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A Series Walkie Straddle Stacker

with capacities of 2,500lbs

Making Material Handling Easier
SINCE 1956



INDUSTRIAL STRENGTH STACKING

The A Series Straddle Stacker is a new logistics handling device developed by Hangcha Group for the high-intensity operating conditions of the North American market. With AC drive technology, it offers high performance and low maintenance costs. It is also safe, reliable, and can be easily operated. This is an ideal tool for loading, unloading, and handling palletized goods in warehouses, supermarkets, and workshops.



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, red finish.
- / 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.

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 battery is lifted for installation.

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.



Features an optional built-in 50Ah charger and 150Ah AGM 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.



Standard Specifications

- / 24 Volt Electrical System
- / CANBUS Communication
- / Curtis AC Controller
- / PU Drive Tire
- / 7.8" Battery Compartment
- / 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

- / 150Ah AGM Battery [Built-in 50Ah Charger]
- / 225Ah AGM Battery
- / 240Ah Industrial Battery
- / Load Backrest
- / PIN Code Access
- / Adjustable-width base legs
- / 2 Stage Mast 78-141" (2-3.6m)
- / Wire Mesh Mast Screen

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.



A Series Walkie Straddle Stacker Specification

Distinguishing Marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
		HCFA Model	WSS11M			
	1.2	Manufacturer's Type Designation	CTD11-AC1-2NA			
	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker	Walkie			
	1.5	Rated Capacity/Rated Load	Q (lb/kg)	2500/1130		
	1.6	Load Centre Distance	c (in/mm)	24/600		
Weight	1.8	Load Distance, centre of drive axle to fork	x (in/mm)	22/570		
	1.9	Wheelbase	y (in/mm)	49/1240		
	2.1	Service Weight without Battery	lb/kg	1896/860		
Tires & Chassis	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane	PU			
	3.2	Tire size, front	in/mm	Φ9×3 / Φ230×75		
	3.3	Tire size, rear	in/mm	Φ4×2.75 / Φ100×70		
	3.4	Additional Wheel (dimensions)	in/mm	/		
	3.5	Wheels, number front / rear (x = driven wheels)	1x+2			
	3.6	Tread, front	b ₀ (in/mm)	/		
	3.7	Tread, rear	b ₁ (in/mm)	46/1170		
Dimensions	4.2	Height, mast lowered	h ₁ (in/mm)	81/2050		
	4.4	Lift	h ₃ (in/mm)	118/3000		
	4.5	Height, mast extended	h ₄ (in/mm)	140/3550		
	4.10	Height of Wheel Arms	h _e (in/mm)	4/100		
	4.15	Fork Height, lowered	h _s (in/mm)	1.4/35		
	4.19	Overall Length	l ₁ (in/mm)	76/1938		
	4.20	Length to Face of Forks	l ₂ (in/mm)	34/867		
	4.21	Overall Width	b/b ₂ (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	b _s (in/mm)	8.3-31.1 (210-790)		
	4.26	Distance between Wheel Arms	b ₄ (in/mm)	42/1070		
	4.32	Ground Clearance, centre of wheelbase	m ₂ (in/mm)	1.57/40		
	Performance Data	4.35	Turning Radius	W _a (in/mm)	56.6/1437	
4.37		Length across Wheel Arms	l _r (in/mm)	61/1546		
5.1		Travel Speed, laden/unladen	mph(kph)	3.7/3.7 (6/6)		
5.2		Lift Speed, laden/unladen	ft/min(m/s)	23/36 (0.115/0.185)		
5.3		Lowering Speed, laden/unladen	ft/min(m/s)	39/39 (0.2/0.2)		
Electric Motor	5.8	Max Gradeability, laden/unladen	%	10/16		
	6.1	Drive motor rating S2 at 60 min	hp/kW	1.74/1.3		
	6.2	Lift Motor Rating S3 at 5%	hp/kW	2.95/2.2		
	6.4	Battery Voltage, rated capacity	V/Ah	24/150		
8.1	Type of Drive Control	AC				
9.1	Manufacturer	CURTIS				

Mast

Mast Type	Max. Lifting Height h ₃		Ground Clearance, fork (h ₃ +h ₁₀)		Lowered Height h ₁		Extended Height h ₄ without Load Backrest		Free Lift		Load Capacity at 24in/600mm	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
Single Cylinder Duplex Mast	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
	118	3000	119	3035	81	2050	140	3550	5.3	135	2200	1000
	130	3300	131	3335	87	2200	152	3850	5.3	135	2000	907
	141	3600	143	3635	96	2435	167	4235	5.3	135	1600	725
Single Cylinder Full Free Mast	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
	118	3000	119	3035	81	2050	140	3550	38.3	974	2200	1000
	130	3300	131	3335	87	2200	152	3850	44.2	1124	2000	907
	141	3600	143	3635	96	2435	167	4235	51.5	1309	1800	816
Single Stage Mast	53	1350	54.5	1385	75	1900	75.4	1915	32.5	825	2500	1135
	59	1500	60.4	1535	81	2050	81.3	2065	38.4	975	2500	1135
	69	1750	70.2	1785	94	2385	94.5	2400	51.8	1310	2500	1135

Aisle Guide

Aisle Requirement for Right Angle Stack ①

Load Width	in(mm)	Load Length				
		36(914)	40(1016)	42(1067)	44(1117)	48(1219)
30(762)	in(mm)	79.7(2024)	79.7(2024)	81.2(2063)	82.8(2103)	86.2(2189)
32(813)	in(mm)	79.7(2024)	80.4(2041)	81.9(2080)	83.4(2119)	86.8(2204)
36(914)	in(mm)	79.7(2024)	81.7(2075)	83.1(2112)	84.6(2149)	87.8(2230)
40(1016)	in(mm)	81.7(2074)	83.1(2112)	84.5(2147)	85.9(2183)	89.0(2261)
42(1067)	in(mm)	81.7(2074)	83.9(2132)	85.3(2166)	86.6(2200)	89.6(2276)
44(1117)	in(mm)	83.6(2123)	84.7(2151)	86.0(2184)	87.3(2218)	90.3(2293)
48(1219)	in(mm)	85.6(2173)	86.3(2192)	87.5(2223)	88.8(2255)	91.6(2327)

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

