

A Series Lithium-ion Walkie Straddle Stacker

with capacities of 2,500lbs







HANGCHA PROVIDES UP TO A **5 YEAR OR 10,000 HOUR** GUARANTEE ON THE
LITHIUM IRON PHOSPHATE BATTERY PACK.

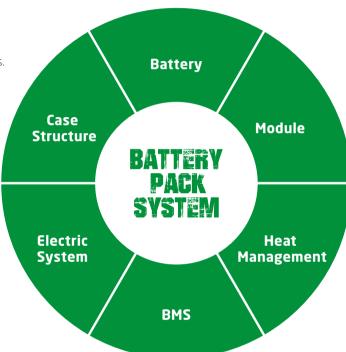




INNOVATIVE SOLUTIONS NEW POWER NOW

Lithium-ion technology (Lithium Iron Phosphate), was developed jointly by HANGCHA and CATL for use in material handling equipment applications. These innovative and reliable battery cells and modules are manufactured to the highest standard by CATL exclusively for HANGCHA's forklift line.

- / **Battery Technology:** We use square lithium iron phosphate batteries. These are the same type of batteries used in new electric vehicles.
- / **Design:** The module uses a sturdy and lightweight aluminum alloy frame. It is also designed to provide excellent heat dissipation.
- / **Safe and Effective:** Charging efficiency as high as 98% and the thermal runaway temperature is at 600 °C and above.
- / **Adapted to Low Temperatures:** Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / **Efficient:** Can use opportunity charging to allow for continuous use in multi-shift operations.
- / Long-Lasting: 4000 charging cycles with a capacity retention greater than 80%.
- / **Maintenance-Free:** Lithium-ion batteries do not require manual maintenance such as watering.
- / Green and clean: The batteries are pollution-free, release zero emissions, and are recyclable.







Rapid charging and opportunity charging ensure continuous availability of material handling equipment

This technology allows for fast full charging or boost charging. They are maintenance free and do not require a battery change when used in multi-shift operations.



Appearance

- / The A Series Walkie Straddle Stacker Pallet Truck has a smooth vivid profile and was designed to be ergonomic. The exterior of this forklift is powder coated in a durable, easy to see, green finish that designates it as a lithium-ion powered pallet truck.
- / This pallet truck uses stamped steel plates and injection molded parts. This creates a robust and durable product that is able to successfully take on the wear and tear of a warehouse environment.

High Performance

- / The maintenance-free, high-power, brushless AC traction motor has excellent acceleration, performance, good climbing ability, and low heat generation.
- / The CURTIS control system provides accurate, stable, and more efficient control of the AC traction motor.
- / The CANBUS structure makes the communication between the different parts on the truck faster and more reliable.
- / The truck uses the regenerative braking system to prevent the pallet truck from sliding down a ramp.
- / The hydraulic pump, switches, controller, connectors, and battery plug are all parts from industry known suppliers to ensure reliability, performance, and ease of service.

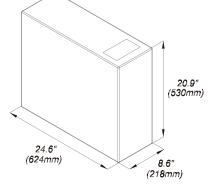
Reliability

- / The electrical system uses water-proof plugs and connectors to increase reliability and provide protection to the walkie straddle stacker's electronics.
- / The non-contact proximity switch features a long service life and is reliable.
- / The low noise and vibration hydraulic power unit enables stable and reliable lifting and lowering.
- / The punched formed forks provide higher strength and are impact resistant.
- / The pallet truck is equipped with tip guides to improve operational efficiency.
- / The power plug is fastened to the stacker's body. This prevents the plug from being damaged due to impact when the lithium-ion battery is lifted for installation.

CATL Lithium Iron Phosphate Battery Packs

- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / HANGCHA provides these Lithium Iron Phosphate (LiFePO $_4$) battery packs with up to a 5 year or 10,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Standard Battery Capacity						
Battery Capacity (V/Ah) (kW·h)	24V/125Ah 3.00kW·h					
Charger	Built-in (24V/50Ah)					





Features a Built-in 50Ah Charger and Maintenance-Free Battery.



The compact body and rounded design give the pallet truck an ideal footprint for operation in narrow spaces.



The pump motor's controller offers proportional lowering. This gives the operator precise control and stability when lowering goods.



Fixed Straddle Baselegs (Inside Dimension in 4 increments from 38" to 50") Optional adjustable baselegs fit a wide range of pallet sizes.



Safety

- / Travel speed is automatically reduced when fork is lifted above 19.5".
- / The power plug is fixed on the truck body to avoid damage when installing the battery.
- / The pallet jack won't slip on a grade to ensure safe operation.
- / When pressed, the emergency button on the tiller head immediately cuts power to the pallet truck to help keep the operator safe.
- / The lifting limit switch is designed to help protect loads from damage.
- / The pallet jack features a soft landing system to protect goods from being damaged.

Maintenance

- / The brushless AC drive motor is maintenance-free. This significantly reduces the operating costs of the pallet truck.
- / The integrated battery indicator, hour meter and self-diagnostic instrument are all easy to use.
- / The maintenance hatch opens to allow for easy access to all of the truck's components.

Comfort

- / Thanks to the tiller's design, all operations can be completed with one hand.
- / When in turtle mode, the truck can be driven slow easily, and more accurately.
- / The pallet truck's design is optimized for great visibility and easy operation in narrow aisle applications.

Standard Specifications

- / 24 Volt Electrical System
- / CANBUS Communication
- / Curtis AC Controller
- / PU Drive Tire
- / Maintenance-Free Lithium-ion Battery
- / Built-in 50Ah Charger
- / SB-175 Red Battery Connector
- / Battery Disconnect Handle
- / Key Switch
- / Multi-Function Meter
- / Electric Horn
- / Upright-Tiller Creep Speed Feature
- / PU Load Wheel
- / Single Load Wheel
- / 40" Load Backrest Height

Options

- / Load Backrest
- / PIN Code Access
- / Adjustable Width Base Legs
- / 2 Stage Mast 78-141" (2-3.6m)
- / Wire Mesh Mast Screen



A Series Lithium-ion Walkie Straddle Stacker Specification

	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.				
		HCFA Model		WSS11MLi				
_	1.2	Manufacturer's Type Designation		CTD11-AC1-2NAI				
Distinguishing Marks	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Walkie				
Mark	1.5	Rated Capacity/Rated Load	Q (lb/kg)	2500/1130				
Disti	1.6	Load Centre Distance	c (in/mm)	24/600				
	1.8	Load Distance, centre of drive axle to fork	x (in/mm)	22/570				
	1.9	Wheelbase	y (in/mm)	50/1260				
Weight	2.1	Service Weight Without Battery	lb/kg	1896/860				
_	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		PU				
	3.2	Tire size, front	in/mm	Ф9×3/Ф230×75				
SS:	3.3	Tire size, rear	in/mm	Φ4×2.75/Φ100×70				
Tires & Chassis	3.4	Additional Wheel (dimensions)	in/mm	/				
res 8	3.5	Wheels, number front / rear (x = driven wheels)		1x+/2				
=	3.6	Tread, front	b ₁₀ (in/mm)	/				
	3.7	Tread, rear	bıı (in/mm)	46/1170				
	4.2	Height, mast lowered	hı (in/mm)	81/2050				
	4.4	Lift	h₃ (in/mm)	118/3000				
	4.5	Height, mast extended	h4 (in/mm)	140/3550				
	4.10	Height of Wheel Arms	hs (in/mm)	4/100				
	4.15	Fork Height, lowered	h13 (in/mm)	1.4/35				
ions	4.19	Overall Length	lı (in/mm)	77/1958				
Dimensions	4.20	Length to Face of Forks	l2 (in/mm)	35/887				
	4.21	Overall Width	b1/b2(in/mm)	28/50 (710/1270)				
	4.22	Fork Dimensions	s/e/l (in/mm)	1.4/3.9/42 (35/100/1070)				
	4.25	Distance between Fork-Arms	bs (in/mm)	8.3~31.1 (210~790)				
	4.26	Distance between Wheel Arms	b4 (in/mm)	42/1070				
	4.32	Ground Clearance, centre of wheelbase	m2 (in/mm)	1.57/40				
	4.35	Turning Radius	Wa (in/mm)	57.4/1457				
	4.37	Length across Wheel Arms	l⁊ (in/mm)	62/1566				
8	5.1	Travel Speed, laden/unladen	mph (kph)	3.7/3.7 (6/6)				
mano ta	5.2	Lift Speed, laden/unladen	ft/min (m/s)	23/36 (0.115/0.185)				
Performance Data	5.3	Lowering Speed,laden/unladen	ft/min (m/s)	39/39 (0.2/0.2)				
a	5.8	Max Gradeability, laden/unladen	%	10/16				
ی ر	6.1	Drive Motor Rating S2 60 min	hp/kW	1.74/1.3				
Electric Motor	6.2	Lift Motor Rating at S3 5%	hp/kW	2.95/2.2				
□ <	6.4	Battery Voltage, rated capacity	V/Ah	24/125				
	8.1	Type of Drive Control		AC				
	9.1	Controller Manufacturer		CURTIS				

Mast

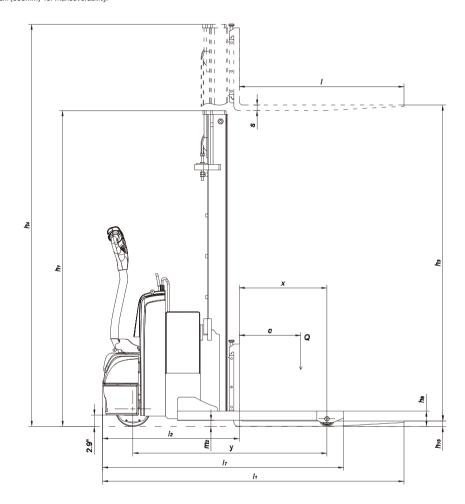
Mast Type	Max. Lifting Height h ₃		Ground Clearance, Fork (h3+h13)		Lowered Height hı		Extended Height h4 without Load Backrest		Free Lift		Load Capacity at 24" (600mm)	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
Single	78	2000	80	2035	61	1550	100	2550	5.3	135	2500	1135
	98	2500	100	2535	71	1800	120	3050	5.3	135	2500	1135
	106	2700	108	2735	75	1900	128	3250	5.3	135	2500	1135
Cylinder Duplex	118	3000	119	3035	81	2050	140	3550	5.3	135	2200	1000
Mast	130	3300	131	3335	87	2200	152	3850	5.3	135	2000	907
	137	3500	139	3535	94	2385	163	4135	5.3	135	1800	816
	141	3600	143	3635	96	2435	167	4235	5.3	135	1600	725
	98	2500	100	2535	71	1800	120	3050	28.5	724	2500	1135
	106	2700	108	2735	75	1900	128	3250	32.4	824	2500	1135
Single Cylinder	118	3000	119	3035	81	2050	140	3550	38.3	974	2200	1000
Full-free Mast	130	3300	131	3335	87	2200	152	3850	44.2	1124	2000	907
wast	137	3500	139	3535	94	2385	163	4135	51.5	1309	1800	816
	141	3600	143	3635	96	2435	167	4235	53.5	1359	1600	725
Cingle	53	1350	54.5	1385	75	1900	75.4	1915	32.5	825	2500	1135
Single Stage	59	1500	60.4	1535	81	2050	81.3	2065	38.4	975	2500	1135
Mast	69	1750	70.2	1785	94	2385	94.5	2400	51.8	1310	2500	1135

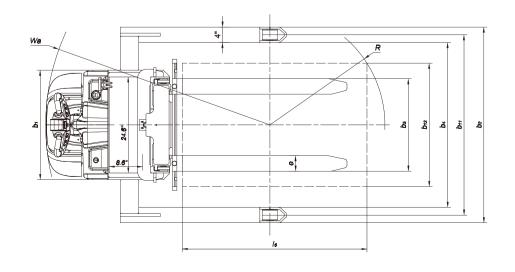
Aisle Guide

${\bf Aisle\ Requirement\ for\ Right\ Angle\ Stack} \\ \textcircled{1}$

		Load Length									
		in(mm)	36(914)	40(1016)	42(1067)	44(1117)	48(1219)				
	30(762)	in(mm) 80.5(2044)		80.5(2044)	82.0(2083)	83.6(2123)	87.0(2209)				
	32(813)	2(813) in(mm) 80.5(2044)		81.1(2061)	82.7(2100)	84.2(2139)	87.6(2224)				
	36(914)	in(mm)	80.5(2044)	82.5(2095)	83.9(2132)	85.4(2169)	88.6(2250)				
Load Width	40(1016)	in(mm)	82.4(2095)	83.9(2132)	85.3(2167)	86.7(2203)	89.8(2281)				
	42(1067)	in(mm)	82.4(2095)	84.8(2153)	86.1(2186)	87.4(2220)	90.4(2296)				
	44(1117)	in(mm)	84.4(2143)	85.5(2171)	86.8(2204)	88.1(2239)	91.1(2313)				
	48(1219)	in(mm)	86.3(2193)	87.1(2212)	88.3(2243)	89.6(2275)	92.4(2347)				

①Add a minimum of 12in (300mm) for maneuverability.









HANGCHA FORKLIFT CANADA INC.

Company address:

6-980 Rue Valois, Vaudreuil-Dorion, QC, J7V 8P2, Canada

Toll Free: 877-319-HCFC (4232) Landline: 450-319-HCFC

info@hcforkliftcanada.com www.hcforkliftcanada.com







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