



A Series Pallet Stacker Truck Basic Range

with capacities of 1,200 to 1,600kg

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
- / 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 °C)
- / Different length of forks (1220mm,1400mm ,1600mm)
- / Handrail
- / Overhead guard
- / Straddle leg



Straddle leg



Stand-on

A Series Pallet Stacker Truck Basic Range

Distinguishing mark	HANGCHA GROUP CO.,LTD.														
	Manufacturer		CTD12-AEC2S CTD14-AE23S	CTD12-AEC2 CTD14-AE23	CTD14-AEC2S CTD14-AE23S	CTD14-AEC2 CTD14-AE23	CTD16-AEC2S CTD16-AE23S	CTD16-AEC2 CTD16-AE23	CTD12-AEC2S CTD12-AE23S	CTD12-AEC2 CTD12-AE23	CTD14-AEC2S CTD14-AE23S	CTD14-AEC2 CTD14-AE23	CTD16-AEC2S CTD16-AE23S	CTD16-AEC2 CTD16-AE23	
1.1	HANGCHA GROUP CO.,LTD.														
1.2	Manufacturer's type designation	CTD12-AEC2S CTD14-AE23S	CTD12-AEC2 CTD14-AE23	CTD14-AEC2S CTD14-AE23S	CTD14-AEC2 CTD14-AE23	CTD16-AEC2S CTD16-AE23S	CTD16-AEC2 CTD16-AE23	CTD12-AEC2S CTD12-AE23S	CTD12-AEC2 CTD12-AE23	CTD14-AEC2S CTD14-AE23S	CTD14-AEC2 CTD14-AE23	CTD16-AEC2S CTD16-AE23S	CTD16-AEC2 CTD16-AE23	CTD16-AEC2 CTD16-AE23	
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	Standing	Pedestrian	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	
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 3.2 Tyre size, front mm/in $\phi 250 \times 80/9.8 \times 3.1$ $\phi 250 \times 80/9.8 \times 3.1$ $\phi 250 \times 80/9.8 \times 3.1$ $\phi 250 \times 80/9.8 \times 3.1$ $\phi 250 \times 80/9.8 \times 3.1$ $\phi 250 \times 80/9.8 \times 3.1$ 3.3 Tyre size, rear mm/in $\phi 85 \times 70/3.3 \times 2.8$ $\phi 85 \times 70/3.3 \times 2.8$ $\phi 85 \times 70/3.3 \times 2.8$ $\phi 85 \times 70/3.3 \times 2.8$ $\phi 85 \times 70/3.3 \times 2.8$ $\phi 85 \times 70/3.3 \times 2.8$ 3.4 Additional wheel (dimensions) mm/in $\phi 125 \times 50/4.9 \times 2$ $\phi 125 \times 50/4.9 \times 2$ $\phi 125 \times 50/4.9 \times 2$ $\phi 125 \times 50/4.9 \times 2$ $\phi 125 \times 50/4.9 \times 2$ $\phi 125 \times 50/4.9 \times 2$ 3.5 Wheels, number front / rear (x = driven wheels) 1x+2/4 1x+2/4 1x+2/4 1x+2/4 1x+2/4 1x+2/4 3.6 Tread, front b _s (mm/in) 620/24.4 620/24.4 620/24.4 620/24.4 620/24.4 620/24.4 3.7 Tread, rear b _s (mm/in) 385/15.2 385/15.2 385/15.2 385/15.2 385/15.2 385/15.2 4.4 Lift h _s (mm/in) 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 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 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 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 4.25 Distance between fork-arms b _s (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) 4.32 Ground clearance, centre of wheelbase m _z (mm/in) 30/1.2 30/1.2 30/1.2 30/1.2 30/1.2 30/1.2 4.34.1 Aisle width for pallets 1000 x 1200 crossways A _{st} (mm/in) 2280 ²⁾ /89.8 2220 ²⁾ /87.4 2280 ²⁾ /89.8 2220 ²⁾ /87.4 2280 ²⁾ /89.8 2220 ²⁾ /87.4 4.34.2 Aisle width for pallets 800 x 1200 lengthways A _{st} (mm/in) 2330 ²⁾ /91.7 2270 ²⁾ /89.4 2330 ²⁾ /91.7 2270 ²⁾ /89.4 2330 ²⁾ /91.7 2270 ²⁾ /89.4 4.35 Turning radius W _a (mm) 1630 ¹⁾ /64.2 1570 ¹⁾ /61.8 1630 ¹⁾ /64.2 1570 ¹⁾ /61.8 1630 ¹⁾ /64.2 1570 ¹⁾ /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) 5.2 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) 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) 5.8 Max Gradeability, laden/unladen % 6/10 6/10 6/10 6/10 6/10 6/10 5.10 Service brake 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 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 2.2/3.0 6.4 Battery voltage, rated capacity V/Ah 24/210 24/210 24/210 24/210 24/240 24/240 8.1 Type of drive control AC AC AC AC AC AC 9.1 Manufacturer CURTIS ZAPI CURTIS ZAPI CURTIS ZAPI CURTIS ZAPI CURTIS ZAPI CURTIS ZAPI													

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 mm/in	Load Capacity at 600mm/23.6in		
						1.2t kg/lb	1.4t kg/lb	1.6t 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
Double cylinders Duplex wide view	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
	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
Duplex full-free wide view	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
	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
Triplex full-free wide view	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
	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

Note: The mast which h₃ > 4500mm (177.2in) (include 4500mm) only suitable for the pallet stacker (outside fork width b₅ ≥ 680mm (26.8in)).

