



## A Series Pallet Stacker Truck Hi Range

with capacities of 1,200 to 2,000kg

### 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

# A Series Pallet Stacker Truck Hi Range

		HANGCHA GROUP CO.,LTD.																		
Distinguishing mark	1.1	Manufacturer																		
	1.2	Manufacturer's type designation	CDD12-AC1S	CDD12-AC1	CDD14-AC1S	CDD14-AC1	CDD16-AC1S	CDD16-AC1	CDD20-AC1S	CDD20-AC1	CDD12-AC1S-B	CDD12-AC1-B	CDD14-AC1S-B	CDD14-AC1-B	CDD16-AC1S-B	CDD16-AC1-B	CDD20-AC1S-B	CDD20-AC1-B		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Standing	Pedestrian	Standing	Pedestrian	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	2000/4409	2000/4409	1200/2646	1200/2646	1400/3086	1400/3086	1600/3527	1600/3527	2000/4409	2000/4409	
	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	600/23.6	600/23.6	600/23.6	600/23.6	
1.9	Wheelbase	y (mm)/in	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1	1425/56.1		
Weight	2.1	Service Weight	kg/lb	1310/2888	1177/2595	1315/2899	1182/2605	1362/3003	1215/2679	1405/3097	1258/2773	1380/3042	1247/2749	1385/3053	1252/2760	1432/3157	1285/2832	1475/3252	1328/2927	
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	PU	
	3.2	Tyre size, front	mm/in	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	φ230x75 / φ91x3.0	
	3.3	Tyre size, rear	mm/in	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	φ85x70 / φ33x2.8	
	3.4	Additional wheel (dimensions)	mm/in	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	φ140x55 / φ5.5x2.2	
	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	
	3.6	Tread, front	b <sub>10</sub> (mm/in)	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	525/20.7	
Dimensions	3.7	Tread, rear	b <sub>11</sub> (mm/in)	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	385/15.2	
	4.4	Lift	h <sub>12</sub> (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	2700/106.3	2700/106.3	2700/106.3	2700/106.3	
	4.15	Fork height, lowered	h <sub>13</sub> (mm)	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	
	4.19	Overall length	l <sub>1</sub> (mm/in)	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	2095/82.5 <sup>1)</sup>	2050/80.7 <sup>1)</sup>	
		Overall length (unfold the pedal)	l <sub>2</sub> (mm/in)	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	2527/99.5 <sup>1)</sup>	
	4.21	Overall width	b <sub>1</sub> (mm/in)	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	800/31.5	
	4.22	Fork dimensions ISO 2331	s/e/l mm/(in)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	65/185/1150 (2.67/3.42/3)	
	4.25	Distance between fork-arms	b <sub>2</sub> 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)	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)	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 <sub>2</sub> (mm/in)	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	30/1.2	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 <sub>st</sub> (mm/in)	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	2312/91 <sup>1)</sup>	2318/91.3 <sup>1)</sup>	
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A <sub>st</sub> (mm/in)	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	2362/93 <sup>1)</sup>	2368/93.2 <sup>1)</sup>	
	4.35	Turning radius	W <sub>a</sub> (mm/in)	1662/65.4	1668/65.7	1662/65.4	1668/65.7	1662/65.4	1668/65.7	1662/65.4	1668/65.7	1662/65.4	1668/65.7	1662/65.4	1668/65.7	1662/65.4	1668/65.7	1662/65.4	1668/65.7	
	Performance data	5.1	Travel speed, laden/unladen	km/h (mph)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	6.0/6.0 (3.7/3.7)	7.0/7.0 (4.3/4.3)	
5.2		Lift speed, laden/unladen	m/s (ft/min)	0.087/0.133 (1.71/26.2)	0.087/0.133 (1.71/26.2)	0.129/0.198 (25.4/39)	0.129/0.198 (25.4/39)	0.108/0.160 (21.3/31.5)	0.108/0.160 (21.3/31.5)	0.098/0.160 (19.3/31.5)	0.098/0.160 (19.3/31.5)	0.087/0.133 (1.71/26.2)	0.087/0.133 (1.71/26.2)	0.129/0.198 (25.4/39)	0.129/0.198 (25.4/39)	0.108/0.160 (21.3/31.5)	0.108/0.160 (21.3/31.5)	0.098/0.160 (19.3/31.5)	0.098/0.160 (19.3/31.5)	
5.3		Lowering speed, laden/unladen	m/s (ft/min)	0.155/0.158 (30.5/31.1)	0.155/0.158 (30.5/31.1)	0.213/0.200 (41.9/39.4)	0.213/0.200 (41.9/39.4)	0.185/0.155 (36.4/30.5)	0.185/0.155 (36.4/30.5)	0.195/0.155 (38.4/30.5)	0.195/0.155 (38.4/30.5)	0.155/0.158 (30.5/31.1)	0.155/0.158 (30.5/31.1)	0.213/0.200 (41.9/39.4)	0.213/0.200 (41.9/39.4)	0.185/0.155 (36.4/30.5)	0.185/0.155 (36.4/30.5)	0.195/0.155 (38.4/30.5)	0.195/0.155 (38.4/30.5)	
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/hp	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	2.2/3.0	1.5/2.0	
	6.2	Lift motor rating at S3 15%	kw/hp	2.2/3.0	2.2/3.0	3.0/4.0	3.0/4.0	3.0/4.0	3.0/4.0	3.0/4.0	3.0/4.0	2.2/3.0	2.2/3.0	3.0/4.0	3.0/4.0	3.0/4.0	3.0/4.0	3.0/4.0	3.0/4.0	
		Steering motor power	kw/hp	0.2/0.27		0.2/0.27		0.2/0.27		0.2/0.27		0.2/0.27		0.2/0.27		0.2/0.27		0.2/0.27		
	6.4	Battery voltage, rated capacity	V/Ah	24/280	24/240	24/280	24/240	24/340	24/280	24/340	24/280	24/280	24/240	24/280	24/240	24/340	24/280	24/340	24/280	
		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	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS		

Note: 1), Triplex Mast+21mm/+0.83in

B: Straddle leg

ZAPI controller is as option with model CDD12-AZ3, CDD14-AZ3, CDD16-AZ3, CDD20-AZ3

CDD12-AZ3S, CDD14-AZ3S, CDD16-AZ3S, CDD20-AZ3S

