



A Series Enclosed Rider Pallet Truck

with capacities of 4,500 to 6,000lbs

The World of Hangcha



LET THE LUM POWERED



HANGCHA provides Li-Ion battery (LiFePO4) with 10 years or 20000 hours warranty.

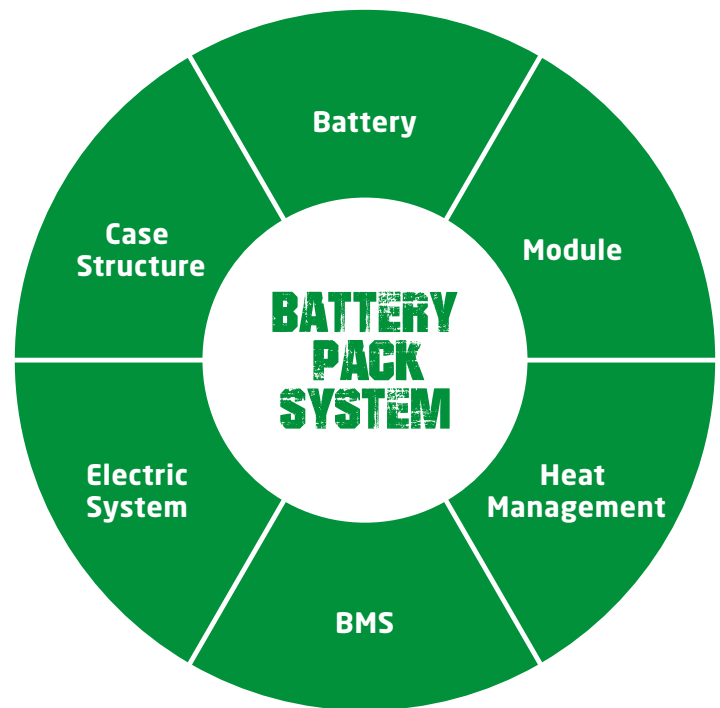


**10 YEAR
WARRANTY**

INNOVATIVE SOLUTIONS NEW POWER NOW

Innovative, reliable lithium-ion technology (Lithium Iron-Phosphate), which are developed jointly by HANGCHA and CATL. Battery cells and modules are from CATL, with reliable quality, exclusively for HANGCHA.

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / The module uses an aluminum alloy frame which is sturdy, lightweight and with excellent heat dissipation.
- / Safe and effective: Charging efficiency as high as 98%, thermal runaway temperature 600 °C or above.
- / Adapted to low temperatures: Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / Quick charging: Can charge and operate at the same time, fully charged in 2 hours.
- / Long-working: 4000 charging cycles, capacity retention greater than 80%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



Li-Ion
2 hours
100%

Lead-acid batteries
8-10 hours **100%**

Rapid charging and opportunity charging ensure continuous availability of vehicles.

Li-Ion powered forklifts are always available. They allow for fast full charging or boost charging (100% charge in 2 hours). They are maintenance free and do not require a battery change when used for multi-shift operations.

Li-Ion Battery Pack specification

Type		CBD20-AC15-ISU	CBD30-AC15-ISU
Li-Ion battery	V/Ah	24/120	24/120
Li-Ion battery,Optional	V/Ah	24/202	24/202
Titans charger		SPC-24100	SPC-24100

A Series Enclosed Rider Pallet Truck

The rider pallet truck is one of the A series pallet truck models. Using the latest AC drive technology, advanced performance, comfort, safe, reliable, low maintenance cost, is the ideal tool for heavy duty and long distance transport operations.

Environment/ Efficiency/ Economy

Appearance

- / A series electric rider pallet truck applied professional industrial design, stream lines, and compact, and fully ergonomic consideration, in line with the latest design trends.
- / Applied steel stamping and injection molding processes for front and back guard, which is robust, durable, and also environmental compliance.



High Performance

- / Electric power steering (EPS) is standard specification, which provides flexible operation.
- / Powered by AC traction motor not only has good acceleration and climbing performance, but also low heat, brushless, maintenance-free.
- / Latest AC control system, precise and smooth.
- / CAN-BUS connection enables all truck data can be read out for inspection, and also improves the data transition more quick and reliable.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as switches, connectors, battery indicator and hour meter all adopt the famous brand.

Comfort

- / Smooth driving and more comfortable operating experience thanks to a new design of the floating drive suspension system.
- / The compact body and semicircular design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.

Maintenance

- / AC motor without carbon brushes, maintenance-free, cost saving.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / Full opened hood, easy accessibility of all components, is easy for service.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

Reliability

- / Adopted unique floating suspension system ensures good driving wheels' grip and excellent stability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Using non-contact proximity switch, improves safety and reliability.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.
- / The power plug is fixed on the truck body to avoid damage from battery installment.



The pedal applies shock absorption design, greatly improve the operator's comfort, reduce the fatigue



Optimized designing structure to offer a good visibility and easy entrance of the pallet

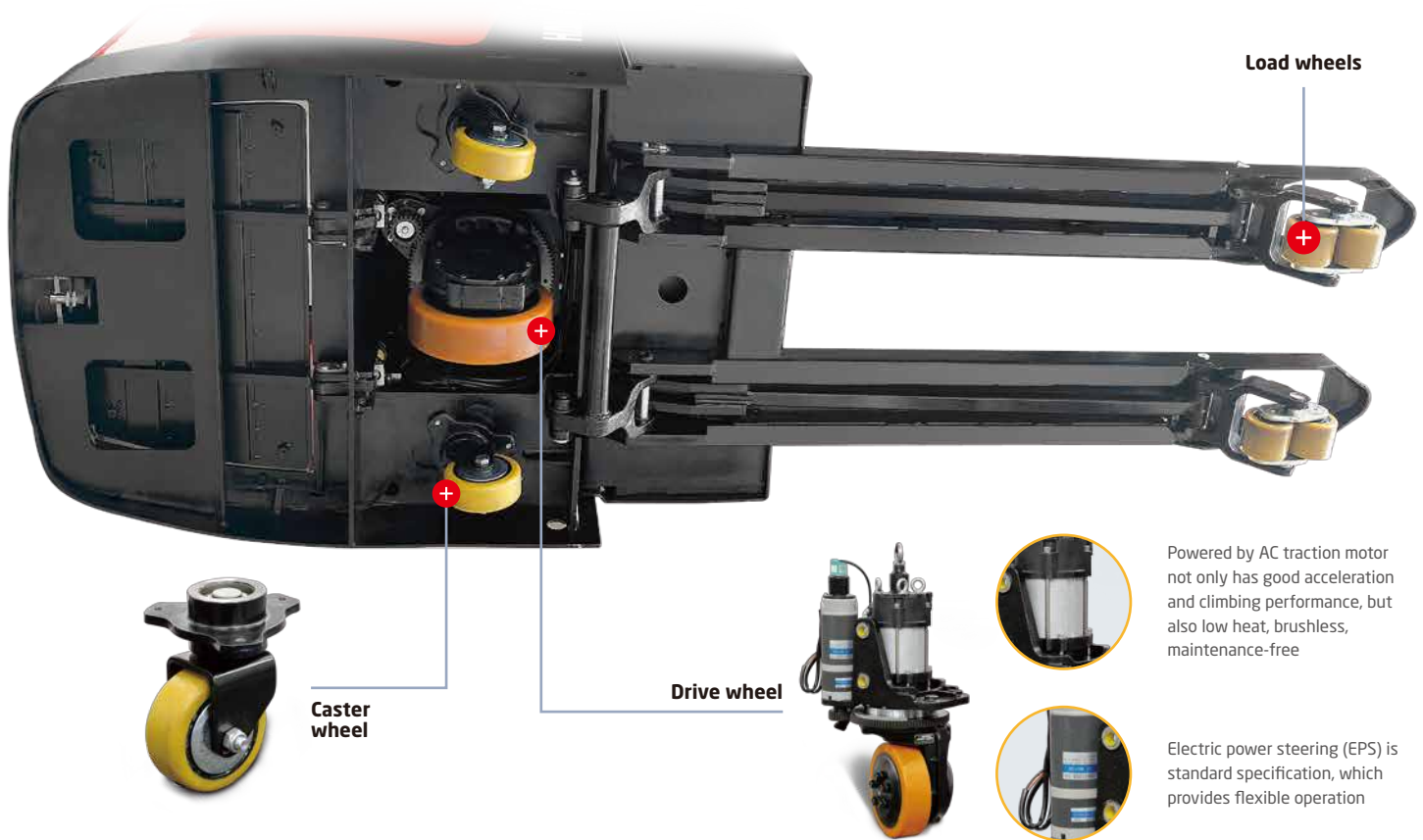


Side battery change is standard feature



Simple and beautiful tiller designed to make the operator feel comfortable, all the operation can be completed by one hand

5-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability and longer working life.



Safety

- / Automatic deceleration during turning.
- / Punch-formed frame provide more safety to the operator.
- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The braking button on the tiller head can effectively avoid the harm to the driver.
- / The standard equipped electronic lifting limitation protect the pump motor from damaging dramatically and more energy saving.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow space.

Standard specification

- / AC drive motor
- / AC controller
- / Electric Power Steering (EPS)
- / Emergency switch
- / 48" fork length
- / Side battery change
- / Multi-function battery indicator
- / CAN-bus technology
- / 27" outside fork width
- / Automatic speed reduction when cornering
- / Imported hydraulic unit
- / Brake switch

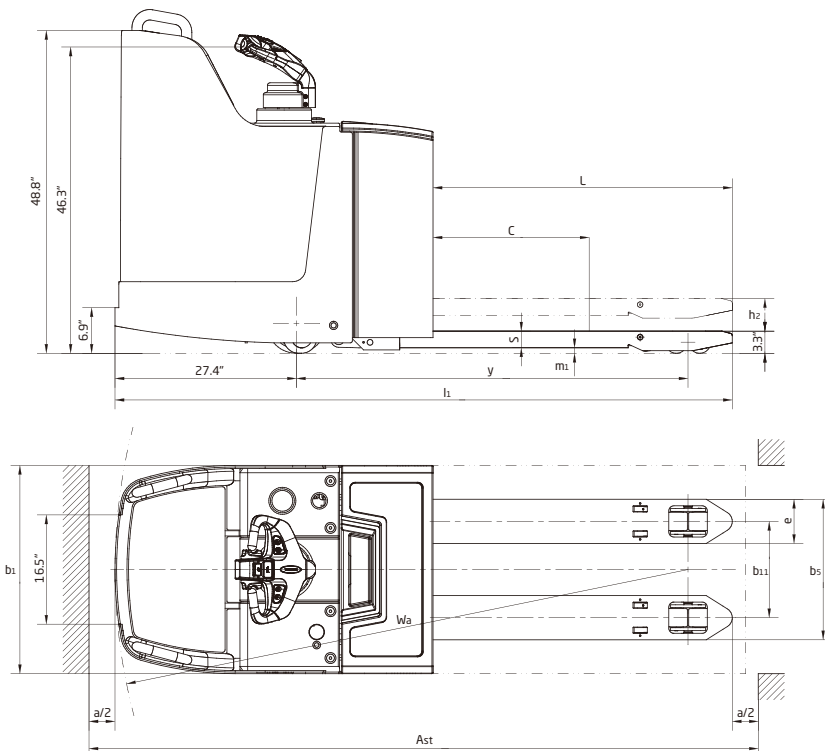
Options

- / Different length of fork
- / Different capacity of battery

A Series Enclosed Rider Pallet Truck

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.	
		HCFA Model		ER20	ER30
	1.2	Manufacturer's type designation		CBD20-AC1S-SU	CBD30-AC1S-SU
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, stand-up, sit-down, order-picker		Stand-up	Stand-up
	1.5	Rated capacity/rated load	Q (kg/lb)	2000/4500	3000/6000
	1.6	Load centre distance	c (mm/in)	600/24	600/24
Weight	1.9	Wheelbase	y (mm/in)	1505/59.3	1505/59.3
	2.1	Service Weight	kg/lb	880/1940	920/2028
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU
	3.2	Tyre size, front	mm/in	Φ85×80 / 3.3×3.1	Φ85×80 / 3.3×3.1
	3.3	Tyre size, rear	mm/in	Φ230×75 / 9.1×3	Φ230×75 / 9.1×3
	3.4	Caster wheels (dimensions)	mm/in	Φ125×50 / 4.9×2	Φ125×50 / 4.9×2
	3.5	Wheels, number front / rear (x = driven wheels)		1×+2/4	1×+2/4
	3.6	Tread, front	b ₁₀ (mm/in)	575/22.6	575/22.6
	3.7	Tread, rear	b ₁₁ (mm/in)	370/14.6	370/14.6
Dimensions	4.3	Free lift	h ₂ (mm/in)	125/4.9	125/4.9
	4.19	Overall length	l ₁ (mm/in)	2372/93.4	2372/93.4
	4.21	Overall width	b ₁ (mm/in)	800/31.5	800/31.5
	4.22	Fork dimensions	s/e/l mm/(in)	64/170/1150 (2.5/6.7/45.3)	64/170/1150 (2.5/6.7/45.3)
	4.25	Distance between fork-arms	b ₅ mm/(in)	540/680 (21.3/26.8)	540/680 (21.3/26.8)
	4.31	Ground clearance, laden, below mast	m ₁ (mm/in)	21/0.8	21/0.8
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2504 ¹⁾ /98.6	2504 ¹⁾ /98.6
Performance data	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2554 ²⁾ /100.6	2554 ²⁾ /100.6
	4.35	Turning radius	W _a (mm/in)	2134 ³⁾ / 84	2134 ³⁾ / 84
	5.1	Travel speed, laden/unladen	km/h (mph)	9.0/9.5 (5.6/5.9)	7.5/9.5 (4.7/5.9)
	5.2	Lift speed, laden/unladen	m/s (ft/min)	0.047/0.064 (9.2/12.6)	0.036/0.053 (7.1/10.4)
	5.3	Lowering speed, laden/unladen	m/s (ft/min)	0.075/0.071 (14.8/13.8)	0.060/0.058 (11.8/11.4)
	5.8	Max. gradeability, laden/unladen	%	8/16	8/16
	5.10	Service brake		Electromagnetic	Electromagnetic
Electric engine	6.1	Drive motor rating S2 60 min	kW/hp	2.2/3.0	2.2/3.0
	6.2	Lift motor rating at S3 15%	kW/hp	DC 2.2/3.0	DC 2.2/3.0
		Steering motor	kW/hp	DC 0.2/0.3	DC 0.2/0.3
	6.4	Battery voltage, nominal capacity K5	V/Ah	24/280	24/340
		Battery voltage, rated capacity, Optional	V/Ah	24/~340	-
	8.1	Type of drive unit		AC traction	AC traction
	9.1	Manufacturer/Type		CURTIS	CURTIS
	10.7	Sound pressure level at the driver's seat	dB (A)	≤75	≤75

Note: 1). VDI 2198: +430mm (+16.9in) 2). VDI 2198: +236mm(+9.3in) 3). When fork lowered, +68mm(+2.7in)





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