



ZHEJIANG HANGCHA IMP. & EXP. CO., LTD.

Factory site: No. 88, Donghuan Rd., Lin'an
Economic Development Zone, Zhejiang,
China (311305)

Tel: +86-571-88926735 88926755
Fax: +86-571-88132890 88926789

sales@hcforklift.com
www.hcforklift.com



2017 VERSION 2/COPYRIGHT 2017/07



HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.

The Catalogue

Hangcha Material Handling.



The World of Hangcha





Welcome to HANGCHA!

ZHEJIANG HANGCHA IMP. & EXP. Co. Ltd. is a subsidiary of HANGCHA Group, and is responsible for all import, export activities, sales channels and marketing network management of HANGCHA Group.

We provide material handling equipment, spare parts, marketing and technical support through our international dealer's network to a wide range of all kinds of customers. Currently our sales network consists of more than 70 dealers cover more than 140 countries in Europe, Africa, Asia, Oceania and Latin America.

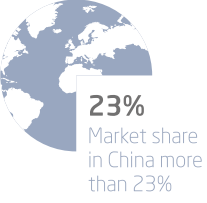
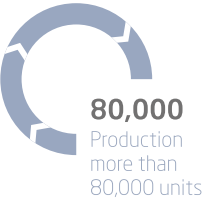
Our network is highly professional and can provide all the necessary services and support to customers.

Our products have gained a solid reputation with our customers for being of the highest quality, for their durability and reliability.

HANGCHA offers a complete product range of material handling equipment.

From 1.0 - 48.0t engine and 1.0 - 8.5t electric counterbalance forklift trucks, a full range of warehouse equipment from electric pallet trucks to reach trucks, 3.0 - 6.0t side loaders, empty container handlers, reach stackers, tow tractors and more.

www.hcforklift.com



Page	
Pallet truck	 03-19
	 20-28
Pallet stacker	 29-43
	 44-69
Reach truck	 70-84
Electric tow tractor/ platform	 85-100
Order picker	 101-107
Special truck	 108-115



A Series Pallet Truck Mini Range II

with capacities of 1,500kg

The A series pallet truck mini range II has been engineered to be both powerful and flexible to meet the requirements of many demanding applications. Whether it's supermarket work, delivery service, stock replenishment or heavy manufacturing, the A series pallet truck mini range II has the strength and durability to minimise your total cost of ownership.

Appearance

- / A series pallet truck mini range II 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, which is robust, durable, and also environmental compliance.

High Performance

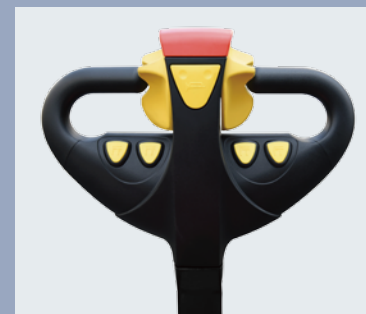
- / Rated capacity 1500kg, meet the needs of the majority of customers.
- / Powered by traction motor not only has good acceleration and perfect performance, but also low heat.
- / Latest CURTIS control system, precise and smooth.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as tiller, switches, connectors, battery indicator and hour meter all adopt the famous brand.

Reliability

- / 5-pivot design provide longer working life.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / 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.
- / Using non-contact proximity switch, improves safety and reliability.

Safety

- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The emergency 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.



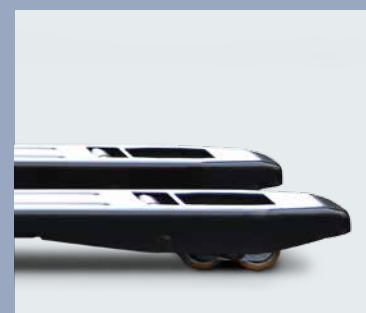
Rema tiller head



Auxillary wheels are equipped to have better stability



Modern outline design



Tandem load wheel



Comfort

- / Simple and beautiful tiller made by REMA designed to make the operator feel comfortable, all the operation can be completed by one hand.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / The compact body and semicircular design provide an ideal operation in limited space, and the ability of walking upright greatly increases the convenience in the container.
- / Standard fork height 80mm, equipped the guide device easy to get in pallets (including sealing pallets).
- / Side battery change is standard feature.

Maintenance

- / Built-in charger and maintenance free gel battery, you don't need to worry about them.
- / 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.

Standard Specification

- / Permanent magnet drive motor
- / CURTIS permanent magnet controller
- / HPI hydraulic unit
- / Emergency switch
- / Multi-function battery indicator
- / PU wheel
- / 1150mm fork length
- / 560mm outside fork width
- / Electronic lifting limitation
- / Non-contact proximity switch
- / Tiller made by REMA
- / Horn
- / Maintenance free battery
- / Internal charger
- / Walking upright
- / Guide device
- / Additional wheel
- / Tandem load wheel

Options

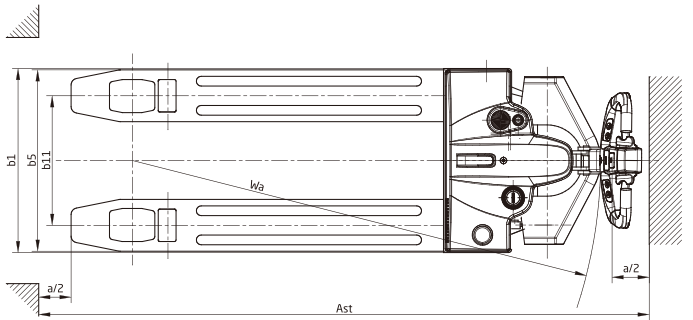
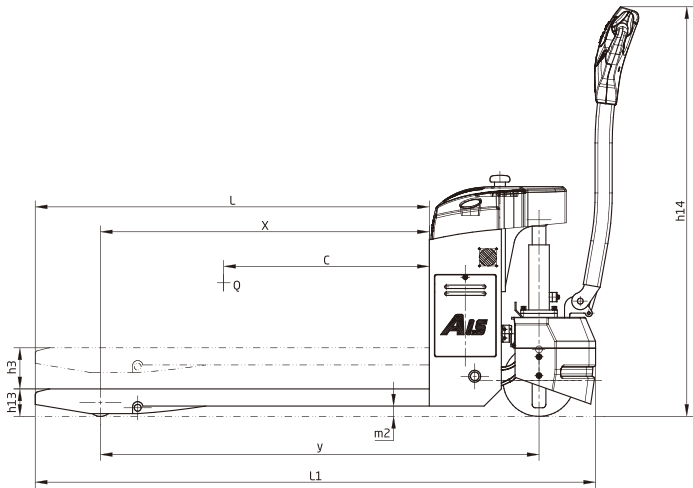
- / Different length of fork
- / Different width of outside fork
- / Single load wheel



A Series Mini Range Pallet Truck II

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
	1.2	Manufacturer's type designation		CBD15-A2MC1
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian
	1.5	Rated capacity/rated load	Q (kg/lb)	1500/3307
Weight	1.6	Load centre distance	c (mm/in)	600/23.6
	1.8	Load distance, centre of drive axle to fork	x (mm/in)	960/37.8
Weight	1.9	Wheelbase	y (mm/in)	1285/50.6
	2.1	Service Weight(Including battery)	kg/lb	220/485
Tyres, chassis		Battery weight	kg/lb	50/110
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU
	3.2	Tyre size, front	mm/in	Φ210x70 / Φ8.3x2.8
	3.3	Tyre size, rear	mm/in	2×Φ80x64 / 2×Φ3.1x2.5
Dimensions	3.4	Additional wheel (dimensions)	mm/in	Φ70x40 / Φ2.8x1.6
	3.5	Wheels, number front / rear (x = driven wheels)		1x+2/4
	3.6	Tread, front	b10 (mm/in)	404/15.9
	3.7	Tread, rear	b11 (mm/in)	400/15.7
	4.4	Lift	h3 (mm/in)	120/4.7
	4.15	Fork height,lowered	h13 (mm)	80/3.1
	4.19	Overall length	l1 (mm/in)	1669/65.7
	4.21	Overall width	b1 mm (in)	568/688 (22.4/27.1)
	4.22	Fork dimensions	s/e/l mm (in)	50/160/1150 (2.0/6.3/45.3)
	4.25	Distance between fork-arms	b5 mm (in)	560/680 (22.0/26.8)
Performance data	4.32	Ground clearance, centre of wheelbase	m2 (mm/in)	30/1.2
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm/in)	1850/72.8 ¹⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm/in)	1900/74.8 ²⁾
	4.35	Turning radius	Wa (mm/in)	1400/55.1 ³⁾
	5.1	Travel speed,laden/unladen	km/h (mph)	4.5/4.9 (2.80/3.04)
Electric engine	5.2	Lift speed,laden/unladen	m/s (ft/min)	0.050/0.060 (1.97/2.36)
	5.3	Lowering speed,laden/unladen	m/s (ft/min)	0.040/0.045 (1.57/1.77)
	5.8	Max Gradeability,laden/unladen	%	6/15
Electric engine	6.1	Drive motor rating S2 60 min	kW/hp	0.65/0.87
	6.2	Lift motor rating at S3 15%	kW/hp	0.8/1.07
	6.4	Battery voltage,rated capacity	V/Ah	2x12/70
	8.1	Type of drive control		DC
	9.1	Manufacturer		Curtis

Note: 1). VDI 2198: +358/14.1mm/in 2). VDI 2198: +200/7.9mm/in 3). When fork lowered,+60/2.4mm/in





A Series Pallet Truck Basic Range

with capacities of 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.

Comfort

- / The shock absorption design of foldable platform improves comfort greatly to the operator.
- / 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.
- / 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.
- / The standard equipped electronic lifting limitation and intellectual control limitation to offer double protection to working motor and loads from damaging.



Standard Specification

- | | |
|----------------------------|--|
| / Horn | / Hydraulic power unit |
| / Pedal (only CBD20-AEC1S) | / 540mm outside fork width |
| / AC drive wheel | / Electronic lifting limitation |
| / Tandem load wheels | / Emergency disconnect switch |
| / 1150mm fork length | / Multi-function battery indicator |
| / CURTIS AC controller | / CAN-bus system multi-function tiller |

Options

- / Load backrest
- / Guide roller of pallet
- / Handrail
- / 210Ah, 240Ah, battery
- / Different outside fork width (560mm, 600mm, 650mm, 680mm, 700mm)
- / Cold store protection (-30 °C)
- / Different length of forks (1220mm, 1400mm, 1600mm, 2000mm, 2150mm, 2400mm)

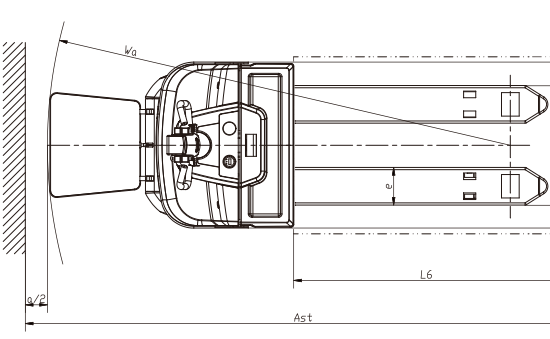
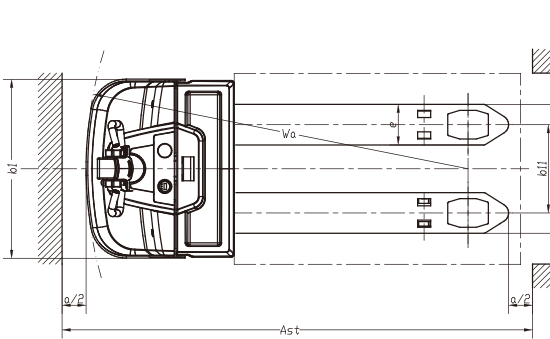
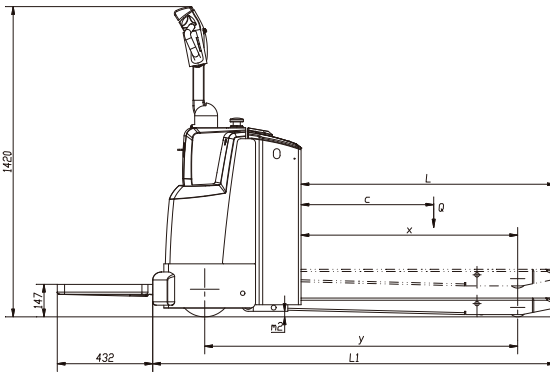
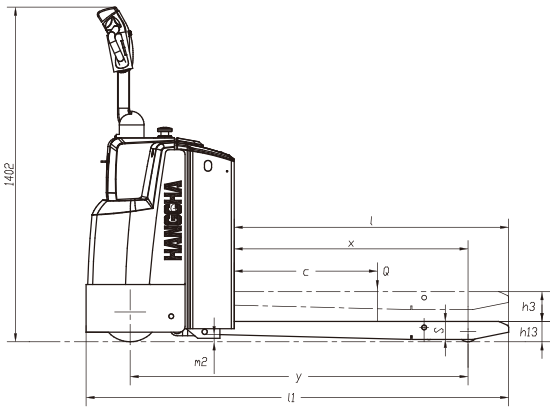


Stand-on

A Series Pallet Truck Basic Range

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.	
	1.2	Manufacturer's type designation	CBD20-AEC1S	CBD20-AEC1
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Standing	Pedestrian
	1.5	Rated capacity/rated load	Q (kg/lb)	2000/4409
	1.6	Load centre distance	c (mm/in)	600/23.6
	1.9	Wheelbase	y (mm/in)	1415/55.7
Weight	2.1	Service Weight	kg/lb	540/1190
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	PU	PU
	3.2	Tyre size, front	mm/in	Φ250x80/9.8x3.1
	3.3	Tyre size, rear	mm/in	Φ85x703.3x2.8
	3.4	Additional wheel (dimensions)	mm/in	Φ100x40/3.9x1.6
	3.5	Wheels, number front / rear (x = driven wheels)		1x+2/4
	3.6	Tread, front	b10 (mm/in)	534/21
	3.7	Tread, rear	b11 (mm/in)	370/14.6
Dimensions	4.4	Lift	h3 (mm/in)	125/4.9
	4.15	Fork height,lowered	h13 (mm/in)	85/3.3
	4.19	Overall length	l1 (mm/in)	1820(2252)/71.7(88.7)
	4.21	Overall width	b1 (mm/in)	750/29.5
	4.22	Fork dimensions ISO 2331	s/e/l (mm/in)	64x170x1150(2.5x6.7x45.3)
	4.25	Distance between fork-arms	bs (mm/in)	540/680(21.3/26.8)
	4.32	Ground clearance,center of wheelbase	m2 (mm/in)	25/1
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm/in)	1967/77.4
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm/in)	2017/79.4
	4.35	Turning radius	Wa (mm/in)	1597/62.9
Performance data	5.1	Travel speed,laden/unladen	km/h(mph)	5.0/5.0(3.1/3.1)
	5.2	Lift speed,laden/unladen	m/s(ft/min)	0.030/0.045(5.9/8.9)
	5.3	Lowering speed,laden/unladen	m/s(ft/min)	0.050/0.035(9.8/6.9)
	5.8	Max.Gradeability,laden/unladen	%	6/15
	5.10	Service brake		Eletromagnetic
Electric engine	6.1	Drive motor rating S2 60 min	kw/hp	1.1/1.5
	6.2	Lift motor rating at S3 15%	kw/hp	0.8/1.1
	6.4	Battery voltage,rated capacity	V/Ah	24/165
	8.1	Type of drive control		AC
	9.1	Manufacturer	CURTIS	CURTIS

Note: 1). When fork lowered,+68mm/+2.68in
2). When fork lowered,+40mm/+1.57in



A Series Pallet Truck Hi Range
with capacities of 2,000 to 3,000kg

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 CAN-BUS 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

- / Five-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.

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.
- / Lifting limitation switch 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.

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.

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

/ PU drive wheel

/ Pedal and handrail

/ Tandem load wheels

/ 1150mm fork length

/ CURTIS AC controller
- / Hydraulic power unit

/ 540mm outside fork width

/ Electronic lifting limitation

/ Emergency disconnect switch

/ Multi-function battery indicator

/ CAN-bus system multi-function tiller

/ Electric steering (stand on pallet)

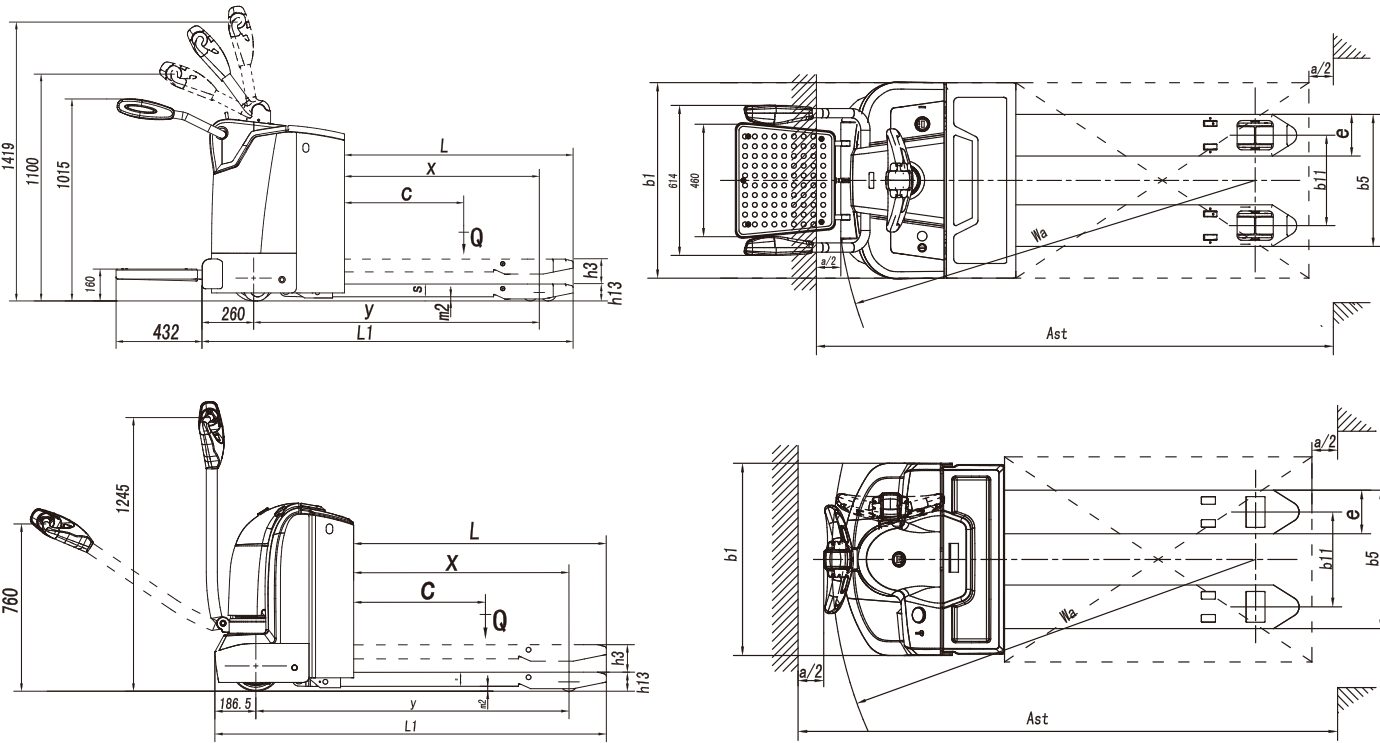
Options

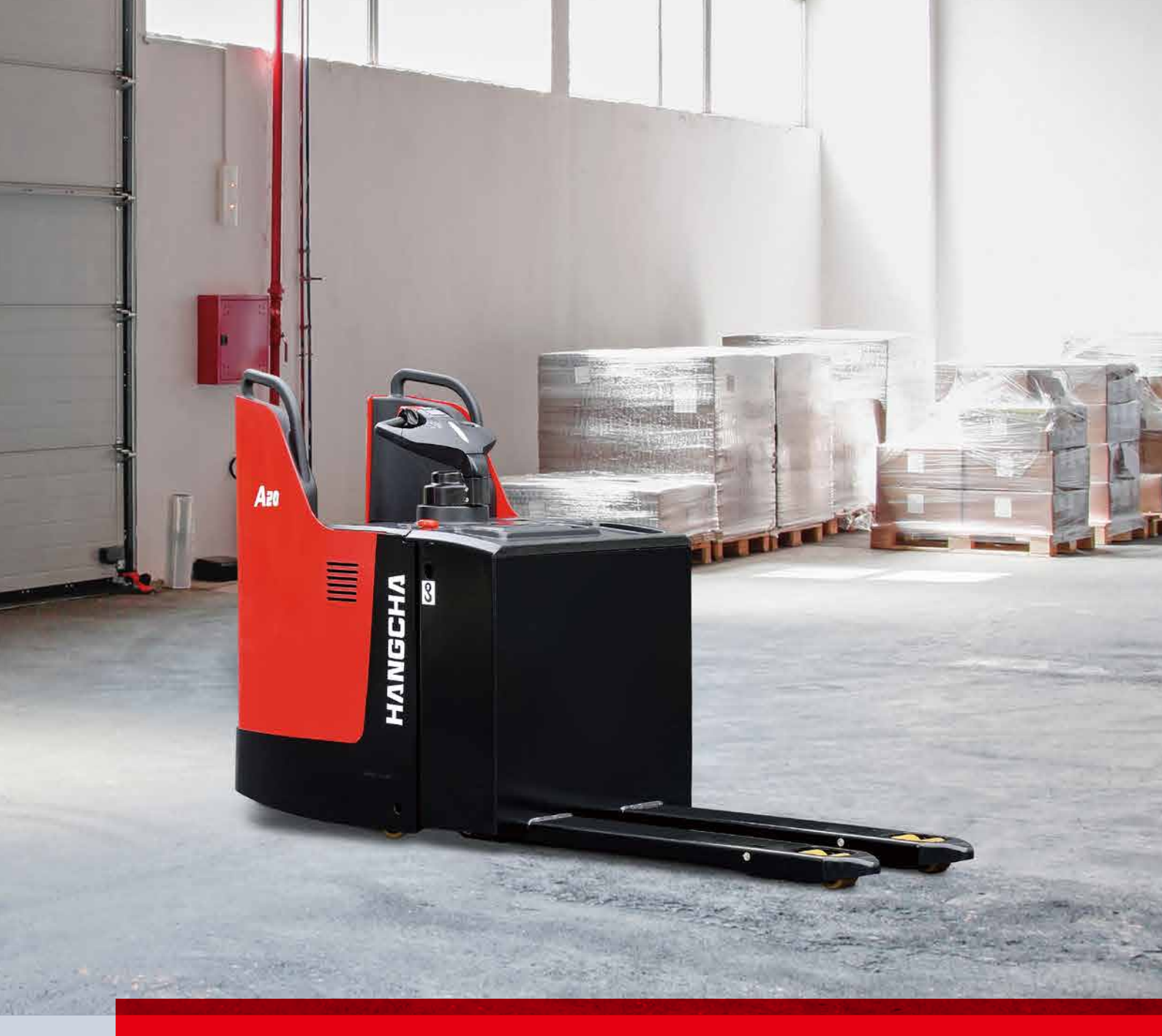
- / Different length of forks
- / Different width of outside fork
- / Cold store protection (-30℃)
- / Pedestrian:210Ah~240Ah,
- / Stand-on:240Ah~340Ah
- / Guide roller of pallet
- / Load backrest
- / Automatic charger

A Series Pallet Truck Hi Range

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation		CBD20-AC1S CBD20-AZ3S	CBD20-AC1	CBD30-AC1S CBD30-AZ3S	CBD30-AC1
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Pedestrian	Standing	Pedestrian
	1.5	Rated capacity/rated load	Q (kg)/(lb)	2000/4409	2000/4409	3000/6614	3000/6614
	1.6	Load centre distance	c (mm/in)	600/23.6	600/23.6	600/23.6	600/23.6
Weight	1.9	Wheelbase	y (mm/in)	1369/53.9 ¹⁾	1357/53.4 ¹⁾	1369/53.9 ¹⁾	1357/53.4 ¹⁾
	2.1	Service Weight	kg/lb	726/1600	544/1199	750/1654	564/12434
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU
	3.2	Tyre size, front	mm/in	Φ230x75/Φ9.1x3.0	Φ230x75/Φ9.1x3.0	Φ230x75/Φ9.1x3.0	Φ230x75/Φ9.1x3.0
	3.3	Tyre size, rear	mm/in	Φ85x70/Φ3.3x2.8	Φ85x70/Φ3.3x2.8	Φ85x70/Φ3.3x2.8	Φ85x70/Φ3.3x2.8
	3.4	Additional wheel (dimensions)	mm/in	Φ125x50/Φ4.9x2.0	Φ100x40/Φ3.9x1.6	Φ125x50/Φ4.9x2.0	Φ100x40/Φ3.9x1.6
	3.5	Wheels, number front / rear (x = driven wheels)		1x+2/4	1x+2/4	1x+2/4	1x+2/4
	3.6	Tread, front	b10 (mm/in)	575/22.6	480/18.9	575/22.6	480/18.9
	3.7	Tread, rear	b11 (mm/in)	370/14.6	370/14.6	370/14.6	370/14.6
Dimensions	4.4	Lift	h3 (mm/in)	125/4.9	125/4.9	125/4.9	125/4.9
	4.15	Fork height,lowered	h13 (mm/in)	85/3.35	85/3.35	85/3.35	85/3.35
	4.19	Overall length	l1 (mm/in)	1867/73.5	1781/70.1	1867/73.5	1781/70.1
		Overall length(unfold the pedal)	l1 (mm/in)	2299/90.5		2299/90.5	
	4.21	Overall width	b1(mm/in)	800/31.5	750/29.5	800/31.5	750/29.5
	4.22	Fork dimensions ISO 2331	s/e/l mm(/in)	64/170/1150 (2.5/6.7/45.2)	64/170/1150 (2.5/6.7/45.2)	64/170/1150 (2.5/6.7/45.2)	64/170/1150 (2.5/6.7/45.2)
	4.25	Distance between fork-arms	b5 mm(/in)	540/680 (21.3/26.8)	540/680 (21.3/26.8)	540/680 (21.3/26.8)	540/680 (21.3/26.8)
	4.32	Ground clearance,center of wheelbase	m2 (mm/in)	25/0.98	25/0.98	25/0.98	25/0.98
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm/in)	1997/78.6 ²⁾	1955/77 ²⁾	1997/78.6 ²⁾	1955/77 ²⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm/in)	2047/80.6 ²⁾	2005/78.9 ²⁾	2047/80.6 ²⁾	2005/78.9 ²⁾
Performance data	4.35	Turning radius	Wa mm(/in)	1627/2040 ¹⁾ (64.1/80.3)	1585 ¹⁾ (62.4)	1627/2040 ¹⁾ (64.1/80.3)	1585 ¹⁾ (62.4)
	5.1	Travel speed,laden/unladen	km/h(mph)	9.0/9.5 (5.6/5.9)	6.0/6.0(3.7/3.7)	7.5/9.5(4.7/5.9)	5.0/6.0(3.1/3.7)
	5.2	Lift speed,laden/unladen	m/s (ft/min)	0.047/0.065 (9.3/12.8)	0.047/0.065 (9.3/12.8)	0.036/0.051 (7.1/10.0)	0.036/0.051 (7.1/10.0)
	5.3	Lowering speed,laden/unladen	m/s (ft/min)	0.075/0.070 (14.8/13.8)	0.073/0.070 (14.4/13.8)	0.060/0.055 (11.8/10.8)	0.060/0.055 (11.8/10.8)
Electric engine	5.8	Max.Gradeability,laden/unladen	%	10/16	8/20	8/16	6/20
	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
	6.2	Lift motor rating at S3 15%	kW/hp	2.2/3.0	2.2/3.0	2.2/3.0	2.2/3.0
	6.4	Battery voltage,rated capacity	V/Ah	24/240	24/210	24/280	24/240
		Battery voltage,rated capacity,Optional	V/Ah	~24/340	~24/240	~24/340	~24/240
	8.1	Type of drive control		AC	AC	AC	AC
	9.1	Manufacturer		CURTIS/ZAPI	CURTIS	CURTIS/ZAPI	CURTIS

Note: 1). When fork lowered,+68mm/+2.68in 2). When fork lowered,+40mm/+1.57in
ZAPI controller is as option with model CBD20-AZ3,CBD30-AZ3,CBD20-AZ3S,CBD30-AZ3S





A Series Rider Pallet Truck

with capacities of 2,000 to 3,000kg

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.

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.

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.

Maintenance

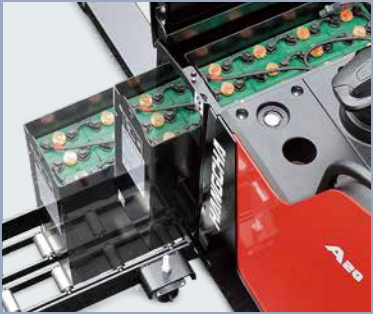
- / AC motor without carbon brushes, maintenance-free, cost saving.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / Full opened hood, easy accessibility of all components, is easy for service.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient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



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

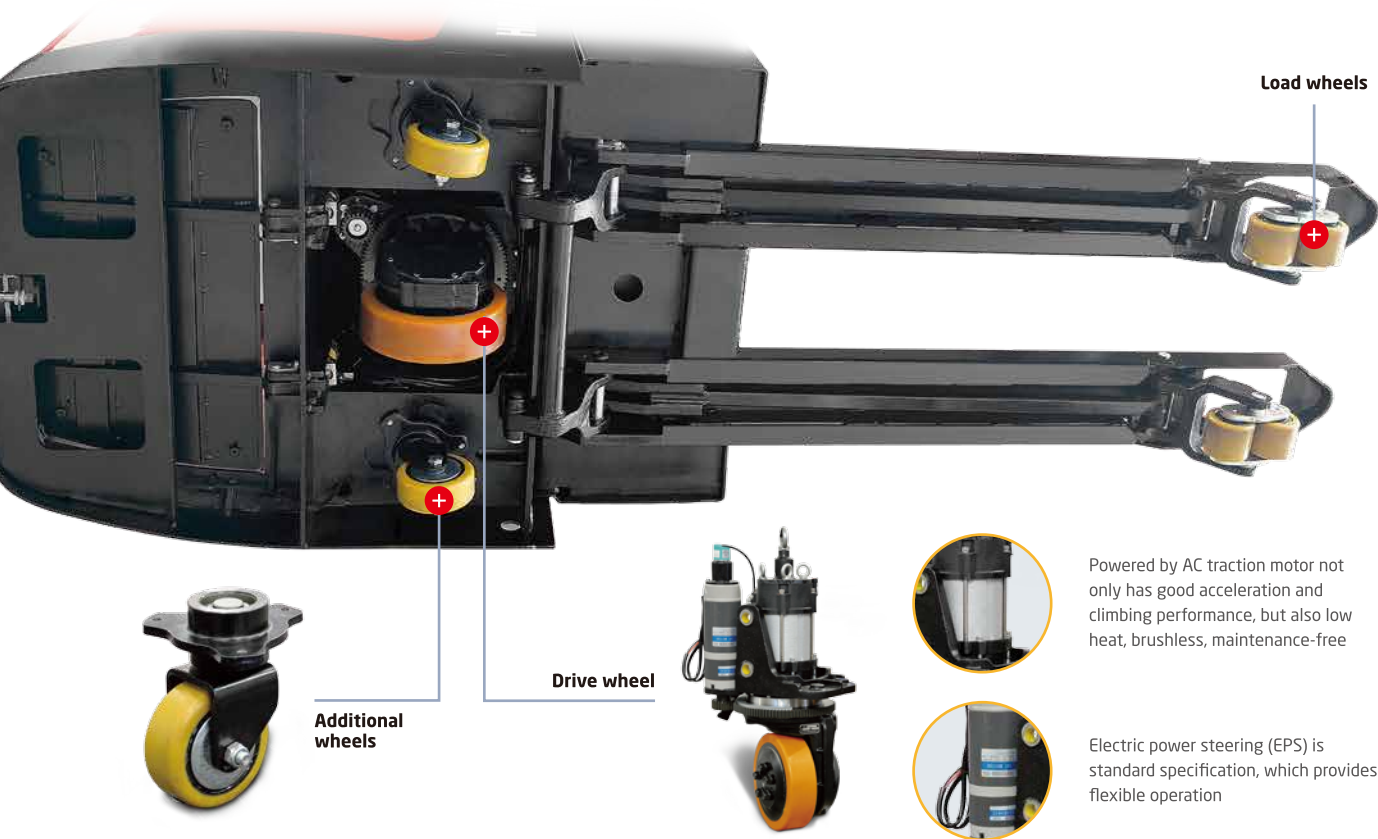


Side battery change is standard feature



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.



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.

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.

Standard Specification

- / AC drive motor
- / AC controller
- / Electric Power Steering (EPS)
- / Emergency switch
- / 1150mm fork length
- / Side battery change
- / Multi-function battery indicator
- / CAN-bus technology
- / 540mm outside fork width
- / Automatic speed reduction when cornering
- / Imported hydraulic unit
- / Brake switch

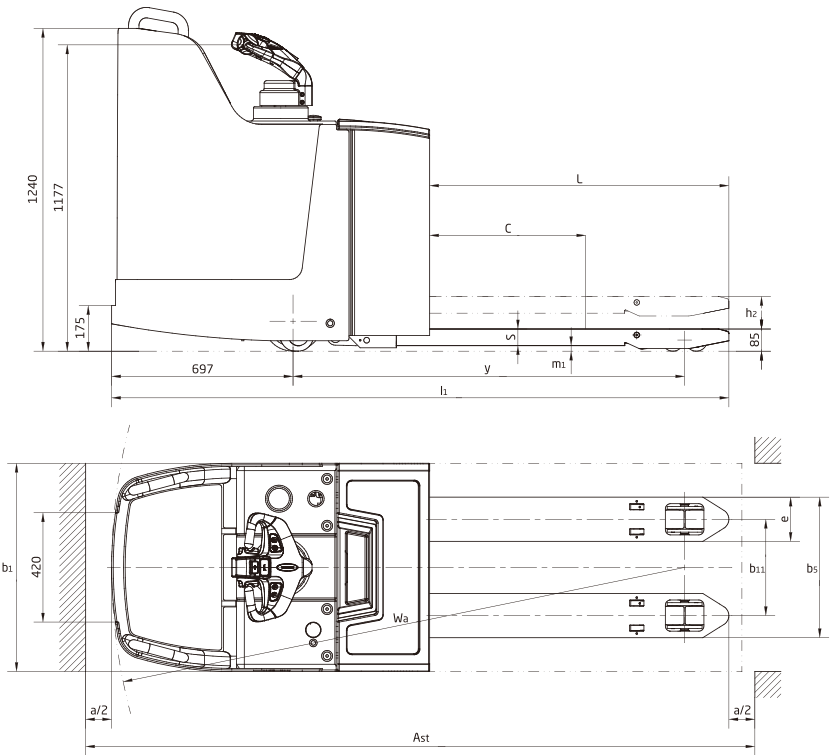
Options

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

A Series Rider Pallet Truck

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation		CBD20-ABC1S-SU CBD20-ABZ3S-SU	CBD20-AC1S-SU CBD20-AZ3S-SU	CBD30-ABC1S-SU CBD30-ABZ3S-SU	CBD30-AC1S-SU CBD30-AZ3S-SU
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Standing	Standing	Standing
	1.5	Rated capacity/rated load	Q (kg)	2000	2000	3000	3000
	1.6	Load centre distance	c (mm)	600	600	600	600
	1.9	Wheelbase	y (mm)	1505	1505	1505	1505
Weight	2.1	Service Weight	kg	825	880	880	920
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU
	3.2	Tyre size, front		Φ85×80	Φ85×80	Φ85×80	Φ85×80
	3.3	Tyre size, rear		Φ230×75	Φ230×75	Φ230×75	Φ230×75
	3.4	Additional wheels (dimensions)		Φ125×50	Φ125×50	Φ125×50	Φ125×50
	3.5	Wheels, number front / rear (x = driven wheels)		1×+2/4	1×+2/4	1×+2/4	1×+2/4
	3.6	Tread, front	b10 (mm)	575	575	575	575
	3.7	Tread, rear	b11 (mm)	370	370	370	370
Dimensions	4.3	Free lift	h2 (mm)	125	125	125	125
	4.19	Overall length	l1 (mm)	2372	2372	2372	2372
	4.21	Overall width	b1 (mm)	800	800	800	800
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	64/170/1150	64/170/1150	64/170/1150	64/170/1150
	4.25	Distance between fork-arms	b5 (mm)	540/680	540/680	540/680	540/680
	4.31	Ground clearance, laden, below mast	m1 (mm)	21	21	21	21
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2504 ¹⁾	2504 ¹⁾	2504 ¹⁾	2504 ¹⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2554 ²⁾	2554 ²⁾	2554 ²⁾	2554 ²⁾
Performance data	4.35	Turning radius	Wa (mm)	2134 ³⁾	2134 ³⁾	2134 ³⁾	2134 ³⁾
	5.1	Travel speed, laden/unladen	km/h	6.5/7.0	9.0/9.5	5.5/7.0	7.5/9.5
	5.2	Lift speed, laden/unladen	m/s	0.047/0.064	0.047/0.064	0.036/0.053	0.036/0.053
	5.3	Lowering speed, laden/unladen	m/s	0.075/0.071	0.075/0.071	0.060/0.058	0.060/0.058
	5.8	Max. gradeability, laden/unladen	%	5/16	8/16	5/16	8/16
Electric engine	5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min	kW	1.5	2.2	1.5	2.2
	6.2	Lift motor rating at S3 15%	kW	DC 2.2	DC 2.2	DC 2.2	DC 2.2
		Steering motor	kW	DC 0.2	DC 0.2	DC 0.2	DC 0.2
	6.4	Battery voltage, nominal capacity K5	V/Ah	24/240	24/280	24/280	24/340
		Battery voltage, rated capacity, Optional	V/Ah	24/~340	24/~340	24/~340	-
	8.1	Type of drive unit		AC traction	AC traction	AC traction	AC traction
	9.1	Manufacturer/Type		CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI	CURTIS/ZAPI
	10.7	Sound pressure level at the driver's seat	dB (A)	≤75	≤75	≤75	≤75

Note: 1). VDI 2198: +430mm 2). VDI 2198: +236mm 3). When fork lowered, +68mm





T Series Premium Range Pallet Truck

with capacities of 2,000kg

Durability

- / Durable frame construction, with integrated welded forks brings the truck high rigidity, and long working life.
- / New butterfly drive controller is more easy for operator.
- / Integrated ZF transmission system, more reliable.

Productivity

- / Compacted chassis design, makes the truck operated in limited spacious.
- / Powerful AC traction motor with Curtis control system.
- / Applied MOSEFET high frequency control.
- / Germany WICKE wheel.
- / Unique steering pivot design, which makes the drive motor suspends during steering.
- / Shock absorber are standard specification for the caster wheel, prolong the truck's working life time.

Ergonomics

- / Tiller is ergonomically designed for Max. driver's comfort.
- / Dual lift/lower button controls allow operation by either hand.
- / Creep speed control button is available.
- / Conductor belt is standard specification.

Serviceability

- / Battery discharge indicator with lifting interrupt as standard specification when 20% battery capacity available and inform the operator of recharge requirement.
- / IP54 environment sealing, which protect the inside componets.
- / Open the back cover, every components are easy to reach.

Standard Specification

- / Poly. Drive wheel and load wheels
- / AC drive motor and control system
- / Emergency cut off switch
- / Combined hydraulic unit
- / LED panel
- / 220Ah battery



Options

- / 900mm, 923mm, 973mm, 1000mm, 1019mm, 1023mm, 1125mm, fork length
- / 520mm, 560mm, 670mm fork distances
- / Tandem load wheel
- / High frequency auto charger



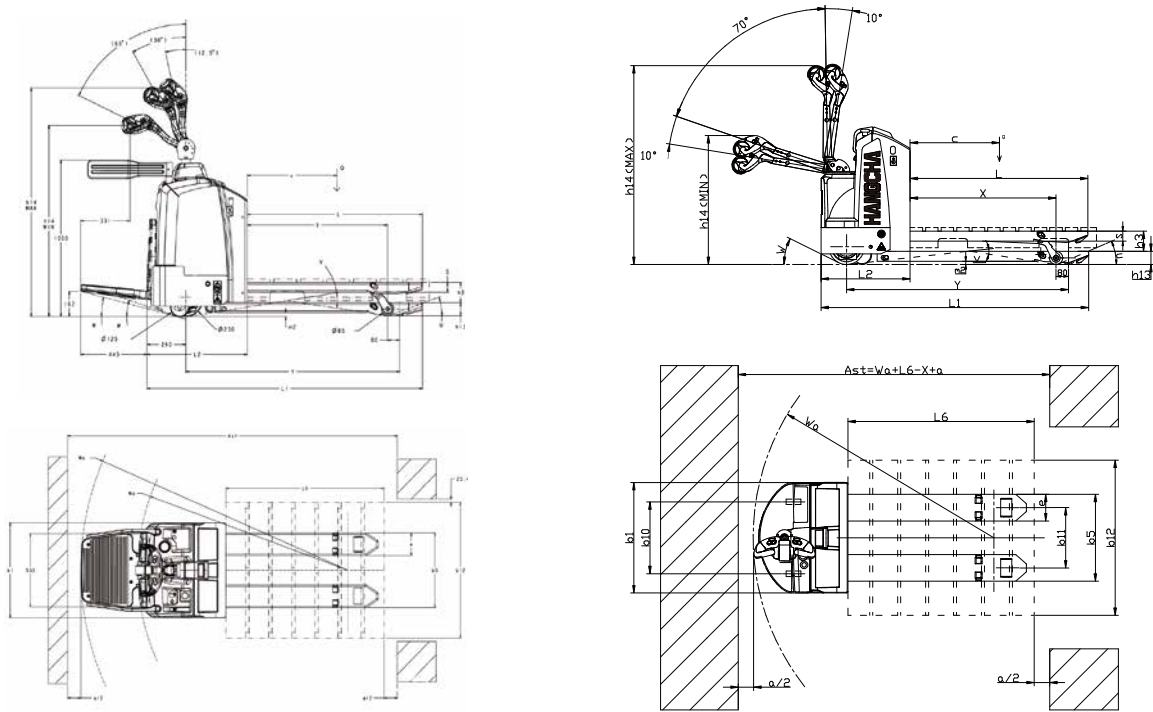
Stand-on

T Series Premium Range Pallet Truck

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	CBD20-TC1	CBD20-TC1	CBD20-TSC1	CBD20-TSC1
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Pedestrian	Pedestrian	Standing	Standing
	1.5	Rated capacity/rated load	Q (kg/lb)	2000/4409	2000/4409	2000/4409
	1.6	Load centre distance	c(mm/in)	587/23.1	586/23.0	587/23.1
	1.8	Load distance, centre of drive axle to fork	x(mm/in)	942/37.0	893/35.2	942/37.0
	1.9	Wheelbase	y(mm/in)	1352/53.2	1304/51.3	1352/53.2
		Wheelbase type		Single load wheels (Long wheelbase)	*Tandem load wheels (short wheelbase)	*Single load wheels (Long wheelbase)
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		poly	poly	poly
	3.2	Tyre size, front	mm/in	Φ250x100 / Φ9.8x3.9	Φ250x100 / Φ9.8x3.9	Φ250x100 / Φ9.8x3.9
	3.3	Tyre size, rear	mm/in	Φ85x110/Φ3.3x4.3	Φ85x95/Φ3.3x3.7	Φ85x110/Φ3.3x4.3
	3.4	Additional wheel (dimensions)	mm/in	Φ100x40/Φ3.9x1.6	Φ100x40/Φ3.9x1.6	Φ125x50/Φ4.9x2.0
	3.5	Wheel number front/rear(x=Drive wheels)		1x+2/2	1x+2/4	1x+2/2
	3.6	Tread, Front	b10 (mm/in)	461/18.1	461/18.1	461/18.1
	3.7	Tread, Rear	b11 (mm/in)	390/15.4	390/15.4	390/15.4
Dimensions	4.4	Lift	h3 (mm/in)	130/5.1	130/5.1	130/5.1
	4.9	Height drawbar in driving position min./max.	h14 mm/(in)	829/1288 (32.6/50.7)	829/1288 (32.6/50.7)	1219/1459 (48.0/57.4)
	4.15	Height, lowered	h13 (mm/in)	83/3.3	83/3.3	83/3.3
	4.19	Overall length (pedal folden/unfolden)	l1 mm/(in)	1751/68.9	1749/68.9	1844/2289 (72.6/90.1)
	4.20	Length to face of forks	l2 (mm/in)	578/22.8	578/22.8	671/26.4
	4.21	Overall width	b1 (mm/in)	712/28.0	712/28.0	712/28.0
	4.22	Fork dimensions ISO 2331	s/e/l mm/(in)	64/170/1173 (2.5/6.7/46.2)	64/170/1171 (2.5/6.7/46.1)	64/170/1173 (2.5/6.7/46.2)
	4.25	Distance between fork-arms	b5 (mm/in)	560/22.0	560/22.0	560/22.0
	4.32	Ground clearance, centre of wheelbase	m2 (mm/in)	21/0.8	21/0.8	21/0.8
	4.34.1	Aisle width for pallets 1000 x 1200 crossways (pedal folden/unfolden)	As1 mm/(in)	1980/78.0	1979/77.9	2050/2488 (80.7/98.0)
	4.34.2	Aisle width for pallets 800 x 1200 lengthways (pedal folden/unfolden)	As1 mm/(in)	2007/79.0	2008/79.1	2077/2515 (81.8/99.0)
	4.35	Turning radius (pedal folden/unfolden)	W9 mm/(in)	1549/61.0	1501/59.1	1619/2057 (63.7/81.0)
Performance data	5.1	Travel speed, laden/unladen	km/h mph	6.0/6.0 3.7/3.7	6.0/6.0 3.7/3.7	6.0/6.0/8.0/8.0 (3.7/3.7/5.0/5.0)
	5.2	Lift speed, laden/unladen	m/s (ft/min)	0.04/0.05 (7.9/9.8)	0.04/0.05 (7.9/9.8)	0.04/0.05 (7.9/9.8)
	5.3	Lowering speed, laden/unladen	m/s (ft/min)	0.09/0.04 (17.7/7.9)	0.09/0.04 (17.7/7.9)	0.09/0.04 (17.7/7.9)
	5.7	Gradeability,laden/unladen	%	10.0/15	10.0/15	10.0/15
		Gradeability(pedestrian)	U/V/W(%)	34/15/38	34/16/38	34/15/29
		Gradeability(Standing)	U/V/W(%)	/	/	34/15/24
	5.8	Max. Gradeability, laden/unladen	%	14.5/20	14.5/20	14.5/20
	5.10	Service brake		Electric	Electric	Electric
Electric engine	6.1	Drive motor rating S2 60 min	kW/hp	1.25/1.7	1.25/1.7	1.7/2.3
	6.2	Lift motor rating at S3 15%	kW/hp	1.2/1.6	1.2/1.6	1.2/1.6
	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		B	B	B
		Battery dimensions	l/b/h(mm/in)	212x624x627 / 8.3x24.6x24.7		283x624x627 / 11.1x24.6x24.7
	6.4	Battery voltage, nominal capacity K5	V/Ah	24/220	24/220	24/330
	6.5	Battery weight	kg/lb	212/467	212/467	312/688
	6.6	Energy consumption acc. to VDI cycle	kWh/h	0.384	0.384	0.43
	10.7	Sound pressure level at the driver's seat	dB(A)	<70	<70	<70

Note:Specifications are subject to change without notice.

* Optional



CBD18-WM

with capacities of 1,800kg



Tiller Arm Controls

- / Travel, lift, and lower functions are located in the ergonomic operator handle. All operator controls are accessible without having to lift the hand from the handle.
- / Angle grips are designed to allow easy operation with either hand. Wrap around guard, reversing switch, thumb control, and horn are standard. Low mounted tiller arm offers excellent operator comfort and minimum steering effort. Gas assisted spring tiller handle gently returns to vertical position when released.
- / Crawl speed function with steer handle at 15° back-tilt from vertical allows for ease of use in tight areas.

Accessibility

- / Water resistant removal three piece power head cover exposes major components and maintenance free AGM batteries for inspection and maintenance.

Hydraulics

- / Lift cylinder has hard chrome plated rods. Pump unit including motor, solenoid, gear pump, and pressure compensated lowering valve are mounted high in the power compartment for ease of service.

Drive Unit

- / Vertically mounted AC drive motor is direct mounted to gear housing. Oil bathed hypoid bevel gear drive train with tapered roller bearings transfers power to axle.
- / State of the art optimized gear technology supplies advantages such as minimal envelope circle, zero maintenance, low noise level, high efficiency and high performance.
- / Electromagnetic brake is mounted on motor armature shaft multiplying. Brake is applied when control arm is in the vertical or horizontal handle position. System features anti-roll back and neutral braking.

Electrical

- / Electric braking, quick disconnect EPD power cut off, key switch and battery discharge indicator are standard equipment.

Standard Specification

- / Battery discharge indicator
- / Key switch
- / Emergency power disconnect
- / Built-in automatic battery charger

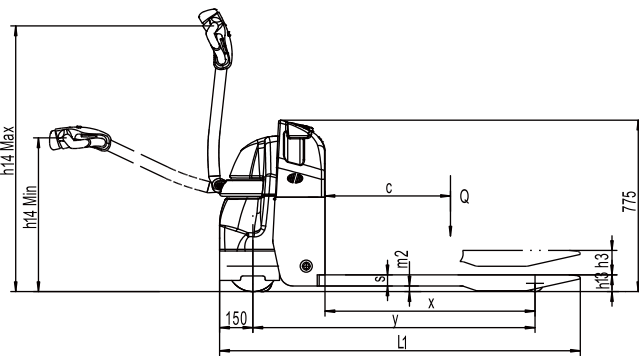
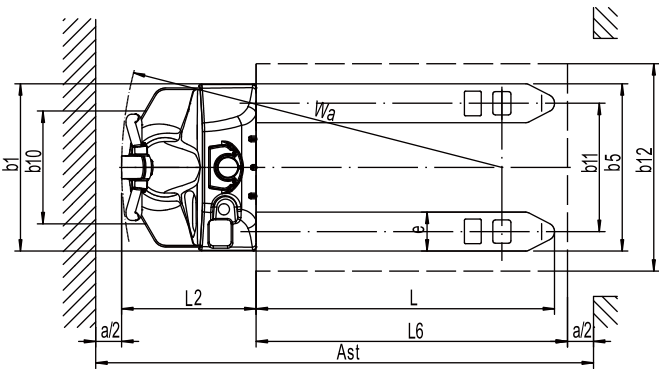
Options

- / Rubber lug drive wheel
- / 1220 tall load backrest
- / Other fork length on inquiry



CBD18-WM

Characteristics	1.1	Manufacture		HANGCHA GROUP CO.,LTD.
	1.2	Manufacturer's type designation		CBD18-WM
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian
	1.5	Rated Load capacity	Q (kg/lb)	1800/3968
Weight	1.6	Load center	C(mm/in)	600/23.6
	1.7	Load distance	x (mm/in)	945/37.2
	1.9	Wheelbase	y (mm/in)	1270/50
Wheels&Tyres	2.1	Service weight (Include battery)	kg/lb	285/628
	2.2	Axle loading, laden driving side/loading side	kg/(lb)	770/1315 (1698/2899)
	2.3	Axle loading, unladen driving side/loading side	kg/(lb)	230/55 (507/121)
	3.1	Tyre type, Driving wheels/Loading wheels		PU/ PU
	3.2	Tyre size, driving wheel	mm/in	Φ230x75 / Φ9.1x3.0
Dimensions	3.3	Tyre size, loading wheel	mm/in	2-Φ74x88(Φ80x60) 2-Φ2.9x3.5(Φ3.1x2.4)
	3.4	Tyre size, caster wheel	mm/in	2-Φ85×48 2-Φ3.3×1.9
	3.5	Wheels, number of driving, caster/loading (x=drive wheel)		1x+2/2/1x+2/4
	3.6	Track width, front, driving side	b1o (mm/in)	435/17.1
	3.7	Track width, rear,loading side	b11 mm/(in)	390/495/535 (15.4/19.5/21.1)
	4.4	Lifting height	h3 (mm/in)	115/4.5
	4.9	Height of tiller in driving position min./max.	h14 mm/(in)	715/1200 (28.1/47.2)
	4.15	Lowered height	h13 (mm/in)	85/3.3
	4.19	Overall length	l1 (mm/in)	1625/64.0
	4.20	Length to face of forks	l2 (mm/in)	475/18.7
	4.21	Overall width	b1/b2 (mm/in)	645/25.4
	4.22	Fork dimensions	s/e/l mm/(in)	50x150x1150 (2.0x5.9x45.3)
	4.25	Distance between fork-arms	bs mm/(in)	540/645/685 21.3/25.4/27.0
	4.32	Ground clearance, center of wheelbase	m2 (mm/in)	35/1.4
	4.34.1	Aisle width for pallet 1000x1200mm crossways	As1 (mm/in)	1720/67.7
Performance	4.34.2	Aisle with for pallet 800x1200 lengthways	As1 (mm/in)	1920/75.6
	4.35	Turning radius	Wa (mm/in)	1465/57.7
	5.1	Travel speed,laden/unladen	km/h mph	5.5/6 3.4/3.7
	5.2	Lifting speed,laden/unladen	m/s (ft/min)	0.051/0.06 (10.0/11.8)
	5.3	Lowering speed,laden/unladen	m/s (ft/min)	0.032/0.039 (6.3/7.7)
Motor&Battery	5.8	Maximum gradeability, S2 5 min.,laden/unladen	%	6/16
	5.1	Service brake		Electromagnetic
	6.1	Drive motor rating S2 60 min	kW/hp	1.1/1.5
	6.2	Lift motor rating at S3 15%	kW/hp	0.84/1.1
	6.3	The maximum allowed size battery	mm/in	269x182x300 10.6x7.2x11.8
		Battery		Maintenance free battery
Others	6.4	Battery voltage/nominal capacity (5h)	V/Ah	2×12/85
	6.5	Battery weight	kg/lb	25×2 / 55×2
	8.1	Type of drive control		AC
	10.5	Steering type		mechanical
	10.7	Sound level at operator's ear	dB(A)	74





Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
	1.2	Manufacturer's type designation		CBD15-W-SE
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Semi-electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		pedestrian
	1.5	Load capacity	Q (kg/lb)	1500/3307
Weight	2.1	Service weight	kg/lb	140/309
Tyres, chassis	3.1	Tyre type		PU
Dimensions	4.4	Lift height	h ₃ (mm/in)	115/4.5
	4.15	Fork lowered	h ₁₃ (mm/in)	85/3.3
	4.19	Overall length	l ₁ (mm/in)	1580/62.2
	4.21	Overall width	b ₁ /b ₂ (mm/in)	560/22.0
	4.22	Fork dimensions	s/e/l mm/(in)	50/150/1150 (2.0/5.9/45.3)
	4.25	Outside fork width	b ₅ mm/(in)	560/685 (22.0/27.0)
	4.34.1	Aisle width,1000×1200 pallet crossways	A _{st} (mm/in)	1697/66.8
	4.34.2	Aisle width,800×1200 pallet lengthways	A _{st} (mm/in)	1697/66.8
	4.35	Outer turing radius	W _a (mm/in)	1380/54.3
Performance data	5.1	Travel speed, laden/unladen	km/h	3.5/4 2.2/2.5
	5.8	Maximum gradeability, laden/ unladen	%	3/6
Electric engine	6.1	Drive motor rating S≥ 60 min	kW	0.65/0.87
	6.4	Battery voltage/rated capacity	V/Ah	24/24





Hand Pallet Truck SBA25

with capacities of 2,500 to 3,500kg

Introduction



- / High reliability, suitable for a variety of environments. It can be used for 3~5 years under normal maintenance.
- / Casting pump, which prevents any loosening and leakage.
- / High-strength alloy steel fork frame.
- / Set the active safety valve to prevent overloading of operation.
- / 54mm fork thickness ensures high capacity.

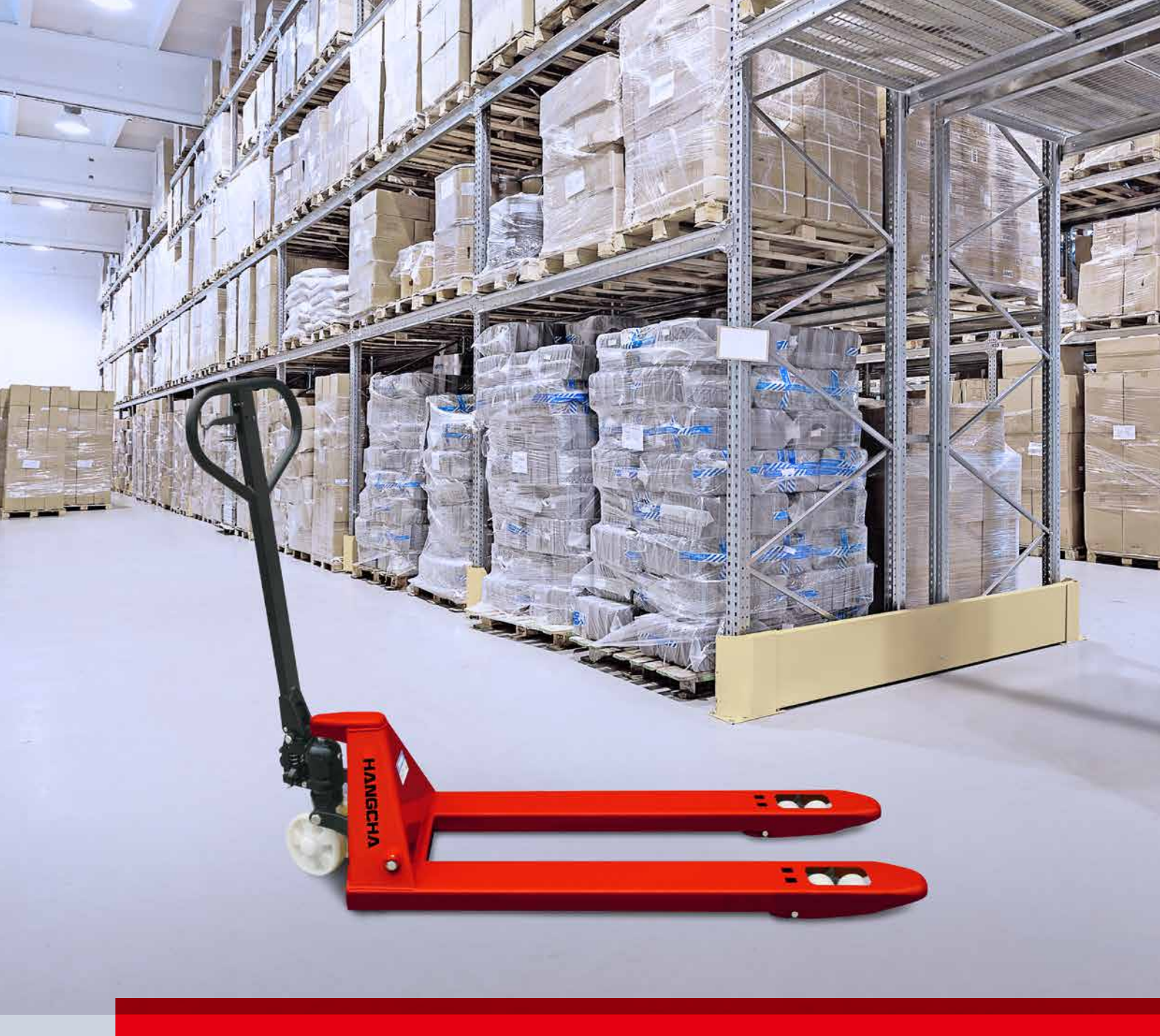
- / Optimized round fork tips ensures easy operation;
- / 54mm fork thickness ensures high capacity;
- / Curve design on the fork tips help pallets entry in/out.



Hand Pallet Truck SBA25

Model		SBA		
Load capacity/rated load	Q (kg/lb)	2500/5512	3000/6614	3500/7716
Load centre distance	C (mm/in)	500/20	500/20	500/20
Wheel size,front	mm/in	Φ180×50 / Φ7×2	Φ180×50 / Φ7×2	Φ180×50 / Φ7×2
Wheel size rear (single)	mm/ (in)	Φ80×93/74×93 (Φ3×3.7/2.9×3.7)	Φ80×93/74×93 (Φ3×3.7/2.9×3.7)	Φ80×93/74×93 (Φ3×3.7/2.9×3.7)
Wheel size rear (tandem)	mm/in	Φ80×70/74×70 (Φ3×2.8/2.9×2.8)	Φ80×70/74×70 (Φ3×2.8/2.9×2.8)	Φ80×70/74×70 (Φ3×2.8/2.9×2.8)
Lifting height	h ₃ mm/(in)	200/190 (7.8/7.5)	200/190 (7.8/7.5)	200/190 (7.8/7.5)
Lowered height	h ₁₃ mm/(in)	85/75 (3.4/3)	85/75 (3.4/3)	85/75 (3.4/3)
Overall length	l ₁ mm/(in)	1534/1604 (60.4/63)	1534/1604 (60.4/63)	1534/1604 (60.4/63)
Fork length	s/e/l mm [in]	54/160/1150(1220) [2.1/6.3/45(48)]	54/160/1150(1220) [2.1/6.3/45(48)]	54/160/1150(1220) [2.1/6.3/45(48)]
Distance between fork-arms	b ₅ mm/(in)	520/550/685 (20/22/27)	520/550/685 (20/22/27)	520/550/685 (20/22/27)
Turning radius	W _a mm/(in)	1249/1319 (49/52)	1249/1319 (49/52)	1249/1319 (49/52)

*: Option
forks length is available at:1600mm/63in, 1800mm/71in, 2000mm/79in, 2200mm/87in, 2500mm/98in



Hand Pallet Truck SBA-D20

with capacities of 2,000kg

Introduction

- / Optimized round fork tips ensure easy operation;
- / 54mm fork thickness ensures high capacity;
- / Curve design on the fork tips help pallets entry in/out.
- / Welding pump, with leaking proof design.
- / With overloading safety valve.
- / Chrome plate piston.
- / Different fork length are available.
- / Option: rubber wheel, nylon wheel, polyurethane wheel.



Lowering position:

Pull up the finger tip control handle to lower the truck.

Neutral position:

Stay the position during move.

Lifting position:

Pull down the tip control, press the handle to raise the truck.



Hand Pallet Truck SBA-D20

Model		SBA-D20
Load capacity/rated load	Q(kg/lb)	2000/4409
Load centre distance	c (mm/in)	500/20
Net weight	kg/lb	55-65 / 121-143
Wheel size,front	mm/in	Φ160×50 / Φ6×2
Wheel size rear	mm/in	Φ70×60 / Φ2.7×2.4
Lifting height	h ₃ (mm/in)	190/7.5
Height of tiller in drive position min./max.	h ₁₄ (mm/in)	1234/1224 (48.6/48)
Lowered height	h ₁₃ (mm/in)	75/3
Fork dimensions	s/e/l (mm/in)	54/150/1150(1220) [2.1/6/45(48)]
Distance between fork-arms	b ₅ (mm/in)	520/550/685 (20/22/27)
Aisle width for pallets 1000×1200 crossways	A _{st} (mm/in)	1730/1800 / (68/71)
Aisle width for pallets 800×1200 crossways	A _{st} (mm/in)	1780/1800 / (70/71)

*: Option

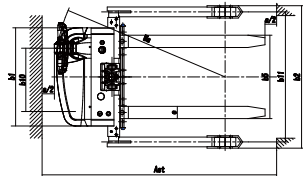
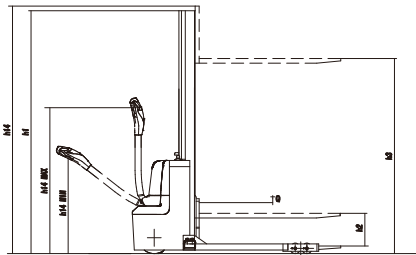
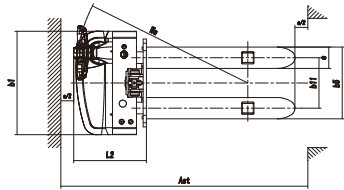
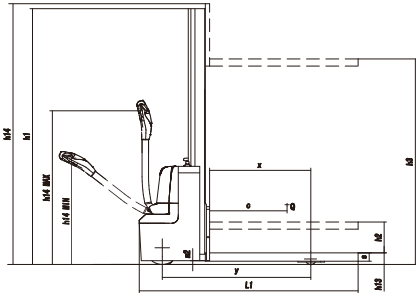


A Series Pallet Stacker Mini Range (single column)

with capacities of 1,000 to 1,200kg

1.0/1.2t Mini Range Pallet Stacker Single Column 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	
						1.0t/2205lb	1.2t/2646lb
Single cylinder Single mast	mm/in	mm/in	mm/in	mm/in	mm/in	Kg/lb	Kg/lb
	1500/59.1	1585/59.1	1979/62.4	1986/77.9	1493/58.8	1000/2205	1200/2646
	1750/68.9	1835/68.9	2229/72.2	2236/87.8	1743/68.6	1000/2205	1200/2646
	2000/78.7	2085/78.7	2479/82.1	2486/97.6	1993/78.5	1000/2205	1200/2646



High Performance

- / Strong power to satisfy most applications of material handling.
- / Latest permanent magnetic system including motor and controller applied to provide excellent, efficient performance.
- / Regenerative brake and slope anti-slide function are offered by this truck.

Reliability

- / CDD: The adopted four-pivot design to provide reasonable driving wheel balance and good visibility and reliability.
- / The applied lifting system with optimized design is more stable and reliable.
- / Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing.
- / Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.

Standard Specification

- / Horn
- / PU drive wheel
- / Internal charger
- / Multi-function tiller
- / Tandem load wheels
- / 1150mm fork length
- / Hydraulic power unit
- / Maintenance free battery
- / 560mm outside fork width
- / Permanent magnetic motor
- / Emergency disconnect switch
- / CURTIS permanent magnetic controller
- / 1.5m standard mast

Comfort

- / Simple and beautiful tiller designed to operate all functions easily even by one hand.
- / Optimized design to offer a good visibility and easy entrance of the pallet.
- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / Compact size to offer smart operations and pass of narrow aisle.

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 in emergent situations when driving in reverse.
- / The standard equipped electronic lifting limitation and soft landing system protect working motor and loads from damaging.

Options

- / Load backrest
- / 1220mm fork length
- / 680mm outside fork width
- / Cold store protection(-30 C)
- / 2m mast

A Series Pallet Stacker Mini Range-Single Column

Distinguishing mark	1.1 Manufacturer	1.2 Manufacturer's type designation	HANGCHA GROUP CO.,LTD.			
			CDD10-AMC1	CDD12-AMC1	CDD10-AMC1-B	CDD12-AMC1-B
Weight	1.4 Operator type: hand, pedestrian, standing, seated, order-picker	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian
	1.5 Rated capacity/rated load	Q (kg/lb)	1000/2205	1000/2205	1200/2646	1200/2646
	1.6 Load centre distance	c (mm/in)	600/23.6	600/23.6	600/23.6	600/23.6
	1.9 Wheelbase	y (mm/in)	1197.5/47.1	1197.5/47.1	1197.5/47.1	1197.5/47.1
	2.1 Service Weight	kg/lb	500/1102	500/1102	500/1102	500/1102
Tyres, chassis	3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU
	3.2 Tyre size, front	mm/in	φ250/9.8x80/3.1	φ250/9.8x80/3.1	φ250/9.8x80/3.1	φ250/9.8x80/3.1
	3.3 Tyre size, rear	mm/in	φ85/3.3x70/2.8	φ85/3.3x70/2.8	φ85/3.3x70/2.8	φ85/3.3x70/2.8
	3.4 Additional wheel (dimensions)	mm/in	φ125/4.9x50/2	φ125/4.9x50/2	φ125/4.9x50/2	φ125/4.9x50/2
	3.5 Wheels, number front / rear (x = driven wheels)		1x+1/4	1x+1/4	1x+1/4	1x+1/4
	3.6 Tread, front	b ₁₀ (mm/in)	520/20.5	520/20.5	520/20.5	520/20.5
	3.7 Tread, rear	b ₁₁ (mm/in)	390/15.4	390/15.4	1060/1170/1370 (39.4/46.1/53.9)	1060/1170/1370 (39.4/46.1/53.9)
Dimensions	4.4 Lift	h ₃ (mm/in)	1500/59.1	1500/59.1	1500/59.1	1500/59.1
	4.15 Fork height,lowered	h ₁₃ (mm/in)	85/3.3	85/3.3	85/3.3	85/3.3
	4.19 Overall length	l ₁ (mm/in)	1695/66.7	1695/66.7	1695/66.7	1695/66.7
	4.21 Overall width	b ₁ (mm/in)	800/31.5	800/31.5	1160/1270/1470 (45.7/50/57.9)	1160/1270/1470 (45.7/50/57.9)
	4.22 Fork dimensions ISO 2331	s/e/l mm(in)	60/170/1150 (2.4/6.7/45.3)	60/170/1150 (2.4/6.7/45.3)	35/100/1070 (1.4/6.7/42.1)	35/100/1070 (1.4/6.7/42.1)
	4.25 Distance between fork-arms	b ₅ (mm/in)	560/22.0	560/22.0	210-790/8.3-31.1	210-790/8.3-31.1
	4.32 Ground clearance, centre of wheelbase	m ₂ (mm/in)	35/1.4	35/1.4	35/1.4	35/1.4
	4.34.1 Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2002/78.8	2002/78.8	2002/78.8	2002/78.8
	4.34.2 Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2052/80.8	2052/80.8	2052/80.8	2052/80.8
	4.35 Turning radius	W _a (mm/in)	1422/56.0	1422/56.0	1422/56.0	1422/56.0
	5.1 Travel speed,laden/unladen	km/h mph	4.2/4.5 2.6/2.8	4.2/4.5 2.6/2.8	4.2/4.5 2.6/2.8	4.2/4.5 2.6/2.8
	5.2 Lift speed,laden/unladen	m/s (ft/min)	0.140/0.230 (27.6/45.3)	0.120/0.230 (23.6/45.3)	0.140/0.230 (27.6/45.3)	0.120/0.230 (23.6/45.3)
	5.3 Lowering speed,laden/unladen	m/s (ft/min)	0.180/0.170 (35.4/33.5)	0.180/0.170 (35.4/33.5)	0.180/0.170 (35.4/33.5)	0.180/0.170 (35.4/33.5)
Performance data	5.8 Max Gradeability,laden/unladen	%	6/10	6/10	6/10	6/10
	6.1 Drive motor rating S2 60 min	kW/hp	0.7/0.94	0.7/0.94	0.7/0.94	0.7/0.94
	6.2 Lift motor rating at S3 15%	kW/hp	2.2/2.95	2.2/2.95	2.2/2.95	2.2/2.95
	6.4 Battery voltage,rated capacity	V/Ah	2x12/70	2x12/70	2x12/70	2x12/70
Electric engine	8.1 Type of drive control		DC	DC	DC	DC
	9.1 Manufacturer		Curtis	Curtis	Curtis	Curtis



A Series Pallet Stacker Mini Range (Double column) with capacities of 1,000 to 1,200kg

The A series mini range pallet stacker (double column) has been engineered to be both powerful and flexible to meet the requirements of many demanding applications. Whether it's supermarket work, delivery service, stock replenishment or heavy manu- facturing, it has the strength and durability to minimise your total cost of ownership.

Appearance

- / A series mini range pallet stacker (double column) 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, which is robust, durable, and also environmental compliance.

High Performance

- / Rated capacity 1000/1200kg, meet the needs of the majority of customers.
- / Powered by traction motor not only has good acceleration and perfect performance, but also low heat.
- / Latest CURTIS permanent magnet control system, precise and smooth.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.
- / All key parts such as tiller, switches, connectors, battery indicator and hour meter all adopt the famous brand.

Reliability

- / High strength steel frame structure chassis provide larger residual load capability and longer working life.
- / 4-pivot design provide reasonable load distribution, and the good wheel grip ensuring excellent stability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / The hydraulic unit and the chassis adopt flexible connection, can absorb vibration from the uneven road.
- / Punch formed forks to provide more strength and tip guide to provide higher efficient operation.

Comfort

- / Built-in charger and maintenance free gel battery adopted to provide convenient usage.
- / The compact body and semicircular design provide an ideal operation in limited space.



Fully opened hood, easy accessibility of all components, is easy for service



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



Built-in charger and maintenance free gel battery, you don't need to worry about them



Simple and beautiful tiller designed to improve the operator's driving comfort



Safety

- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / 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.

Maintenance

- / Integrated battery indicator, hour meter and self-diagnostic instrument.
- / All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.
- / Dismantle the additional wheel don't need to lift the truck.



Standard Specification

- / Permanent magnet drive motor

/ CURTIS permanent magnet controller

/ Hydraulic unit

/ Emergency switch

/ Multi-function battery indicator

/ PU wheel
- / 1150mm fork length

/ 560mm outside fork width

/ Tiller

/ Horn

/ Maintenance free battery

/ Internal charger

Options

- / Mast lift height:2000-3600mm

/ 1220/1400mm fork length

/ 680mm outside fork width
- / Cold store protection(-30 C)

/ Load backrest

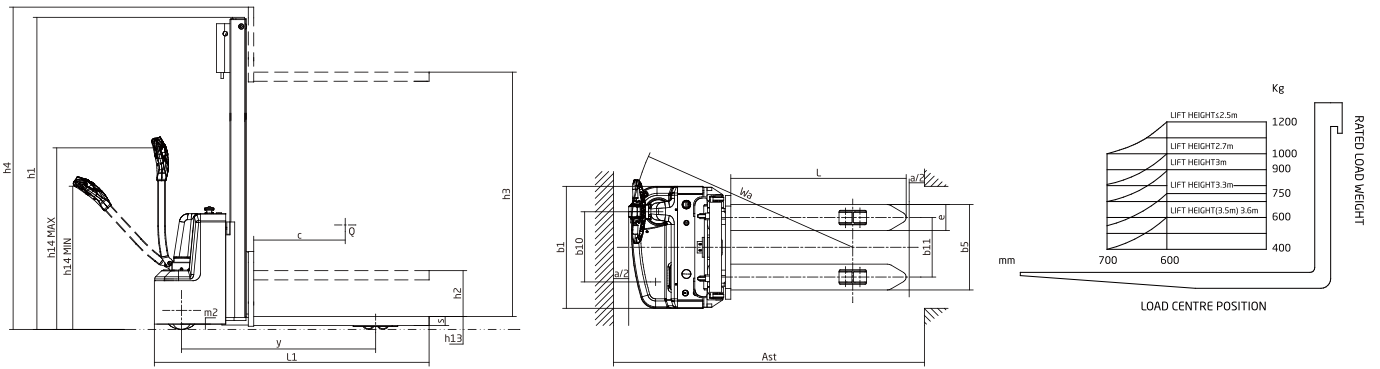
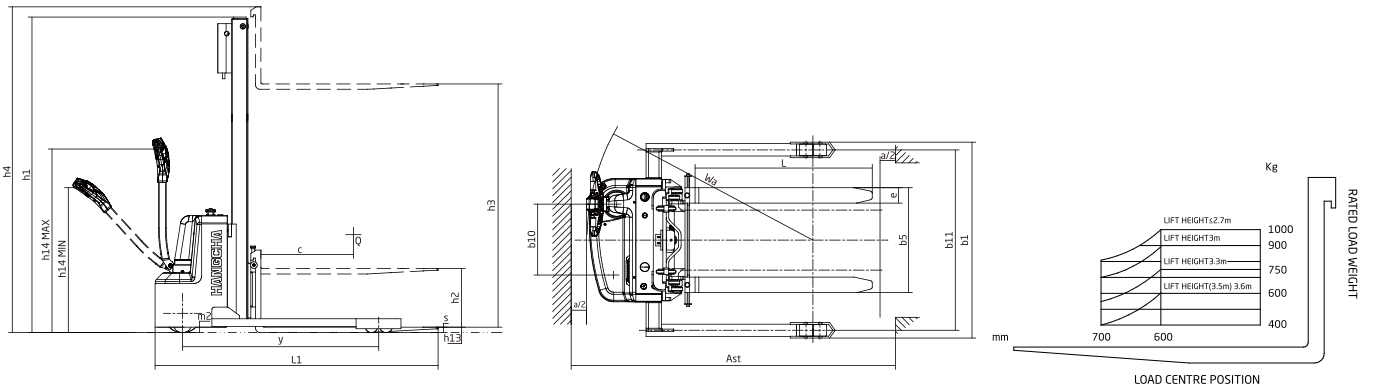
1.0/1.2t Mini Range Pallet Stacker Double Column Specification:

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	
						1.0t/2205lb Kg/lb	1.2t/2646lb Kg/lb
Single cylinder duplex mast	2000/78.7	2085/2050 (82.1/80.7)	1545/60.8	2545/100.2	0	1000/2205	1200/2646
	2500/98.4	2585/2550 (101.8/100.4)	1795/70.7	3045/119.9	0	1000/2205	1200/2646
	2700/106.3	2785/2750 (109.6/108.3)	1895/74.6	3245/127.7	0	1000/2205	1200/2646
	3000/118.1	3085/3050 (121.5/120.1)	2045/80.5	3545/139.6	0	900/1984	900/1984
	3300/129.9	3385/3350 (133.3/131.9)	2195/86.4	3845/151.4	0	750/1654	750/1654
	3500/137.8	3585/3550 (141.1/139.8)	2295/90.4	4045/159.3	0	600/1323	600/1323
	3600/141.7	3685/3650 (145.1/143.7)	2345/92.3	4145/163.2	0	600/1323	600/1323

A Series Pallet Stacker Mini Range-Double Column

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation		CDD10-AMC1-SZ	CDD10-AMC1-B/SZ	CDD12-AMC1-SZ	CDD12-AMC1-B/SZ
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian	Pedestrian	Pedestrian	Pedestrian
	1.5	Rated capacity/rated load	Q (kg/lb)	1000/2205	1000/2205	1200/2646	1200/2646
	1.6	Load centre distance	c (mm/in)	600/23.6	600/23.6	600/23.6	600/23.6
Weight	1.9	Wheelbase	y (mm/in)	1273/50.1	1273/50.1	1273/50.1	1273/50.1
	2.1	Service Weight(Including battery)	kg/lb	744/1640	744/1640	744/1640	744/1640
Tyres, chassis		Battery weight	kg/lb	66/146	66/146	66/146	66/146
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU	PU
	3.2	Tyre size, front	mm/in	Φ250x80 / Φ9.8x3.1	Φ250x80 / Φ9.8x3.1	Φ250x80 / Φ9.8x3.1	Φ250x80 / Φ9.8x3.1
	3.3	Tyre size, rear	mm/in	Φ85x70 / Φ3.3x2.8	Φ85x70 / Φ3.3x2.8	Φ85x70 / Φ3.3x2.8	Φ85x70 / Φ3.3x2.8
	3.4	Additional wheel (dimensions)	mm/in	Φ125x50 / Φ4.9x2	Φ125x50 / Φ4.9x2	Φ125x50 / Φ4.9x2	Φ125x50 / Φ4.9x2
	3.5	Wheels, number front / rear (x = driven wheels)		1x+1/4	1x+1/4	1x+1/4	1x+1/4
	3.6	Tread, front	b ₁₀ (mm/in)	520/20.5	520/20.5	520/20.5	520/20.5
Dimensions	3.7	Tread, rear	b ₁₁ mm / (in)	390 / (15.4)	1000/1170/1370 (39.4/46.1/53.9)	390 / (15.4)	1000/1170/1370 (39.4/46.1/53.9)
	4.4	Lift	h ₃ (mm/in)	3000/118.1	3000/118.1	3000/118.1	3000/118.1
	4.9	Height drawbar in driving position min./max.	h ₁₄ mm / (in)	720/1220 (28.3/48)	720/1220 (28.3/48)	720/1220 (28.3/48)	720/1220 (28.3/48)
	4.15	Fork height,lowered	h ₁₃ (mm/in)	85/3.3	85/3.3	85/3.3	85/3.3
	4.19	Overall length(folded pedal)	l ₁ (mm/in)	1800/70.9	1836/72.3	1800/70.9	1836/72.3
	4.21	Overall width	b ₁ mm / (in)	800 / (31.5)	1100/1270/1470 (43.3/50/57.9)	800 / (31.5)	1100/1270/1470 (43.3/50/57.9)
	4.22	Fork dimensions	s/e/l mm / (in)	60/170/1150 (2.4/6.7/45.3)	35/100/1070 (1.4/6.7/42.1)	60/170/1150 (2.4/6.7/45.3)	35/100/1070 (1.4/6.7/42.1)
	4.25	Distance between fork-arms	b ₅ mm/(in)	560/22	210-790 (8.3~31.1)	560/22	210-790 (8.3~31.1)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm/in)	35/1.4	35/1.4	35/1.4	35/1.4
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2016/79.4 ¹⁾	1901/74.8 ³⁾	2016/79.4 ¹⁾	1901/74.8 ³⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2066/81.3 ²⁾	2101/82.7 ⁴⁾	2066/81.3 ²⁾	2101 ⁴⁾
	4.35	Turning radius	W _a (mm/in)	1466/57.7	1466/57.7	1466/57.7	1466/57.7
Performance data	5.1	Travel speed,laden/unladen	km/h (mph)	4.0/4.5 (2.5/2.8)	4.0/4.5 (2.5/2.8)	4.0/4.5 (2.5/2.8)	4.0/4.5 (2.5/2.8)
	5.2	Lift speed,laden/unladen	m/s (ft/min)	0.120/0.190 (23.62/37.40)	0.120/0.190 (23.62/37.40)	0.120/0.190 (23.62/37.40)	0.120/0.190 (23.62/37.40)
	5.3	Lowering speed,laden/unladen	m/s (ft/min)	0.140/0.150 (27.56/25.53)	0.140/0.150 (27.56/25.53)	0.140/0.150 (27.56/25.53)	0.140/0.150 (27.56/25.53)
	5.8	Max Gradeability,laden/unladen	%	6/10	6/10	5/10	5/10
Electric engine	6.1	Drive motor rating S2 60 min	kW/hp	0.7/0.94	0.7/0.94	0.7/0.94	0.7/0.94
	6.2	Lift motor rating at S3 15%	kW/hp	2.2/2.95	2.2/2.95	2.2/2.95	2.2/2.95
	6.4	Battery voltage,rated capacity	V/Ah	2x12/106	2x12/106	2x12/106	2x12/106
	8.1	Type of drive control		DC	DC	DC	DC
	9.1	Manufacturer		Curtis	Curtis	Curtis	Curtis

Note: 1). VDI 2198: +282/11.1mm/in 2). VDI 2198: +166/6.5mm/in 3). VDI 2198: +409/16.1mm/in 4). VDI 2198: +156/6.1mm/in





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	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.											
	1.2	Manufacturer's type designation		CDD12-AEC1S	CDD12-AEC1	CDD14-AEC1S	CDD14-AEC1	CDD16-AEC1S	CDD16-AEC1	CDD12-AEC1S-B	CDD12-AEC1-B	CDD14-AEC1S-B	CDD14-AEC1-B	CDD16-AEC1S-B	CDD16-AEC1-B
	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	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	φ250×80/9.8×3.1	φ250×80/9.8×3.1
	3.3	Tyre size, rear	mm/in	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8	φ85×70/3.3x2.8
	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	φ125×50/4.9×2	φ125×50/4.9×2
	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	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+2/4	1x+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)
Dimensions	4.4	Lift	h ₃ (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 ₁₁ (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(96.8)	2013 ²⁾ /79.3	2063 ²⁾ (2495 ²⁾ /81.2(96.8)	2013 ²⁾ /79.3	2063 ²⁾ (2495 ²⁾ /81.2(96.8)	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 ₅ (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 ²⁾ /89.8	2220 ²⁾ /87.4	2280 ²⁾ /89.8	2220 ²⁾ /87.4	2280 ²⁾ /89.8	2220 ²⁾ /87.4	2310 ²⁾ /90.9	2250 ²⁾ /88.6	2310 ²⁾ /90.9	2250 ²⁾ /88.6	2310 ²⁾ /90.9	2250 ²⁾ /88.6
	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	2360 ²⁾ /92.9	2300 ²⁾ /90.6	2360 ²⁾ /92.9	2300 ²⁾ /90.6	2360 ²⁾ /92.9	2300 ²⁾ /90.6
	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	1630 ¹⁾ /64.2	1570 ¹⁾ /61.8	1630 ¹⁾ /64.2	1570 ¹⁾ /61.8	1630 ¹⁾ /64.2	1570 ¹⁾ /61.8
Performance data	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)
	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		Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic	Eletromagnetic
Electric engine	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
	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/2646lb	1.4t/3086lb	1.6t/3527lb
	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	3853151.2	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	1600/3527
	3000/118.1	3090/121.7	2042/80.4	3542/139.4	90/3.5	1200/2646	1400/3086	1600/3527
	3300/129.9	3390/133.5	2192/86.3	3842/151.3	90/3.5	1200/2646	1200/2646	1300/2866
	3500/137.8	3590/141.3	229290.2	4042/159.1	90/3.5	1070/2359	1070/2359	1130/2491
	3600/141.7	3690/145.3	2342/92.2	4142/163.1	90/3.5	1000/2205	1000/2205	1050/2315
Duplex full-free wide view	3800/149.6	3890/153.1	2442/96.1	4342/170.9	90/3.5	920/2028	920/2028	970/2139
	4000/157.5	4090/161.0	2642/104.0	4642/182.8	90/3.5	850/1874	850/1874	900/1984
	4300/169.3	4390/172.8	2792/109.9	4942/194.6	90/3.5	770/1698	770/1698	810/1786
	4500/177.2	4590/180.7	2892/113.9	5142/202.4	90/3.5	680/14998	680/14998	710/1565
	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	1600/3527
Triplex full-free wide view	3000/118.1	3090/121.7	2095/82.5	3595/141.5	1590/62.6	1200/2646	1400/3086	1600/3527
	3300/129.9	3390/133.5	2245/88.4	3895/153.3	1740/68.5	1200/2646	1200/2646	1300/2866
	3500/137.8	3590/141.3	2345/92.3	4095/161.2	1840/72.4	1070/2359	1070/2359	1130/2491
	3600/141.7	3690/145.3	2395/94.3	4195/165.2	1890/74.4	1000/2205	1000/2205	1050/2315
	3500/137.8	3590/141.3	1844/72.6	4214/165.9	1220/48.0	1070/2359	1070/2359	1130/2491
	3600/141.7	3690/145.3	1909/75.2	4409/173.6	1290/50.8	960/2116	960/2116	1010/2227
	3800/149.6	3890/153.1	2009/79.1	4709/185.4	1390/54.7	850/1874	850/1874	900/1984
	4000/157.5	4090/161.0	2109/83.0	5009/197.2	1490/58.7	770/1698	770/1698	810/1786
	4300/169.3	4390/172.8	2159/85.0	5159/203.1	1590/62.6	680/1499	680/1499	710/1565
	4500/177.2	4590/180.7	2259/88.9	5459/214.9	1590/62.6	600/1323	600/1323	630/1389

Note:The mast which h3>4500mm(177.2in)(include 4500mm)only suitable for the pallet stacker (outside fork width b



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

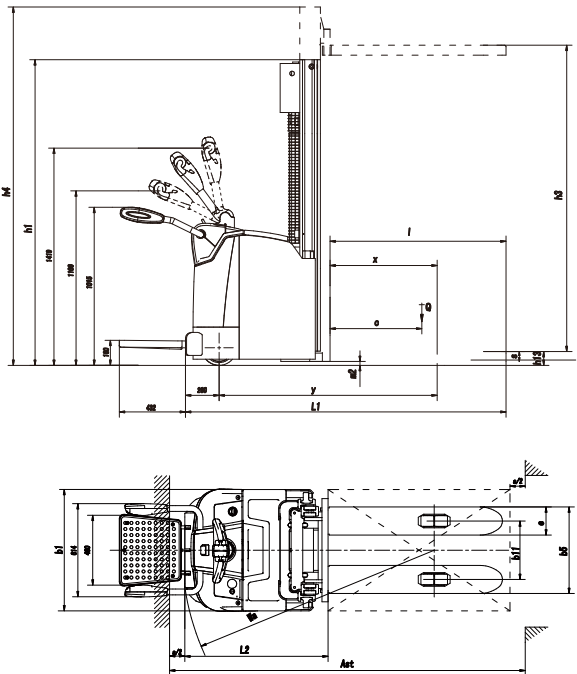
Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.																
	1.2	Manufacturer's type designation		CDD12-AC1S CDD12-AZ3S	CDD12-AC1 CDD12-AZ3	CDD14-AC1S CDD14-AZ3S	CDD14-AC1 CDD14-AZ3	CDD16-AC1S CDD16-AZ3S	CDD16-AC1 CDD16-AZ3		CDD20-AC1S CDD20-AZ3S	CDD20-AC1 CDD20-AZ3	CDD12-AC1S-B CDD12-AZ3S-B	CDD12-AC1-B CDD12-AZ3-B	CDD14-AC1S-B CDD14-AZ3S-B	CDD14-AC1-B CDD14-AZ3-B	CDD16-AC1S-B CDD16-AZ3S-B	CDD16-AC1-B CDD16-AZ3-B	CDD20-AC1S-B CDD20-AZ3S-B	CDD20-AC1-B CDD20-AZ3-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
Tyres, chassis	3.2	Tyre size, front	mm/in	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0		ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0	ø230x75 / ø9.1x3.0
	3.3	Tyre size, rear	mm/in	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8		ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8	ø85x70 / ø3.3x2.8
	3.4	Additional wheel (dimensions)	mm/in	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2		ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2	ø140x55 / ø5.5x2.2
	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 ₁₀ (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
	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		385/15.2	385/15.2	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)	1000/1170/1370 (39.446.1/53.9)
	Dimensions	4.4	Lift	h ₂ (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
4.15		Fork height,lowered	h ₁₃ (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	50/2.0	50/2.0	50/2.0	50/2.0	50/2.0	50/2.0	50/2.0	50/2.0
4.19		Overall length	l ₁ (mm/in)	2095/82.5 ¹⁾	2050/80.7 ¹⁾	2095/82.5 ¹⁾	2050/80.7 ¹⁾	2095/82.5 ¹⁾	2050/80.7 ¹⁾		2095/82.5 ¹⁾	2050/80.7 ¹⁾	2050/80.7 ¹⁾	2005/78.9 ¹⁾	2050/80.7 ¹⁾	2005/78.9 ¹⁾	2050/80.7 ¹⁾	2005/78.9 ¹⁾	2050/80.7 ¹⁾	2005/78.9 ¹⁾
		Overall length(unfold the pedal)	l ₁ (mm/in)	2527/99.5 ¹⁾		2527/99.5 ¹⁾		2527/99.5 ¹⁾			2527/99.5 ¹⁾		2482/97.7 ¹⁾		2482/97.7 ¹⁾		2482/97.7 ¹⁾		2482/97.7 ¹⁾	
4.21		Overall width	b ₁ (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	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)	1100/1270/1470 (43.3/50.5/57.9)
4.22		Fork dimensions ISO 2331	s/e/l mm/(in)	65/185/1150 (2.6/7.3/42.3)	65/185/1150 (2.6/7.3/42.3)	65/185/1150 (2.6/7.3/42.3)	65/185/1150 (2.6/7.3/42.3)	65/185/1150 (2.6/7.3/42.3)	65/185/1150 (2.6/7.3/42.3)		65/185/1150 (2.6/7.3/42.3)	65/185/1150 (2.6/7.3/42.3)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	40/122/1070 (1.4/3.9/42.1)	40/122/1070 (1.4/3.9/42.1)
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)		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)	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		25/1.0	25/1.0	40/1.6	40/1.6	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)	2312/91 ¹⁾	2318/91.3 ¹⁾	2312/91 ¹⁾	2318/91.3 ¹⁾	2312/91 ¹⁾	2318/91.3 ¹⁾		2312/91 ¹⁾	2318/91.3 ¹⁾	2342/92.2 ¹⁾	2348/92.4 ¹⁾	2342/92.2 ¹⁾	2348/92.4 ¹⁾	2342/92.2 ¹⁾	2348/92.4 ¹⁾	2342/92.2 ¹⁾	2348/92.4 ¹⁾
4.34.2		Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2362/93 ¹⁾	2368/93.2 ¹⁾	2362/93 ¹⁾	2368/93.2 ¹⁾	2362/93 ¹⁾	2368/93.2 ¹⁾		2362/93 ¹⁾	2368/93.2 ¹⁾	2392/94.2 ¹⁾	2398/94.4 ¹⁾	2392/94.2 ¹⁾	2398/94.4 ¹⁾	2392/94.2 ¹⁾	2398/94.4 ¹⁾	2392/94.2 ¹⁾	2398/94.4 ¹⁾
4.35		Turning radius	W _a (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)	5.0/6.0 (3.1/3.7)		7.0/7.0 (4.3/4.3)	5.0/6.0 (3.1/3.7)	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)	5.0/6.0 (3.1/3.7)	7.0/7.0 (4.3/4.3)	5.0/6.0 (3.1/3.7)	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)	0.129/0.198 (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)
	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	8/16	5/16	8/16	5/16
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	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
	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/+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



1.2-1.6t Hi 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/23.6inch		
						1.2t/2646lb	1.4t/3086lb	1.6t/3527lb
Double cylinder duplex wide view	mm/in	mm/in	mm/in	mm/in	mm/in	Kg/lb	Kg/lb	Kg/lb
	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	1600/3527
	3000/118.1	3090/121.7	2042/80.4	3542/139.4	90/3.5	1200/2646	1400/3086	1600/3527
	3300/129.9	3390/133.5	2192/86.3	3842/151.3	90/3.5	1200/2646	1200/2646	1300/2866
	3500/137.8	3590/141.3	2292/90.2	4042/159.1	90/3.5	1070/2359	1070/2359	1130/2491
	3600/141.7	3690/145.3	2342/92.2	4142/163.1	90/3.5	1000/2205	1000/2205	1050/2315
	3800/149.6	3890/153.1	2442/96.1	4342/170.9	90/3.5	920/2028	920/2028	970/2139
	4000/157.5	4090/161.0	2642/104.0	4642/182.8	90/3.5	850/1874	850/1874	900/1984
Duplex full-free wide view	4300/169.3	4390/172.8	2792/109.9	4942/194.6	90/3.5	770/1698	770/1698	810/1786
	4500/177.2	4590/180.7	2892/113.9	5142/202.4	90/3.5	680/1499	680/1499	710/1565
	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	1600/3527
	3000/118.1	3090/121.7	2095/82.5	3595/141.5	1590/62.6	1200/2646	1400/3086	1600/3527
	3300/129.9	3390/133.5	2245/88.4	3895/153.3	1740/68.5	1200/2646	1200/2646	1300/2866
	3500/137.8	3590/141.3	2345/92.3	4095/161.2	1840/72.4	1070/2359	1070/2359	1130/2491
	3600/141.7	3690/145.3	2395/94.3	4195/165.2	1890/74.4	1000/2205	1000/2205	1050/2315
	3500/137.8	3590/141.3	1844/72.6	4214/165.9	1220/48.0	1070/2359	1070/2359	1130/2491
Triplex full-free wide view	3600/141.7	3690/145.3	1909/75.2	4409/173.6	1290/50.8	960/2116	960/2116	1050/2315
	3800/149.6	3890/153.1	2009/79.1	4709/185.4	1390/54.7	850/1874	850/1874	975/2150
	4000/157.5	4090/161.0	2109/83.0	5009/197.2	1490/58.7	770/1698	770/1698	900/1984
	4300/169.3	4390/172.8	2159/85.0	5159/203.1	1590/62.6	680/1499	680/1499	810/1786
	4500/177.2	4590/180.7	2259/88.9	5459/214.9	1590/62.6	600/1323	600/1323	710/1565
	5000/196.9	5090/200.4	2354/92.7	5744/226.1	1700/66.9	500/1102	500/1102	530/1168
	5200/204.7	5290/208.3	2409/94.9	5909/232.6	1790/70.5	440/970	440/970	470/1036

2.0t Hi 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/23.6inch
						2.0t/4409lb
Double cylinder duplex wide view	mm/in	mm/in	mm/in	mm/in	mm/in	Kg/lb
	2000/78.7	2090/82.3	1647/64.8	2647/104.2	90/3.5	2000/4409
	2500/98.4	2590/102.0	1897/74.7	3147/123.9	90/3.5	2000/4409
	2700/106.3	2790/109.8	1997/78.6	3347/131.8	90/3.5	1800/3968
	3000/118.1	3090/121.7	2147/84.5	3647/143.6	90/3.5	1600/3527
	3300/129.9	3390/133.5	2297/90.4	3947/155.4	90/3.5	1350/2976
	3500/137.8	3590/141.3	2397/94.4	4147/163.3	90/3.5	1180/2602
	3600/141.7	3690/145.3	2447/96.3	4247/167.2	90/3.5	1100/2425
	3800/149.6	3890/153.1	2547/100.3	4447/175.1	90/3.5	980/2161
	4000/157.5	4090/161.0	2747/108.1	4747/186.9	90/3.5	950/2094
Duplex full-free wide view	4300/169.3	4390/172.8	2897/114.1	5047/198.7	90/3.5	860/1896
	4500/177.2	4590/180.7	2997/118.0	5247/206.6	90/3.5	760/1676
	2000/78.7	2090/82.3	1700/66.9	2700/106.3	1090/42.9	2000/4409
	2500/98.4	2590/102.0	1950/76.8	3200/126.0	1340/52.8	2000/4409
	2700/106.3	2790/109.8	2050/80.7	3400/133.9	1440/56.7	1800/3968
	3000/118.1	3090/121.7	2200/86.6	3700/145.7	1590/62.6	1600/3527
	3300/129.9	3390/133.5	2350/92.5	4000/157.5	1740/68.5	1350/2976
	3500/137.8	3590/141.3	2450/96.5	4200/165.4	1840/72.4	1180/2602
	3600/141.7	3690/145.3	2500/98.4	4300/169.3	1890/74.4	1100/2425
	3500/137.8	3590/141.3	1944/76.5	4314/169.8	1130/44.5	1180/2602
Triplex full-free wide view	3700/145.7	3790/149.2	2009/79.1	4509/177.5	1200/47.2	1020/2249
	4000/157.5	4090/161.0	2109/83.0	4809/189.3	1300/51.1	950/2094
	4300/169.3	4390/172.8	2209/87.0	5109/201.1	1400/55.1	860/1896
	4500/177.2	4590/180.7	2259/88.9	5259/207.0	1500/59.1	760/1676
	4700/185.0	4790/188.6	2359/92.9	5559/218.9	1500/59.1	680/1499
	5000/196.9	5090/200.4	2454/96.6	5844/230.1	1610/63.4	570/1257
	5200/204.7	5290/208.3	2509/98.8	6009/236.6	1700/66.9	510/1124



A Series Electric Counterbalanced Stacker
with capacities of 800 to 2,000kg

Is widely used in pallet stacking, wherever support arm stacker truck cannot operate close pallet and lower pallet. Applied the latest AC drive technology, advanced performance, comfort, safe, reliable, low maintenance cost, easy to operate, and economical to buy is the ideal solution for warehouses, supermarkets, workshop loading/unloading and handling pallets of cargos.



Appearance

- / A series electric counterbalanced stacker 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 is standard specification, which provides flexible operation.
- / Pump motor controller offers proportional lifting/lowering, low noise, energy consumption reduced by 15%.
- / 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.

Reliability

- / 3-pivot with low centre of gravity design and high strength steel frame structure chassis provide high residual load capability and longer working life.
- / 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.
- / Hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / The REMA tiller made in Germany of latest development is simple but beautiful, and all operations can be done easily with one hand.
- / H-type mast profile section is applied to provide stable lifting and high strength.
- / The power plug is fixed on the chassis to avoid damage during battery replacement.

Safety

- / Travel speed will be automatically reduced after fork lifting height over 500mm.
- / Automatic deceleration during turning.
- / Punch-formed handrails provide more safety to the operator.
- / Three braking system of regenerative braking, reverse current braking, and emergency braking, insures the safe operation.
- / Anti-slope on gradient can keep the safety.
- / The emergency button on the tiller head can effectively avoid the harm to the driver.
- / Soft landing system applied to protect loads from damaging when forks lowering to 100mm to ground.

Comfort

- / The pedal applies shock absorption design, greatly improves the operator's comfort, reduce the fatigue.
- / 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.

Standard Specification

- / AC drive motor
- / Electric power steering
- / 2.7m double cylinder duplex mast
- / Emergency switch
- / The proportional lift & lower control
- / 1070mm fork length
- / Side battery change
- / Multi-function battery indicator
- / PU load wheel
- / CAN bus technology
- / Soft landing system

Options

- / Mast lift height:
Duplex mast 2000-4500mm,
full free duplex mast: 2000-3600mm,
triplex mast 0.8t: 3500-5000mm,
1.2/1.6/2.0t: 3500-5500mm.
- / Mast tilting: Forward 2°/ Backword 6°
- / Different length of fork
- / Load backrest



Simple and beautiful tiller designed to improve the operator's driving comfort. Optimized designing structure to offer a good visibility and easy entrance to the pallet



Side battery change is standard specification



Fully opened hood, easy accessibility of all components, is easy for service



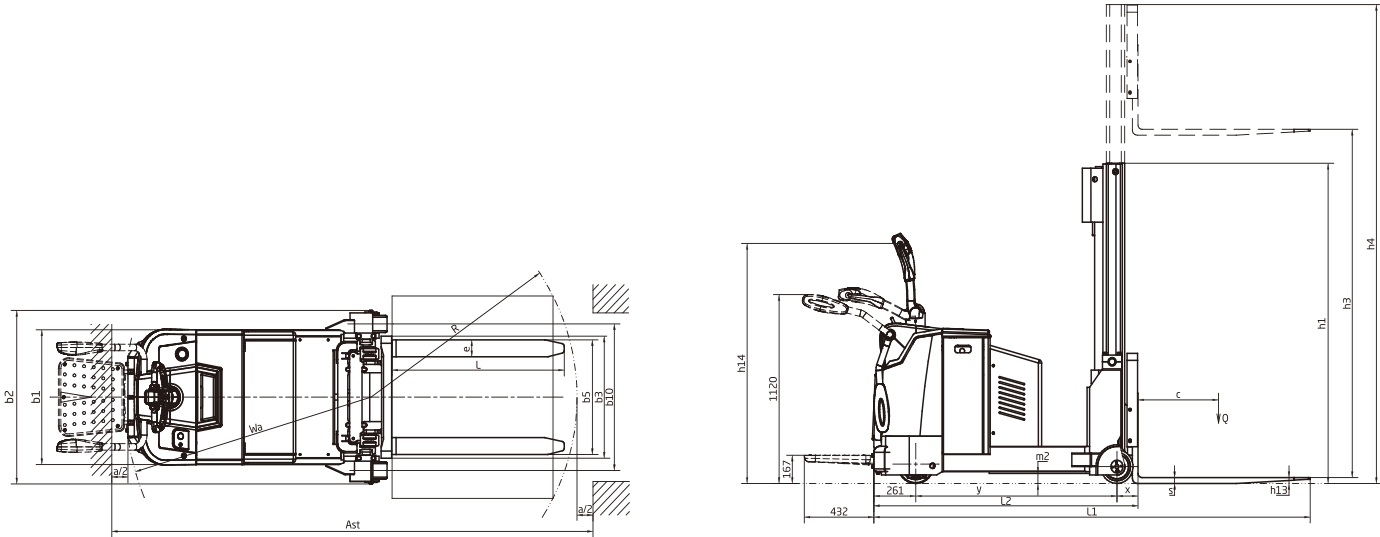
Mast tilting is the optional feature, offers proportional forward/backward speed

A Series Electric counterbalanced stacker

Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation		CDD08-AC1S-P CDD08-AZ3S-P	CDD12-AC1S-P CDD12-AZ3S-P	CDD16-AC1S-P CDD16-AZ3S-P	CDD20-AC1S-P CDD20-AZ3S-P
	1.3	Drive:electric(battery or mains),diesel,petrol,fuel gas		electric	electric	electric	electric
	1.4	Operator type:hand,pedestrian,standing,seated,order-picker		standing	standing	standing	standing
	1.5	Rated capacity/rated load	Q (kg/lb)	800/1764	1200/2646	1600/3527	2000/4409
	1.6	Load centre distance	c(mm/in)	500/20	500/20	500/20	500/20
	1.8	Load distance, centre of drive axle to fork	x(mm/in)	131/5.2	131/5.2	141/5.6	151/5.9
Weights	1.9	Wheelbase	y(mm/in)	1023/40.3	1150/45.3	1371/54.0	1571/61.9
	2.1	Service Weight incl.battery(see line6.5)	kg/lb	1800/3968	1950/4299	2050/4520	2126/4687
	2.2	Axle loading,laden front/rear	kg (lb)	420/2180 (926/4806)	310/2840 (683/6261)	450/3200 (992/7055)	531/3595 (1171/7926)
Wheels, Chassis	2.3	Axle loading,unladen front/rear	kg (lb)	935/865 (2061/1907)	1090/860 (2403/1896)	1150/900 (2535/1984)	1189/937 (2621/2066)
	3.1	Tyres:solid rubber,superelastic,pneumatic,polyurethane		PU	PU	PU	PU
	3.2	Tyre size, front	mm/in	Φ230×75 / Φ9.1×3.0	Φ230×75 / Φ9.1×3.0	Φ250×100 / Φ9.8×3.9	Φ250×100 / Φ9.8×3.9
	3.3	Tyre size, rear	mm/in	Φ200×100 / Φ7.9×3.9	Φ200×100 / Φ7.9×3.9	Φ200×100 / Φ7.9×3.9	Φ200×100 / Φ7.9×3.9
	3.5	Wheels, number front / rear (x = driven wheels)		1×/2	1×/2	1×/2	1×/2
	3.6	Tread, front	b ₁₀ (mm/in)	870/34.3	870/34.3	870/34.3	870/34.3
Basic Dimensions	4.2	Height,mast lowered	h ₁ (mm/in)	1900/74.8	1900/74.8	1900/74.8	1900/74.8
	4.4	Lift	h ₃ (mm/in)	2700/106.3	2700/106.3	2700/106.3	2700/106.3
	4.9	Height of tiller in drive position min./max.	h ₄ mm (in)	1115/1420 (43.9/55.9)	1115/1420 (43.9/55.9)	1115/1420 (43.9/55.9)	1115/1420 (43.9/55.9)
	4.15	Height, lowered	h ₁₃ (mm/in)	351/1.38	351/1.38	351/1.38	451/1.8
	4.19	Overall length	l ₁ (mm/in)	2485 ¹⁾ /97.8 ¹⁾	2612 ¹⁾ /102.8 ¹⁾	2822 ¹⁾ /111.1 ¹⁾	3032 ¹⁾ /119.4 ¹⁾
	4.20	Length to face of forks	l ₂ (mm/in)	1415 ¹⁾ /55.7 ¹⁾	1542 ¹⁾ /60.7 ¹⁾	1752 ¹⁾ /69.0 ¹⁾	1962 ¹⁾ /77.2 ¹⁾
	4.21	Overall width	b ₁ /b ₂ mm (in)	800/1030 (31.5/40.6)	800/1030 (31.5/40.6)	800/1030 (31.5/40.6)	800/1030 (31.5/40.6)
	4.22	Fork dimensions	s/e/l mm (in)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	35/100/1070 (1.4/3.9/42.1)	45/100/1070 (1.8/3.9/42.1)
	4.24	Fork-carriage width	b ₂ (mm/in)	700/27.6	700/27.6	700/27.6	700/27.6
	4.25	Distance between fork-arms	b ₅ mm (in)	210~680 (8.3~26.8)	210~680 (8.3~26.8)	210~680 (8.3~26.8)	210~680 (8.3~26.8)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm/in)	60/2.36	60/2.36	60/2.36	60/2.36
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2760 ¹⁾ /108.7 ¹⁾	2810 ¹⁾ /110.6 ¹⁾	3019 ¹⁾ /118.9 ¹⁾	3228 ¹⁾ /127.1 ¹⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2870 ¹⁾ /113.0 ¹⁾	2920 ¹⁾ /115.0 ¹⁾	3129 ¹⁾ /123.2 ¹⁾	3339 ¹⁾ /131.5 ¹⁾
4.35	Turning radius	W _a (mm/in)	1380/54.3	1430/56.3	1630/64.2	1830/72.0	
Performance Data	5.1	Travel speed, laden/unladen	kph (mph)	5.5/6.0 (3.4/3.7)	5.5/6.0 (3.4/3.7)	5.5/6.0 (3.4/3.7)	5.5/6.0 (3.4/3.7)
	5.2	Lift speed, laden/unladen	m/s (ft/min)	0.160/0.235 (31.50/46.26)	0.145/0.220 (28.54/43.31)	0.135/0.230 (26.57/45.28)	0.110/0.180 (21.65/35.43)
	5.3	Lowering speed, laden/unladen	m/s (ft/min)	0.200/0.200 (39.37/39.37)	0.200/0.200 (39.37/39.37)	0.200/0.200 (39.37/39.37)	0.200/0.200 (39.37/39.37)
Electric-motor	5.7	Gradeability, laden/unladen	%	6/10	6/10	6/10	6/10
	6.1	Drive motor rating S2 60 min.	kW/hp	1.5/2.0	1.5/2.0	3/4.0	3/4.0
	6.2	Lift motor rating at S3 15%	kW/hp	2.2/2.95	3.2/4.29	3.2/4.29	3.2/4.29
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/240	24/280	24/350	24/350
Others	6.5	Battery weight	kg/lb	215/474	250/551	300/661	300/661
	8.1	Type of drive control		AC CURTIS ZAPI	AC CURTIS ZAPI	AC CURTIS ZAPI	AC CURTIS ZAPI

Note:1).Triplex mast +21mm(0.83in)

Specifications are subject to change without notice.



0.8t/1.2t/1.6t Mast specification

Type	fork lift height h ₃	Max. fork height (h ₃ +h ₁₃)	Mast lowered h ₁	Mast extended h ₄	Free lift	Capacity load capacity at 500mm/19.7in			Capacity load capacity at 600mm/23.6in		
						CDD08-AC1S-P	CDD12-AC1S-P	CDD16-AC1S-P	CDD08-AC1S-P	CDD12-AC1S-P	CDD16-AC1S-P
Wide view mast	mm/in	mm/in	mm/in	mm/in	mm/in	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb
	2000/78.7	2035/80.1	1542/60.7	2542/100.1	0	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	2500/98.4	2535/99.8	1792/70.6	3042/119.8	0	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	2700/106.3	2735/107.7	1892/74.5	3242/127.6	0	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3000/118.1	3035/119.5	2042/80.4	3542/139.4	0	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3300/129.9	3335/131.3	2192/86.3	3842/151.3	0	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3500/137.8	3535/139.2	2292/90.2	4042/159.1	0	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3600/141.7	3635/143.1	2342/92.2	4142/163.1	0	700/1543	1200/2646	1600/3527	600/1323	1100/2425	1450/3197
	3700/145.7	3735/147.0	2392/94.2	4242/167	0	680/1499	1180/2602	1540/3395	580/1279	1070/2359	1400/3086
	3800/149.6	3835/151.0	2442/96.1	4342/170.9	0	660/1455	1150/2535	1480/3263	560/1235	1030/2271	1330/2932
	4000/157.5	4035/158.9	2642/104.0	4642/182.8	0	620/1367	1100/2425	1400/3087	510/1124	980/2161	1250/2756
	4300/169.3	4335/170.7	2792/109.9	4942/194.6	0	530/1169	1050/2315	1340/2954	450/992	900/1984	1210/2668
Wide view full free duplex mast	mm/in	mm/in	mm/in	mm/in	mm/in	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb
	2000/78.7	2035/80.1	1595/62.8	2595/102.2	1035/40.7	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	2500/98.4	2535/99.8	1845/72.6	3095/121.9	1285/50.6	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	2700/106.3	2735/107.7	1945/76.6	3295/129.7	1385/54.5	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3000/118.1	3035/119.5	2095/82.5	3595/141.5	1535/60.4	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3300/129.9	3335/131.3	2245/88.4	3895/153.3	1685/66.6	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3500/137.8	3535/139.2	2345/92.3	4095/161.2	1785/70.3	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3600/141.7	3635/143.1	2395/94.3	4195/165.2	1835/72.2	700/1543	1200/2646	1600/3527	600/1323	1100/2425	1450/3197
	3500/137.8	3535/139.2	1844/72.6	4214/165.9	1165/45.9	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3700/145.7	3735/147.0	1909/75.2	4409/173.6	1235/48.6	680/1499	1180/2602	1540/3395	580/1279	1070/2359	1400/3086
	4000/157.5	4035/158.9	2009/70.1	4709/185.4	1335/52.6	620/1367	1100/2425	1400/3087	510/1124	980/2161	1250/2756
	4300/169.3	4335/170.7	2109/83.0	5009/197.2	1435/56.5	530/1169	1050/2315	1340/2954	450/992	900/1984	1210/2668
Wide view full free triplex mast	mm/in	mm/in	mm/in	mm/in	mm/in	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb
	2000/78.7	2035/80.1	1595/62.8	2595/102.2	1035/40.7	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	2500/98.4	2535/99.8	1845/72.6	3095/121.9	1285/50.6	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	2700/106.3	2735/107.7	1945/76.6	3295/129.7	1385/54.5	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3000/118.1	3035/119.5	2095/82.5	3595/141.5	1535/60.4	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3300/129.9	3335/131.3	2245/88.4	3895/153.3	1685/66.6	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3500/137.8	3535/139.2	2345/92.3	4095/161.2	1785/70.3	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3600/141.7	3635/143.1	2395/94.3	4195/165.2	1835/72.2	700/1543	1200/2646	1600/3527	600/1323	1100/2425	1450/3197
	3500/137.8	3535/139.2	1844/72.6	4214/165.9	1165/45.9	800/1764	1200/2646	1600/3527	700/1543	1100/2425	1450/3197
	3700/145.7	3735/147.0	1909/75.2	4409/173.6	1235/48.6	680/1499	1180/2602	1540/3395	580/1279	1070/2359	1400/3086
	4000/157.5	4035/158.9	2009/70.1	4709/185.4	1335/52.6	620/1367	1100/2425	1400/3087	510/1124	980/2161	1250/2756
	4300/169.3	4335/170.7	2109/83.0	5009/197.2	1435/56.5	530/1169	1050/2315	1340/2954	450/992	900/1984	1210/2668

2.0t Mast specification

Type	fork lift height h ₃	Max. fork height (h ₃ +h ₁₃)	Mast lowered h ₁	Mast extended h ₄	Free lift	Capacity load capacity at 500mm/19.7in	Capacity load capacity at 600mm/23.6in
						CDD20-AC1S-P	CDD20-AC1S-P
	mm/in	mm/in	mm/in	mm/in	mm/in	kg/lb	kg/lb
Wide view mast	2000/78.7	2045/80.5	1647/64.8	2647/104.2	0	2000/4409	1800/3968
	2500/98.4	2545/100.2	1897/74.7	3147/123.9	0	2000/4409	1800/3968
	2700/106.3	2745/108.1	1997/78.6	3347/131.8	0	2000/4409	1800/3968
	3000/118.1	3045/119.9	2147/84.5	3647/143.6	0	2000/4409	1800/3968
	3300/129.9	3345/131.7	2297/90.4	3947/155.4	0	2000/4409	1800/3968
	3500/137.8	3545/139.6	2397/94.4	4147/163.3	0	2000/4409	1800/3968
	3600/141.7	3645/143.5	2447/96.3	4247/167.2	0	1950/4299	1750/3858
	3700/145.7	3745/147.4	2497/98.3	4347/171.1	0	1900/4189	1710/3770
	3800/149.6	3845/151.4	2547/100.3	4447/175.1	0	1840/4057	1660/3660
	4000/157.5	4045/159.3	2747/108.1	4747/186.9	0	1800/3968	1600/3527
Wide view full free duplex mast	4300/169.3	4345/171.1	2897/114.1	5047/198.7	0	1680/3704	1500/3307
	4500/177.2	4545/178.9	2997/118.0	5247/206.6	0	1600/3527	1400/3086
	2000/78.7	2045/80.5	1700/66.9	2700/106.3	1045/41.1	2000/4409	1800/3968
	2500/98.4	2545/100.2	1950/76.8	3200/126.0	1295/51.0	2000/4409	1800/3968
	2700/106.3	2745/108.1	2050/80.7	3400/133.9	1395/54.9	2000/4409	1800/3968
	3000/118.1	3045/119.9	2200/86.6	3700/145.7	1545/60.8	2000/4409	1800/3968
	3300/129.9	3345/131.7	2350/92.5	4000/157.5	1695/66.7	2000/4409	1800/3968
	3500/137.8	3545/139.6	2450/96.5	4200/165.4	1795/70.7	2000/4409	1800/3968
	3600/141.7	3645/143.5	2500/98.4	4300/169.3	1845/72.6	1950/4299	1750/3858
	3500/137.8	3545/139.6	1944/76.5	4314/169.8	1175/46.3	2000/4409	1800/3968
Wide view full free triplex mast	3700/145.7	3745/147.4	2009/79.1	4509/177.5	1245/49.0	1900/4189	1710/3770
	4000/157.5	4045/159.3	2109/83.0	4809/189.3	1345/53.0	1800/3968	1600/3527
	4300/169.3	4345/171.1	2209/87.0	5109/201.1	1445/56.9	1680/3704	1500/3307
	4500/177.2	4545/178.9	2259/88.9	5259/207.0	1545/60.8	1600/3527	1400/3086
	4700/185.0	4745/186.8	2359/92.9	5559/218.9	1545/60.8	1480/3263	1300/2866
	5000/196.9	5045/198.6	2454/96.6	5844/230.1	1655/65.2	1200/2646	1100/2425
	5200/204.7	5245/206.5	2509/98.8	6009/236.6	1745/68.7	1000/2205	900/1984
	5500/216.5	5545/218.3	2609/102.7	6309/248.4	1845/72.6	800/1764	700/1543



A Series High Range Stand-on Pallet Stacker With Initial Lift

with capacities of 1,200 to 1,600kg

The A Series Pallet Stacker Truck is a new product developed for warehouse and logistics applications. With the latest AC control technology, it features excellent performance, easy operation, safety and reliability, and low maintenance cost, and is an ideal vehicle for loading, unloading, and handling palletized goods in warehouse, supermarket, and workshop. The A series pallet stacker with initial lift offers better reachability with its lifting arms.

Appearance

- / The A series pallet stacker with initial lift is completed with specialized industrial design of appearance. The entire truck features smooth lines and affluent sense of movement, with full consideration being given to ergonomics, in accord with the latest appearance design trend.
- / It is manufactured with steel plate stamping and injection molding technologies, solid and durable, in compliance with environmental requirements.

High Performance

- / Center stand-on driving mode and ESP(Electric Steering Power)system offer easier and more flexible operation.
- / The arm initial lifting function offers better reachability. The upper and lower double pallet handling design not only can meet requirements of stacking operation, but also brings higher material handling efficiency.
- / Lifting and lowering stepless speed regulation of the fork is a standard configuration.
- / The high efficiency traction motor realizes high driving speed and strong climbing performance.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and maintenance-free.
- / The latest ZAPI AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS structure makes communication of the entire machine faster and more reliable.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Hydraulic power unit, switches, plug connectors, battery condition meter, timer and other important parts are all of renowned domestic and abroad brands.

Comfort

- / The lower vibrational pedal offers much higher driving comfort, and reduces fatigue of long-duration operation.
- / The REMA tiller made in Germany is simple but beautiful, and all operations can be done easily with one hand.
- / The tortoise speed switch with light allows the truck to move at slow speed more conveniently, and can stack goods even in confined space.
- / The optimized truck structure guarantees excellent visibility, and easy access and exit of pallet.
- / The design of narrow body with large round corners makes the truck more suitable for operation in concentrated goods shelves, and the wedge-shaped design of truck base offers much higher passing ability.
- / Different distance between fork-arms and fork length are optional, being suitable for handling of various pallets.
- / Side roll out battery can realize easy and fast replacement (optional).



Rema tiller



The integrated stamping molded guardrail offers better protection for the operator



Back cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine



Tandem load wheel

Reliability

- / Four-pivots and low-gravity-center design and the high-strength steel plate framed structure feature large residual load capacity, and long service life.
- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / Electronic lifting limitation eliminates overflow of the hydraulic power unit, which is more energy efficient, and can protect the motor of power unit.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.
- / Stamping molded fork has higher strength and impact resistance.
- / Power plug is fastened to truck body, which can avoid damage of plug when battery is replaced.
- / The battery is fixed securely, and battery cover is supported with flexible material, which reduces vibration and noise during operation.



Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm.
- / Turning speed is automatically reduced when steering.
- / Release braking, reverse braking, and three types of emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating handle can avoid the driver from injury effectively in case of emergency during backward driving of the pallet truck.
- / The soft landing system reduces declining speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.

Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The brushless, maintenance-free AC steering motor reduces operation cost significantly (optional).
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / All rotating shafts are equipped with lubricating sleeve and oil cup, which is convenient for maintenance and has a long service life.



Standard Specification

- / AC driving motor
 - / ZAPI AC controller
 - / REMA tiller
 - / Imported hydraulic power unit
 - / Pedal
 - / Emergency power off switch
 - / Multi-function battery condition meter
 - / Tandem load wheel
 - / Initial lift 125mm
- / Fork length 1150mm
 - / Outer distance between fork-arms 570mm
 - / Electronic lifting limitation
 - / Soft landing system
 - / Multi-function handle of CAN bus
 - / Horn
 - / Battery
 - / EPS system

Options

- / Various imported and home-made batteries
- / AC steering motor
- / Different mast height (see parameter list for details)
- / Fork length 1220/1600
- / Outer distance of forks 600/680mm
- / Side roll out battery
- / Automatic battery charger
- / Load backrest
- / Mast shield
- / Lithium battery



1.2t/1.4t/1.6t Mast specification

Type	Fork lift height h ₃	Max.fork height (h ₃ +h ₁₃)	Mast lowered h ₁	Mast extended h ₄	Free lift height	Load capacity at 600mm		
						1.2t	1.4t	1.6t
Wide view duplex mast	mm	mm	mm	mm	mm	kg	kg	kg
	2000	2090	1582	2582	90	1200	1400	1600
	2500	2590	1832	3082	90	1200	1400	1600
	2700	2790	1932	3282	90	1200	1300	1500
	3000	3090	2082	3582	90	1130	1130	1200
	3300	3390	2232	3882	90	950	950	1000
	3500	3590	2332	4082	90	900	900	940
	3600	3690	2382	4182	90	890	890	930
	3700	3790	2432	4282	90	850	850	900
	3800	3890	2482	4382	90	840	840	890
	4000	4090	2682	4682	90	800	800	850
	4300	4390	2832	4982	90	750	750	800
	4500	4590	2932	5182	90	700	700	750
Full free duplex mast	2000	2090	1635	2635	1090	1200	1400	1600
	2500	2590	1885	3135	1340	1200	1400	1600
	2700	2790	1985	3335	1440	1200	1300	1500
	3000	3090	2135	3635	1590	1130	1130	1200
	3300	3390	2285	3935	1740	950	950	1000
	3500	3590	2385	4135	1840	900	900	940
Full free triplex mast	3600	3690	2435	4235	1890	890	890	930
	3500	3590	1884	4254	1220	890	890	930
	3700	3790	1949	4449	1290	850	850	900
	4000	4090	2049	4749	1390	800	800	850
	4300	4390	2149	5049	1490	750	750	800
	4500	4590	2199	5199	1590	700	700	750
	4700	4790	2299	5499	1590	650	650	700
	5000	5090	2394	5784	1700	600	600	650
	5200	5290	2449	5949	1790	550	550	600
	5500	5590	2549	6249	1890	450	450	500

A Series High Range Stand-on Pallet Stacker With Initial Lift

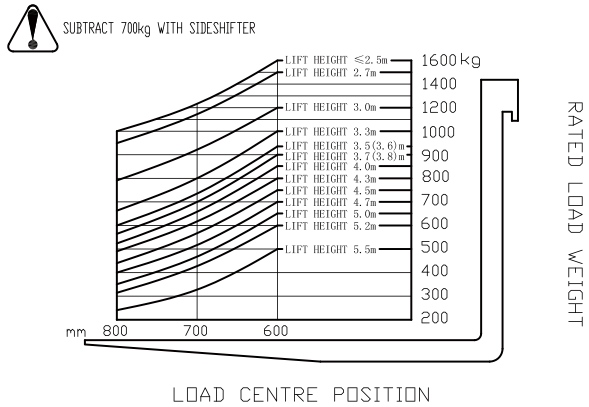
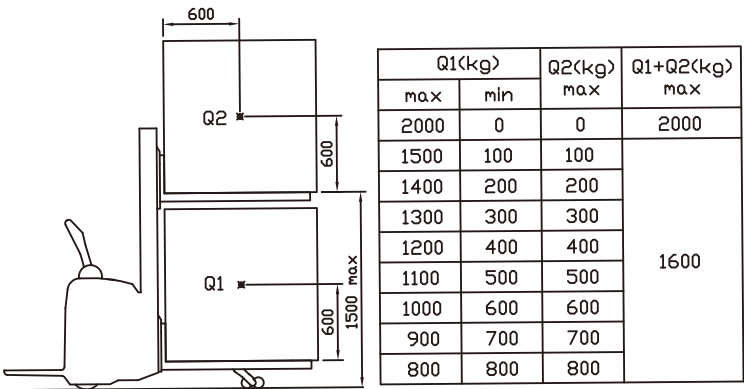
Characteristics	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.		
	1.2	Manufacturer's type designation		CDD12-AZ3S-L	CDD14-AZ3S-L	CDD16-AZ3S-L
	1.3	Drive (Drive: electric (battery or mains), diesel, petrol, fuel gas)		electric	electric	electric
	1.4	Operator type (hand, pedestrian, standing, seated, order-picker)		Standing	Standing	Standing
	1.5	Load capacity	Q (kg)	1200	1400	1600
	1.6	Load centre distance	C(mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork	x(mm)	748	748	748
	1.9	Wheelbase	y(mm)	1507	1507	1507
	2.1	Service weight	kg	1295	1300	1350
Wheels&Tyres	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		polyurethane	polyurethane	polyurethane
	3.2	Tyre size, front		Φ230×75	Φ230×75	Φ230×75
	3.3	Tyre size, rear		Φ85×70	Φ85×70	Φ85×70
	3.4	Additional wheels (dimensions)		Φ140×55	Φ140×55	Φ140×55
	3.5	Wheels, number front rear (x = driven wheels)		1x+1/4	1x+1/4	1x+1/4
	3.6	Tread, front	b10(mm)	520	520	520
	3.7	Tread, rear	b11(mm)	385	385	385
Dimensions	4.2	Height, mast lowered	h1(mm)	1932	1932	1932
	4.3	Free lift	h2(mm)	90	90	90
	4.4	Lift	h3(mm)	2700	2700	2700
	4.6	Initial lift	h5(mm)	125	125	125
	4.15	Height, lowered	h13(mm)	90	90	90
	4.19	Overall length (pedal folded)	l1(mm)	2135	2135	2135
	4.20	Length to face of forks	l2(mm)	985	985	985
	4.21	Overall width	b1(mm)	800	800	800
	4.22	Fork dimensions DIN ISO 2331Fork dimensions	s/e/(mm)	60/185/1150	60/185/1150	60/185/1150
	4.25	Distance between fork-arms		570	570	570
	4.32	Ground clearance, centre of wheelbase	m2(mm)	25	25	25
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2600	2600	2600
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2550	2550	2550
	4.35	Turning radius	Wa(mm)	1745	1745	1745
	5.1	Travel speed, unladen	km/h	7	7	7
Performance	5.2	Lift speed, laden/unladen	m/s	0.135/0.210	0.165/0.325	0.135/0.250
	5.3	Lowering speed, lade/unladen	m/s	0.260/0.165	0.260/0.165	0.260/0.165
	5.7	Gradeability, laden/unladen	%	10/16	10/16	8/16
	5.10	Service brake		electric	electric	electric
	6.1	Drive motor rating S2 60 min	kW	2.2	2.2	2.2
Electric-engine	6.2	Lift motor rating at S3 15 %	kW	2.2	3.2	3.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		4DB280	4DB280	4DB340
	6.4	Battery voltage/nominal capacity K5		24/280	24/280	24/340
Other	8.1	Type of drive unit		AC Control	AC Control	AC Control



A Series High Range Stand-on Pallet Stacker With Reach Fork

with capacities of 1,200 to 1,600kg

The A series pallet stacker with reach fork moves goods forward and backward with a scissor fork extension system. It acts as a counterbalanced stacker when its fork is extended, which can handle non-standard pallets, enclosed pallets, and enclosed shelves easily; and acts as a straddle stacker when its fork is retracted, which can operate flexibly in narrow passage.





Comfort

- / The vibration-reduction design of the pedal reduces fatigue of long-duration operation.
- / New designed tiller has beautiful appearance, and function buttons for comfortable operation.
- / The standard configuration of tortoise speed driving function allows the truck to move at slow speed more easily.

Reliability

- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / Power plug is fastened to truck body, which can avoid damage of plug due to impact when battery is lifted for installation.
- / Flexible connections of the battery can avoid disconnection fault of battery because of lasting vibration.

Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / Back cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.

High Performance

- / EPS (Electric Power Steering) system offer easier and more flexible operation.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC / ZAPI AC control system realizes accurate and stable control, and higher efficiency.
- / The CANBUS structure makes communication of the entire machine faster and more reliable.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.
- / Fork tilting function, and load backrest realize safer loading and unloading of goods.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.

Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm.
- / Turning speed is automatically reduced when steering.
- / The integrated stamping molded guardrail offers better protection for the operator.
- / Release braking, reverse braking and emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating tiller can avoid the driver from injury effectively.
- / The soft landing system reduces lowering speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.



Standard Specification

- / AC driving motor
- / CURTIS / ZAPI controller for traction motor
- / Controller for pump motor
- / EPS(Electric Power Steering) system
- / Automatic deceleration at turns
- / Proportional speed regulation for all fork operations
- / Pedal and guardrail
- / Emergency power off switch
- / Multi-function battery condition meter
- / High-performance loading wheels
- / Fork length 1070mm
- / Adjustable outer distance of forks within the range of 200-896mm
- / Fork tilt forward / backward 3°/5°
- / Load backrest
- / 2.7m duplex mast with double lifting cylinders
- / Soft landing system
- / Multi-function tiller
- / Traveling speed will be automatically reduced after fork lifting 500mm
- / Reach distance of fork: 590mm
- / Battery capacity: 280Ah for 1.2t model, 340Ah for 1.6t model

Options

- / Mast height: 2500-4500mm for duplex mast, 3500-5500mm for triplex mast
- / Various fork lengths
- / Sideshift move LH/RH: 60mm



Multi-function tiller



Forks move forward by the scissor structure



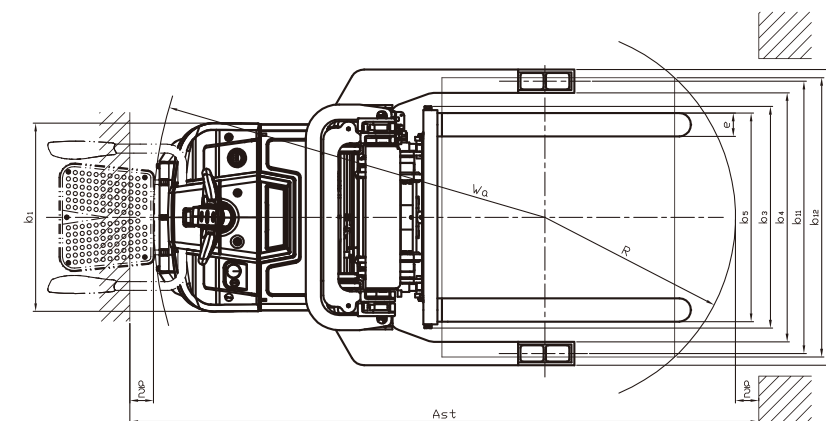
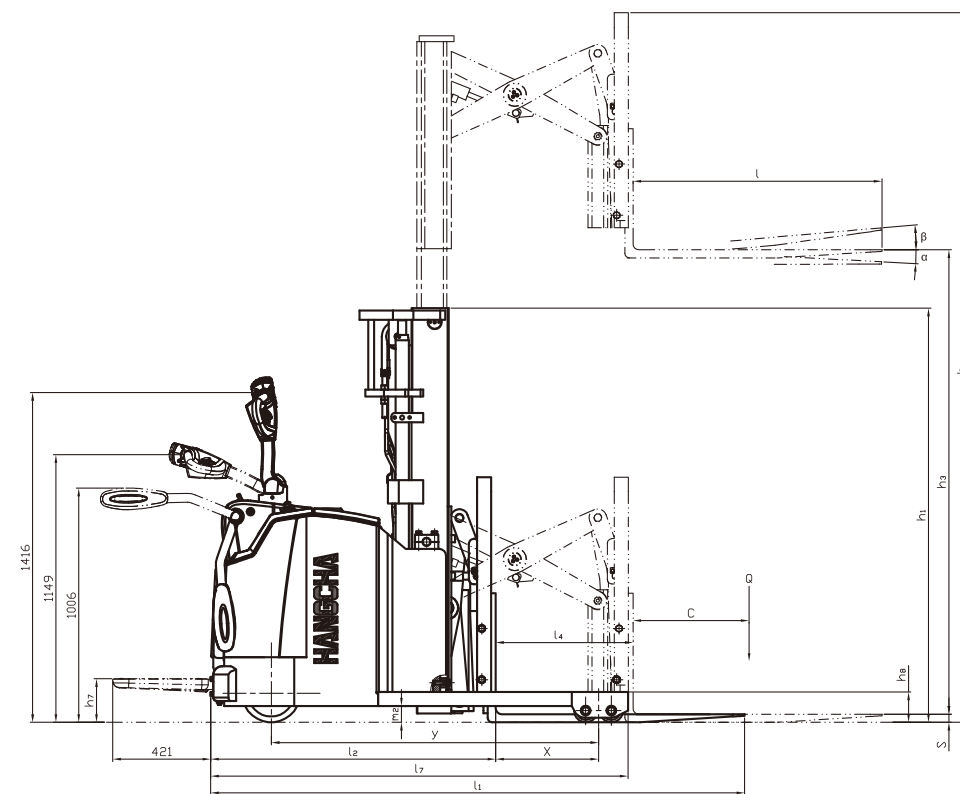
Back cover can be opened fully



Proportional controlled forks can be operated more accurately

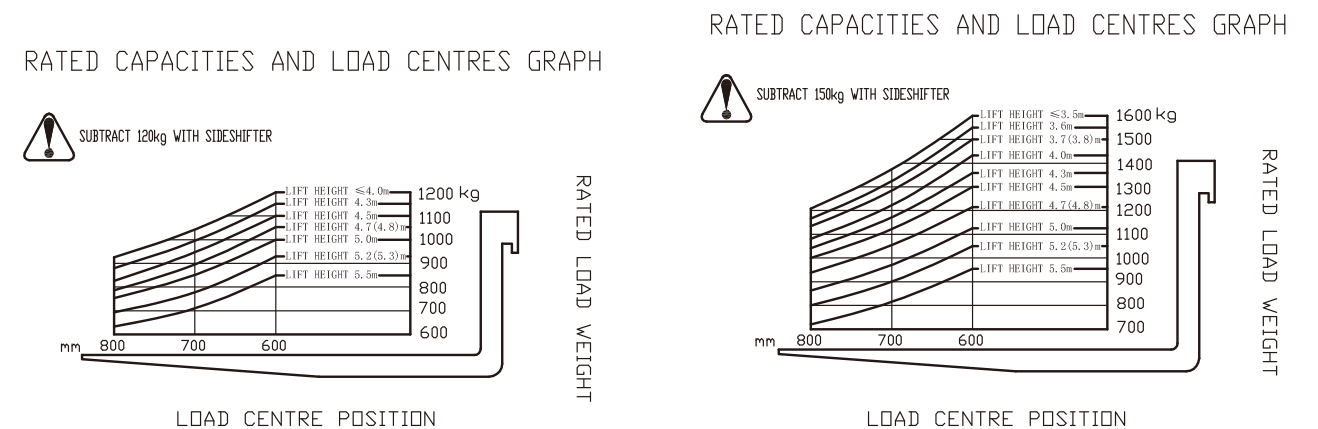
A Series High Range Stand-on Pallet Stacker With Reach Fork

Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.	
	1.2	Manufacturer's type designation		CDD12-AC1S-J CDD12-AZ3S-J	CDD16-AC1S-J CDD16-AZ3S-J
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Standing
	1.5	Rated capacity/rated load	Q (kg)	1200	1600
	1.6	Load centre distance	c(mm)	600	600
	1.7	Load distance, centre of drive axle to fork	x (mm)	442	442
Weight	1.8	Wheelbase	y (mm)	1384	1406
	2.1	Service Weight	kg	1870	2000
Tyres,chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane
	3.2	Tyre size, front	mm	Φ230×75	Φ250×100
	3.3	Tyre size, rear	mm	Φ100×70	Φ100×70
	3.5	Wheels, number front / rear (x = driven wheels)		1×/4	1×/4
	3.6	Tread, front	b ₁₀ (mm)	0	0
	3.7	Tread, rear	b ₁₁ (mm)	1170	1170
Dimensions	4.1	Tilt of fork carriage forward/backward	α/β(°)	3/5	3/5
	4.2	Height ,mast lowered	h ₁ (mm)	2040	2040
	4.4	Lift	h ₃ (mm)	2700	2700
	4.5	Height, mast extended	h ₄ (mm)	3752	3752
	4.8	stand height	h ₇ (mm)	185	185
	4.10	Height of wheel arms	h ₈ (mm)	130	130
	4.19	Overall length	l ₁ (mm)	2295	2295
	4.20	Length to face of forks	l ₂ (mm)	1225	1225
	4.21	Overall width	b ₁ /b ₂ (mm)	800/1270	800/1270
	4.22	Fork dimensions	s/e/l (mm)	35/100/1070	35/100/1070
	4.24	Fork-carriage width	b ₃ (mm)	920	920
	4.25	Distance between fork-arms	b ₅ (mm)	200-896	200-896
	4.26	Distance between wheel arms	b ₄ (mm)	1070	1070
	4.28	Reach distance	l ₄ (mm)	590	590
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	70	70
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm)	2701	2701
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm)	2739	2739
	Performance data	4.35	Turning radius	W _a (mm)	1682
4.37		Length across wheel arms	l ₇ (mm)	1794	1794
5.1		Travel speed, laden/unladen	km/h	5.5/6.0	5.5/6.0
5.2		Lift speed, laden/unladen	m/s	0.100/0.130	0.090/0.120
5.3		Lowering speed, laden/unladen	m/s	0.180/0.165	0.165/0.150
5.4		Reaching speed, laden/unladen	m/s	0.115/0.165	0.115/0.165
Electric-engine	5.8	Max.gradeability , laden/unladen	%	6/10	6/10
	5.10	Service brake		Electromagnetic braking	Electromagnetic braking
	6.1	Drive motor rating S2 60 min	kW	1.5	3
	6.2	Lift motor rating at S3 15%	kW	3	3
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/280	24/340
Addition data	6.5	Battery weight	kg	250	280
	8.1	Type of drive control		AC CURTIS AC ZAPI	AC CURTIS AC ZAPI
	10.5	Steering design		EPS	EPS



1.2t/1.6t Mast specification

Type	Fork lift height h ₃	Mast lowered h ₁	Mast extended h ₄	Free lift height	Capacity	
					Load capacity at 600mm	
					1.2t	1.6t
	mm	mm	mm	mm	kg	kg
Wide view mast	2500	1940	3552	0	1200	1600
	2700	2040	3752	0	1200	1600
	3000	2190	4052	0	1200	1600
	3300	2340	4352	0	1200	1600
	3500	2440	4552	0	1200	1600
	3600	2490	4652	0	1200	1550
	3700	2540	4752	0	1200	1500
	3800	2590	4852	0	1200	1500
	4000	2790	5052	0	1200	1430
	4300	2940	5352	0	1150	1360
Wide view full free triplex mast	4500	3040	5552	0	1100	1300
	3500	1975	4552	923	1200	1600
	3700	2040	4752	988	1200	1500
	4000	2140	5052	1088	1200	1430
	4300	2240	5352	1188	1150	1360
	4500	2290	5552	1238	1100	1300
	4700	2390	5752	1338	1050	1220
	5000	2490	6062	1438	1000	1130
	5200	2540	6252	1488	930	1050
	5500	2640	6552	1588	850	950





A Series High Range Stand-on Pallet Stacker With Mast Move

with capacities of 1,200 to 1,600kg

The truck combines benefits of regular stacker and counterbalanced stacker. It can be used for non-standard pallets, enclosed pallets, and enclosed shelves. The mast can be retracted into truck body, which reduces passage width required for operation significantly, and the stacker is an ideal vehicle for operation in narrow passage. Cutting-edge AC control technology applied for the truck offers excellent performance, comfortable operation, safety and reliability, and low maintenance cost.

High Performance

- / EPS(Electric Power Steering) is standard specification, which provides flexible operation.
- / Pump motor realize proportional control all operation of fork by the controller, thus more accurate fork operation.
- / The AC driving motor features excellent acceleration performance, outstanding climbing ability, low heat emission, and is brushless, and maintenance-free.
- / The latest CURTIS AC / ZAPI AC control system realizes accurate, stable, and efficient control.
- / Regenerative brake of the truck prevents it from sliding on a slope.
- / Switches, plug connectors, meters, and other important parts are all imported from abroad, with excellent performance and reliable quality.
- / Standard featured fork tilting and load backrest realize safer loading and unloading of goods.
- / The hydraulic power unit features low noise, small vibration, and stable and reliable lifting and lowering.

Reliability

- / Four-pivots and low-gravity-center design and the high-strength steel plate framed structure feature large residual load capacity, and long service life.
- / All plug connectors are imported and waterproof, and all cables have reliable protection, which increases reliability of electrical system significantly.
- / Non-contact proximity switch features long service life and reliable operation.
- / The mast is made of H-shaped steel channels, which offer better rigidity and stability in comparison with C-shaped channels.
- / Reach track of mast is made of high-strength steel channels, with longer service life.
- / Power plug is fastened to truck body, which can avoid damage of plug due to impact when battery is lifted for installation.
- / Flexible connections of the battery can avoid disconnection fault of battery because of lasting vibration.

Maintenance

- / The brushless, maintenance-free AC driving motor reduces operation cost significantly.
- / The meter integrating battery indicator, timer, and fault self-diagnosis is convenient for maintenance.
- / Back cover can be opened fully, and all components and parts are clear at a glance, which is very convenient for maintenance of the entire machine.



Fork tilt F/R: 3° / 5°



EPS (Electric Power Steering) is standard specification



Cover can be opened fully



Multi-function tiller



Safety

- / Traveling speed will be automatically reduced after fork lifting 500mm.
- / Turning speed is automatically reduced when steering.
- / The integrated stamping molded guardrail offers better protection for the operator.
- / Release braking, reverse braking and emergency braking can ensure safety of traveling.
- / Anti-sliding function on slope can ensure safety of operation.
- / The belly button on top of operating handle can avoid the driver from injury effectively.
- / The soft landing system reduces lowering speed automatically when height from ground to fork is less than 100mm, which provides effective protection for goods.

Comfort

- / The vibration-reduction design of the pedal reduces fatigue of long-duration operation.
- / Operating tiller has beautiful appearance, and function buttons for comfortable operation.
- / The standard configuration of tortoise speed driving function allows the truck to move at slow speed more easily.
- / Optimized mast structure design offers excellent field of view for operations, which is easy for access and exit pallet.

Options

- / Mast height: 2000-4500mm for duplex mast, 3500-5500mm for triplex mast
- / Various fork lengths
- / Sideshift move LH/RH ±100mm

Standard Specification

- / AC driving motor
- / CURTIS AC / ZAPI AC controller
- / Controller for pump motor
- / EPS (Electric Power Steering) system
- / Automatic deceleration at turns
- / Proportional speed regulation for all fork operations
- / Pedal and guardrail
- / Emergency power off switch
- / Multi-function battery condition meter
- / High-performance loading wheels, addtional wheels
- / Fork length 1070mm
- / Adjustable outer distance of forks within the range of 200-750mm
- / Fork tilt forward / backward: 3° / 5°
- / Load backrest
- / 2.7m duplex mast with double lifting cylinders
- / Soft landing system
- / Multi-function tiller
- / Traveling speed will be automatically reduced after fork lifting 500mm
- / Reach distance of fork: 590mm
- / Battery capacity: 280Ah for 1.2t model, 340Ah for 1.6t model



A Series High Range Stand-on Pallet Stacker With Mast Move

Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.	
	1.2	Manufacturer's type designation		CDD12-AC1S-M CDD12-AZ3S-M	CDD16-AC1S-M CDD16-AZ3S-M
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Standing
	1.5	Rated capacity/rated load	Q(kg)	1200	1600
	1.6	Load centre distance	c(mm)	500	500
	1.8	Load distance , centre of load axle to fork	x (mm)	450	450
	1.9	Wheelbase	y (mm)	1341	1341
	2.1	Service weight	kg	1800	2000
Tyres chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane
	3.2	Tyre size , front	mm	Φ230×75	Φ230×75
	3.3	Tyre size , rear	mm	Φ210×85	Φ210×85
	3.4	Tyre size , Additional wheel	mm	Φ125×50	Φ125×50
	3.5	Wheels , number front/rear(*=driven wheels)		1×+2/2	1×+2/2
	3.6	Tread, front	b10 (mm)	497	497
Dimensions	3.7	Tread, rear	b11 (mm)	981	981
	4.1	Tilt of fork carriage forward/backward	α/β(°)	3/5	3/5
	4.2	Height , mast lowered	h1 (mm)	1930	1930
	4.4	Lift	h3 (mm)	2700	2700
	4.5	Height , mast extended	h4 (mm)	3655	3655
	4.8	Stand height	h7(mm)	170	170
	4.10	Height of wheel arms	h8 (mm)	226	226
	4.19	Overall length	l1 (mm)	2202	2202
	4.20	Length to face of forks	l2 (mm)	1132	1132
	4.21	Overall width	b1/b2(mm)	1040/1074	1040/1074
	4.22	Fork dimensions	s/e/l (mm)	35/100/1070	35/100/1070
	4.24	Fork-carriage width	b3(mm)	902	902
	4.25	Distance between fork-arms	bs (mm)	200-750	200-750
	4.26	Distance between wheel arms	b4(mm)	772	772
	4.28	Reach distance	l4(mm)	590	590
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	55	55
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2617	2617
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2654	2654
	4.35	Turning radius	Wa (mm)	1600	1600
	4.37	Length across wheel arms	l7(mm)	1704	1704
Performance data	5.1	Travel speed, laden/unladen	km/h	5.5/6.0	5.5/6.0
	5.2	Lift speed, laden/unladen	m/s	0.140/0.200	0.110/0.170
	5.3	Lowering speed, laden/unladen	m/s	0.190/0.155	0.175/0.130
	5.4	Reaching speed , laden/unladen	m/s	0.100/0.100	0.100/0.100
	5.8	Max.gradeability , laden/unladen	%	6/10	6/10
	5.10	Service brake		Electromagnetic braking	Electromagnetic braking
Electric- engine	6.1	Drive motor rating S2 60 min	kW	1.5	1.5
	6.2	Lift motor rating at S3 15%	kW	3	3
	6.4	Battery voltage/nominal capacity K5	V/Ah	24/280	24/340
	6.5	Battery weight	kg	250	280
Addition data	8.1	Type of drive control		AC CURTIS AC ZAPI	AC CURTIS AC ZAPI
	10.5	Steering design		EPS	EPS

1.2t/1.6t Mast specification

Type	Fork lift height h3	Mast lowered h1	Mast extended h4	Free lift height	Capacity	
					Load capacity at 500mm	
Wide view mast	mm	mm	mm	mm	1.2t	1.6t
	2000	1580	2955	0	1200	1600
	2500	1830	3455	0	1200	1600
	2700	1930	3655	0	1200	1600
	3000	2080	3955	0	1200	1500
	3300	2230	4255	0	1200	1400
	3500	2330	4455	0	1150	1350
	3600	2380	4555	0	1150	1350
	3700	2430	4655	0	1100	1300
	3800	2480	4755	0	1100	1300
	4000	2680	4955	0	1050	1250
	4300	2830	5255	0	1000	1200
	4500	2930	5455	0	950	1150
	3500	1875	4455	920	1150	1350
Wide view full free triplex mast	3700	1940	4655	985	1100	1300
	4000	2040	4955	1085	1050	1250
	4300	2140	5255	1185	1000	1200
	4500	2190	5455	1235	950	1150
	4700	2290	5655	1335	900	1100
	5000	2390	5965	1435	850	1050
	5200	2440	6155	1485	800	1000
	5500	2540	6455	1585	750	950

Application

/ Carrying two pallets at a time, improve working efficiency; extraordinary traction in crossing door and dock.

Operator Controls

/ With the new design of ergonomic tiller head, all buttons can be reached conveniently & comfortably.

Electrical And Drive Unit

/ World-class hydraulic power pack, with low noise, few vibration and excellent leak tightness, automatically adjusts the rate of decline whether loaded or unloaded, and ensures smooth lifting. The innovative AC system offers quick response, accurate control, impact structure, excellent performance, longer battery working life. American AMP connectors with top quality, prevents moisture and contaminants from interrupting truck operation in all environments, plus all the wires and cables reliably protected and fixed, greatly reduces the electrical error.

Regenerative Brakes

/ The latest AC controller, high reliability, with regenerated braking, anti-roll back and adjustable settings, ensures the best performance in the different states. Anti-roll back available as standard to prevent uncontrolled traveled travel speed or roll-back on ramps when loading and unloading.



800 kg capacity



Reliability

/ Explosion-proof valve installed under lifting cylinder, prevent the mast go down quickly if the oil pipe broken. H shape mast improves the strength of the whole truck. Easy-Touch emergency plug mounted at up-right side on truck frame help operator take immediate action for any emergent happens. The truck switches to low speed mode automatically when lifting higher than 0.5m, more secure.
/ Sideway battery design of 1.2t for easy battery replacement.

Options

/ Different fork length / High battery capacity for different model

CDD10-W-D

		Lift Height(mm/in)	Capacity(kg/lb)
	Surport Arm	210/8.3	1800/3968
	Mast Fork	1600/63	1000/2205
	Mast Fork	3000/118	800/1764
	Surport Arm	210/8.3	1000/2205
	Mast Fork	1600/63	800/1764

CDD12-W-D

		Lift Height(mm/in)	Capacity(kg/lb)
	Surport Arm	210/8.3	2000/4409
	Mast Fork	1600/63	1200/2646
	Mast Fork	3000/118	1000/2205
	Surport Arm	210/8.3	1000/2205
	Mast Fork	1600/63	1000/2205

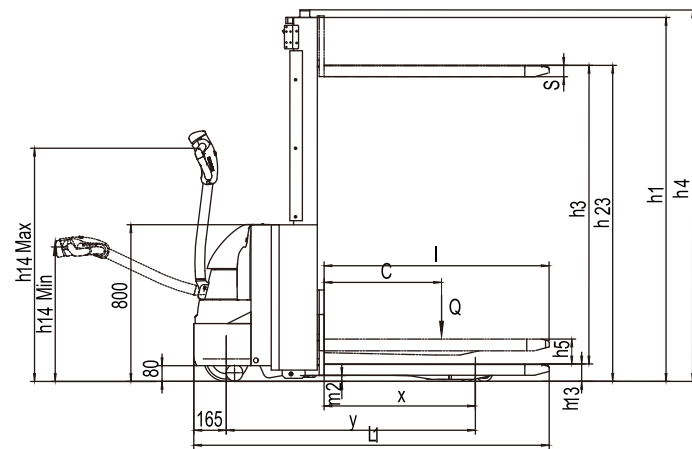
Electric Stacker With Initial Lift

Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.		
	1.2	Manufacturer's type designation		CDD08-W-D	CDD10-W-D	CDD12-W-D
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian	Pedestrain	Pedestrain
	1.5	Rated capacity	Q(kg/lb)	800/1764	1000/2205	1200/2646
Weight		Support arm capacity/fork and support arm capacity	Q(kg/lb)	2000/4409	1800/3968	2000/4409
	1.6	Load center distance	c(mm/in)	600/23.6	600/23.6	600/23.6
	1.8	Load distance , centre of drive axle to fork	x(mm/in)	813/32.0	701/27.6	701/27.6
	1.9	Wheelbase	y(mm/in)	1275/50.2	1275/50.2	1275/50.2
Tyres chassis	2.1	Service weight (Include battery)	kg/lb	660/1455	990/2183	1050/2315
	2.2	Axle loading, laden driving side/loading side	kg/lb	580/890 (1278/1962)	730/1260 (1609/2778)	775/1475 (1709/3252)
	2.3	Axle loading, unladen driving side/loading side	kg/lb	450/210 (992/463)	680/310 (1499/683)	715/335 (1576/739)
	3.1	Tyre type Driving wheels/Loading wheels		PU/PU	PU/PU	PU/PU
Dimensions	3.2	Tyre size, driving wheels	mm/in	Φ230x75 Φ9.1x3.0	Φ230x75 Φ9.1x3.0	Φ230x75 Φ9.1x3.0
	3.3	Tyre size, loading wheels	mm/in	Φ85x70 Φ3.3x2.8	Φ85x70 Φ3.3x2.8	Φ85x70 Φ3.3x2.8
	3.4	Tyre size, caster wheels	mm/in	Φ85x48 Φ3.3x1.9	Ø130×55 Ø5.1×2.2	Ø130×55 Ø5.1×2.2
	3.5	Wheels, number driving , caster/loading (x=drive wheels)	mm/in	1x +2 / 4	1x +1/4	1x +1/4
	3.6	Track width, front,driving side	b10(mm/in)	505/20.0	538/21.2	538/21.2
	3.7	Track width,rear,loading side	b11(mm/in)	366/14.4	370/14.6	370/14.6
	4.2	Height, mast lowered	h1(mm/in)	1860/73.2	1265/49.8	1265/49.8
Performance Data	4.3	Free lift	h2(mm/in)	1680/66.1	100/3.9	100/3.9
	4.4	Lift	h3(mm/in)	1480/58.3	1600/63.0	1600/63.0
		Lift height	h23(mm/in)	1580/62.2	3000/118.1	3000/118.1
	4.5	Height, mast extended	h4(mm/in)	1895/74.6	2119/83.4	2119/83.4
	4.6	Initial lift	h5(mm/in)	120/4.7	125/4.9	125/4.9
	4.9	Height drawbar in driving position min./max.	h14mm/(in)	715/1200 (28.1/47.2)	825/1225 (32.5/48.2)	825/1225 (32.5/48.2)
	4.15	Lowered height	h13(mm/in)	95/3.7	85/91 (3.3/3.6)	85/91 (3.3/3.6)
	4.19	Overall length	l1(mm/in)	1776/70.0	1847/72.7	1847/72.7
	4.20	Length to face of forks	l2(mm/in)	666/26.2	697/27.4	697/27.4
	4.21	Overall width	b1/b2(mm/in)	738/710 (29.1/28.0)	800/31.5	800/31.5
	4.22	Fork dimensions	s/e/l(mm/in)	60/190/1150 2.4/7.5/45.3	60/190/1150 2.4/7.5/45.3	60/190/1150 2.4/7.5/45.3
	4.24	Fork carriage width	b3(mm/in)	680/26.8	680/26.8	680/26.8
	4.25	Distance between fork-arms	b5(mm/in)	560/22.0	560/22.0	560/22.0
	4.31	Ground clearance, laden, below mast	m1(mm/in)	30/1.2	30/1.2	30/1.2
	4.32	Ground clearance, center of wheelbase	m2(mm/in)	30/1.2	30/1.2	30/1.2
Electric- engine	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast(mm/in)	2274/89.5	2400/94.5	2400/94.5
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast(mm/in)	2198/86.5	2263/89.1	2263/89.1
	4.35	Turning radius	Wa(mm/in)	1442/56.8	1423/56.0	1423/56.0
	5.1	Travel speed, laden/ unladen	km/h mph	5/5.5 3.1/3.4	5/5.5 3.1/3.4	5/5.5 3.1/3.4
Others	5.2	Lifting speed, laden/ unladen	m/s (ft/min)	0.14/0.2 (27.6/39.4)	0.1/19.7	0.1/19.7
	5.3	Lowering speed, laden/ unladen	m/s (ft/min)	0.2/0.13 (39.4/25.6)	0.19/0.18 (37.4/35.4)	0.19/0.18 (37.4/35.4)
	5.8	Max. gradeability, laden/unladen	%	8/16	8/16	8/16
	5.10	Service brake type		Electromagnetic	Electromagnetic	Electromagnetic
Electric- engine	6.1	Drive motor rating S2 60 min	kW/hp	1.27/1.7	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	2.2/3.0
	6.3	The maximum allowed size battery	mm/in	260x260x180 10.2x10.2x7.1	288x180x560 31.0x7.1x22.0	288x180x560 31.0x7.1x22.0
	6.4	Battery voltage/nominal capacity K20	V/Ah	4x6V/224	24/160	24/210
	6.5	Battery weight	kg/lb	120 / 265	160 / 353	190 / 419
Others	8.1	Type of drive unit		AC	AC ZAPI	AC ZAPI
	10.5	Steering type		Mechanical	Mechanical	Mechanical
	10.7	Sound pressure level at the driver's ear		74	74	74

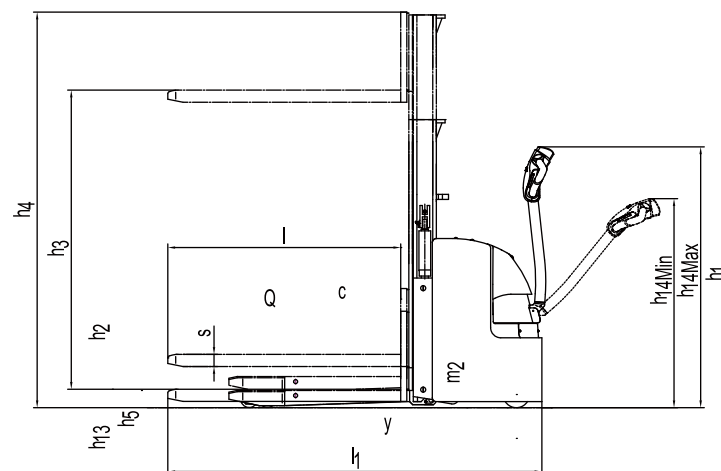
Remark: The parameters in the table are of the standard model, for more information, please contact us.
The paramaters are subject to change without notice.

Mast Specification:

Standard mast types (mm)				
Mast Types	Height , mast lowered (h1)	Free lift(h2)	Lift height(h3)	Height ,mast extended (h4)
CDD10-W-D CDD12-W-D	mm/in	mm/in	mm/in	mm/in
	1265/49.8	100/3.9	1520/59.8	2119/83.4
	1820/71.7	100/3.9	2630/103.5	3229/127.1
	1970/77.6	100/3.9	2930/115.4	3529/138.9
	2120/83.5	100/3.9	3230/127.2	3829/150.7
	2270/89.4	100/3.9	3530/139.0	4129/162.6



CDD08-W-D
Dimensions



CDD10(12)-W-D
Dimensions



Hand Pallet Stacker

with capacities of 1,000 to 2,000kg

Introduction

SDA (Single mast)

Reliable performance with easy maintenance

- / High quality mast steel ensures rigidity, durability.
- / Integral pump, which prevents loosening, leak-proof.
- / High efficiency pump, operating lighter, more comfortable.
- / Lifting speed keeps smooth regardless of loading weight, which is safe to use.



SDA (Double mast)

- / The stacker can be lifted by handle or foot pedal.
- / Hand control valve precise control convenience.
- / Set the active safety valve to prevent overloading of use.
- / Maintenance-free design, ensures security, reduces service cost.



1.0-2.0t Hand Pallet Stacker

Model		SDA1016	SDA1516	SDA2016	SDA1025	SDA1030	SDA1525	SDA1530
Load capacity/rated load	Q(kg/lb)	1000/2205	1500/3307	2000/4409	1000/2205	1000/2205	1500/3307	1500/3307
Load centre distance	C(mm/in)	500/20	400/16	400/16	500/20	500/20	400/16	400/16
Service weight	Kg/lb	250/550	270/595	290/640	290/640	316/697	310/683	336/741
Lowered mast height	h ₁ (mm/in)	2080/82	2080/82	2080/82	1830/72	2080/82	1830/72	2080/82
Lifting height	h ₃ (mm/in)	1600/63	1600/63	1600/63	2500/98	3000/118	2500/98	3000/118
Overall height	h ₄ (mm/in)	2080/82	2080/82	2080/82	3080/121	3080/121	3580/141	3580/141
Fork lowered height	h ₁₃ (mm/in)	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5	90/3.5
Ground clearance	m ₁ (mm/in)	25/1	25/1	25/1	25/1	25/1	25/1	25/1
Turning radius	W _a (mm/in)	1200/47	1200/47	1200/47	1200/47	1200/47	1200/47	1200/47
Lifting speed with/without load	m/s (ft/min)	0.010/0.011 (2.0/2.2)	0.010/0.011 (2.0/2.2)	0.010/0.011 (2.0/2.2)	0.010/0.011 (2.0/2.2)	0.010/0.011 (2.0/2.2)	0.010/0.011 (2.0/2.2)	0.010/0.011 (2.0/2.2)



A Series Reach Truck
with capacities of 1,200 to 2,000kg

The reach truck is suitable for working in narrow passageway and confined space, with high lifting and load capacity, and is the ideal tool for loading, unloading, handling, and stacking in warehouse, supermarket, and workshop.



Appearance

/ The worldwide popular, great-circle, streamlined surface modeling is applied, with smooth, beautiful, and elegant appearance.

Stability

/ The broad and solid chassis and steady reach mechanism, as well as the drive unit that is fixed at center, realize low gravity center, and guarantee sufficient stability of the truck.

Flexibility

/ The driving system that is located at rear part of chassis uses EPS (Electric Power Steering) technology, features low-speed and large torque. Automatic centering function upon starting up, and the 360-degree steering mode of standard configuration, make the truck flexible and convenient, and allow it turn easily even in confined space.

Comfort

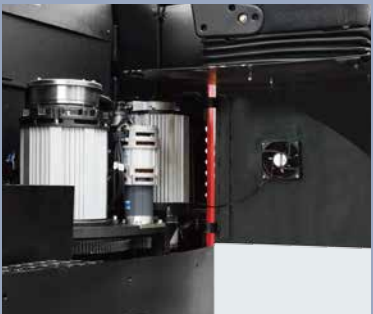
- / Operating levers of ergonomic design, integrated console, all important operating parts are within the reach of your hands.
- / The mast of optimized design with wide view avoids blocking the sight of the operator, and large size of the fork shelf offers wider view.
- / The seat can be adjusted forward and backward, also with the function of vibration reduction.
- / The truck body with increased width and height offers larger operating space for hands and legs of the operator.
- / The new designed overhead guard structure allows the operator to observe the movement of load more clearly.

Maintenance

- / The fully-opened cover provides easy maintenance for motor, controller and transmission, braking, and hydraulic systems.
- / The battery compartment can be removed forward, so replacement or maintenance is very easy.



Wider view OHG



High-performance motor



Comfortable and convenient seat



Instrument can display the steering angle and direction Synchronously



The steering wheel is extensible, so the operator can choose the best driving position



Advance

- / Three-phase AC technology is applied for driving and steering, both DC and AC technologies are available for lifting. Full AC power system has higher efficiency, and is free maintenance. And the semi-AC power system is highly cost effective.
- / The internationally cutting-edge MOSFET integrated controller guarantees smooth and accurate control on driving, steering and lifting, as well as superior speed regulation performance, with regenerative braking, reverse braking, anti-slipping on slope and other functions, resulting in more efficient, safer operations.
- / The LCD battery condition meter, timer, fault self-diagnosis meter, and display can not only display most important operating data, driving direction and location of driving wheels that are interactive with steering, but also realize accurate display in harsh environment.
The full AC truck is equipped with non-backlash, high pressure / resistant, silent gear pump, and the semi-AC truck is equipped with low-noise gear pump of tooth graduation technology.
The full AC truck is equipped with stepless speed regulation for lifting operation, descending self-locking in case of power / failure, and double protection of hydraulic buffer and electrical deceleration for forward and backward movements. The semi-AC truck is equipped with two-level speed regulation for lifting operation, and protection of hydraulic buffer for forward and backward movements.
- / The CANBUS communication technology is applied to monitor motor speed, temperature, and other information in real time, realizing closed-loop control.
- / The truck has a triple braking mechanism, i.e. electronic braking (reverse regenerative braking), front wheel hydraulic braking, and electromagnetic parking braking.

Reliability & Safety

- / Major electrical components such as controller, contactor, and power plug are all of foreign famous brands.
- / As a standard configuration, the emergency power off switch complies with European safety standards.
- / Electronic and hydraulic overload protection, power-failure lock up of fork, and safe pedal.

Benefits of the AC Power System

- / The AC power system has high efficiency, full protection functions, powerful acceleration performance, sensitive and fast steering.
- / The brushless, maintenance-free AC motor has longer service life, and lower maintenance cost.

High-performance Mast

- / The operator has wider view in the load direction.
- / Built-in sideshifter and fork tilting are standard configuration.
- / The mast made with imported steel channels and compact structural design has a maximum lifting height: 12500mm.
- / The mast made with domestic steel channels and broad-view design is cost effective.
- / Height monitoring and lifting height limitation system are optional.



Battery can be removed forward, easy for maintenance

Traction device



Standard Specification

- / PU (polyurethane) driving wheel and load wheels
- / High-capacity battery
- / Emergency power off switch
- / 4 spools control valves
- / Stepless speed regulation for lifting operation for C4 model
- / Two level speed regulation for lifting operation for C3 model
- / Protection of hydraulic (for C3 model) and electrical buffer for forward and backward movements for C4 model
- / Arm cushion, and impact-proof head cushion
- / Adjustable seat with OPS switch
- / Full computer control for driving, steering
- / Standard configuration of 360-degree steering mode
- / 3m duplex mast
- / Adjustable steering wheel
- / Front wheel protection hood
- / Safety pedal
- / Descending self-locking in case of power failure
- / CE safety requirements

Options

- / 2.7-5.0m duplex mast, built-in sideshifter, fork tilting
- / 4.3-12.5m full-free triplex mast (C4 model), 4.3-7.0m full-free triplex mast (C3 model, built-in side shifter, fork tilting)
- / Various fork lengths
- / Imported high-performance battery
- / Optional large capacity battery 420Ah, 560Ah
- / Full automatic high-frequency charger
- / Other attachments
- / Larger load backrest
- / Load and drive wheels use the Vulkollan material
- / Height monitoring system
- / Lifting height limitation system
- / Alarm lamp, rear headlamp or other lamps
- / Reverse buzzer
- / Descending self-locking in case of power failure for C3 model
- / C3 model: Full free triplex mast is option for lifting height >7m

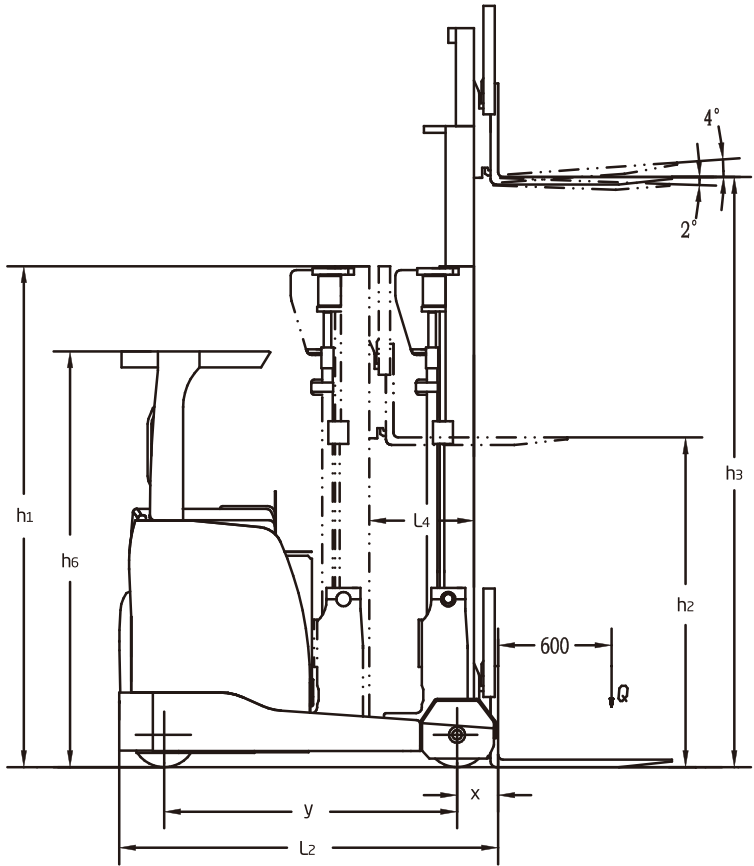
A Series Reach Truck

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.									
	1.2	Manufacturer's type designation		CQD12-AC3	CQD12-AC4	CQD14-AC3	CQD14-AC4	CQD16-AC3	CQD16-AC4	CQD18-AC3	CQD18-AC4	CQD20-AC3	CQD20-AC4
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		electric	electric	electric	electric	electric	electric	electric	electric	electric	electric
	1.5	Rated capacity/rated load	Q (kg)	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	308	308	308	308	218	218	218	218	288	288
	1.9	Wheelbase	y (mm)	1480	1480	1480	1480	1480	1480	1480	1480	1550	1550
Weight	2.1	Service weight(including battery)	Kg	3110	3110	3110	3110	3300	3300	3310	3310	3320	3320
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		polyurethane									
	3.2	Tyre size, front ×2	mm	285x100	285x100	285x100	285x100	285x100	285x100	343x108	343x108	343x108	343x108
	3.3	Tyre size, rear	mm	343x114	343x114	343x114	343x114	343x114	343x114	343x135	343x135	343x135	343x135
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4	2/4
	4.2	Height, mast lowered	h ₁ (mm)	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
	4.3	Free lift	h ₂ (mm)	340	340	340	340	340	340	340	340	340	340
	4.4	Lift	h ₃ (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	4.7	Height of overhead guard	h ₆ (mm)	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
	4.20	Length to face of forks	l ₂ (mm)	1935	1935	1935	1935	1935	1935	1935	1935	2005	2005
	4.21	Overall width	b ₁ (mm)	1270	1270	1270	1270	1270	1270	1286/1270	1286/1270	1286/1270	1286/1270
	4.22	Fork dimensions ISO	s/e/l (mm)	40×122×1070									
	4.25	Distance between fork-arms	b _s (mm)	244-882	244-882	244-882	244-882	244-882	244-882	244-882	244-882	244-882	244-882
	4.28	Reach distance	l ₄ (mm)	525	525	525	525	435	435	435	435	505	505
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm)	2851	2851	2851	2851	2921	2921	2921	2921	2935	2935
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm)	2913	2913	2913	2913	2995	2995	2995	2995	3000	3000
	4.35	Turning radius	W _a (mm)	1735	1735	1735	1735	1735	1735	1735	1735	1804	1804
	Performance data	5.1	Travel speed	Km/h	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
5.2		Lift speed	m/s	0.260	0.280	0.260	0.280	0.260	0.280	0.260	0.280	0.260	0.280
5.3		Lowering speed	m/s	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400
5.8		Max. gradeability	%	10	10	10	10	10	10	10	10	10	10
Electric- engine	6.1	Drive motor rating S2 60 min	kW	AC 6.5	AC 6.5	AC 6.5	AC 6.5	AC 6.5	AC 6.5	AC 6.5	AC 6.5	AC 6.5	AC 6.5
	6.2	Lift motor rating at S3 15%		DC8.6	AC 12.8 AC 14.5★	DC8.6	AC 12.8 AC 14.5★	DC8.6	AC 12.8 AC 14.5★	DC8.6	AC 12.8 AC 14.5★	DC8.6	AC 14.5
		Steering motor	kW	AC 0.67	AC 0.67	AC 0.67	AC 0.67	AC 0.67	AC 0.67	AC 0.67	AC 0.67	AC 0.67	AC 0.67
Addition data	6.4	Battery voltage, nominal capacity K5	V/Ah	48/400	48/400	48/400	48/400	48/500	48/500	48/500	48/500	48/500	48/500
	8.1	Type of drive control		Semi-AC	Full AC	Semi-AC	Full AC	Semi-AC	Full AC	Semi-AC	Full AC	Semi-AC	Full AC
		Manufacturer/Type		CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS	CURTIS
	10.1	Operating pressure for attachments	bar	140	140	140	140	165	165	185	185	210	210
	10.7	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	<75	<75	<75	<75	<75	<75	<75	<75	<70	<70

Note:★ means mast lift>7m

1.2t-2.0t Mast specification

Type	Model	Lifting height	Overall height		Free lifting height	Tilting range		Load center@600mm									
			Lowered	Without backrest		Forward	Backward	1.2t C3	1.2t C4	1.4t C3	1.4t C4	1.6t C3	1.6t C4	1.8t C3	1.8t C4	2.0t C3	2.0t C4
Wide view duplex mast	QA20B	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
		2700	1950	3355	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		3000	2100	3655	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		3300	2250	3955	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		3500	2350	4155	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		3600	2400	4255	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4000	2650	4655	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4300	2790	4955	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4500	2900	5155	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4800	3095	5495	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		5000	3195	5695	340	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4300	2085	5030	1365	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4500	2165	5230	1445	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		4800	2265	5530	1545	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
Full free triplex mast	QA20V	5000	2315	5730	1595	2	4	1200	1200	1400	1400	1600	1600	1800	1800	2000	2000
		5500	2490	6230	1770	2	4	1200	1200	1300	1300	1500	1500	1700	1700	1900	1900
		6000	2665	6730	1945	2	4	1200	1200	1200	1200	1400	1400	1600	1600	1800	1800
		6500	2815	7230	2095	2	4	1100	1100	1100	1100	1300	1300	1500	1500	1700	1700
		7000	2975	7730	2255	2	4	1000	1000	1000	1000	1200	1200	1400	1400	1600	1600
		7500	3230	8190	2540	2	4	\	1000	\	1000	\	1200	\	1400	\	1600
		8000	3400	8670	2730	2	4	\	900	\	900	\	1100	\	1300	\	1500
		8500	3630	9170	2960	2	4	\	800	\	800	\	1000	\	1200	\	1400
		9000	3860	9670	3186	2	4	\	700	\	700	\	900	\	1100	\	1300
	QA20V (imported steel)	9500	4030	10170	3360	2	4	\	\	\	\	\	800	\	1000	\	1200
		10000	4200	10680	3520	2	4	\	\	\	\	\	750	\	900	\	1150
		10500	4350	11170	3680	2	4	\	\	\	\	\	700	\	800	\	1100
		11000	4550	11670	3880	2	4	\	\	\	\	\	\	\	750	\	1050
		11500	4800	12200	4100	2	4	\	\	\	\	\	\	\	700	\	1000
		12000	5050	12690	4360	2	4	\	\	\	\	\	\	\	\	\	900
		12500	5300	13200	4600	2	4	\	\	\	\	\	\	\	\	\	800





J Series Reach Truck (seat-on)

with capacities of 1,200 to 2,000kg

The New J series Electric Reach Truck, 1.2-2.0 ton, apart from its excellent performance, is also very economical. The reach trucks are used wherever space is confined and where heavy loads are to be raised to high lift heights.

Introduction

- / The drive's compartment, through generous dimensioning, provides the driver with a comfortable body position. The excellent all-around visibility and the low noise level add to the ease of working.
- / The operator compartment incorporates controls for hydraulic functions, direction control, horn, lights and handbrake, all within convenient reach of the operator. Padded armrest, rubber floor mat and resin coated control knobs ensure comfort for daylong operation. The tilt of the steering column can be freely adjusted to any degree.
- / Curtis made Multi-function instrument, together with the multi display monitor provide information and function input to the operator to allow optimum performance and operator confidence.
- / Drive and hydraulic control fitted as standard. MOSFET CHOPPER, Power transistors with high impulse frequencies control the motors in an energy saving and noiseless manner. The drive control permits jerk-free starting and a strong acceleration. Adjustable energy feedback on releasing the drive pedal through regenerative braking.
- / The chassis design and steering geometry provide an outstanding turning radius of 1675mm and reach stroke of 602mm (1.4 ton model). The steering angle of 90° in each direction further enhances maneuverability. These specifications ensure improved safety clearances in confined spaced with high loading.
- / Low noise, less pollution and energy saving, these features all satisfied with environment protection.
- / Drive and electronics cover may be opened quickly and easily for servicing and maintenance work. The service access door on the truck provides excellent access to the major service components. All motors, drive gearbox, pumps, brakes and steering are easily accessible.



Standard Specification

- / PU drive wheel & support wheel
- / High capacity storage battery
- / Emergency disconnect switch
- / Arm rest, head protector
- / High elastic seat
- / Drive, lift, steering electric controlled
- / LED Instrument and LCD hour meter
- / 3 meters Duplex mast
- / Adjustable steering column
- / Front head lamp
- / CURTIS MOSFET chopper controller
- / Integrated sideshift
- / Front wheel protect cover

Options

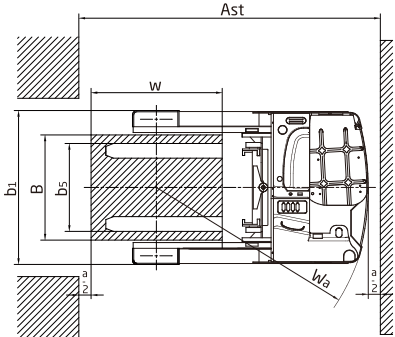
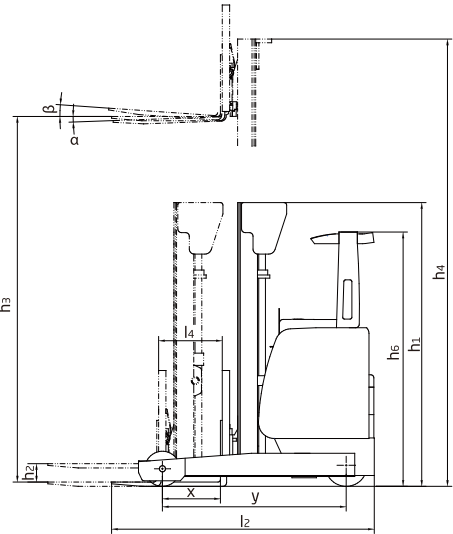
- / AC motor
- / Safety pedal
- / 4.3-8 meters Triplex mast
- / 2.7-4.5 meters Duplex mast
- / With attachment
- / Automatic high frequency charger
- / High capacity battery
- / Higher or wider backrest
- / Side battery change



J Series Reach Truck (seat-on)

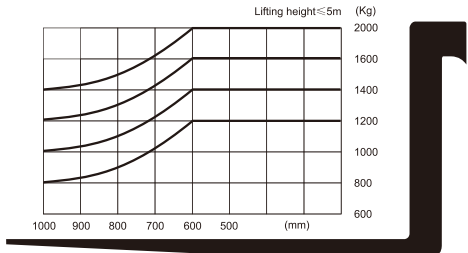
Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.												
	1.2	Manufacturer's type designation		CQD12H-JC2	CQD12H-JC3	CQD12H-JC4	CQD14H-JC2	CQD14H-JC3		CQD14H-JC4	CQD16H-JC2	CQD16H-JC3	CQD16H-JC4	CQD20H-JC2	CQD20H-JC3	CQD20H-JC4
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Battery			Battery			Battery			Battery			
	1.5	Rated capacity/rated load	Q (kg/lb)	1200/2646			1400/3086			1600/3527			2000/4409			
	1.6	Load centre distance	c (mm/in)	600/23.6			600/23.6			600/23.6			600/23.6			
	1.8	Load distance, centre of drive axle to fork	x(mm/in)	390/15.4			390/15.4			330/13.0			330/13.0			
	1.9	Wheelbase	y(mm/in)	1420/55.9			1420/55.9			1420/55.9			1500/59.1			
Weight	2.1	Service weight	Kg/lb	2850/6283			2850/6283			3000/6614			3250/7165			
Tyres, chassis	3.2	Tyre size, front	(mm/in)	285x100/11.2x3.9			285x100/11.2x3.9			285x100/11.2x3.9			343x108/13.5x4.3			
	3.3	Tyre size, rear	(mm/in)	343x114/13.5x4.5			343x114/13.5x4.5			343x114/13.5x4.5			343x114/13.5x4.5			
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	2/4			2/4			2/4			2/4			
	4.2	Height, mast lowered	h ₁ (mm/in)	2100/82.7			2100/82.7			2100/82.7			2100/82.7			
	4.3	Free lift	h ₂ (mm/in)	340/13.4			340/13.4			340/13.4			340/13.4			
	4.4	Lift	h ₃ (mm/in)	3000/118.1			3000/118.1			3000/118.1			3000/118.1			
	4.5	Height, mast extended	h ₄ (mm/in)	3565/140.4			3565/140.4			3565/140.4			3565/140.4			
	4.7	Height of overhead guard	h ₆ (mm/in)	2075/81.7			2075/81.7			2075/81.7			2075/81.7			
	4.20	Length to face of forks	l ₂ (mm/in)	1802/70.9			1802/70.9			1802/70.9			1882/74.1			
	4.21	Overall width	b ₁ (mm/in)	1240/48.8			1240/48.8			1240/48.8			1272/50.1			
	4.22	Fork dimensions ISO 2331	s/e/l(mm/in)	35×120×920/1.4×4.7×36.2			35×120×920/1.4×4.7×36.2			35×120×920/1.4×4.7×36.2			40×120×1070/1.6×4.7×42.1			
	4.25	Distance between fork-arms	b ₅ (mm/in)	220/896 / 8.7/35.3			220/896 / 8.7/35.3			220/896 / 8.7/35.3			220/896 / 8.7/35.3			
	4.28	Reach distance	l ₄ (mm/in)	602/23.7			602/23.7			542/21.3			542/21.3			
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm/in)	70/2.8			70/2.8			70/2.8			70/2.8			
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2826/111.3			2826/111.3			2878/113.3			2958/116.5			
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2602/102.4			2602/102.4			2637/103.8			2717/107.0			
	4.35	Turning radius	W _a (mm/in)	1675/65.9			1675/65.9			1675/65.9			1775/69.9			
Performance Data	5.1	Travel speed, laden	km/h (mph)	10.2/6.3			10.2/6.3			10.2/6.3			10.2/6.3			
	5.2	Lift speed, laden	m/s (ft/min)	0.26/51.2			0.26/51.2			0.22/43.3			0.21/41.3			
	5.8	Max. gradeability, laden	%	10			10			10			10			
Electric-engine	6.1	Drive motor rating S2 60 min	kW/hp	5.5 AC/7.4 AC	6.5 AC/8.7 AC		5.5 AC/7.4 AC	6.5 AC/8.7 AC		5.5 AC/7.4 AC	6.5 AC/8.7 AC		5.5 AC/7.4 AC	6.5 AC/8.7 AC		
	6.2	Lift motor rating at S3 15%	A _{st} (mm/in)	12.8 AC/17.2 AC	8.6 DC/11.5 DC	12.8 AC/17.2 AC	12.8 AC/17.2 AC	8.6 DC/11.5 DC	12.8 AC/17.2 AC	12.8 AC/17.2 AC	8.6 DC/11.5 DC	12.8 AC/17.2 AC	12.8 AC/17.2 AC	8.6 DC/11.5 DC	12.8 AC/17.2 AC	
		Battery type		D-400B			D-400B			D-500			D-500			
	6.4	Battery voltage, nominal capacity K5	V/Ah	48/400			48/400			48/500			48/500			
	6.5	Battery weight	kg/lb	760/1676			760/1676			900/1984			900/1984			
	8.1	Type of drive control		AC			AC			AC			AC			
	9.1	Manufacturer/Type		CURTIS			CURTIS			CURTIS			CURTIS			
Addition data	10.1	Operating pressure for attachments	bar	145			145			145			145			

- 1.Special lifting height available (2.7m,3.5m,3.6m,4m,4.3m,4.5m,4.8m,5m,5.5m,6m,6.5m,7m,7.5m, 8m,8.5m).
- 2.Attachment available.
- 3.Battery charger available.
- 4.The specification in this table are for standard models only. For further information please contact us.
- 5.Specification are subject to change without notice.



$$Ast = \sqrt{(W-X)^2 + (B/2)^2} + Wa + a$$

- a: safety clearance
- B: pallet width
- W: pallet length



1.2-2.0t Mast Specification:

Type	Model	Max. fork height	Overall height		Free lift		Tilt range		Capacity				Tilting method
			Lowered	Extended	With backrest		FWD	RWD	Load Capacity at 600mm/23.6inch				
				With backrest	1.2t/2646lb ~ 1.6t/3527lb	2.0t/ 4409lb			CQD12H	CQD14H	CQD16H	CQD20H	
Wide view mast	1.4QM/2QM	2700/106.3	1925/75.8	3655/143.9	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	Mast tilting
		3000/118.1	2075/81.7	3955/155.7	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		3300/129.9	2225/87.6	4255/167.5	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		3500/137.8	2325/91.5	4455/175.4	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		3600/141.7	2375/93.5	4555/179.3	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		4000/157.5	2625/103.3	4955/195.1	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		4300/169.3	2790/109.8	5255/206.9	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		4500/177.2	2900/114.2	5455/214.8	335/13.2	340/13.4	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		4300/169.3	2085/82.1	5255/206.9	1270/50.0	1140/44.9	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		4500/177.2	2165/85.2	5455/214.8	1275/50.2	1220/48.0	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
Wide view full free Triplex mast	1.4qm/2QN	4800/189.0	2265/89.2	5755/226.6	1375/54.1	1320/52.0	2	4	1200/2646	1400/3086	1600/3527	2000/4409	Fork carriage tilting
		5000/196.9	2315/91.1	5955/234.4	1475/58.1	1370/53.9	2	4	1200/2646	1400/3086	1600/3527	2000/4409	
		5500/216.5	2490/98.0	6455/254.1	1625/64.0	1545/60.8	2	4	1100/2425	1300/2866	1500/3307	1900/4189	
		6000/236.2	2665/104.9	6955/273.8	1775/69.9	1720/67.7	2	5	1000/2205	1200/2646	1400/3086	1800/3968	
		6500/255.9	2815/110.8	7455/293.5	1975/77.8	1870/73.6	2	5	900/1984	1100/2425	1300/2866	1600/3527	
		7000/275.6	2975/117.1	7955/313.2	2155/84.8	2030/79.9	2	5	850/1874	1000/2205	1200/2646	1400/3086	
		7500/295.3	3145/123.8	8455/332.9	2315/91.1	2200/86.6	2	5	750/1653	900/1984	1100/2425	1200/2646	
		8000/315.0	3310/130.3	8955/352.6	2485/97.8	2365/93.1	2	5	600/1323	700/1543	900/1984	1000/2205	
		8500/334.6	3510/138.2	9455/372.2	2655/104.5	2565/101.0	2	5	450/992	500/1102	700/1543	800/1764	



J Series Reach Truck (stand-on)

with capacities of 1,500 to 2,000kg

The new J series electric stand-on reach truck with 1.5-2.0t load capacity is ideal for limited space operation.

Ergonomics

- / Spacious operator compartment, integrated dashboard, and ergonomic layout of controllers, all these make the operator in a comfortable condition.
- / Optimized mast design provides grand view to operator, and the soft landing system also provides extra protection to the loads.

Reliability

- / All the main electric components like controllers, connectors, plug and emergency switch are imported famous brands. And the emergency switch is the standard specification. Electric and hydraulic system have the over loading protection system.
- / The truck is applied imported Germany INTORQ electric magnetic brake, more running reliable. Less connectors are applied which minus the after service cost.
- / High frequency Mosfet controller make sure the reliability of drive and lifting control, and with three independent braking system.

Serviceability

- / Fully opened cover makes easy reach to internal components. And the full sealed electric components make them free to water and dust. With easy to remove battery, the components are more easy to reach.

Maneuverability

- / Thanks to the right and left 90° turning of drive wheel, the truck's turning radius is small and stacking aisle wide too.

Standard Specification

- / Japan CCI PU tyre
- / Germany INTORQ brake and Hyundai accelerator
- / Emergency switch
- / 3m-2 stage wide view mast
- / Integrated side shift
- / Reverse beeper
- / Rear view mirror
- / File box
- / Grip

Options

- / Rubber drive wheel
- / 4.3m-7.5m triplex mast
- / 2.7m-4.5m duplex mast with free lift
- / Different dimension forks
- / Attachments
- / Lifting height indicator
- / Cold store
- / Camera system

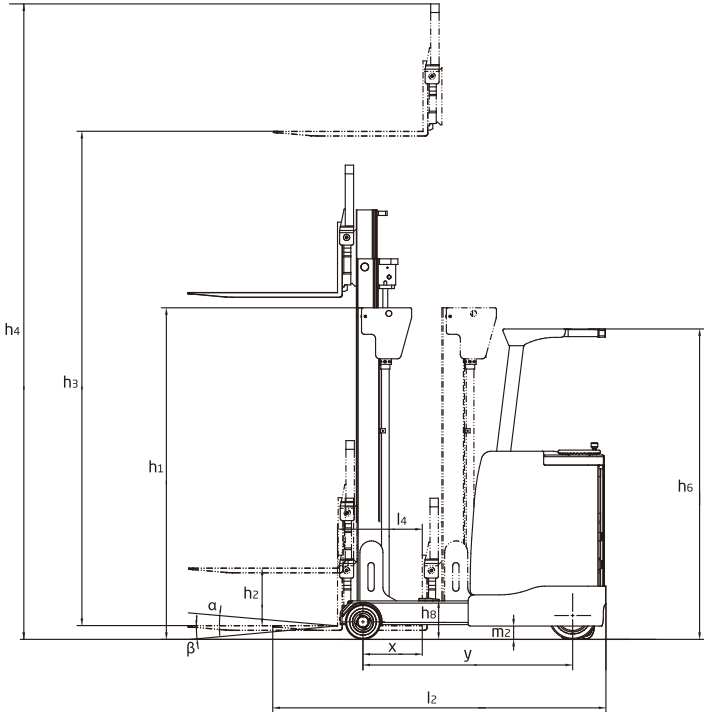


J Series Reach Truck (stand-on)

Distinguishing marks	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.						
	1.2	Manufacturer's type designation		CQD15H-SC1	CQD18H-SC1	CQD20H-SC1	CQD15H-SC2	CQD18H-SC2	CQD20H-SC2	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Battery	Battery	Battery	Battery	Battery	Battery	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Standing	Standing	Standing	Standing	Standing	Standing	
	1.5	Rated capacity/rated load	Q (kg/lb)	1500/3307	1800/3968	2000/4409	1500/3307	1800/3968	2000/4409	
	1.6	Load centre distance	c (mm/in)	500/19.7	500/19.7	500/19.7	500/19.7	500/19.7	500/19.7	
		Rear Overhang	mm/in	238/9.4	238/9.4	238/9.4	238/9.4	238/9.4	238/9.4	
	1.8	Load distance, centre of drive axle to fork	x (mm/in)	182/7.2	182/7.2	182/7.2	182/7.2	182/7.2	182/7.2	
	1.9	WheelBase	y (mm/in)	1370/54.0	1420/55.9	1500/59.1	1370/54.0	1420/55.9	1500/59.1	
Weight	2.1	Service Weight	kg/lb	2860/6305	2870/6327	2880/6349	2860/6305	2870/6327	2880/6349	
	2.2	Axle loading, laden front/rear	kg/lb	2664/1776	2945/1805	3175/1785	2664/1776	2945/1805	3175/1785	
	2.3	Axle loading, unladen front/rear	kg/(lb)	980/1880 (2160/4145)	985/1885 (2172/4156)	980/1900 (2160/4189)	980/1880 (2160/4145)	985/1885 (2172/4156)	980/1900 (2160/4189)	
Tyres, chassis	3.2	Tyre size, front	(mm/in)	2×PU φ250×120 /φ9.8×4.7						
	3.3	Tyre size, rear	(mm/in)	PU φ343×110 /φ13.5×4.3						
	3.4	Additional wheels(dimensions)	(mm/in)	2×PU φ170×70 /φ6.7×2.8						
	3.6	Tread, front	b ₁₀ (mm/in)	1080/42.5	1080/42.5	1080/42.5	1080/42.5	1080/42.5	1080/42.5	
	3.7	Tread, rear	b ₁₁ (mm/in)	630/24.8	630/24.8	630/24.8	630/24.8	630/24.8	630/24.8	
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/5	3/5	3/5	3/5	3/5	3/5	
	4.2	Height, mast lowered	h ₁ (mm/in)	2100/82.7	2100/82.7	2100/82.7	2100/82.7	2100/82.7	2100/82.7	
	4.3	Free lift	h ₂ (mm/in)	330/13.0	330/13.0	330/13.0	330/13.0	330/13.0	335/13.2	
	4.4	Lift	h ₃ (mm/in)	3000/118.1	3000/118.1	3000/118.1	3000/118.1	3000/118.1	3000/118.1	
	4.5	Height, mast extended	h ₄ (mm/in)	3955/155.7	3955/155.7	3955/155.7	3955/155.7	3955/155.7	3955/155.7	
		Height to Floor	mm/in	380/15.0	380/15.0	380/15.0	380/15.0	380/15.0	380/15.0	
	4.7	Height of overhead guard	h ₆ (mm/in)	2200 or 2290 /86.6 or 90.1						
	4.10	Height of wheel arms	h ₈ (mm/in)	275/10.8	275/10.8	275/10.8	275/10.8	275/10.8	275/10.8	
	4.20	Length to face of forks	l ₂ (mm/in)	1790/70.5	1840/72.4	1908/75.1	1790/70.5	1840/72.4	1908/75.1	
		Length of Chassis Body	mm/in	1770/69.7	1820/71.7	1888/74.3	1770/69.7	1820/71.7	1888/74.3	
	4.21	Overall width	b ₁ (mm/in)	1200/47.2	1200/47.2	1200/47.2	1200/47.2	1200/47.2	1200/47.2	
	4.22	Fork dimensions ISO 2331	s/e/l (mm/in)	40×122×1070/1.6×4.8×42.1						
		Tilting Method		Fork-carriage Tilting						
	4.25	Distance between fork-arms	b ₅ (mm/in)	240/896 (9.4/35.3)	240/896 (9.4/35.3)	260/896 (10.2/35.3)	240/896 (9.4/35.3)	240/896 (9.4/35.3)	260/896 (10.2/35.3)	
	4.26	Distance between wheel arms/loading surfaces	b ₄ (mm/in)	836/32.9	836/32.9	836/32.9	836/32.9	836/32.9	836/32.9	
	4.28	Reach distance	l ₄ (mm/in)	500/19.7	550/21.7	600/23.6	500/19.7	550/21.7	600/23.6	
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm/in)	84/3.3	84/3.3	84/3.3	84/3.3	84/3.3	84/3.3	
		Minimum Clearance to Ground (Rear)	mm/in	45/1.8	45/1.8	45/1.8	45/1.8	45/1.8	45/1.8	
		Operator Panel Height	mm/in	1318/51.9	1318/51.9	1318/51.9	1318/51.9	1318/51.9	1318/51.9	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	A _{st} (mm/in)	2708/106.7	2756/108.5	2800/110.2	2708/106.7	2756/108.5	2800/110.2	
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	A _{st} (mm/in)	2570/101.2	2624/103.3	2696/106.1	2570/101.2	2624/103.3	2696/106.1	
	4.35	Turning radius	W _a (mm/in)	1600/63.0	1685/66.3	1785/70.3	1750/68.9	1800/70.9	1870/73.6	
	Performance Data	5.1	Travel speed, laden/unladen	km/h mph	9.5/10 5.9/6.2	9.5/9.7 5.9/6.0	9.5/9.5 5.9/5.9	9.5/10 5.9/6.2	9.5/9.7 5.9/6.0	9.5/9.5 5.9/5.9
		5.2	Lift speed, laden/unladen	m/s (ft/min)	0.250/0.460 (49.2/90.6)	0.240/0.455 (47.2/89.6)	0.220/0.450 (43.3/88.6)	0.255/0.460 (50.2/90.6)	0.245/0.455 (48.2/89.6)	0.225/0.450 (44.3/88.6)
5.3		Lowering speed, laden/unladen	m/s (ft/min)	0.510/0.440 (100.4/86.6)	0.520/0.440 (102.4/86.6)	0.530/0.440 (104.3/86.6)	0.510/0.440 (100.4/86.6)	0.520/0.440 (102.4/86.6)	0.530/0.440 (104.3/86.6)	
5.6		Max. Drawbar pull, laden/unladen	N	6500/6000	8000/7000	9000/8000	6500/6000	8000/7000	9000/8000	
5.8		Max. gradeability, laden/unladen	%	14/14.5	13/13.5	12/13	14/14.5	13/13.5	12/13	
5.9		Acceleration time, laden/unladen (0-10m)	s	4.7/4.6	4.8/4.7	4.9/4.8	4.7/4.6	4.8/4.7	4.9/4.8	
5.10		Service brake		Electrical	Electrical	Electrical	Electrical	Electrical	Electrical	
		Steering Type		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
		Max. Brake Distance	mm/in	850/33.5	900/35.4	1000/39.4	850/33.5	900/35.4	1000/39.4	
Electric-engine	6.1	Drive motor rating S2 60 min	kW/hp	4.5 AC/6.0 AC	4.5 AC/6.0 AC	4.5 AC/6.0 AC	4.5 AC/6.0 AC	4.5 AC/6.0 AC	4.5 AC/6.0 AC	
	6.2	Lift motor rating at S3 15%	kW/hp	8.6 DC/11.5 DC	8.6 DC/11.5 DC	8.6 DC/11.5 DC	8.6 AC/11.5 AC	8.6 AC/11.5 AC	8.6 AC/11.5 AC	
	6.4	Battery voltage, nominal capacity K5	V/Ah	48/240	48/240	48/240	48/240	48/240	48/240	
	6.5	Battery weight	kg/lb	835/1841	835/1841	835/1841	835/1841	835/1841	835/1841	
		Battery dimensions	l/b/h(mm/in)	1145×405×605 / 45.1×15.9×23.8						
	8.1	Type of drive control		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	
		Type of lifting control		CURTIS DC	CURTIS DC	CURTIS DC	CURTIS AC	CURTIS AC	CURTIS AC	
	9.1	Manufacturer		CURTIS AC	CURTIS AC	CURTIS AC	CURTIS AC	CURTIS AC	CURTIS AC	
Addition data	10.1	Operating pressure for attachments	bar	145	155	175	145	155	175	
	10.3	Hydraulic oil tank capacity	liter(gal)	25	25	25	25	25	25	
	10.7	Sound pressure level at the driver's seat	dB(A)	72	73	74	72	73	74	

1.5-2.0t Mast Specification:

Type	Model	Mast Fork Height	Overall Height			Free Lifting Height		Tilting Angle		Capacity load capacity @ 500mm/19.7inch			Capacity load capacity @ 23.6inch		
			Lowered	Extended, With Backrest	Extended, Without Backrest	With Backrest	Without Backrest	FWD	RWD	1.5t/ 3307lb	1.8t/ 3968lb	2.0t/ 4409lb	3307lb	3968lb	4409lb
		mm/in	mm/in	mm/in	mm/in	mm/in	mm/in	(°)	(°)	kg/lb	kg/lb	kg/lb	lb	lb	lb
Wide View Mast Duplex	2QZM/2QZB	2700/106.3	1925/75.8	3655/143.9	3375/132.9	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		3000/118.1	2075/81.7	3955/155.7	3675/144.7	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		3300/129.9	2225/87.6	4255/167.5	3975/156.5	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		3500/137.8	2325/91.5	4455/175.4	4175/164.4	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		3600/141.7	2375/93.5	4555/179.3	4275/168.3	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		4000/157.5	2625/103.3	4955/195.1	4675/184.1	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		4300/169.3	2790/109.8	5255/206.9	4975/195.9	330/13.0	330/13.0	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		4500/177.2	2900/114.2	5455/214.8	5175/203.7	330/13.0	330/13.0	3	5	1400/3086	1700/3748	1900/4189	2692	3269	3653
Full Free Triplex Mast	2QZN/2QZV	4300/169.3	2085/82.1	5255/206.9	5030/198.0	1140/44.9	1365/53.7	3	5	1500/3307	1800/3968	2000/4409	2884	3461	3845
		4500/177.2	2165/85.2	5455/214.8	5230/205.9	1220/48.0	1445/56.9	3	5	1400/3086	1700/3748	1900/4189	2692	3269	3653
		4800/189.0	2265/89.2	5755/226.6	5530/217.7	1320/52.0	1545/60.8	3	5	1300/2866	1600/3527	1800/3968	2499	3076	3461
		5000/196.9	2315/91.1	5955/234.4	5730/225.6	1370/53.9	1595/62.8	3	5	1200/2646	1500/3307	1700/3748	2307	2884	3269
		5500/216.5	2490/98.0	6455/254.1	6230/245.3	1545/60.8	1770/69.7	3	5	1100/2425	1400/3086	1600/3527	2115	2692	3076
		6000/236.2	2665/104.9	6955/273.8	6730/265.0	1720/67.7	1945/76.6	3	5	900/1984	1200/2646	1400/3086	1730	2307	2692
		6500/255.9	2815/110.8	7455/293.5	7230/284.6	1870/73.6	2095/82.5	3	5	800/1764	1100/2425	1200/2646	1538	2115	2307
		7000/275.6	2975/117.1	7955/313.2	7730/304.3	2030/79.9	2255/88.8	3	5	350/771.6	450/992.1	650/1433	673	865	1250
		7500/295.3	3145/123.8	8455/332.9	8230/324.0	2200/86.6	2425/95.5	3	5	280/617.3	350/771.6	400/881.8	538	673	769





A Series Electric Tow Tractor

with capacities of 3,000 to 5,000kg

HANGCHA A series 3.0-5.0t electric tow tractor is mainly applied in short-distance transportation among the production lines. Low operator platform for frequent and effortless entry and exit. Thanks to the standing design, it can greatly improve the efficiency of operations. Furthermore, for indoor application, the electric drive system is environmental friendly within the workshop. Therefore, this product is a good partner of automobile manufacturing, logistics companies, warehouses and other places, fields which has broad application prospects.

Appearance

- / A series 3.0-5.0t electric tow tractor 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 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.

Reliability

- / 3-pivot and side support bar system design ensure the safe and reliability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Safety switch of pedal using non-contact proximity switch, improves safety and reliability.
- / Though sideway battery change is standard specification, fixed in safe and reliable way.

Comfort

- / The pedal applies shock absorption design, greatly improve the operator's comfort, reduce the fatigue.
- / Backrest height can be adjusted within a certain range, and the backrest with hip support can greatly improve the comfort of the operator.
- / Sideway change battery is the standard specification. The inching switches installed at the LH/RH side, greatly improve the ease of operation.
- / The easy to reached storage space is convenient for the operator.
- / Compact size, light weight and flexible, extremely easy to operate, can easily go through even in a compact space.

Safety

- / Automatic deceleration during turning.
- / Pedal has a safety switch, which can effectively prevent mis-operation.
- / Three braking system of regenerative braking, reverse current braking , parking brake, insures the safe operation.
- / Steel front shield assures excellent safety for the operation.

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 are equipped with shaft sleeve and oil cup, easy maintenance, prolong service life.

Standard Specification

- | | |
|--------------------------------------|------------------------------|
| / AC drive motor | / Battery indicator |
| / Electric steering system | / PU wheel |
| / Inching switch(LH/RH) | / Multi-function handlebar |
| / Emergency cut off switch | / Horn |
| / Stand-on pedal with shock absorber | / Tool box |
| / Adjustable supportive backrest | / Standard lead-acid battery |
| / Sideway change battery | |

Options

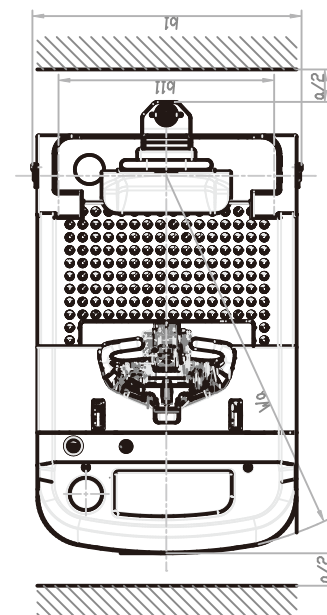
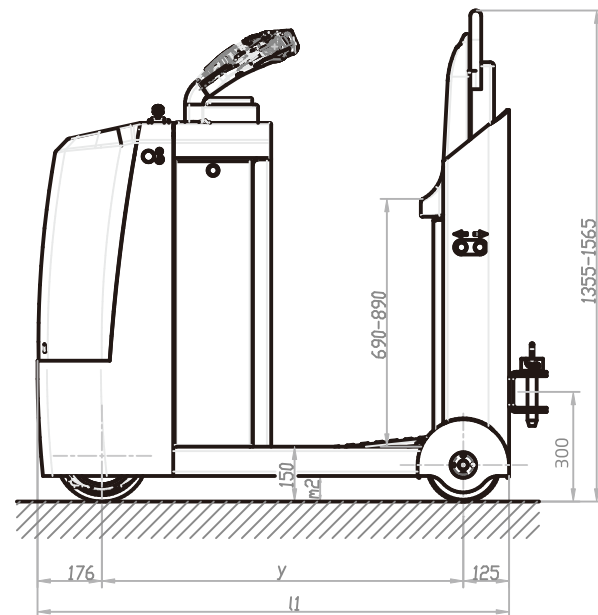
- | | |
|-----------------|---------------------------------------|
| / Rubber wheel | / Big capacity battery |
| / Warning light | / Anti-collision bumper |
| / Working light | / Different height of towing coupling |
| / Handrail | / Review Mirror |



A Series Electric Tow Tractor

HANGCHA GROUP CO.,LTD.				
Distinguishing marks	1.1	Manufacturer		
	1.2	Manufacturer's type designation		
	1.3	Drive		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		
	1.5	Load capacity/rated load	Q (kg/lb)	
	1.6	Rated drawbar pull	F (N/lbf)	
WeightS	1.7	Wheelbase	y (mm/in)	
	2.1	Service Weight	kg/lb	
Wheels, Chassis	2.3	Axle loading, front/rear	kg/(lb)	
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		
	3.2	Tyre size, front	mm/in	
	3.3	Tyre size, rear	mm/in	
	3.4	Wheels, number front /rear (x=drive wheels)		
Dimensions	3.5	Track width, rear	b ₁₁ (mm/in)	
	4.7	Seat height/stand height	h ₇ (mm/in)	
	4.1.9	Overall length(without traction pin)	l ₁ (mm/in)	
	4.2.1	Overall width	b ₁ (mm/in)	
	4.3.2	Ground clearance, centre of wheelbase	m ₂ (mm/in)	
Performance Data	4.3.5	Turning radius	W _a (mm/in)	
	5.1	Travel speed, laden/unladen	km/h (mph)	
	5.5	Drawbar pull at 60 minute rating	N/lbf	
	5.6	Max. Drawbar pull at 5 minute rating	N/lbf	
	5.7	Gradeability, laden	%	
E-Motor	5.10	Service brake		
	6.1	Drive motor rating S2 60 min.	kW/hp	
	6.4	Battery voltage,rated capacity(STD.)	V/Ah	
Others		Battery voltage,rated capacity(OPT.)	V/Ah	
	8.1	Type of drive control		

Specifications are subject to change without notice.



a=200mm Safety clearance



J Series Electric Tow Tractor

with capacities of 2,000 to 6,000kg

Performance

- / Multiple benefits of the AC Power System include: fast reponse to operating commands, precise power control, regenerative system.
- / Economy of operation, resulting from minimized maintenance costs,e.g. Fully enclosed 3 phase AC asynchronous motor with high degree of efficiency maintenance free for life.
- / A high number of work cycles can be obtained from each battery charge due to the efficiency of this system of energy control.
- / System is fully adjustable to suit the load, the working area and the operator. Inbuilt diagnostics record intermittent faults and service requirements reducing expensive service time.

Comfort

- / Low noise, low shake, energy efficient.
- / Lower step and capacious room will be much appreciated by operators who have to get on and off tow tractor.
- / Ergonomically designed switch, instrument, pedal.
- / Adjustable seat and steering wheel ensure maximum operator comfort and minimum fatigue.
- / Operator can control rear towing coupling from optional towing coupling control equipment.
- / Exchange battery easily from optional dolly for side-exchange battery.

Stability

- / Battery is dropped down to the lowest part of frame. This gives tow tractor excellent stability because low centre of gravity.

Maintenance

- / You can open and close the battery cover hood for daily checkup the battery, motor and controller. It's easy to access inner of battery cover for maintenance.

Standard Specification

- / Front headlight

/ Rear combined lamp

/ Electrical horn

/ Emergency disconnect switch

/ Pneumatic tyre

/ Front double-tyre (4~6 ton)
- / Safety pedal (stand-on)

/ AC power system

/ Standard battery

/ Multi-function LCD display

/ Toolbox



A large battery cover hood



Lower step and capacious room



Small dimension and round shape



Ergonomically designed combined switch, instrument



AC power system



Front double-tyre

Options

- / Solid tyre

/ High capacity battery

/ Suspension seat

/ Battery charger

/ Towing coupling height
- / Front double-tyre (2 ton)

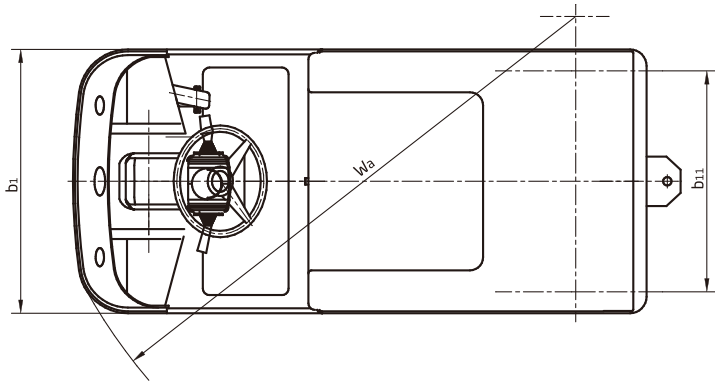
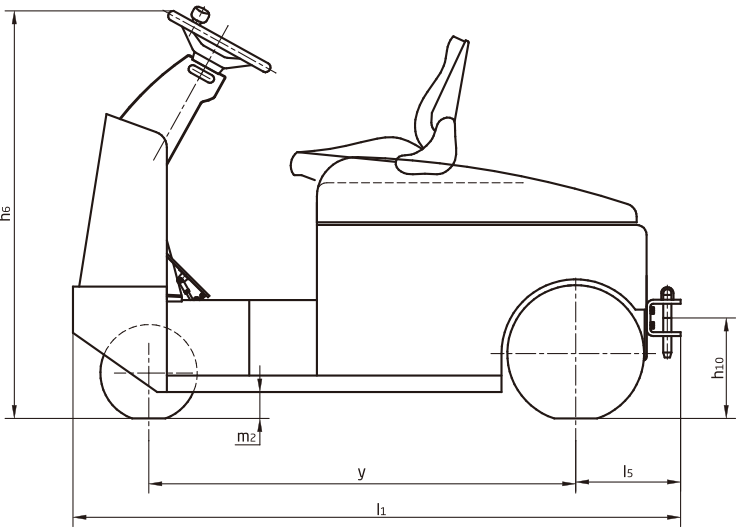
/ Towing coupling control equipment

/ Dolly for side-exchange battery

/ Mirror

J series 2.0-6.0t Electric Tow Tractor Specification :

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.					
	1.2	Manufacturer's type designation		QDD2-D2 QDD2-C1	QDD2-D2S QDD2-C1S	QDD4-D2 QDD4-C1	QDD4-D2S QDD4-C1S	QDD6-D2 QDD6-C1	QDD6-D2S QDD6-C1S
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Standing	Seated	Standing	Seated	Standing
	1.5	Rated capacity/rated load	Q (kg/lb)	2000/4409	2000/4409	4000/8818	4000/8818	6000/13228	6000/13228
	1.7	Rated drawbar pull	F(N/lbf)	500/112	500/112	1000/225	1000/225	1500/337	1500/337
	1.9	Wheelbase	y (mm/in)	1140/44.9	1140/44.9	1295/51.0	1295/51.0	1295/51.0	1295/51.0
Weight	2.1	Service Weight	kg/lb	780/1720	780/1720	900/1984	900/1984	980/2161	980/2161
	3.2	Tyre size, front		3.5-5	3.5-5	3.5-5	3.5-5	3.5-5	3.5-5
	3.3	Tyre size, rear		4.0-8	4.0-8	4.0-8	4.0-8	4.0-8	4.0-8
	3.5	Wheels, number front / rear (x = driven wheels)		1/2	1/2	2/2	2/2	2/2	2/2
Tyres, chassis	3.6	Tread, front	b10 (mm/in)	\	\	200/7.9	200/7.9	200/7.9	200/7.9
	3.7	Tread, rear	b11 (mm/in)	670/26.4	670/26.4	670/26.4	670/26.4	670/26.4	670/26.4
	4.7	Height of overhead guard (cabin)	h6 (mm/in)	1236/48.7	1206/47.5	1206/47.5	1206/47.5	1206/47.5	1206/47.5
	4.12	Coupling height	h10 mm/(in)	262~348 (10.3~13.7)	262~348 (10.3~13.7)	262~348 (10.3~13.7)	262~348 (10.3~13.7)	262~348 (10.3~13.7)	262~348 (10.3~13.7)
	4.19	Overall length	l1 (mm/in)	1690/66.5	1690/66.5	1845/72.6	1845/72.6	1845/72.6	1845/72.6
	4.21	Overall width (With cabin)	b1 mm/in	800/31.5	800/31.5	800(882)/ 31.5(34.7)	800(882)/ 31.5(34.7)	800(882)/ 31.5(34.7)	800(882)/ 31.5(34.7)
	4.32	Ground clearance, centre of wheelbase	m2 (mm/in)	80/3.1	80/3.1	80/3.1	80/3.1	80/3.1	80/3.1
Dimensions	4.35	Turning radius	Wa (mm/in)	1600/63.0	1600/63.0	1760/69.3	1760/69.3	1760/69.3	1760/69.3
	5.1	Travel speed, laden/unladen	kph (mph)	6/13 (3.7/8.1)	6/13 (3.7/8.1)	6/13 (3.7/8.1)	6/13 (3.7/8.1)	6/13 (3.7/8.1)	6/13 (3.7/8.1)
	5.5	Drawbar pull at 60 minute rating	N/lbf	500/112	500/112	1000/225	1000/225	1500/337	1500/337
	5.6	Max. Drawbar pull at 5 minute rating	N/lbf	2000/450	2000/450	4000/900	4000/900	4500/1012	4500/1012
Performance data	5.7	Gradeability, laden/unladen	%	- /25	- /25	- /25	- /25	- /25	- /25
	6.1	Drive motor rating S2 60 min	kW/hp	1.95/2.61	1.95/2.61	4.28/5.74	4.28/5.74	4.28/5.74	4.28/5.74
Electric engine	6.4	Battery voltage, nominal capacity K5,Standard	V/Ah	48/165	48/165	48/210	48/210	48/275	48/275
		Battery voltage, nominal capacity K5,Optional	V/Ah	48/210	48/210	48/275	48/275	48/350	48/350





10-15t Electric Tow Tractor

with capacities of 10,000 to 15,000kg

Appearance

/ Body choosing modern large circular arc streamline surface modeling, is in accordance with international design trend.

Reliability

/ The battery is dropped down to the lowest part of frame, this gives the tractor excellent stability because low center of gravity.

Comfort

/ Low noise, low shake, energy efficient, enviromental protection.
 / Low step and capacious room will be much appreciated by operator who have to get on and off.
 / Ergonomically design switch instrument and pedal. Adjustable steering wheel and seat ensure driver maximum comfortable and minimum fatigue.
 / Full hydraulic steering system, the steering is easy.
 / Large-capacity of the container making the operation more flexible and convenient.

Advance

/ New AC system provide more power, more precise performance of speed control, more safety and reliability, regenerative system.
 / High effective AC system prolong the working time.
 / Adopt the international first-class brand of LCD, with the battery indication, fault self-diagnosis table and accurately display in the harsh environment function.
 / Rich visual sense improve the productivity.
 / Exchange battery is easy because the design of side-exchange battery.

Advantage of AC System

/ Multiple benefits of the AC Power System include: fast response to operating commands, precise power control, regenerative system.
 / Economy of operation, resulting from minimized maintenance costs,e.g.
 / A high number of work cycles can be obtained from each battery charge due to the efficiency of the system of energy control.
 / System is fully adjustable to suit the load, working area and operator. Inbuilt diagnostics record intermittent faults and service requirements reducing expensive service time.

Easy Maintenance

/ You can open and close the battery cover hood for daily checkup the battery, motor and controller. It's easy to access inner of battery cover for maintenance.

Standard Specification

/ Head lamp	/ Inching function
/ Turning lamp	/ AC Power System
/ Rear combined LED	/ Standard battery
/ Horn	/ Large LCD display
/ Emergency disconnect switch	/ Pneumatic tyre

Options

/ Super elastic solid tyre	/ Mirror
/ High capacity import battery	/ Warning lamp
/ Simple cabin	/ Charger
/ Closed cabin	/ Customer painting
/ Suspension seat	/ Height of tractor pin



Forward/Reverse inching switch and emergency switch are mounted on the left rear, them make the hook easy and safe



The large internal space is easy for maintenance



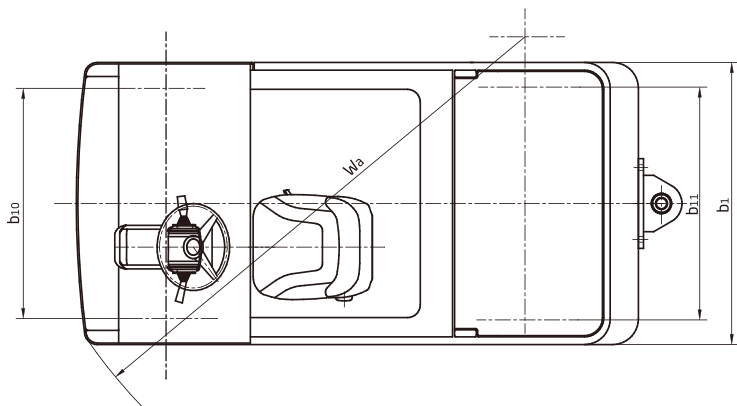
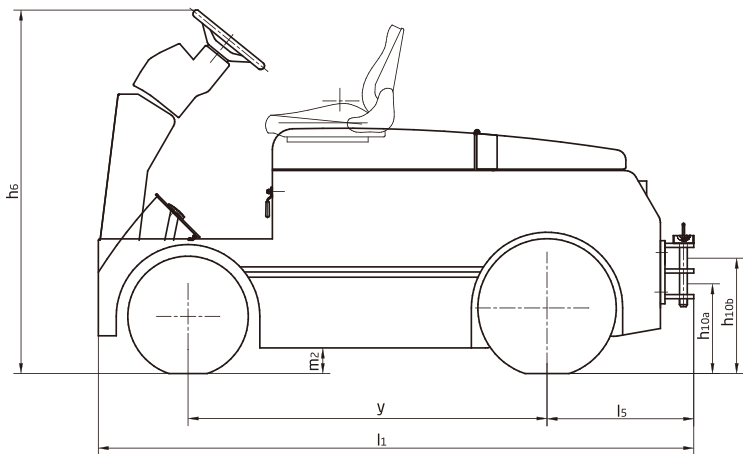
Side change battery design is convenient for changing battery



The battery cover can be fully opened, the design is easy for maintenance

10-15t Electric Tow Tractor

Distinguishing marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	QSD10-C1		QSD15-C1	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated		Seated	
	1.5	Rated capacity/rated load	Q (kg/lb)	10000/22050	15000/33050	
	1.7	Rated drawbar pull	F (N/lbf)	2500/562	3750/843	
	1.9	Wheelbase	y (mm/in)	1200/47.2	1400/55.1	
Weight	2.1	Service Weight	kg/lb	2200/4850		2450/5400
Tyres, chassis	3.2	Tyre size, front	5.0-8		5.0-8	
	3.3	Tyre size, rear	6.0-9		6.0-9	
	3.5	Wheels, number front / rear (x = driven wheels)	2/2		2/2	
	3.6	Tread, front	b10 (mm/in)	897.5/35.3	897.5/35.3	
	3.7	Tread, rear	b11 (mm/in)	908/35.7	908/35.7	
Dimensions	4.7	Height of overhead guard (cabin)	h6 (mm/in)	1440(2112)	56.7(83.1)	1440(2112) 56.7(83.1)
	4.12	Coupling height	h10 (mm/in)	350/450	13.8/17.7	350/450 13.8/17.7
	4.19	Overall length	l1 (mm/in)	2122/83.5		2322/91.4
	4.21	Overall width	b1 (mm/in)	1100/43.3		1100/43.3
	4.32	Ground clearance, centre of wheelbase	m2 (mm/in)	100/4		100/4
	4.35	Turning radius	Wa (mm/in)	1985/78.1		2170/85.4
Performance Data	5.1	Travel speed, laden/unladen	kph / mph	10/18	6.2/11.2	10/18 6.2/11.2
	5.5	Drawbar pull at 60 minute rating	N/lbf	2500/562		3750/843
	5.6	Max. Drawbar pull at 5 minute rating	N/lbf	8000/1798		11000/2473
	5.7	Gradeability, laden/unladen	%	- / 25		- / 25
Electric engine	6.1	Drive motor rating S2 60 min	kw/hp	6.8/9.1		11.75/15.8
	6.4	Battery voltage, nominal capacity K5	V/Ah	48/420		80/450



20-25t Electric Tow Tractor

with capacities of 20,000 to 25,000kg

Appearance

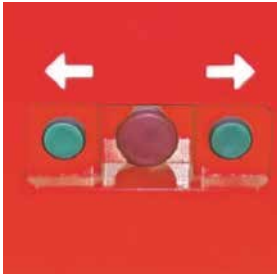
- / Body choosing modern large circular arc streamline surface model, is in accordance with international design trend. It's suitable for tractor\pulling\pushing and handling operations.

Reliability

- / The battery is dropped down to the lowest part of frame, this gives the tractor excellent stability because low center of gravity.

Safety

- / High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance and better match with the motor. Secure stopping on ramp function is also provide.Thanks to MOSFET controller. Motor brake is for regenerative braking during deceleration, direction, changing, and downward slope. The regenerative braking is more energy saving and effectively.
- / X-type arrangement of dual piping, distribute the pressure by front and rear, the braking system is safe, stable and reliable. The design of vacuum drum ensure the braking system working as usual.
- / The electrical switch can cut off the power.



Advanced full-AC power system, full closed, compulsory air-cooled, reliable and safe



Advance

- / New AC system provide more power, more precise performance of speed control , more safety and reliability, regenerative system.
- / High effective AC system prolong the working time.
- / Adopt the international first-class brand of LCD, with the battery indication, self diagnosis function, it's no need handset unit. The display can make changes to the electronic control parameters, you can read the fault code clearly from it.
- / There are switch in the rear: Including Forward/ Reverse inching switch and emergency disconnect switch.
- / There are two methods to exchange battery: Lifting-exchange and side-exchange battery, it's convenient for user.
- / The controller is enclosed to avoid dust and water, it can provide forced cooling, heat dissipation and control the direction of the wind.
- / The size of platform of the rear : 1300mm× 1638mm,it can be used as loading platform, maximum load weight is 500Kg.

Environmental Protection

- / Low noise, low shake, energy efficient, environmental protection.
- / Vehicle use non-asbestos material.

Comfort

- / Adopt the new digital dashboard and rocker switch, the status of vehicle be clear at a glance, simple, reliable and intuitive.
- / Adopt horizontal cylinder steering axle and full hydraulic steering gear, the steering force is less than 10N. Optional synchronous steering system provides good stability, especially suitable for long-distance road in the airport and so on.
- / The advanced floating suspension system and long wheelbase design, ensure the comfort of the vehicle.
- / The advanced floating suspension system and long wheelbase design, ensure the comfort of the vehicle.
- / Optimized design structure to offer a good visibility and easier operation, provides good sealing, sound insulation, heat insulation, vibration isolation. Low step and capacious room will be much appreciated by operator who have to get on and off.
- / Adjustable steering wheel and 150mm adjustable distance of seat ensure driver maximum comfortable and minimum fatigue.

Standard Specification

- / Emergency disconnect switch
- / Head lamp
- / Turning lamp
- / Rear combined LED
- / Sun shield
- / Front wiper
- / Front wiper washer fluid
- / Adjustable device for steering wheel
- / Horn
- / Buzzer
- / Retroreflector
- / Rear view mirror
- / Dome light
- / Fan
- / Large rubber pedal pad
- / AC drive system
- / Full hydraulic steering
- / Hand grip
- / Full closed cab
- / Vacuum assistant braking system
- / Standard seat
- / Standard battery
- / Side-exchange battery
- / Toolbox
- / Inching switch
- / Traction pin

Easy Maintenance

- / Electric parts adopt international famous brand are to ensure the reliability of the performance.
- / Maintenance free driving motor is no need to replace the carbon brush, low service cost.
- / You can open and close the battery cover hood for daily checkup the battery, motor and controller. It's easy to access inner of battery cover for maintenance.

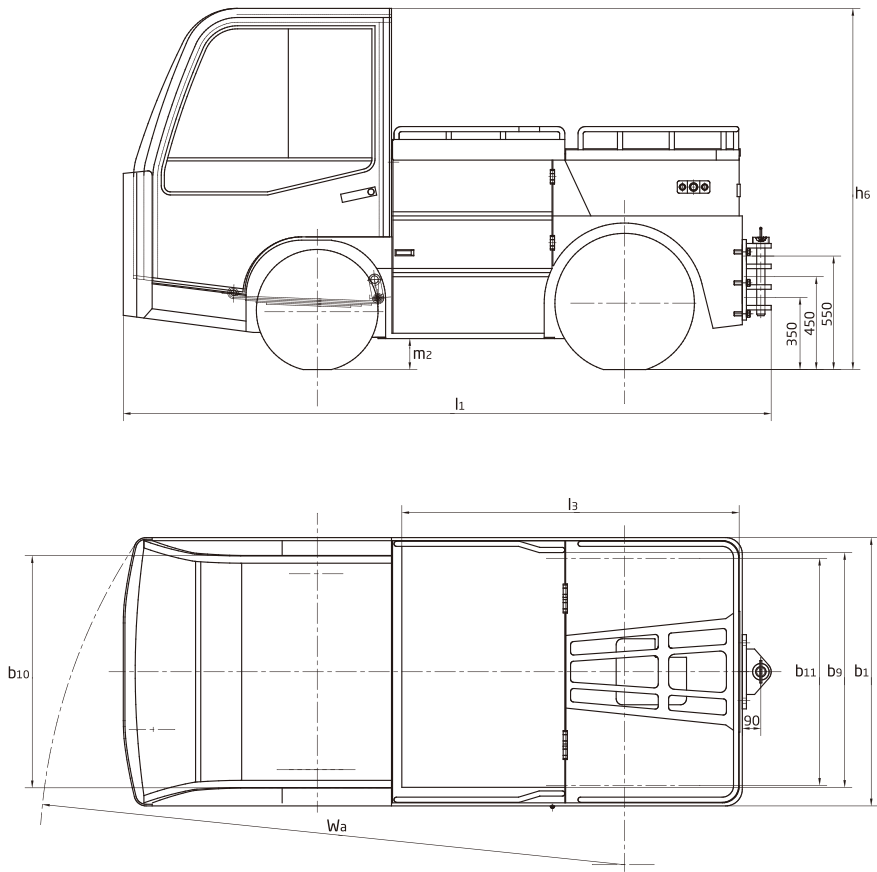
Options

- / Warning lamp
- / High capacity national battery
- / Excellent performance import battery
- / Battery charger
- / Rear working lamp
- / Speed limit alarm
- / Different height of traction pin
- / Semi-closed cab
- / Steam air heater
- / Synchronous steering system
- / Hydraulic assistant brake system
- / Front bumpers
- / Front pothook
- / Extinguisher
- / Solid tyre
- / Suspension seat
- / Speed limit
- / Rear wiper
- / Rear wiper washer fluid
- / Long-distance control system
- / Full hydraulic brake
- / Tractor pin operation device



20-25t Electric Tow Tractor

Distinguishing marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	QSD20-D3/QSD20-C3		QSD25-D3/QSD25-C3	
	1.5	Rated capacity/rated load	Q (kg/lb)	20000/44100	25000/55100	
	1.7	Rated drawbar pull	F(N/lbf)	5000/1124	6300/1416	
Weight	1.9	Wheelbase	y (mm/in)	1490/58.7	1490/58.7	
	2.1	Service Weight	kg/lb	3550/7826	3750/8267	
	2.2	Axle loading, front/rear	kg/lb	1640/1910	3616/4211	1600/2150 3527/4740
Tyres, chassis	3.2	Tyre size, front		6.50-10-10PR	6.50-10-10PR	
	3.3	Tyre size, rear		7.00-12-12PR	7.00-12-12PR	
	3.5	Wheels, number front / rear (x = driven wheels)		2/2	2/2	
	3.6	Tread, front	b10 (mm/in)	1124.5/44.3	1124.5/44.3	
Dimensions	3.7	Tread, rear	b11 (mm/in)	1100/43.3	1100/43.3	
	4.7	Height of overhead guard (cabin)	h6 (mm/in)	1760/69.3	1760/69.3	
	4.12	Coupling height	h10 (mm/in)	550/450/350	21.7/17.7/13.8	550/450/350 21.7/17.7/13.8
	4.16	Length of loading surface	l3 (mm/in)	1630/64.2	1630/64.2	
	4.18	Width of loading surface	b9 (mm/in)	1135/44.7	1135/44.7	
	4.19	Overall length	l1 (mm/in)	3140/123.6	3140/123.6	
	4.21	Overall width	b1 (mm/in)	1300/51.2	1300/51.2	
	4.32	Ground clearance, centre of wheelbase	m2 (mm/in)	140/5.5	140/5.5	
Performance Data	4.35	Turning radius	Wa (mm/in)	2825/111.2	2825/111.2	
	5.1	Travel speed, laden/unladen	kph/mph	- / 25	- / 15.5	- / 25 - / 15.5
	5.5	Drawbar pull at 60 minute rating	N/lbf	5000/1124	6300/1416	
	5.6	Max. Drawbar pull at 5 minute rating	N/lbf	16000/3597	20000/4496	
	5.7	Gradeability, laden/unladen	%	- / 30	- / 30	
Electric-engine	5.10	Service brake		Hydraulic	Hydraulic	
	6.1	Drive motor rating S2 60 min	kW/hp	23/30.8	23/30.8	
	6.4	Battery voltage, nominal capacity K5	V/Ah	80/500	80/500	
	6.5	Battery weight	kg/lb	1350/2976	1350/2976	



Electric Platform BD 1.0-3.0t

with capacities of 1,000 to 3,000kg

The new electric platforms are widely used in many industries like manufacturing, logistics, railway station, postal service, airport, and etc.. This electric platform has the advantages of low noise, environment friendly, easy operation, and low running cost.

Introduction

- / Compact design for optimum manoeuvrability.
- / Transverse located driving motor, and battery located in the bottom of the chassis, both provide low center of truck's gravity, and good stability.
- / Specialized steering axle for electric trucks, modified driving axle, more economical, and better load capacity.
- / Small tyres, low platform, easy for loading and unloading.
- / Applied international famous brands of electric controller, connectors, and plug, and the emergency switch.
- / Emergency switch is standard specification, and meet Euro related safety standard.
- / American Curtis LCD battery indicator, even in poor environment can work well.
- / Full closed electric controller, free of water and dust.
- / Both front and rear axle are applied plat spring suspend technology, promote the driver's comfort ability.



Standard Specification

- / Hour meter, Battery indicator
- / Front lighting, direction changing indicator, rear lighting
- / Emergency cut off switch
- / Reverse beeper
- / Storage box
- / Tow coupling
- / Adjustable steering wheel



Options

- / Different color
- / SE tyre
- / Imported battery
- / Rear working lamp
- / Battery charger
- / Cabin (full cabin, or Semi-closed cabin)
- / Warning lights
- / Guardrail of platform

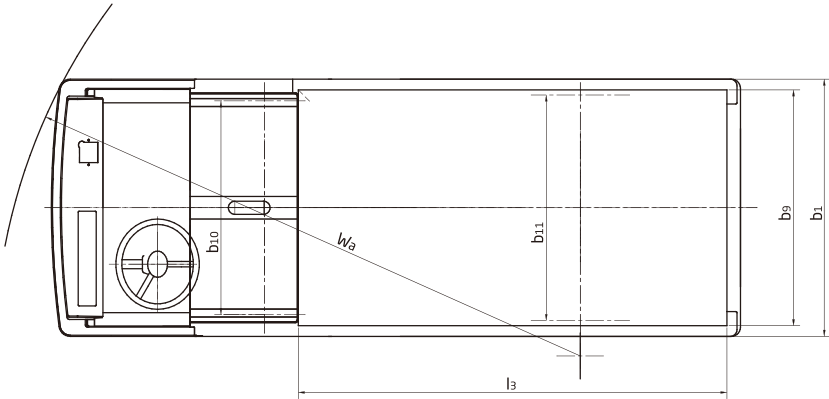
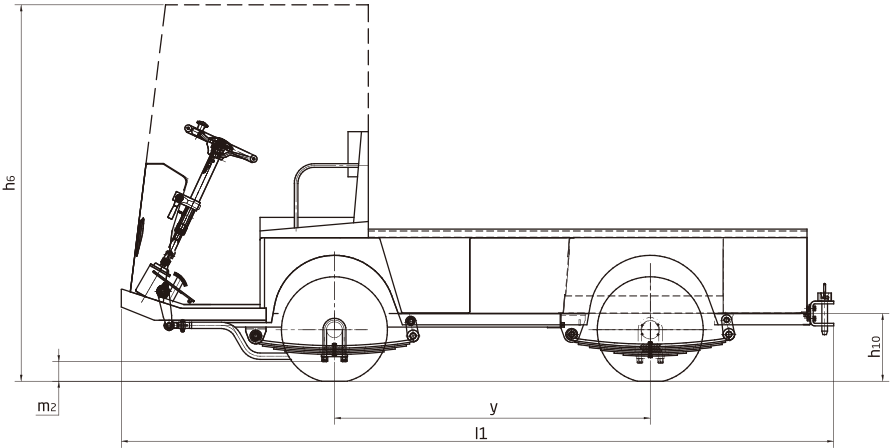


Electric Platform BD 1.0-3.0t

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.		
	1.2	Manufacturer's type designation		BD10	BD20/BD20-C1	BD30/BD30-C1
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg/lb)	1000/2205	2000/4409	3000/6614
	1.7	Rated drawbar pull	F (N/lbf)	300/57	600/135	750/169
	1.9	Wheelbase	y (mm/in)	1400/55.1	1400/55.1	1600/63.0
Weight	2.1	Service Weight	kg/lb	980/2161	1040/2293	1410/3109
Tyres, chassis	3.2	Tyre size, front		5.0-8	5.0-8 Solid	6.0-9-10p.r
	3.3	Tyre size, rear		5.0-8	5.0-8 Solid	6.5-10-10p.r
	3.5	Wheels, number front / rear (x = driven wheels)		2/2	2/2	2/2
	3.6	Tread, front	b10 (mm/in)	948/37.3	948/37.3	1115/43.9
	3.7	Tread, rear	b11 (mm/in)	1000/39.4	1000/39.4	1200/47.2
Dimensions	4.7	Height of overhead guard (cabin)	h6 (mm/in)	1134(1800) 44.6(70.9)	1134(1800) 44.6(70.9)	1205(1850) 47.4(72.8)
	4.12	Coupling height	h10 (mm/in)	300/11.8	300/11.8	335/13.2
	4.16	Length of loading surface	l3 (mm/in)	1900/74.8	1900/74.8	2240/88.2
	4.18	Width of loading surface	b9 (mm/in)	1100/43.3	1100/43.3	1400/55.1
		Height of loading surface	h (mm/in)	667/26.3	667/26.3	746/29.4
	4.19	Overall length	l1 (mm/in)	3158/124.3	3158/124.3	3498/137.7
	4.21	Overall width	b1 (mm/in)	1140/44.9	1140/44.9	1400/55.1
	4.32	Ground clearance, centre of wheelbase	m2 (mm/in)	80/3.1	80/3.1	140/5.5
	4.35	Turning radius	Wa (mm/in)	3700/145.7	3700/145.7	3800/149.6
Performance Data	5.1	Travel speed, laden/unladen	km/h mph	10/15 6.2/9.3	10/15 6.2/9.3	10/15 6.2/9.3
	5.6	Max. Drawbar pull,	N/lbf	2234/502	5200/1169	5488/1234
	5.7	Gradeability, laden/unladen	%	10/12	10/12	10/12
Electric Engine	6.1	Drive motor rating S2 60 min	kW / (hp)	1.6/2.1	3/4.5 (4.0/6.0)	4.5/6.0
	6.4	Battery voltage, nominal capacity K5	V/Ah	48/240	48/240	48/240

BD10/BD20/BD30: DC Drive motor

BD20-C1/BD30-C1: AC Drive motor





A Series Low-level Order Picker

with capacities of 2,500kg

A series low-level order picker is mainly applied in long-distance transportation among the production lines. Low operator platform for frequent and effortless entry and exit. Thanks to the standing design, it can greatly improve the efficiency of operations. Furthermore, for indoor application, the electric drive system is environmental friendly within the workshop. Therefore, this product is a good partner of automobile manufacturing, logistics companies, warehouses and other places, fields which has broad application prospects.

Appearance

- / A series low level order picker 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.

Reliability

- / 5-pivot and low center of gravity design ensure the safe and reliability.
- / Imported waterproof connectors, all wires and cables are protected, greatly improve the reliability of the electric system.
- / Safety switch of pedal using non-contact proximity switch, improves safety and reliability.
- / The lift button with non-contact proximity switch for safe and reliable operation.
- / Top quality hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- / Punch-formed forks provide more strength performance.
- / The charging plug is fixed on the chassis for avoid damage from battery installment.

Maintenance

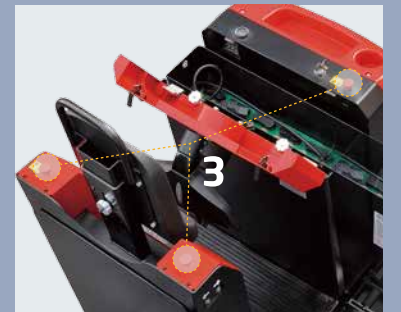
- / AC motor without carbon brushes, maintenance-free, cost saving.
- / Integrated battery indicator, hour meter and self-diagnostic instrument.

High Performance

- / Electric Power Steering(EPS) is standard specification, which provides flexible operation.
- / Double tray placed side by side design, more suitable for a large picking and transshipment.
- / The inching switches installed at the LH/RH side, greatly improve the ease of operation.
- / Powered by AC traction motor not only has good acceleration and climbing performance, but also low heat, brushless, maintenance-free.
- / Latest AC CURTIS 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.
- / All key parts such as hydraulic unit/ switches/ connector/ battery indicator and hour meter all adopt the famous brand.



Side battery changes is standard feature



There are three emergency switches, you can quickly cut off the power with any switch to prevent the hurt



Backrest height can be adjusted within a certain range, and the backrest with hip support can greatly improve the comfort of the operator



Fully opened hood, easy accessibility of all components, is easy for service



Comfort

- / The pedal applies shock absorption design, greatly improve the operator's comfort, reduce the fatigue.
- / New designed tiller is simple and beautiful, all the function can be operated by one hand.
- / Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- / Small body with large arc design, more suitable for the truck in the centralized shelves. Chassis adopt wedge design, greatly increasing the passing ability.

Safety

- / Electronic speed control with automatic deceleration when steering angle increase.
- / Three braking system of regenerative braking, reverse current braking, parking brake, insures the safe operation.
- / Regenerative braking for battery recovery during travel speed reduction, anti-slope on gradient.

Options

- / Imported battery
- / Fork length --1150/1220/2150mm
- / Outside fork width --600/680mm
- / Charger
- / Load backrest
- / Guide roller

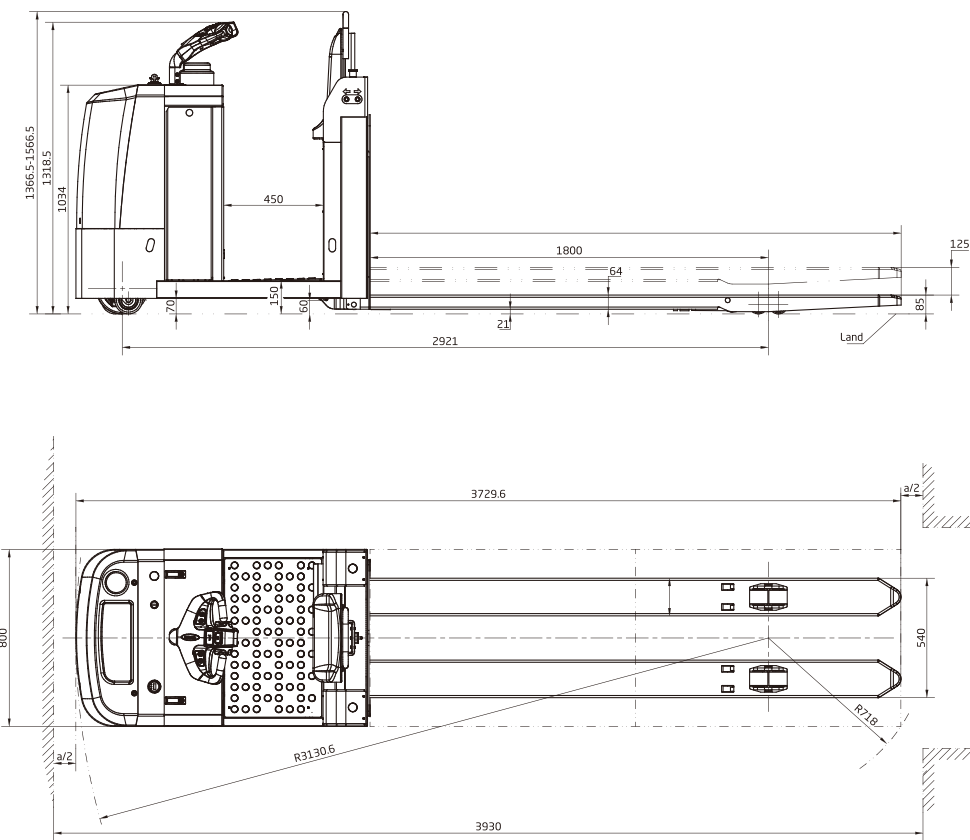
Standard Specification

- / AC traction motor
- / CURTIS AC controller
- / Imported hydraulic unit
- / Safety pedal & Rubber backrest
- / Side battery change
- / 3 emergency switches
- / 2 inch switches
- / Multi-function indicator
- / Tandem load wheels
- / Fork length --2400 mm
- / Outside fork width --540 mm
- / Electronic lifting limitation
- / Multi-function tiller with CAN-Bus system
- / Horn
- / EPS (Electric Power Steering)



A Series Low-level Order Picker

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.
	1.2	Manufacturer's type designation		CJD25-AC1-L
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Order-picker
	1.5	Rated capacity/rated load	Q (kg/lb)	2500/5500
	1.6	Load centre distance	c (mm/in)	1200/47.2
	1.9	Wheelbase	y (mm/in)	2921/115.0
Weight	2.1	Service Weight	kg/lb	1130/2491
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU
	3.2	Tyre size, front	mm/in	Φ230×75 / Φ9.1×3.0
	3.3	Tyre size, rear	mm/in	Φ85×70 / Φ3.3×2.8
	3.4	Additional wheel (dimensions)	mm/in	Φ125×50 / Φ4.9×2.0
	3.5	Wheels, number front / rear (x = driven wheels)		1x+2/4
	3.6	Tread, front	b10 (mm/in)	546/21.5
	3.7	Tread, rear	b11 (mm/in)	370/146
Dimensions	4.4	Lift	h3 (mm/in)	125/4.9
	4.15	Fork height,lowered	h13 (mm/in)	85/3.3
	4.19	Overall length	l1 (mm/in)	3730/146.9
	4.21	Overall width	b1 (mm/in)	800/31.5
	4.22	Fork dimensions	s/e/l mm (in)	64/170/2400 (2.5/6.7/94.5)
	4.25	Distance between fork-arms	bs (mm/in)	540/21.3
	4.32	Ground clearance,center of wheelbase	m2 (mm/in)	21/0.8
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm/in)	3930/154.7
	4.35	Turning radius	Wa (mm/in)	3130/123.2
Performance Data	5.1	Travel speed,laden/unladen	kph (mph)	7.0/10 (4.3/6.2)
	5.2	Lift speed,laden/unladen	m/s (ft/min)	0.032/0.069 (6.3/13.6)
	5.3	Lowering speed,laden/unladen	m/s (ft/min)	0.042/0.033 (8.3/6.5)
	5.8	Max.Gradeability,laden/unladen	%	6/16
Electric Engine	6.1	Drive motor rating S2 60 min	kW/hp	2.2/2.95
	6.2	Lift motor rating at S3 15%	kW/hp	2.2/2.95
	6.4	Battery voltage,rated capacity	V/Ah	24/360
		Battery voltage,rated capacity,Optional	V/Ah	24/420
	8.1	Type of drive control		AC
	9.1	Manufacturer		CURTIS





Medium Level Man-up Order Picker

with capacities of 500kg

Application

/ E-commerce, Retail, Auto parts, Electronic Manufacturing.

Electrical And Drive Unit

- / AC controller manages travelling, braking, lifting/ lowering steering functions. LCD dashboard displays, hour meter, battery state of charging, travel speed and drive wheel directional indicator.
- / AC drive motor provides high torque throughout the entire drive range. The brushless design of AC technology drastically reduces maintenance and extends battery working hours.
- / Programmable - travel speeds, plugging, and neutral braking are infinitely variable providing application specific performance.

Regenerative Brakes

- / Regenerative braking is applied when the operator removes their hand from travel control or when travel speeds is reduced,
- / Electromagnetic parking brake is applied after the truck is stopped.

Mast

- / Heavy duty I-beam design provides excellent stability at height. Steel mast channels and side mounted lift cylinders increases platform capacity.

Operator Controls

- / Ergonomic fingertip control for travelling, lifting, and lowering functions which provide the operator with logical intuitive drive characteristics while traveling at elevation or lowered.
- / Spacious operator compartment is designed for high productivity. Large storage compartment allows storage of clip boards, pens, and miscellaneous fulfillment tools. Retractable compartment side-rails with audible alarm when raised.

Chassis

- / Three point chassis design with along with 180° drive motor steering provides exceptional maneuverability. Powerhead mounted stability casters add additional truck stability and operator confidence at working heights up to 5000mm.

Standard Specification

- / Electronic Power Steering
- / Hide away rear work tray
- / Front and rear flashing light
- / Battery compartment rollers

Options

- / 224 Amp hour maintenance free AGM battery pack with 110 VAC plug-in charger



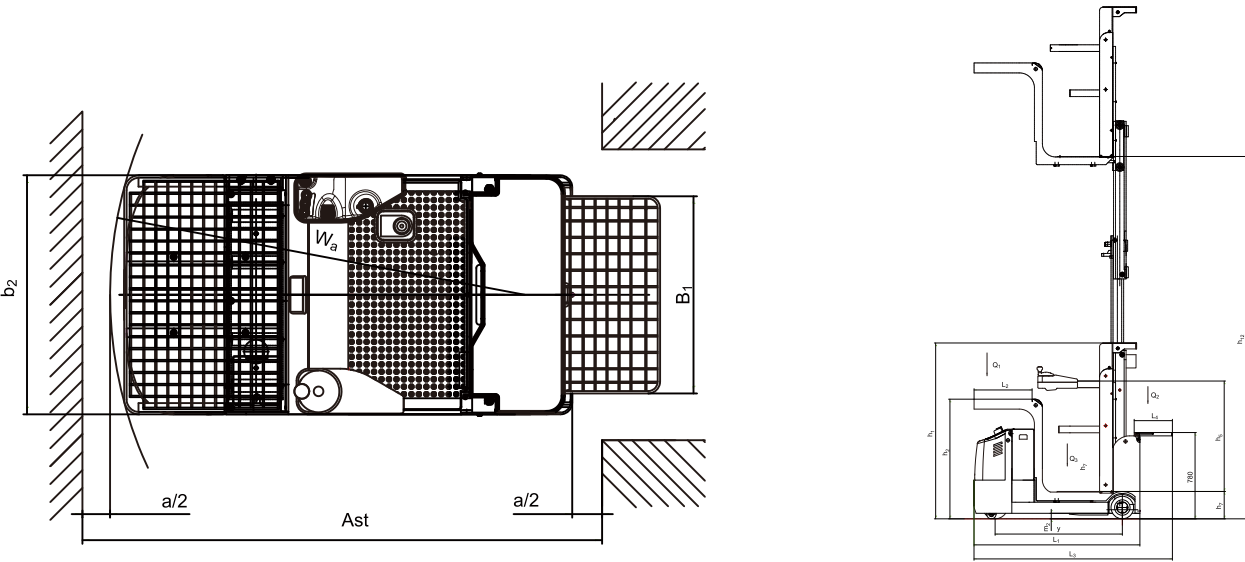
Medium Level Man-up Order Picker

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	CJD-W22S-M	CJD-W32S-M	CJD-W36S-M	CJD-W41S-M
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	electric	electric	electric	electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Order-picker	Order-picker	Order-picker	Order-picker
	1.5	Rated capacity on front platform	Q (kg/lb)	227/500	227/500	Δ227/500
Weight		Rated capacity on behind platform	Q (kg/lb)	137/302	137/302	137/302
		Rated capacity on standing platform	Q (kg/lb)	136/300	136/300	136/300
	1.9	Wheelbase	y (mm/in)	1150/45.3	1150/45.3	1150/45.3
	2.1	Service weight (Include battery)	kg/lb	1090/2403	1160/2557	1230/2712
	2.2	Axle loading, laden driving side/loading side	kg/lb	650/940 (1433/2072)	680/980 (1499/2161)	710/1020 (1565/2249)
Tyres, chassis	2.3	Axle loading, unladen driving side/loading side	kg/lb	475/615 (1047/1356)	490/670 (1080/1477)	500/730 (1102/1609)
	3.1	Tyre type, Driving wheels/Loading wheels		PU/Rubber	PU/Rubber	PU/Rubber
	3.2	Tyre size, driving wheels	mm/in	Φ230×75 Φ9.1×3.0	Φ230×75 Φ9.1×3.0	Φ230×75 Φ9.1×3.0
	3.3	Tyre size, loading wheels	mm/in	Φ204×76 Φ8.0×3.0	Φ204×76 Φ8.0×3.0	Φ204×76 Φ8.0×3.0
	3.4	Tyre size, caster wheels	mm/in	Φ102×61.5 Φ4.0×2.4	Φ102×61.5 Φ4.0×2.4	Φ102×61.5 Φ4.0×2.4
Dimensions	3.5	Wheels, number driving, caster/loading (x=drive wheels)		1,2/2	1,2/2	1,2/2
	4.2	Height, mast lowered	h ₁ (mm/in)	1590/62.6	1590/62.6	1670/65.7
	4.8	Seat height/standing height	h ₇ (mm/in)	250/9.8	250/9.8	250/9.8
	4.14	Stand height, elevated	h ₁₂ (mm/in)	2200/86.6	3200/126.0	3600/141.7
	4.19	Overall length	l ₁ (mm/in)	1500/59.1	1500/59.1	1500/59.1
	4.21	Overall width	b ₁ /b ₂ (mm/in)	800/31.5	800/31.5	800/31.5
	4.32	Ground clearance, center of wheelbase	m ₂ (mm/in)	50/2.0	50/2.0	50/2.0
	4.33	Front cargo platform width	B ₀ ×L ₂ (mm/in)	800×520 31.5×20.5	800×520 31.5×20.5	800×520 31.5×20.5
	4.34	Initial height of front cargo platform	h ₂ (mm/in)	1082/42.6	1082/42.6	1082/42.6
	4.35	Control handle height	h ₅ (mm/in)	1010/39.8	1010/39.8	1010/39.8
	4.36	Behind platform width	L ₄ ×B ₁ (mm/in)	346×660 13.6×26.0	346×660 13.6×26.0	346×660 13.6×26.0
	4.37	Overall length platform launch	L ₃ (mm/in)	1795/70.7	1795/70.7	1795/70.7
	4.38	The channel width	A _{st} (mm/in)	1750/68.9	1750/68.9	1750/68.9
	4.39	Turning radius	W _a (mm/in)	1385/54.5	1385/54.5	1385/54.5
Performance Data	5.1	Drive speed, laden/unladen	km/h mph	5.5/3.4	5.5/3.4	5.5/3.4
		Drive speed, laden/unladen	km/h mph	3.7/2.3	3.7/2.3	3.7/2.3
		Drive speed, laden/unladen	km/h mph	2.6/1.6	2.6/1.6	2.5/1.6
		Drive speed, laden/unladen	km/h mph	1/0.6	1/0.6	0.6/0.4
	5.2	Lifting speed, laden/ unladen	m/s (ft/min)	0.17/0.21 (33.4/41.3)	0.17/0.21 (33.4/41.3)	0.17/0.21 (33.4/41.3)
	5.3	Lowering speed, laden/ unladen)	m/s (ft/min)	0.35/0.26 (68.9/51.2)	0.35/0.26 (68.9/51.2)	0.35/0.26 (68.9/51.2)
	5.8	Max. gradeability, laden/unladen	%	0	0	0
Electric Engine	5.10	Service brake type		Electromagnetic	Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min	kw/hp	1.5/2.0	1.5/2.0	1.5/2.0
	6.2	Lift motor rating at S3 15%	kw/hp	2.2/3.0	2.2/3.0	2.2/3.0
	6.3	The maximum allowed size battery	mm/in	200x740x670 7.9x29.1x26.4	200x740x670 7.9x29.1x26.4	200x740x670 7.9x29.1x26.4
	6.4	Battery voltage/nominal capacity K20	V/Ah	24/224	24/224	24/224
	6.5	Battery weight	kg/lb	163/359	163/359	163/359
	8.1	Type of drive unit		AC	AC	AC
	10.5	Steering type		electric	electric	electric
	10.7	Sound pressure level at the driver's ear	dB (A)	74	74	74



Self-propelled Electric Scissor Lifts
aerial work platform

HANGCHA self-propelled electric scissor lifts are the high efficient, safe and ideal solution for modern industry. Ideal for maneuvering in tight spaces, they're excellent for indoor and outdoor application, all the functions, lifting, lowing, forward, and backward are under operator's control. Easy maintenance and service after opening the battery cover, all key parts are easy access. With low noise level, and high reliability, HANGCHA self-propelled electric scissor lifts are always your best partner.



Application

/ Stations, dock, airport, power station, gym, big company ect.

Characteristics

- / The proportional control system: Control the speed of traveling and lifting as you need.
- / Control box: This box is including the function of traveling and lifting, when you use the joystick, you can operate the machine with only one hand.
- / Self-leveling sensor: When the tilt degree is more than 2°, it will alarm.
- / LED display: Easy for maintenance.
- / Steering system: The turning radius is small, it can work in the narrow space.
- / Extension deck: You can reach the working place by the extended platform.
- / Reasonable arrangement: All the parts of hydraulic system and electric system are located in the side doors, convenient to repair.
- / Safety: Alloy steel axis, to make sure the safety, reliable and efficient.
- / Internal charger: You can charge the battery directly, do not need to remove it from machine.
- / Hydrostatic transmission: Using hydrostatic transmission system technology.



Standard Specification

- / The lifting system
- / The proportional control
- / Anti-overturning system
- / Control box
- / Internal charger
- / Hour meter
- / Local battery

Options

- / Working lights(two lights)
- / 220V socket
- / Beeper
- / Working light
- / Anti-overload system (Required by CE)
- / High pressure pipe
- / High capacity battery: 340Ah



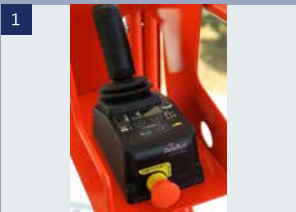
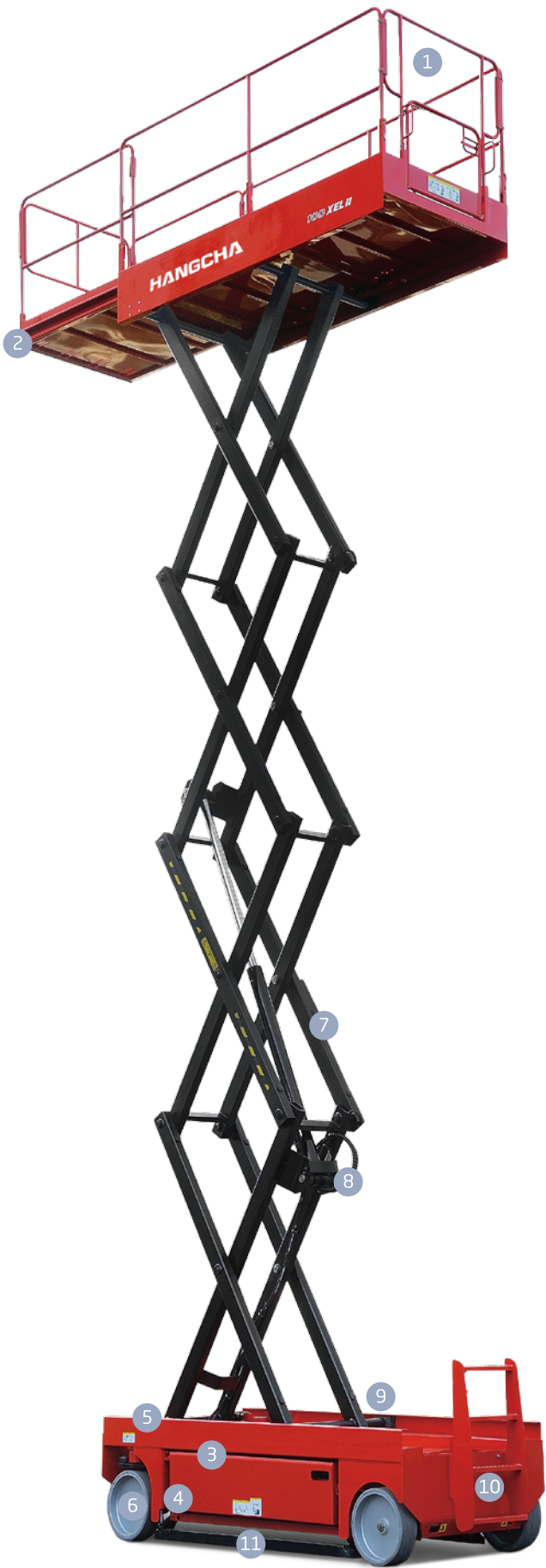
65XEII/78XEII



81XEII



100XEII/120XEII/140XEII



Delta Tech



Extension deck



Hydraulic and electric system



Battery



Brake



Traction motor



Supporting arms: To protect the operator when he is doing repair or maintenance job



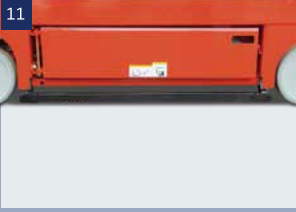
Explosion proof valve: To prevent the platform falling when the oil tube is leaking



Manual lowering valve: When the operation system is broken or the battery power is low, we can use this valve to lower the platform



Manual release valve: When the machine doesn't work, you can push the machine after pressing this valve



Anti-overturning system, after the platform lifting up to 2m, the anti-overturning system will automatically operate, to protect lifting platform from overturn during pass through un-leveling ground

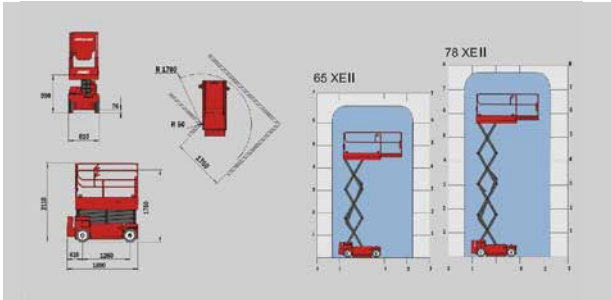
Self-propelled Electric Scissor Lifts

01	Manufacturer	HANGCHA GROUP CO.,LTD.					
02	Model	65XEII	*78XEII	*81XEII	*100XEII	*120XEII	*140XEII
03	Working height (m)	6.4	7.8	8.1	10.2	12.2	14.1
04	Platform height (m)	4.4	5.8	6.1	8.2	10.2	12.1
05	Overall length (m)	1.89	1.89	2.47	2.8	2.8	2.8
06	Overall width (m)	0.81	0.81	0.81	1.2	1.2	1.2
07	Overall height (m)	1.88	2.11	2.14	2.41	2.55	2.69
08	Height with rails folded (m)	1.65	1.76	1.92	1.67	1.81	1.95
09	Platform size (m)	1.67x0.78	1.67x0.78	2.30x0.80	2.7x1.2	2.7x1.2	2.70x1.00
10	Extension deck size (m)	0.9	0.9	1	1.2	1.2	0.9
11	Ground clearance (m)	0.076	0.076	0.095	0.12	0.12	0.12
12	Turning radius inside (m)	0.05	0.05	0.092	0.05	0.05	0.05
13	Turning radius outside (m)	1.7	1.7	2.1	2.75	2.75	2.75
14	Rated load (kg)	350	230	340	450	320	320
15	Load capacity of extension deck (kg)	110	110	120	140	140	110
16	Batteries (V/Ah)	24,210	24,210	24,210	24,210	24,210	24,210
17	Weight ±30 (kg)	1250	1380	1700	2470	2680	2760
18	Travel speed (km/h)	0-3.3	0-3.3	0-3.3	0-3.3	0-3.3	0-3.3
19	Lift time (s)	13±2	15±2	19±2	41±3	56±3	61±3
20	Lowered time (s)	21±4	29±4	35±4	44±7	44±7	60±7
21	Tyre	Non-mark Tyres	Non-mark Tyres	Non-mark Tyres	Non-mark Tyres	Non-mark Tyres	Non-mark Tyres
22	Maximum slope	2° or 3.5%	2° or 3.5%	2° or 3.5%	2° or 3.5%	2° or 3.5%	2° or 3.5%
23	Gradeability	25%	25%	25%	25%	25%	25%
24	Working area	inside 0km/h wind	inside 0km/h wind	inside 0km/h wind	inside/outside <45km/h wind		

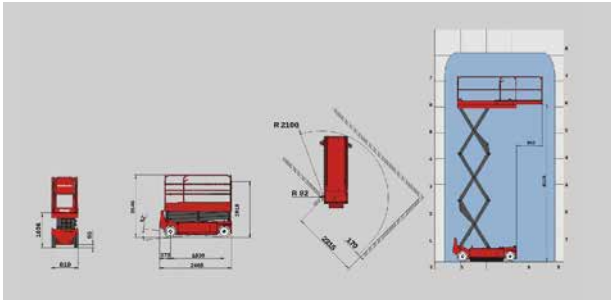
Note: *with CE

Size Range

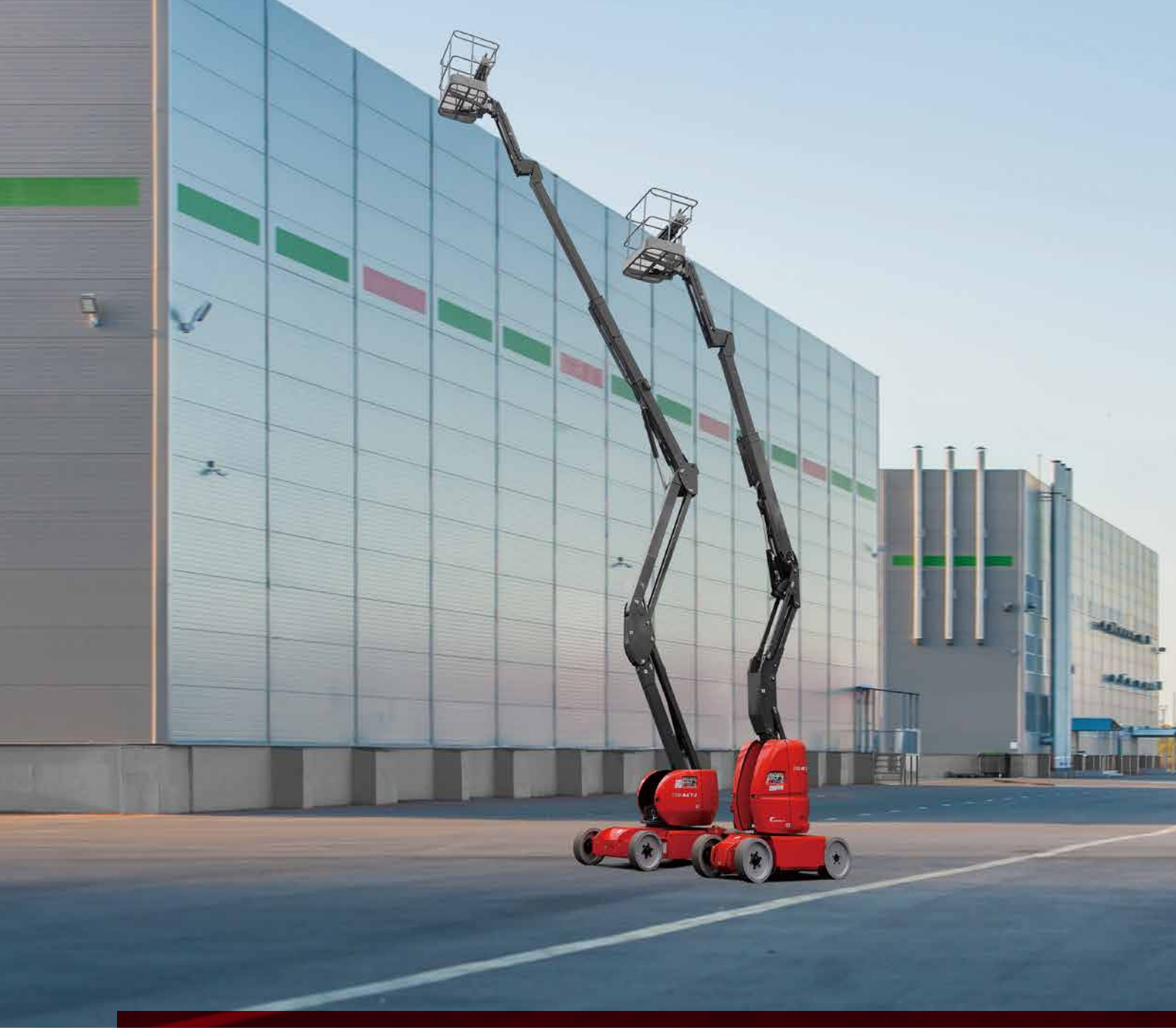
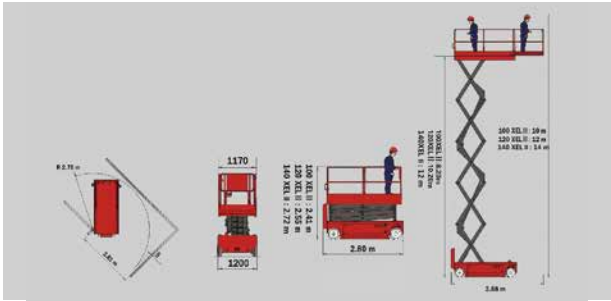
65XEII
78XEII



81XEII



100XEII
120XEII
140XEII



Articulating Booms

120AETJC/170AETJ

This machine has articulation boom which can work across the obstacle. It can carry two people and some tools in the basket. The machine allows you to operate it in limited place with narrow design and small radius turning system. You can operate the machine from basket or base control, so when you want to move it, you do not need to go down the machine. Multi-motion control allows you to operate several actions simultaneously. With this machine, you can do work more efficient and comfortable.

Standard Specification

- / Electrical battery traction
- / Negative brakes
- / Lifting brake
- / Hour meter
- / Warning buzzer in the basket
- / 220V predisposal
- / Voltage indicator
- / Safety manual pump
- / Bus CAN technology
- / Diagnostic help integrated
- / Dual electrical motors
- / No marking tires
- / Anti-roll system
- / Integrated charger

Options

- / Working lights
- / Flashing light(all motion alarm)
- / Buzzer
- / Air predisposal
- / Electrical plug 220V
- / Over-load sensor system



120AETJ C



170AETJ



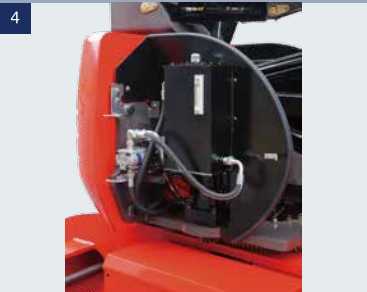
Double rails baskets: Protect your hand. The floor of basket is with tight mesh, that can make you to observe the situation in the ground



2.Standard tracking battery: Reduce 40% of the charge time, raise 50% of the life time



The system anti-overturn



Motor, Motor of rotation

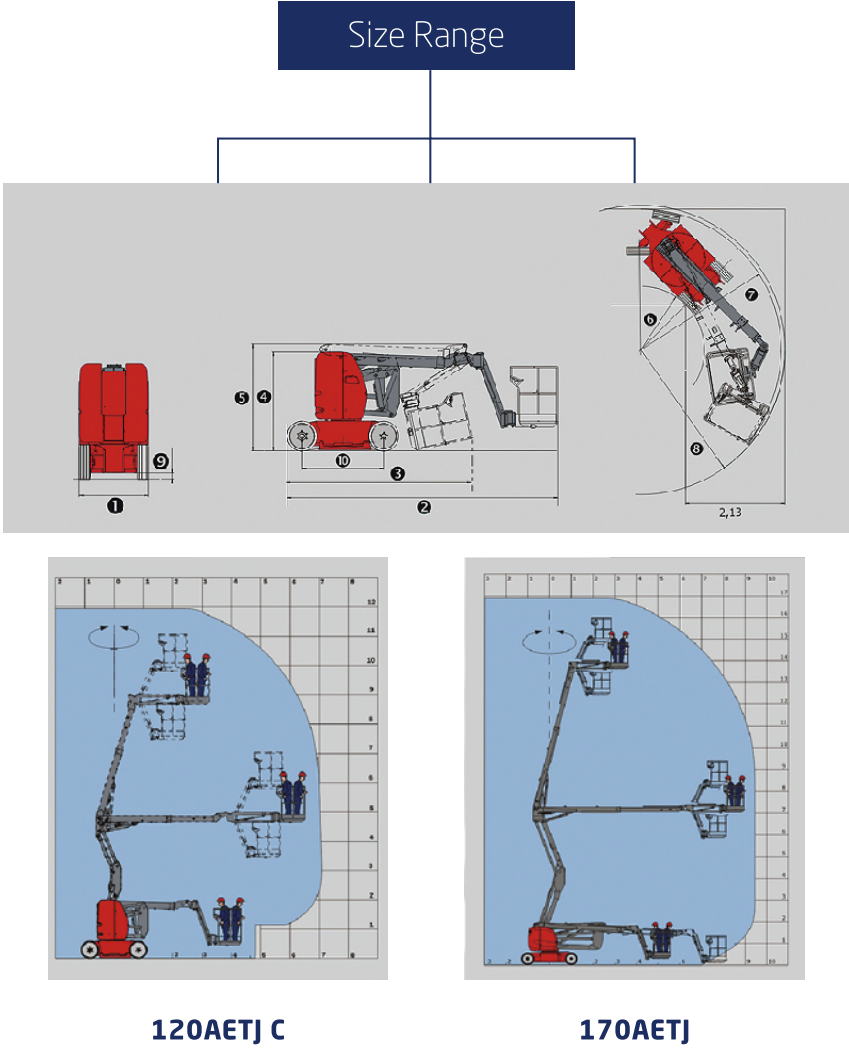


The main valve



Articulating Booms

1	Manufacturer		HANGCHA GROUP CO.,LTD.	
2	Model		120AETJC	170AETJ
3	Working height	m	11.95	16.75
4	Platform height	m	9.95	14.75
5	Horizontal height	m	7.00	9.3
6	Up and over height	m	4.77	7.1
7	Length	m	5.48	6.92
8	Length (storage)	m	3.74	5.4
9	Wheel base	m	1.65	2
10	Width	m	1.20	1.74
11	Height	m	1.99	1.99
12	Height (storage)	m	2.16	2.09
13	Basket size	m	1.20x0.96	1.20x0.96
14	Turning radius inside	m	1.55	1.98
15	Turning radius outside	m	3.25	4.30
16	Turning radius outside (basket)	m	3.34	5.6
17	Ground Clearance	m	0.10	0.15
18	Capacity	kg	200	200
19	Jib movement		±70°	±70°
20	Basket rotation		140°	140°
21	Turret rotation		350°	355°
22	Drive speed	km/h	6.00	4.5
23	Working speed	km/h	0.60	0.60
24	Gradeability	%	25%	22%
25	Maxi slope acceptable	%	3° or 5%	3° or 5%
26	Tires	m	0.60x0.19	0.60x0.19
27	Wheel steer		2	2
28	Wheel drive		2	2
29	Batteries (C5)	V/Ah	330,2x24	330,2x24
30	Weight	kg	6550	7030



Full-line forklift truck supplier
Give you more choices...