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ISO 45001
ISO 45001:2018



ISO 14001
ISO 14001:2015



ISO 9001
ISO 9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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A Series Pallet Stacker Truck Basic Range

with capacities of 1,200 to 1,600kg

The World of Hangcha



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.

Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / The new designed floating suspension system made steering operation more flexible and convenient.
- / 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.

Reliability

- / Five-pivot with low centre of gravity design and high strength steel frame structure chassis provide larger residual load capability 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 stability.
- / 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.

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 protect loads from damaging effectively.

Standard Specification

- / Horn
- / Pedal (only for Stand-on)
- / AC drive motor
- / PU drive wheel
- / Tandem wheels
- / 2.7m duplex mast
- / Soft landing system (only available for duplex mast)
- / CURTIS AC controller
- / 1150mm fork length
- / Hydraulic power unit
- / 570mm outside fork width
- / Emergency disconnect switch
- / Multi-function battery indicator
- / CAN-bus system multi-function tiller
- / Sensitive lowering

Options

- / 240Ah battery
- / Load backrest
- / Side access battery
- / Mast protection
- / 680mm outside fork width
- / Different mast lifting heights (2m-4.5m)
- / Cold store protection (-30 ℃)
- / Different length of forks (1220mm,1400mm,1600mm)
- / Handrail
- / Overhead guard
- / Straddle leg



Straddle leg

A Series Pallet Stacker Truck Basic Range

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.											
	1.2	Manufacturer's type designation		CD012-AEC2S	CD012-AEC2	CD014-AEC2S	CD014-AEC2	CD016-AEC2S	CD016-AEC2	CTD12-AEC2S	CTD12-AEC2	CTD14-AEC2S	CTD14-AEC2	CTD16-AEC2S	CTD16-AEC2
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian
	1.5	Rated capacity/rated load	Q (kg/lb)	1200/2646	1200/2646	1400/3086	1400/3086	1600/3527	1600/3527	1200/2646	1200/2646	1400/3086	1400/3086	1600/3527	1600/3527
	1.6	Load centre distance	c (mm/in)	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6	600/23.6
Weight	1.9	Wheelbase	y (mm/in)	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3	1378 ¹⁾ /54.3
	2.1	Service Weight	kg/lb	1030/2271	990/2183	1040/2293	1000/2205	1060/2337	1020/2249	1120/2469	1080/2381	1020/2249	1080/2381	1140/2513	1100/2425
	Tyres, chassis		3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU
			3.2	Tyre size, front	mm/in	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1	φ250×80/9.8×3.1
			3.3	Tyre size, rear	mm/in	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8	φ85×70/3.3×2.8
			3.4	Additional wheel (dimensions)	mm/in	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2	φ125×50/4.9×2
Dimensions	3.5	Wheels, number front / rear (x = driven wheels)		1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4	1×2/4
	3.6	Tread, front	b ₁₀ (mm/in)	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4	620/24.4
	3.7	Tread, rear	b ₁₁ (mm/in)	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	1000/1170/1370(39.4/46.1/53.9)	1000/1170/1370(39.4/46.1/53.9)	1000/1170/1370(39.4/46.1/53.9)	1000/1170/1370(39.4/46.1/53.9)	1000/1170/1370(39.4/46.1/53.9)	1000/1170/1370(39.4/46.1/53.9)
	4.4	Lift	h ₁ (mm/in)	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3	2700/106.3
	4.15	Fork height,lowered	h ₁₃ (mm/in)	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	50/2	50/2	50/2	50/2	50/2	50
	4.19	Overall length	l ₁ (mm/in)	2063 ²⁾ (2495 ²⁾ /81.2(98.2)	2013 ²⁾ /79.3	2063 ²⁾ (2495 ²⁾ /81.2(98.2)	2013 ²⁾ /79.3	2063 ²⁾ (2495 ²⁾ /81.2(98.2)	2013 ²⁾ /79.3	2013 ²⁾ (2445 ²⁾ /79.3(96.3)	1963 ²⁾ /77.3	2013 ²⁾ (2445 ²⁾ /79.3(96.3)	1963 ²⁾ /77.3	2013 ²⁾ (2445 ²⁾ /79.3(96.3)	1963 ²⁾ /77.3
	4.21	Overall width	b ₁ (mm/in)	860/33.9	860/33.9	860/33.9	860/33.9	860/33.9	860/33.9	1100/1270/1470(43.3/50/57.9)	1100/1270/1470(43.3/50/57.9)	1100/1270/1470(43.3/50/57.9)	1100/1270/1470(43.3/50/57.9)	1100/1270/1470(43.3/50/57.9)	1100/1270/1470(43.3/50/57.9)
	4.22	Fork dimensions ISO 2331	s/e/l (mm/in)	60x185x1150/2.4x7.3x45.3	60x185x1150/2.4x7.3x45.3	60x185x1150/2.4x7.3x45.3	60x185x1150/2.4x7.3x45.3	60x185x1150/2.4x7.3x45.3	60x185x1150/2.4x7.3x45.3	35x100x1070/1.4x3.9x42.1	35x100x1070/1.4x3.9x42.1	35x100x1070/1.4x3.9x42.1	35x100x1070/1.4x3.9x42.1	35x100x1070/1.4x3.9x42.1	35x100x1070/1.4x3.9x42.1
	4.25	Distance between fork-arms	b ₂ (mm/in)	570/680(22.4/26.8)	570/680(22.4/26.8)	570/680(22.4/26.8)	570/680(22.4/26.8)	570/680(22.4/26.8)	570/680(22.4/26.8)	210-790/8.3-31.1	210-790/8.3-31.1	210-790/8.3-31.1	210-790/8.3-31.1	210-790/8.3-31.1	210-790/8.3-31.1
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm/in)	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	40/1.6	40/1.6	40/1.6	40/1.6	40/1.6	40/1.6
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2280 ³⁾ /89.8	2220 ³⁾ /87.4	2280 ³⁾ /89.8	2220 ³⁾ /87.4	2280 ³⁾ /89.8	2220 ³⁾ /87.4	2310 ³⁾ /90.9	2250 ³⁾ /88.6	2310 ³⁾ /90.9	2250 ³⁾ /88.6	2310 ³⁾ /90.9	2250 ³⁾ /88.6
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2330 ³⁾ /91.7	2270 ³⁾ /89.4	2330 ³⁾ /91.7	2270 ³⁾ /89.4	2330 ³⁾ /91.7	2270 ³⁾ /89.4	2360 ³⁾ /92.9	2300 ³⁾ /90.6	2360 ³⁾ /92.9	2300 ³⁾ /90.6	2360 ³⁾ /92.9	2300 ³⁾ /90.6
	4.35	Turning radius	W _a (mm)	1630 ³⁾ /64.2	1570 ³⁾ /61.8	1630 ³⁾ /64.2	1570 ³⁾ /61.8	1630 ³⁾ /64.2	1570 ³⁾ /61.8	1630 ³⁾ /64.2	1570 ³⁾ /61.8	1630 ³⁾ /64.2	1570 ³⁾ /61.8	1630 ³⁾ /64.2	1570 ³⁾ /61.8
	5.1	Travel speed,laden/unladen	km/h(mph)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)	5/5(3.1/3.1)
Performance data	5.2	Lift speed,laden/unladen	m/s(ft/min)	0.100/0.160(19.7/31.5)	0.100/0.160(19.7/31.5)	0.100/0.160(19.7/31.5)	0.100/0.160(19.7/31.5)	0.120/0.180(23.6/35.4)	0.120/0.180(23.6/35.4)	0.100/0.160(19.7/31.5)	0.100/0.160(19.7/31.5)	0.100/0.160(19.7/31.5)	0.100/0.160(19.7/31.5)	0.120/0.180(23.6/35.4)	0.120/0.180(23.6/35.4)
	5.3	Lowering speed,laden/unladen	m/s(ft/min)	0.130/0.140(25.6/27.5)	0.130/0.140(25.6/27.5)	0.130/0.140(25.6/27.5)	0.130/0.140(25.6/27.5)	0.140/0.150(27.5/29.5)	0.140/0.150(27.5/29.5)	0.130/0.140(25.6/27.5)	0.130/0.140(25.6/27.5)	0.130/0.140(25.6/27.5)	0.130/0.140(25.6/27.5)	0.140/0.150(27.5/29.5)	0.140/0.150(27.5/29.5)
	5.8	Max Gradeability,laden/unladen	%	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
	5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min	kW/hp	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5
Electric engine	6.2	Lift motor rating at S3 15%	kW/hp	2.2/3.0	2.2/3.0	2.2(3 ¹⁾)/3(4)	2.2(3 ¹⁾)/3(4)	3/4	3/4	2.2/3.0	2.2/3.0	2.2(3 ¹⁾)/3(4)	2.2(3 ¹⁾)/3(4)	3/4	3/4
	6.4	Battery voltage,rated capacity	V/Ah	24/210	24/210	24/210	24/210	24/240	24/240	24/210	24/210	24/210	24/210	24/240	24/240
	8.1	Type of drive control		AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC
	9.1	Manufacturer		CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS

Note: 1)Mast with double lifting cylinders(including Triplex mast)+47mm(+1.9in) 2)Duplex mast with double lifting cylinders+47mm and Triplex mast+68mm(+2.7in)

B: Straddle leg

1.2-1.6t Basic Range Pallet Stacker Truck Specification:

Mast Type	Max Lifting Height h ₃	Max. fork height (h ₃ +h ₁₃)	Lowered Height h ₁	Extended Height h ₄	Free lift	Load Capacity at 600mm/23.6in		
						1.2t	1.4t	1.6t
	mm/in	mm/in	mm/in	mm/in	mm/in	kg/lb	kg/lb	kg/lb
Single cylinder duplex mast	2000/78.7	2090/82.3	1553/61.1	2553/100.5	90/3.5	1200/2646	1400/3086	1600/3527
	2500/98.4	2590/102.0	1803/71.0	3053/120.2	90/3.5	1200/2646	1400/3086	1600/3527
	2700/106.3	2790/109.8	1902/74.5	3253/128.1	90/3.5	1200/2646	1400/3086	1450/3197
	3000/118.1	3090/121.7	2053/80.8	3553/140.0	90/3.5	1200/2646	1250/2756	1300/2866
	3300/129.9	3390/133.5	2203/86.7	3853/151.2	90/3.5	1100/2425	1100/2425	1150/2535
	3500/137.8	3590/141.3	2388/94.0	4138/162.9	90/3.5	950/2094	950/2094	1000/2205
	3600/141.7	3690/145.3	2438/96.0	4238/166.9	90/3.5	950/2094	950/2094	1000/2205
	2000/78.7	2090/82.3	1542/60.7	2542/100.1	90/3.5	1200/2646	1400/3086	1600/3527
	2500/98.4	2590/102.0	1792/70.6	3042/119.8	90/3.5	1200/2646	1400/3086	1600/3527
	2700/106.3	2790/109.8	1892/74.5	3242/127.6	90/3.5	1200/2646	1400/3086	1450/3197
Double cylinders Duplex wide view	3000/118.1	3090/121.7	2042/80.4	3542/139.4	90/3.5	1200/2646	1250/2756	1300/2866
	3300/129.9	3390/133.5	2192/86.3	3842/151.3	90/3.5	1100/2425	1100/2425	1150/2535
	3500/137.8	3590/141.3	2292/90.2	4042/159.1	90/3.5	950/2094	950/2094	1000/2205
	3600/141.7	3690/145.3	2342/92.2	4142/163.1	90/3.5	950/2094	950/2094	1000/2205
	3800/149.6	3890/153.1	2442/96.1	4342/170.9	90/3.5	820/1808	820/1808	900/1984
	4000/157.5	4090/161.0	2642/104.0	4642/182.8	90/3.5	750/1653	750/1653	800/1764
	4300/169.3	4390/172.8	2792/109.9	4942/194.6	90/3.5	600/1323	600/1323	650/1433
	4500/177.2	4590/180.7	2892/113.9	5142/202.4	90/3.5	500/1102	500/1102	600/1323
	2000/78.7	2090/82.3	1595/62.8	2595/102.2	1090/42.9	1200/2646	1400/3086	1600/3527
	2500/98.4	2590/102.0	1845/72.6	3095/121.9	1340/52.8	1200/2646	1400/3086	1600/3527
Duplex full-free wide view	2700/106.3	2790/109.8	1945/76.6	3295/129.7	1440/56.7	1200/2646	1400/3086	1450/3197
	3000/118.1	3090/121.7	2095/82.5	3595/141.5	1590/62.6	1200/2646	1400/3086	1300/2866
	3300/129.9	3390/133.5	2245/88.4	3895/153.3	1740/68.5	1100/2425	1100/2425	1150/2535
	3500/137.8	3590/141.3	2345/92.3	4095/161.2	1840/72.4	950/2094	950/2094	1000/2205
Triplex full-free wide view	3600/141.7	3690/145.3	2395/94.3	4195/165.2	1890/74.4	950/2094	950/2094	1000/2205
	3500/137.8	3590/141.3	1844/72.6	4214/165.9	1220/48	950/2094	950/2094	1000/2205
	3700/145.7	3790/149.2	1909/75.2	4409/173.6	1290/50.8	850/1874	850/1874	950/2094
	4000/157.5	4090/161.0	2009/79.1	4709/185.4	1390/54.7	750/1653	750/1653	800/1764
	4300/169.3	4390/172.8	2109/83	5009/197.2	1490/58.7	600/1323	600/1323	650/1433
	4500/177.2	4590/180.7	2159/85	5159/203.1	1590/62.6	500/1102	500/1102	550/1212