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ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## A Series Pallet Stacker Truck Hi Range

with capacities of 1,200 to 2,000kg

The World of Hangcha



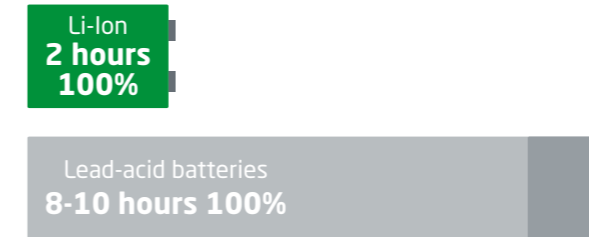
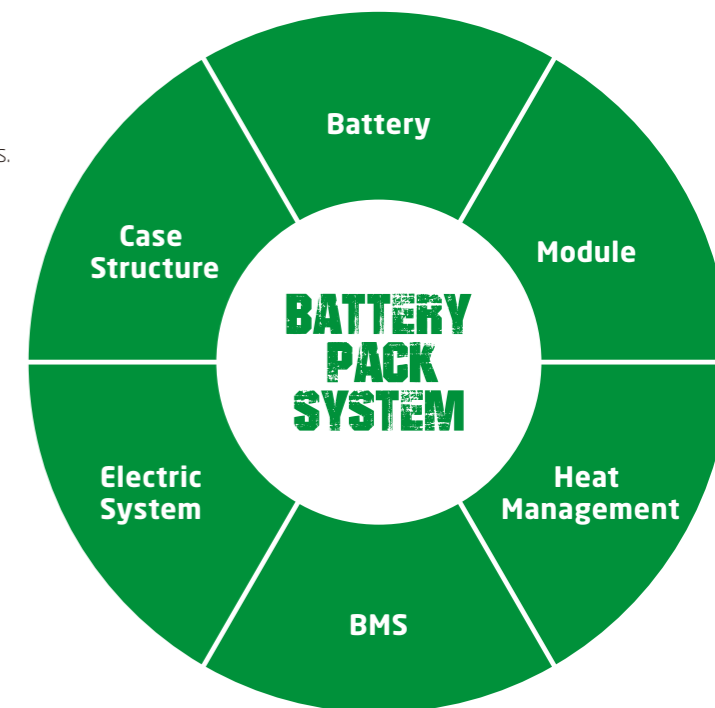
# LET THE LITHIUM POWER BE REVEALED



## 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: 2 hours full charge, economic use of each break.
- / 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.



**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		CDD12-AC2S-I	CDD14-AC2S-I	CDD16-AC2S-I	CDD20-AC2S-I	CTD12-AC2S-I	CTD14-AC2S-I	CTD16-AC2S-I	CTD20-AC2S-I	CDD12-AC2-I	CDD14-AC2-I	CDD16-AC2-I	CDD20-AC2-I
Li-Ion battery	V/Ah	24/125	24/125	24/125	24/125	24/125	24/125	24/125	24/125	24/125	24/125	24/125	24/125
Li-Ion battery,Optional	V/Ah	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202	24/202
Titans charger		SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100	SPC-24100



HANGCHA provides Li-Ion battery (LiFePO4) with 5 years or 10000 hours warranty.



## High Performance

- / AC travelling motor applied to provide excellent acceleration, good gradeability, low heat, no carbon brush and maintenance free.
- / The latest CURTIS AC control system provides accurate and stable control to work more efficient.
- / The applied CANBUS structure to offer more reliable and faster command access.
- / Regenerative brake and slope anti-slide function are offered by this truck.
- / Stand-on type with high power drive motor, provides fast travel speed and good gradeability.

## Reliability

- / Four-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capacity and longer working life.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / The adopted unique floating suspension system ensures good driving wheels grip and excellent.
- / 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.
- / H-type mast profile section to provide more stable and rigid performance.
- / The power plug is fixed on the truck body to avoid damage from battery installment.
- / Pedestrian type use the new design drive system, the drive motor will not accompany the tiller rotation, it can keep all the cable connect to the drive motor avoid being bent.
- / Using non-contact proximity switch, it can provides long life and reliable operation.

## Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / The new designed floating suspension driving system, adjustable automatically with loads, offers the driving wheels sufficient power.
- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- / Customer can choose different width of outside fork and length of forks to fit variable pallet.

## Safety

- / With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- / The applied slope anti-slip function ensures the safety of the operation.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / Soft landing system applied to offer protection to the loads from damaging.
- / Turning speed is automatically reduced when steering only for stand-on.
- / Turtle speed function can keep the slow move when the tiller is vertical direction, the truck can stack goods even in narrow space.
- / Travel speed will be automatically reduced after fork lifting 500mm.

## Maintenance

- / AC motor with no cabin brush, don't need maintenance, lower cost.
- / Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

## Standard Specification

- / Horn
- / AC drive motor
- / Battery
- / PU drive wheel
- / Tandem wheels
- / Fork lift & lower adopts stepless speed regulating
- / Pedal and handrail
- / Soft landing system
- / 1150mm fork length
- / CURTIS AC controller
- / Hydraulic power unit
- / 570mm outside fork width
- / Emergency disconnect switch
- / Multi-function battery indicator
- / CAN-bus system multi-function tiller
- / Electric steering (stand on pallet stacker)

## Options

- / Load backrest
- / Mast protection
- / 240Ah, 340Ah battery
- / Different width of outside fork
- / Different mast lifting heights
- / Cold store protection (-30 C)
- / Side way battery change
- / Different length of forks
- / Overhead guard

## 1.2-1.6t Hi Range Pallet Stacker Truck Specification:

Mast Type	Max Lifting Height h <sub>3</sub>	Max. fork height (h <sub>3</sub> +h <sub>13</sub> )	Lowered Height h <sub>1</sub>	Extended Height h <sub>4</sub>	Free lift	Load Capacity at 600mm		
						1.2t	1.4t	1.6t
	mm	mm	mm	mm	mm	Kg	Kg	Kg
Double cylinder duplex wide view	2000	2090	1542	2542	90	1200	1400	1600
	2500	2590	1792	3042	90	1200	1400	1600
	2700	2790	1892	3242	90	1200	1400	1600
	3000	3090	2042	3542	90	1200	1400	1600
	3300	3390	2192	3842	90	1200	1200	1300
	3500	3590	2292	4042	90	1070	1070	1130
	3600	3690	2342	4142	90	1000	1000	1050
	3800	3890	2442	4342	90	920	920	970
	4000	4090	2642	4642	90	850	850	900
	4300	4390	2792	4942	90	770	770	810
Duplex full-free wide view	2000	2090	1595	2595	1090	1200	1400	1600
	2500	2590	1845	3095	1340	1200	1400	1600
	2700	2790	1945	3295	1440	1200	1400	1600
	3000	3090	2095	3595	1590	1200	1400	1600
	3300	3390	2245	3895	1740	1200	1200	1300
	3500	3590	2345	4095	1840	1070	1070	1130
	3600	3690	2395	4195	1890	1000	1000	1050
	3500	3590	1844	4214	1220	1070	1070	1130
	3700	3790	1909	4409	1290	960	960	1010
	4000	4090	2009	4709	1390	850	850	900
Triplex full-free wide view	4300	4390	2109	5009	1490	770	770	810
	4500	4590	2159	5159	1590	680	680	710
	4700	4790	2259	5459	1590	600	600	630
	5000	5090	2354	5744	1700	500	500	530
	5200	5290	2409	5909	1790	440	440	470
	5500	5590	2509	6209	1890	320	320	350

## 2.0t Hi Range Pallet Stacker Truck Specification:

Mast Type	Max Lifting Height h <sub>3</sub>	Max. fork height (h <sub>3</sub> +h <sub>13</sub> )	Lowered Height h <sub>1</sub>	Extended Height h <sub>4</sub>	Free lift	Load Capacity at 600mm	
						2.0t	Kg
	mm	mm	mm	mm	mm		Kg
Double cylinder duplex wide view	2000	2090	1647	2647	90		2000
	2500	2590	1897	3147	90		2000
	2700	2790	1997	3347	90		1800
	3000	3090	2147	3647	90		1600
	3300	3390	2297	3947	90		1350
	3500	3590	2397	4147	90		1180
	3600	3690	2447	4247	90		1100
	3800	3890	2547	4447	90		980
	4000	4090	2747	4747	90		950
	4300	4390	2897	5047	90		860
Duplex full-free wide view	4500	4590	2997	5247	90		760
	2000	2090	1700	2700	1090		2000
	2500	2590	1950	3200	1340		2000
	2700	2790	2050	3400	1440		1800
	3000	3090	2200	3700	1590		1600
	3300	3390	2350	4000	1740		1350
	3500	3590	2450	4200	1840		1180
	3600	3690	2500	4300	1890		1100
	3500	3590	1944	4314	1130		1180
	3700	3790	2009	4509	1200		1020
Triplex full-free wide view	4000	4090	2109	4809	1300		950
	4300	4390	2209	5109	1400		860
	4500	4590	2259	5259	1500		760
	4700	4790	2359	5559	1500		680
	5000	5090	2454	5844	1610		570
	5200	5290	2509	6009	1700		510
	5500	5590	2609	6309	1800		400

# A Series Pallet Stacker Truck Hi Range

		HANGCHA GROUP CO.,LTD.																			
Distinguishing mark	1.1	Manufacturer																			
	1.2	Manufacturer's type designation	CD012-AC2S CD012-AZ3S	CD012-AC2 CD012-AZ3	CD014-AC2S CD014-AZ3S	CD014-AC2 CD014-AZ3	CD016-AC2S CD016-AZ3S	CD016-AC2 CD016-AZ3	CD020-AC2S CD020-AZ3S	CD020-AC2 CD020-AZ3	CD025-AC2S CD025-AZ3S	CD025-AC2 CD025-AZ3	CD030-AC2S CD030-AZ3S	CD030-AC2 CD030-AZ3	CD035-AC2S CD035-AZ3S	CD035-AC2 CD035-AZ3	CD040-AC2S CD040-AZ3S	CD040-AC2 CD040-AZ3			
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Stand-on	Pedestrian	Stand-on	Pedestrian	
	1.5	Rated capacity/rated load	Q (kg)	1200	1200	1400	1400	1600	1600	2000	2000	1200	1200	1400	1400	1600	1600	2000	2000	2000	2000
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
1.9	Wheelbase	y (mm)	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	
Weight	2.1	Service Weight	kg	1310	1177	1315	1182	1362	1215	1405	1258	1380	1247	1385	1252	1432	1285	1475	1328	1328	
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	PU																		
	3.2	Tyre size, front	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75	φ230x75
	3.3	Tyre size, rear	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70	φ85x70
	3.4	Additional wheel (dimensions)	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55	φ140x55
	3.5	Wheels, number front / rear (x = driven wheels)	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4	1x+1/4
	3.6	Tread, front	b10 (mm)	525	525	525	525	525	525	525	525	525	525	525	525	525	525	525	525	525	525
	3.7	Tread, rear	b11 (mm)	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385
Dimensions	4.4	Lift	h3 (mm)	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
	4.15	Fork height,lowered	h13 (mm)	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	4.19	Overall length	l1 (mm)	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>	2095 <sup>1)</sup>	2050 <sup>1)</sup>
		Overall length(unfold the pedal)	l1 (mm)	2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>		2527 <sup>1)</sup>	
	4.21	Overall width	b1 (mm)	800	800	800	800	800	800	800	800	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	1100/1270/1470	
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	65/185/1150	35/100/1070	35/100/1070	35/100/1070	35/100/1070	35/100/1070	35/100/1070	35/100/1070	40/122/1070	40/122/1070	
	4.25	Distance between fork-arms	bs (mm)	570/680	570/680	570/680	570/680	570/680	570/680	570/680	570/680	210-790	210-790	210-790	210-790	210-790	210-790	210-790	210-790	210-790	
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30	30	30	30	30	30	30	30	40	40	40	40	40	40	40	40	40	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2312 <sup>1)</sup>	2318 <sup>1)</sup>	2312 <sup>1)</sup>	2318 <sup>1)</sup>	2312 <sup>1)</sup>	2318 <sup>1)</sup>	2312 <sup>1)</sup>	2318 <sup>1)</sup>	2342 <sup>1)</sup>	2348 <sup>1)</sup>	2342 <sup>1)</sup>	2348 <sup>1)</sup>	2342 <sup>1)</sup>	2348 <sup>1)</sup>	2342 <sup>1)</sup>	2348 <sup>1)</sup>	2342 <sup>1)</sup>	
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2362 <sup>1)</sup>	2368 <sup>1)</sup>	2362 <sup>1)</sup>	2368 <sup>1)</sup>	2362 <sup>1)</sup>	2368 <sup>1)</sup>	2362 <sup>1)</sup>	2368 <sup>1)</sup>	2392 <sup>1)</sup>	2398 <sup>1)</sup>	2392 <sup>1)</sup>	2398 <sup>1)</sup>	2392 <sup>1)</sup>	2398 <sup>1)</sup>	2392 <sup>1)</sup>	2398 <sup>1)</sup>	2392 <sup>1)</sup>	
	4.35	Turning radius	Wa (mm)	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	1668	1662	
Performance data	5.1	Travel speed,laden/unladen	km/h	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0	7.0/7.0	6.0/6.0		
	5.2	Lift speed,laden/unladen	m/s	0.087/0.133	0.087/0.133	0.129/0.198	0.129/0.198	0.108/0.160	0.108/0.160	0.098/0.160	0.098/0.160	0.087/0.133	0.087/0.133	0.129/0.198	0.129/0.198	0.108/0.160	0.108/0.160	0.098/0.160	0.098/0.160		
	5.3	Lowering speed,laden/unladen	m/s	0.155/0.158	0.155/0.158	0.213/0.200	0.213/0.200	0.185/0.155	0.185/0.155	0.195/0.155	0.195/0.155	0.155/0.158	0.155/0.158	0.213/0.200	0.213/0.200	0.185/0.155	0.185/0.155	0.195/0.155	0.195/0.155		
	5.8	Max Gradeability,laden/unladen	%	10/16	8/16	10/16	8/16	8/16	5/16	8/16	5/16	10/16	8/16	10/16	8/16	10/16	8/16	5/16	8/16		
Electric engine	6.1	Drive motor rating S2 60 min	kW	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5	2.2	1.5		
	6.2	Lift motor rating at S3 15%	kW	2.2	2.2	3	3	3	3	3	3	2.2	2.2	3	3	3	3	3	3		
		Steering motor power	kW	0.2		0.2		0.2		0.2		0.2		0.2		0.2		0.2			
	6.4	Battery voltage,rated capacity (Lead-acid)	V/Ah	24/280	24/240	24/280	24/240	24/340	24/280	24/340	24/280	24/240	24/280	24/240	24/280	24/240	24/340	24/280	24/340		
	Battery voltage,rated capacity,Optional	V/Ah	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340	-24/340			
8.1	Type of drive control		AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC			
9.1	Manufacturer		CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI			

Note: 1),Triplex Mast+21mm

