is low. You should charge or replace the battery;</p>
	<p>3. When the power is displayed as 10% (part of the power is displayed as 1 grid) , the power can support the machine to continue to work 40-55 steps.</p>

4 Operation



Warning - Only trained people can operate this machine!

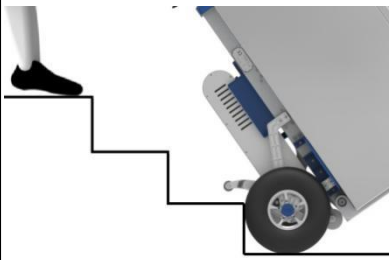



Warning - Practice driving without a load and with minimum speed!

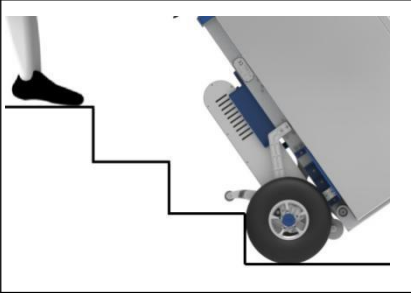
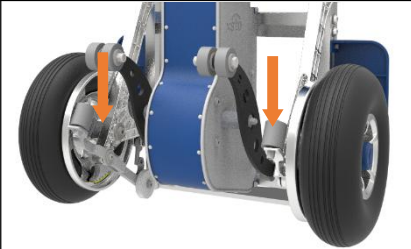

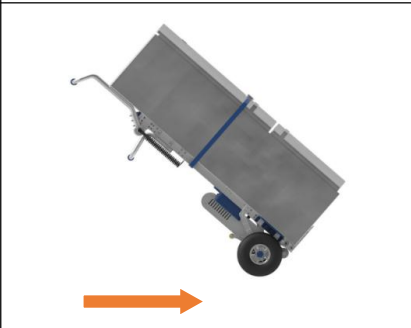


Warning - Always operate with both hands!




4.1 Picking up Load

	<p>1.Adjust the climbing arm, make sure that one side of the arm wheels do not touch the ground and the other side wheels are above the stair. as shown position in the picture.</p>
	<p>2.Insert toe plate under the cargo and Secure with safety strap.</p>

4.2 Operating on Flat Ground

	<p>1. Adjust the climbing arm, make sure that one side of the arm wheels do not touch the ground and the other side wheels are above the stair. as shown position in the picture.</p>
	<p>2. Turn off the safety brake.</p>
	<p>3. Tilt the stair climber and ensure it is balanced.</p>
	<p>4. Use the machine like a trolley.</p>
<p>Note: Turn off the power switch during transportation on flat ground.</p>	

4.3 Operating on a Slope

	<p>1. Adjust climbing wheels/arms to avoid the climber running on flat ground as shown position in the picture. Tilt the stair climber and ensure it is balanced.</p>
	<p>2. Driving downhill, the operator should stand above the climber. for heavy cargo or dealing with steep scope, people often need to meet to complete operation.</p>
	<p>3. Driving uphill, the operator should stand above the climber. for heavy cargo or dealing with steep scope, people often need to meet to complete operation.</p>
<p>Note: During scope operation, turn off the power switch, to avoid misoperation.</p>	

4.4 Climbing upstairs




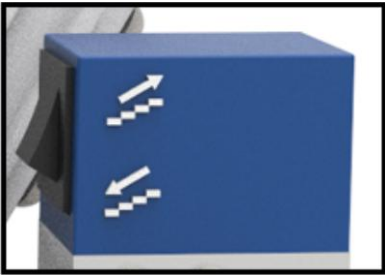
Warning-When climbing upstairs, the operator will feel an initial force. Adjust the angle of the machine keeping the balance of gravity to counteract the force.



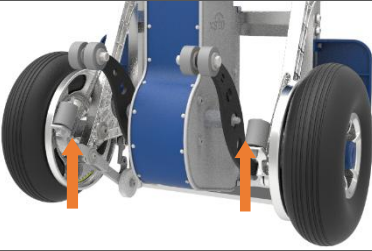




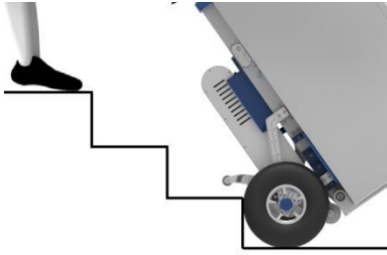
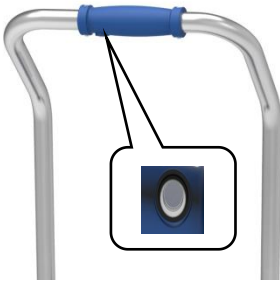


Warning-Always keep the machine balanced.



Warning - Do not allow people to stand below the machine during operation! Prevent the machine from tipping over due to improper operation and cause danger to the operator.

	1. Turn on the switch.
	2. Set the "Up/down switch" to up mode.

	<p>3. Tilt the machine to Proper angle.</p> <p> Warning-Adjust the climbing arm to avoid the motor shell colliding with the step.</p>
	<p>4. Turn off the safety brake. (only for the mode of ZW7170G/ZW7170GF/ZW7200GF)</p>
	<p>5. Pull the Stair Climber backwards, secure the main tires are always close to the step facade.</p>
	<p>6. The operator hold the handrail standing 2 or 3 stairs up the machine.</p>

	<p>7. Adjust the climbing arm, secure that one side of the arm wheels do not touch the ground and the other side wheels are above the stair. as shown position in the picture.</p>
	<p>8. Adjust the operating angle of the machine and hold the operating switch button to climbing upstairs. The switch is a normally open button, so climber will stop working the moment releasing the button.</p>
	<p>9. The climbing arms lift the machine and climbing one stair. throughout the entire process, it's no need to pull the climber. Just keep balance and resist the lifting reaction.</p>
	<p>10. Pull the stair climber to next step, then repeat the climbing action. Operator should hold the climber handrails during this process.</p>

4.5 Climbing downstairs





Warning-when climbing stairs, the operator will feel an initial force. Adjust the angle of the stair climber to keep the balance of gravity to counteract the force



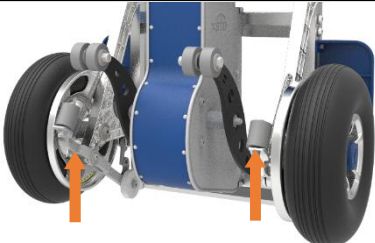



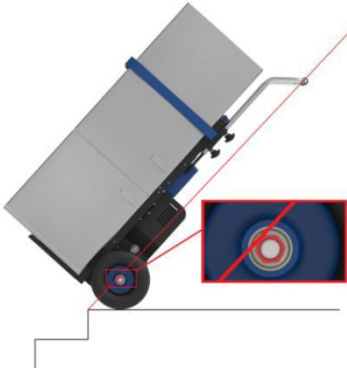
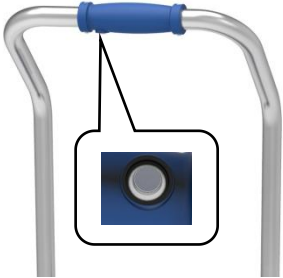
Warning- Always keep the machine balanced



Warning- Do not allow people to obstruct the machine

	<p>1. Turn on the switch. The left side of the battery box shows the remaining charge</p>
	<p>2. Set the "Up/down switch" to Down mode.</p>

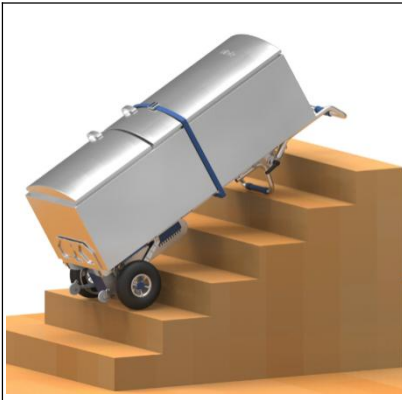
	<p>3. Tilt the machine to Proper angle.</p> <p> Warning- Do not tilt too low to avoid the cover hitting the steps</p>
	<p>4. Turn on the brake tools. (only for the mode of ZW7170G/ZW7170GF/ZW7200G)</p>
	<p>5.1. (Only apply to ZW7170G/ZW7170GF) Push the machine forward until the brakes locks the stair climber on step edge.</p>

 <p>The diagram shows a grey stair climber on a white step. A red line indicates the alignment between the wheel axis and the step's edge. A red-bordered inset shows a close-up of the wheel with a red line passing through its center, illustrating the required alignment.</p>	<p>5.2. (only apply to ZW7170E/ZW7170EF/ZW4170D)</p> <p>(1) Operation for the first step is as follows: push the handrails making the machine moving slowly, until the end of the wheel axis and the stairs edge are in a straight line, as shown in the picture.</p> <p>(2) Operation for the first step is as follows: Pull the Stair Climber backwards, make sure the main trays are always close to the step facade.</p>
 <p>The image shows a close-up of the handrail assembly. A blue grip is attached to a silver metal frame. A white callout box with a black border points to a blue square button with a white circular center, which is the operating switch.</p>	<p>6. Adjust the operating angle of the machine and hold the operating switch button to climbing downstairs.</p>



7. Repeat the climbing action. Operator should hold the climber handrails during this process.

4.6 Pausing machine on stairs

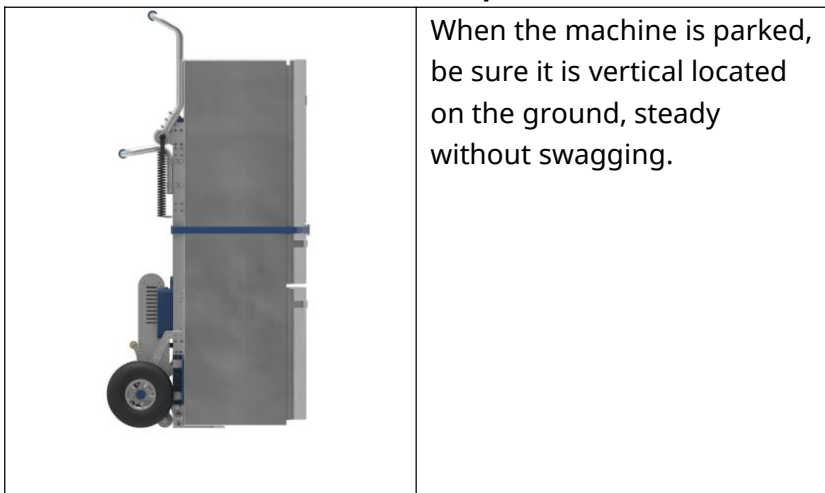


The stair climber can be layed on the stairs. Its safety brakes and handrails prevent it from sliding down the stairs.

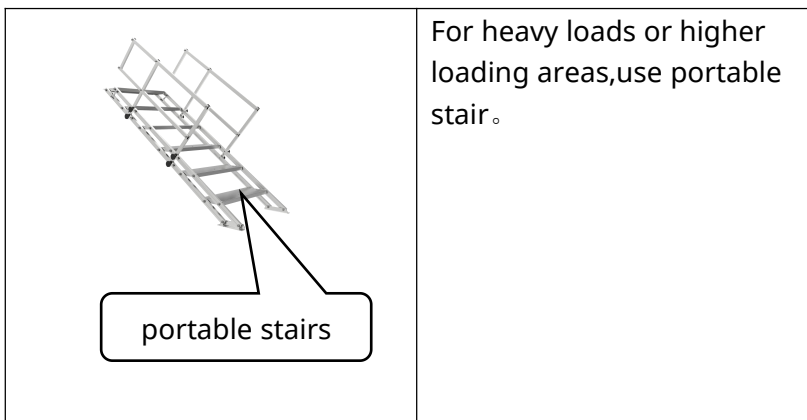
4.7 Park

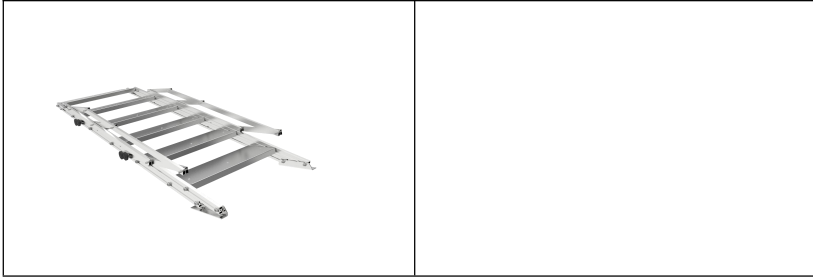


Caution -Be sure to turn off the power after each use.


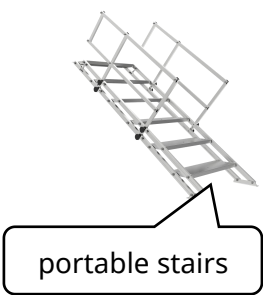


4.8 Loading a vehicle





4.9 Unloading a vehicle

  <p>portable stairs</p>	<p>For heavy loads or higher loading areas, use portable stair.</p>
--	---

4.10 Transport



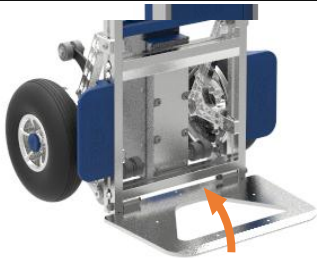

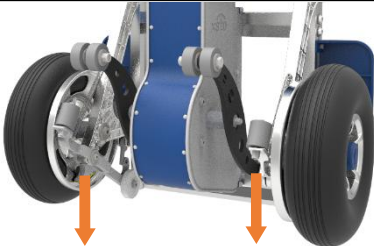
Warning-Please note the weight specifications



Warning- During transportation in vehicles, secure the climber according to the relevant legal regulations!.



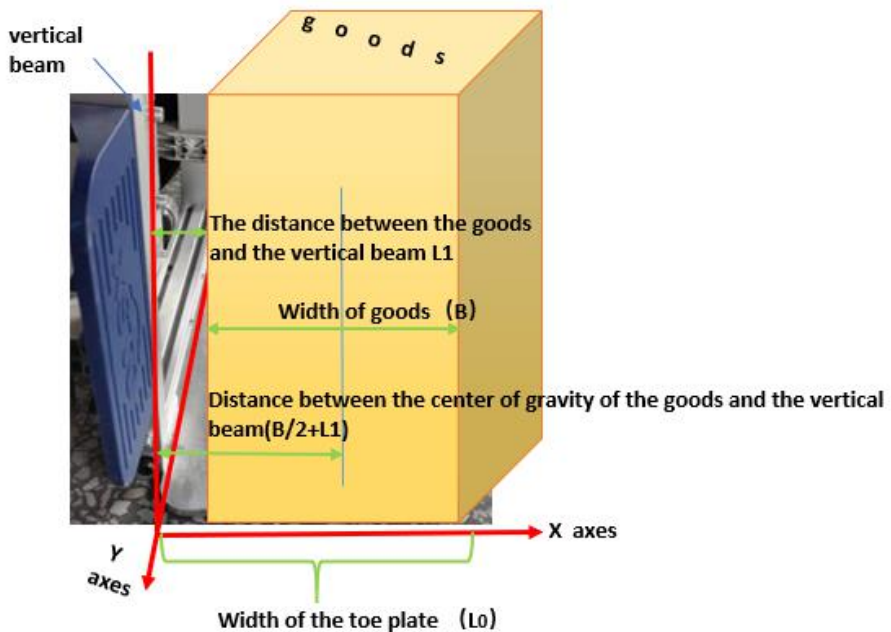
Be careful-Turn off the machine on transportation

	1. Fold up the toe-plate
	2. Fold up the adjustable handrails
	3. Press the brake arm down to close the brake function. This will avoid damage during transportation. (only for ZW7170G/ZW7170GF)

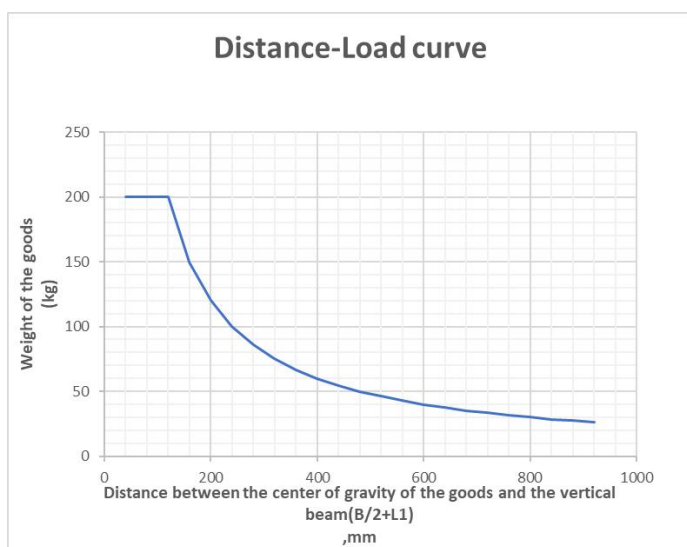
4.11 Cargo loading method and carrier curve

When the goods are putting on the toe plate, Adjust the position(Y axes) of the goods to keep balance. Keep the goods as close to the vertical beam as possible. Tie the goods to the vertical beam with a strap. Make sure the center of gravity of the goods is within the width of the toe plate(X axes). the shape difference of the goods results in a change in the horizontal distance between the center of gravity for cargo and the vertical beam($B/2+L1$), The weight of the goods should be adjusted to avoid machine damage and safety hazards caused by improper loading.

The relationship between the distance from the center of gravity for cargo to the vertical beam($B/2+L1$) and the weight of the goods refer to the chart below.



L0 (mm)	L1 (mm)	$\leq B$ (Recommended width of goods,mm)	Notes
240	0	480	Standard toe plate
240	60	360	Standard toe plate+Cylinder Device
280	0	560	Foldable Toe Plate
340	0	680	
Other custom size			



Due to the difference of cargo weight, the speed of the machine is different. For the relationship between cargo weight and climbing speed, refer to the chart below.



5.Maintenance

5.1 Battery pack



CAUTION - Never touch with moist hands!



Notice- Protect the climber against humidity!



Notice- Charge the battery pack after each use!.



Notice - protect the charger and the charging cable from oil, grease, aggressive cleaning agents, thinners or damage.



Notice-follow the operating instructions of the charger.



Notice-Always keep plug in contacts dry



Notice-new battery reach its full capacity after several charging.

	1. Turn off the main switch.
	2. pull out the battery pack
	3. Connect the charger
	4. Please follow instructions when charging.



Battery instructions and precautions

(1) Storage

When the battery pack to be long-term stored, charge the battery pack to about 50% capacity, store in dry and ventilated place, charge for every 3 months.

The battery pack and charger should be stored in clean, dry and ventilated place, avoid contacting with corrosive materials and be away from fire and heat.

The charging temperature range is 0-40°C. If the range is exceeded, the battery performance will be reduced and the battery life will be reduced.

(2) Transportation

The battery pack and charger should be packaged for transport, prevent excessive vibration, shock or extrusion in transport process and prevent the sun and rain.

(3) Maintenance

a) The battery pack should be stored in 40% ~ 60% charged capacity.

b) If battery pack is not used for a long period, it should be charging completely and discharging completely one time for every three month, then charge the battery pack to about 50% capacity, use the specific charger,.

c) In the maintenance process, please do not disassemble the battery pack, otherwise battery performance will decline.

d) Forbid to remove any cell in the battery pack. Unauthorized disassembling of batteries is prohibited, and may invalidate your warranty.

e) Problem handling

Symptom	Trouble Reason	Troubleshooting
Battery with no-output	Battery output cable is not connected. Battery pack is out of power	Connect the output line properly in accordance with the specifications. Charging the battery pack
Charger power light	Input charger plug is	Enter the charger

is off	not properly inserted	plug into the mains supply plug according to the operation manual
Battery pack can not be charged	Charger output plug loose; Battery pack is fully charged	Check the charger output plug and battery plug is firm or not; Battery pack can be used normally

f) Warranty period

Warranty period of this product is 12 months from delivery date. Cycles: 500 times, capacity $\geq 80\%$.

(4) Battery Handling Precautions

- *Forbid to immerse battery in water or get wet!
- *Don't charge, use and store battery near a heat source such as fire and heater! If the battery leaks or releases strange odor, please remove it from near fire place immediately. Fully charge the battery before first-time using.
- *Forbid to reverse the positive and negative pole!
- *Forbid to throw the battery pack into fire or heat it!
- *Forbid to short-circuit battery with wire or other metal objects!
- *Forbid to nail, knock or trample battery!
- *Forbid to disassemble the battery and battery pack in any way!
- *Forbid to put the battery into microwave oven or pressure vessel!
- *Forbid to use batteries on other devices!
- *Forbid charging in outdoor or rainy days!
- *Prohibit the use of series and parallel battery!
- *If the battery pack gives off odor, gets heat, deformation, discoloration or appears any abnormal phenomenon, stop using it; please remove the battery from electrical appliances and stop using it, when the battery is being used or charged!
- *Forbid to use battery pack in a very hot environment, such as under

direct sunlight or in car on hot day. Otherwise, the battery pack will overheat, which will affect battery performance and shorten battery life!

*Do not over charged. Unplug the charger as soon as possible after the charger indicates full charge.

*If the battery teaks and electrolyte leakage enters into the eyes, do not rub, rinse with water immediately and seek immediate medical assistance. If not in time, eyes will be hurt!

*Forbid to disassemble by yourself.

5.2 Exchange the fuse



CAUTION - Before exchanging the fuses, disconnect the charger /charging cable for the car!



NOTE - Never mend or bridge defect fuses!



NOTE - Replace them with fuses of the same amperage!



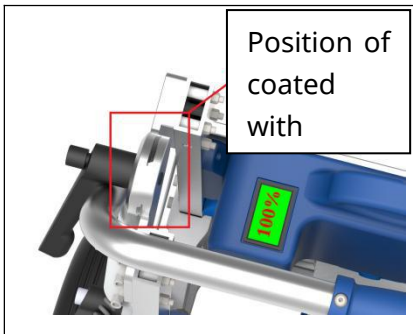
5.3 Check the brake pad and the climbing wheel



Notice - Check the wear of the climbing casters regularly. If they are damaged or worn seriously, please contact the authorized professional or manufacturer.

	<p>1. Check climbing wheels regularly and pay attention to wear limit.</p>
 <p>brake gasket</p>	<p>2. The minimum thickness of the brake gasket is 2 mm. If the brake pad is thinner than 2mm or damaged, contact the authorized professional or manufacturer.(only apply to ZW7170G / ZW7170GF / ZW7290G)</p>

5.4 Folding maintenance (suit for GF&EF)

 <p>Position of coated with</p>	<p>For Folding type(GF&EF), the folding position should be regularly greased with butter to ensure folding smooth, and the maintenance period is 6 months.</p>
--	--

5.5 Recycling

The powered stair climber is product of long durability. However,if your machine is old and has reached the end of its lifespan you may return its components to SXTO to be recycled.



6 Malfunction and troubleshooting

problem	check and potential solution
The climber machine can't start or can't go up or down stairs	Check the battery pack. If it shows low power (<20%), please charge. If the above situation is turned out. Please contact the supplier.
The battery can't be recharged	Please contact the supplier.
Failure of high and low speed switching control	Check whether the power is connected. then remove and check the speed switch. If the switch connection is working. the speed switch is mostly

	broken. replace it. If the problem remains, please contact your supplier.
Only upstairs, can not downstairs	Check whether the power is connected. then remove and check the up/down stair switch. If the switch connection is working. the switch is mostly broken. replace it. If the problem remains, please contact your supplier.

7 Warranty and Responsibility






7.1 Warranty

The warranty of the motor, decelerator, battery and control panel as well as main device is 12 months;The warranty of the switch is 3 months.

Damage caused by the following reasons is not covered by the warranty:

- Damage caused by overwork.
- Damage caused by incorrect operation.
- Damage caused by violence.
- Natural wear of casters, seat belts, etc.
- Inappropriate or inadequate maintenance.
- Unauthorized structural changes and improper use of equipment and accessories.
- Damage caused by overload.
- Battery is not charged appropriately.
- Damage caused by incorrect operation, maintenance or storage.
- Damage caused by dismantling by others(except the warranty party).
- The following table vulnerable parts are not covered by the

warranty.

Name	Figure	Code
Pneumatic outer tires		C-1-00497
Pneumatic inner tires		C-1-00496
Speed switch base and Speed switch		B-00013(7170); B-00015(4170)
Up/down switch base and Up/down switch		B-00010(7170); B-00014(4170)
Operating button		B-1-00030

Beyond the scope of maintenance and beyond the warranty period of the product, we still provide perfect service, only charge the cost of spare parts.

7.2 Responsibility

The manufacturer is not responsible for any damage to the POWERED STAIR CLIMBER caused by the following cases.


Inappropriate operation

- Inappropriate operation.
- Repair or dismantle the equipment without authorization.
- Do not follow the operating manual.
- Install parts or accessories that are not exclusive for POWERED STAIR CLIMBER use.
- Deliberately dismantle the configuration of Machine.
- Overwork.
- Operate under low battery.


8 Accessories and method of use

Note:If the contents of this specification is changed because improving product quality or upgrading technical parameters, we will not give notice . For the latest product information, please contact the supplier



8.1 Quick Charger

	<p>It can shorten time in half by using a quick charger. The details is shown on the quick charger manual.</p>
---	--



8.2 Auxiliary handrails

	<p>The auxiliary handrails is bolt connected under the main handrails, as shown in the left picture. It is helpful when pushing the machine on the ground or operating at the corridor corner.</p>
--	--

8.3 Extra Toe Plate

	<p>1. For heavy loads, use extra toe plate. The size can be customized.</p>
	<p>2. Installation Extra toe plate can be bolt connected with pedestal.</p>


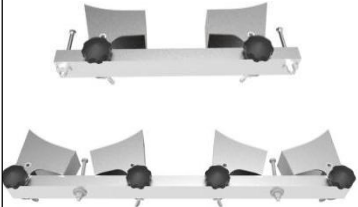

8.4 Water bucket tool


	<p>1. This tool can transport 6 bottles of water at one time. Maximum loading capacity is 19L, Maximum diameter of bottle: 320mm, maximum height of bottle: 370mm.</p>
	<p>2. Installation Water bucket tool includes two parts and is bolt connected to climber at three points, as shown in picture.</p>
	<p>3. Loading Loading the water bottles from bottom to top.</p>

8.5 The Ground Support System

	<p>1. Introduction For heavy loads transporting on flat ground, the Ground Support System is convenient and quickly. The entire body can be folded and unfolded easily.</p>
	<p>2. Installation Installed under the guidance of manufacturer.</p>
	<p>3. Using the hanger to fold or unfold the tool.</p>

8.6 Cylinder device

	<p>1. Introduction Cylinder device has two models (single and double cylinder). The maximum diameter is 500mm for single cylinder, and is 310mm for double cylinders.</p>
	<p>2. Installation The cylinder device is bolt connected to the climber.</p>
	<p>3. For single bottle mode, load a single gas cylinder at a time. Put the cylinder in the circular arc groove of the cylinder tool. the arc plate adjust the arc size automatically to meet the diameter of different cylinders.</p>

	<p>4. For double bottle mode, load two bottles each time, or it will cause instability. Cylinders are also placed directly in the circular groove of the gas cylinder tooling.</p>
---	--

8.7 Extension device

	<p>1. Introduction For wide cargo install the extension device to improve the cargo's stability.</p>
	<p>Installation The extension device is bolt connected to the climber.</p>




8.8 Gravity center adjusting device

	<p>For the low center of gravity cargo, use this device to adjust the gravity.</p>
---	--




8.9 Frame Extender

	<p>1. Introduction For the high cargo, use this device to improve operability.</p>
	<p>2. Installation The extension device is bolt connected to the climber. The disassembly of the rotating positioning body shall be carried out under the guidance of the manufacturer</p>



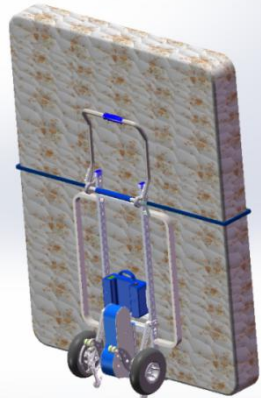
8.10 Widened guardrail

	<p>1. The widened guardrail is a kind of tool for the stair-climbing machine, which widens the load-carrying range of the stair-climbing machine, prevents the goods from falling out of the side, and improves the stability of the loading goods.</p>
	<p>2、 Find the mounting hole on the stair climber; unscrew the Bolts and place the stair climber between the bolts and the widened guardrails. Assemble the Stair Climber and the widened fixture by bolting the nuts. Note the large gasket at the nut end.</p>
	<p>3、 Place the goods to be transported on the loading board. Use The lanyard to tie the top floor cargo to the stair-climbing machine and transport it with the stair-climbing machine.</p>




8.11 Telescopic folding widened guardrail

	<p>1、 The telescopic folding and wide guardrail tooling is one of the tools of the stair-climbing machine, which widens the load-bearing range of the stair-climbing machine and improves the stability of the loading goods. Can Be Flexible to accommodate different widths of goods, can be folded to facilitate the transport of tooling.</p>
	<p>2、 Remove the fenders; find the mounting holes on the Stair Crawler; unscrew the bolts and place the stair crawler between the bolts and the Wiper, and assemble the stair crawler and the wiper assembly by the bolts.</p>
	<p>3、 Open the welded body of the guardrail. Unscrew the nut bolts and stretch to the appropriate width. Tighten the plum bolts. Load the cargo. The top cargo is bound with a strap. For Transport.</p>

8.12 Extension device (stainless steel)

	<p>1、Widening fixture is a kind of fixture of stair-climbing machine, which can widen the load-bearing range of stair-climbing machine and enhance the stability of loading goods.</p>
	<p>2、 Find the mounting hole on the stair climbing machine; unscrew the bolts, place the stair climbing machine between the bolts and the widening device, and assemble the stair climbing machine and the widening device together by bolts.</p>
	<p>3、 Place the goods to be transported on the loading board. The goods are tied together with the vertical beam of the stair-climbing machine body and transported by the stair-climbing machine.</p>

8.13 Aluminium Alloy tool for widening guardrail

 A silver aluminum alloy widening guardrail tool with a blue handle and a blue shrink tube. It has a single front wheel and a rear handle.	<p>1、Aluminum Alloy widening guardrail is a kind of climbing machine, which widens the carrying range of the climbing machine and improves the stability of loading goods. Can Be Flexible to accommodate different widths of goods, can be folded to facilitate the transport of tooling.</p>
 The widening guardrail tool is shown disassembled into two parts: a main frame and a separate component with a blue shrink tube.	<p>2、Remove the fenders; find the mounting holes on the Stair Crawler; unscrew the bolts and place the stair crawler between the bolts and the Wiper, and assemble the stair crawler and the wiper assembly by the bolts.</p>
 The widening guardrail tool is shown fully assembled and loaded with a stack of four wooden crates. A blue strap is wrapped around the top of the crates.	<p>3、Raise the guard rail. Pull the Blue Shrink tube to unlock the expansion lock and stretch to the proper width. Loosen the retractable lock to lock the tool width. Load the cargo. The top cargo is bound with a strap. For Transport.</p>

Tell: 130 000 168
Email: sales@jialift.com.au
Address: 46-48 Geddes St Mulgrave 3170