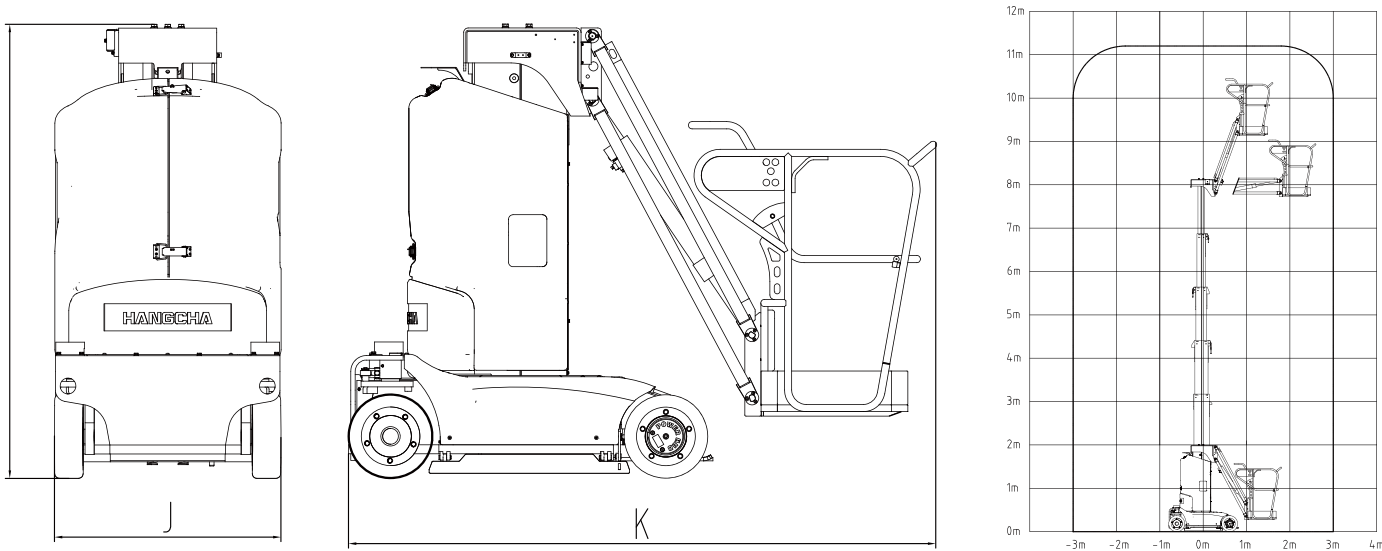


Vertical Mast Lift Specification

01	Manufacturer		HANGCHA GROUP CO.,LTD.
02	Model		HV110D
03	Maxi.working height	m	11.22
04	Maxi.platform height	m	9.22
05	Up and over height	m	7.89
06	Horizontal extension distance	m	3
07	Jib movement	°	+70 /-60
08	Turret rotation	°	345
09	Capacity	kg	210
10	Maximum number of workers		2/1
11	Platform dimensions	m	0.93×0.65
12	Width	m	1
13	Length	m	2.65
14	Height	m	2
15	Turning radius(inside)	m	0.23
16	Turning radius(outside)	m	1.65
17	Ground distance	m	0.06
18	Wheelbase	m	1.22
19	Maxi. Travelling speed	km/h	4.5
20	Mini. Travelling speed	km/h	0.5
21	Maxi slop rating	%	25
22	Maximum allowable inclination	°	2.5
23	Tyre	mm	381×127
24	Weight	kg	2930
25	Charger	V/A	24/30
26	Battery(lead-acid)	V/ah	24/240
27	Battery(lithium)	V/ah	25.6/210




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ISO45001:2018



ISO14001:2015



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HANGCHA trucks conform to the European Safety Requirements.

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Vertical Mast Lift

The World of Hangcha
SINCE 1956



Vertical Mast Lift

The HANGCHA HV110D is a jib machine that offers outreach capability to get virtually any job done. A 130° rotating jib and 345° non-continuous hydraulic turntable allows for exceptional range of motion and precise positioning. These capabilities combined with the efficient electric drive motors and a low machine weight make the HANGCHA HV110D lift the solution for hard-to-reach jobsite needs. It has the characteristics of compact body size, small turning radius, good handling performance and strong endurance. It is mainly used in warehouse, exhibition hall, aircraft maintenance, mechanical equipment installation, equipment maintenance and other fields.



Anti-overturning system

/ When the machine raises, this system will open automatically, to protect the machine from overturning while walking at un-leveling ground.

Safety

/ Alloy steel axis, to make sure the safety, reliable and efficient.

Internal charger

/ You can charge the battery directly, do not need to remove it from machine.

The working scope

/ It can go to the working area rapidly trough lifting, lowering, travelling forward and backward, turret turning, etc.

Self-leveling sensor

/ When the degree is more than 2.5°, it will alarm.

The proportional control system

/ Control the speed of traveling, lifting and turret turning as you need.

The turning radius

/ It can work in a very compact area.

LED display

/ Easy for troubleshooting.



CAN BUS control system

/ The machine is equipped with CAN BUS control system, it makes the electrical system simple, reliable, easy maintenance and troubleshooting.



Options

- / Basket socket device
- / Work lamp
- / Anti-collision sensor

Standard Specification

- / The proportional joystick
- / The anti-overturning system
- / Easy access
- / Self-propelled
- / No marking tyre
- / 4X2 drive
- / Automatic break
- / Emergency lower system
- / Flashing light
- / Emergency stop system
- / Explosion proof valve
- / Fault diagnosis
- / Self-leveling sensor
- / 345°non-continuous turret turning
- / Buzzar
- / Horn
- / Swing cover

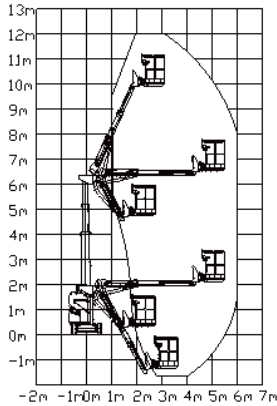
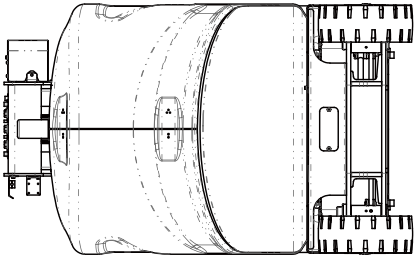


Technical Data

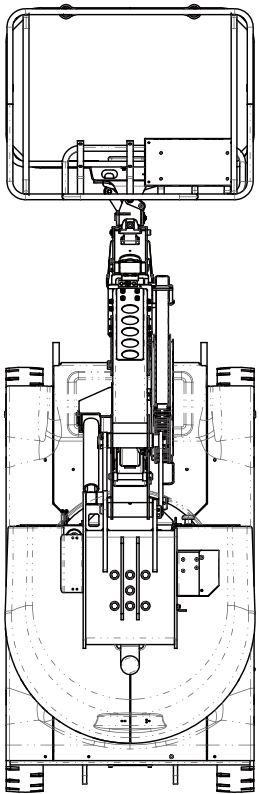
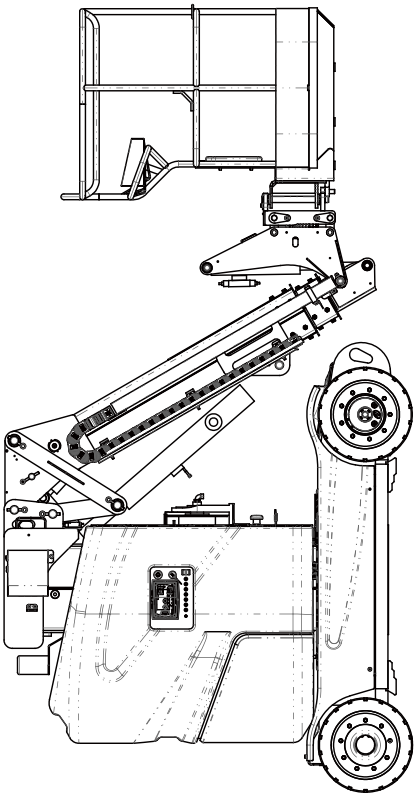
Parameter items	unit	HV120AJ
Max. working height	m	12
Max. platform height	m	10
Horizontal extension distance	m	5.5+0.5
Horizontal height	m	5.99
Capacity	kg	200
Length	m	3.9
Width	m	1.2
Height	m	1.98
Ground clearance (to center of frame)	mm	120
Ground clearance (to anti-overturning plate)	mm	80
Turret rotation	°	345
Platform rotation	°	120
Short jib swing angle	°	+65/-60
wheel base	m	1.6
Turning radius(inside)	m	0.75
Turning radius(outside)	m	2.6
Platform length	m	0.8
Platform width	m	1.2
Tire size	mm	454*178
Battery	V /Ah	48 / 160 (lithium battery) / 200 (lead acid battery)
Charger	V / A	48/40
Max. Travelling speed	km/h	6
Max. Travelling speed (working status)	km/h	0.5
Max. slop rating	%	30
Maximum allowable inclination	°	3
Driving motor	Kw	2*1.5
Oil pump motor	Kw	6
Weight	kg	5000

Features

Truck	Standard	Options
Self-propelled	●	
No marking tyre	●	
4 X 2 drive	●	
345°non-continuous turret turning	●	
Swing cover	●	
Lithium battery		○
AC power socket preset value		○
The proportional joystick	●	
Controls and instruments		
Emergency lower system	●	
Emergency stop system	●	
Safety		
The anti-overturning system	●	
Automatic break system	●	
Explosion proof valve	●	
Fault diagnosis	●	
Self-leveling system	●	
Full motion alarm		○
Height limit anti-collision rod		○
Anti-pinch device in the basket		○
Lights		
Flashing light	●	
Work lamp		○



Scope of work



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HV120AJ

VERTICAL MAST LIFT

HV120AJ

VERTICAL MAST LIFT

Your reliable, powerful and connected working machine.



EVERY JOB IS IN YOUR REACH



MACHINE CHARACTERISTICS

- Equipped with overload sensing system, tilt alarm, emergency lower system and other perfect safety configuration.
- Mast and flying jib self-weight ratio decreased, zero energy consumption, make it stronger endurance.
- Automatic hydraulic leveling of the work platform, smooth without impact.
- High quality guarantee, excellent performance, safety and reliability.
- AC drive system is energy-saving and efficient, the motor is maintenance-free, and full movement speed use proportional control system.
- Compact structure: 1.2 meters ultra-narrow body, 2.6 meters turning radius(outside), it has good passability.

1200mm
ULTRA-NARROW BODY

2600mm
TURNING RADIUS



Built-in wide voltage smart charger, make it convenient energy supplement.



The machine is equipped with the CAN BUS control system and easy for troubleshooting.



Standard lead-acid battery, optional lithium battery, five years warranty.

WORKS LIKE AN EXTENSION OF YOU

Three-level telescopic flying jib + basket horizontal rotation, make it wider working range.





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HV SERIES

VERTICAL MAST LIFT

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HV SERIES VERTICAL MAST LIFT

It has the characteristics of compact body size, small turning radius, good handling performance and strong endurance. It is mainly used in warehouse, exhibition hall, aircraft maintenance, mechanical equipment installation, equipment maintenance and other fields.



Self-propelled Vertical Lift-Single Mast

Model	HV80D-LC	HV95D-LC
Max. Working Height	8.00m	9.50m
Max. Platform Height	6.00m	7.50m
Loading Capacity	150kg	125kg
Occupants	1	1
Overall Length	1.40m	1.40m
Overall Width	0.76m	0.76m
Overall Height	1.99m	1.99m
Platform Dimension	0.66m×0.67m	0.66m×0.67m
Wheel Base	1.07m	1.07m
Turning Radius	0.3m	0.3m
Travel Speed(Stowed)	3.5km/h	3.5km/h
Travel Speed(Raised)	0.8km/h	1.1km/h
Up/Down Speed	48/40sec	53/45sec
Gradeability	0.25	0.25
Drive Tyres	Φ305-100mm	Φ305-100mm
Drive Motors	2-24VDC/0.5kW	2-24VDC/0.5kW
Lifting Motor	24VDC/1.3kW	24VDC/1.3kW
Battery	2-12V/100Ah	2-12V/100Ah
Charger	24V/15A	24V/15A
Weight	1120kg	1190kg

Standard

- / Proportional controls
- / Non-marking tyre
- / Emergency stop button
- / Automatic pothole protection
- / Automatic brake system
- / Cylinder holding valve
- / Drivable at full height
- / Emergency lowering system
- / Onboard diagnostic syste

HV Self-propelled Vertical Mast

Model	HV60D	HV70D	HV80D
Max. Working Height	5.6m	6.8m	8m
Max. Platform Height	3.6m	4.8m	6m
Loading Capacity	227kg	227kg	159kg
Ext. Platform Capacity	114kg	114kg	114kg
Overall Length	1.36m	1.36m	1.36m
Overall Width	0.76m	0.76m	0.82m
Overall Height	1.7m	1.98m	1.98m
Platform Dimension	1.3m×0.70m	1.3m×0.70m	1.3m×0.70m
Ext. Platform Length	0.51m	0.51m	0.51m
Wheel Base	1.04m	1.04m	1.04m
Inner Turning Radius	0.3m	0.3m	0.3m
Outer Turning Radius	1.8m	1.8m	1.8m
Travel Speed(Stowed)	4km/h	4km/h	4km/h
Travel Speed(Raised)	1.1km/h	1.1km/h	1.1km/h
Up/Down Speed	31/32sec	41.5/42sec	41.5/42sec
Gradeability	0.25	0.25	0.25
Drive Tyres	Φ305-100mm	Φ305-100mm	Φ305-100mm
Drive Motors	2-24VDC/0.5kW	2-24VDC/0.5kW	2-24VDC/0.5kW
Lifting Motor	24VDC/1.3kW	24VDC/1.3kW	24VDC/1.3kW
Battery	2-12V/100Ah	2-12V/100Ah	2-12V/100Ah
Charger	24V/15A	24V/15A	24V/15A
Weight	810kg	980kg	1060kg

Standard

- / Proportional controls
- / Non-marking tyre
- / Emergency stop button
- / Automatic pothole protection
- / Automatic brake system
- / Cylinder holding valve
- / Drivable at full height
- / Emergency lowering system
- / Onboard diagnostic syste

Push Around Vertical Lift-Single Mast

Model	HV70M-LC	HV80M-LC	HV100M-LC	HV110M-LC	HV120M-LC	HV140M-LC
Platform						
Max. Working Height	6.7m	8.2m	9.8m	11.2m	12.4m	14m
Max. Platform Height	4.7m	6.2m	7.8m	9.2m	10.4m	12m
Loading Capacity	150kg	150kg	150kg	150kg	136kg	120kg
Occupants	1	1	1	1	1	1
Platform Dimension	0.67m x 0.66m	0.67m x 0.66m	0.67m x 0.66m	0.67m x 0.66m	0.67m x 0.66m	0.67m x 0.66m
Overall Dimension						
Overall Height	1.99m	1.99m	1.99m	1.99m	1.99m	2.68m
Overall Width	0.78m	0.78m	0.78m	0.78m	0.78m	0.81m
Overall Length	1.24m	1.24m	1.36m	1.4m	1.42m	1.46m
Outtrigger coverage	1.7m x 1.7m	1.7m x 1.7m	1.7m x 1.7m	2.1m x 2m	2.1m x 2m	2.5m x 2.3m
Weight						
AC	330kg	350kg	370kg	390kg	420kg	490kg
DC	355kg	375kg	395kg	415kg	445kg	515kg
Power						
AC	380V/220V/110V	380V/220V/110V	380V/220V/110V	380V/220V/110V	380V/220V/110V	380V/220V/110V
AC Motor	0.75KW	0.75KW	0.75KW	0.75KW	0.75KW	0.75KW
DC	12V	12V	12V	12V	12V	12V
DC motor	1.3KW	1.3KW	1.3KW	1.3KW	1.3KW	1.3KW
Charger	12V/15A	12V/15A	12V/15A	12V/15A	12V/15A	12V/15A

Standard

- / Outtriggerinterlock
- / Emergency Stop Button
- / Leveling Bubble
- / Deadman switch
- / Easily Loading to pickup truck
- / Forklift Pocket
- / AC power on Platform
- / Emergency Lowering system
- / Cylinder Holding Valve



Self-propelled Vertical Lift-Single

HV Self-propelled Vertical

Push Around Vertical Lift-Single

EVERY JOB IS IN YOUR REACH

