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2014/SPRING

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NINGBO RUYI
JOINT STOCK CO.,LTD

xilin[®]

Since 1985
29 Years



“ It is a real delight to have friends with similar ideals coming from afar.”

—— Confucius
(B.C 551-B.C 479)
The great philosopher and educationalist in ancient China



NINGBO RUYI JOINT STOCK CO.,LTD

COMPANY INTRODUCTION →



NINGBO RUYI was established in 1985.

We have 1500 employees totally, 188 professional mechanical technicians , 77 senior engineers and 120 sales people. Our factory covers an area of 150,000 square meters, green area is around 30000 square meter.

Our products line are more than 430 type warehouse equipments such as Manual/Electric Pallet Truck, Manual/Electric Stacker, Reach Truck, Order pickers , Lift Table Trucks, Tractors and Forklift, with capacity from 500kgs to 5000kgs . Our market covers more than 145 countries and regions all over the world.

ISO International certificate from CQC :

Early in 1995, NINGBO RUYI got the international certificate of ISO9002.

NINGBO RUYI got the international certificate of :

- **ISO9001: 2008** (Design, develop, Manufacture and service)
- **ISO14001:2004** (Environmental Management System)
- **OHSAS18001:1999** (Occupational Health and Safety Management system)。

CE/GS/TUV Certificate :

Early in 1991 , NINGBO RUYI passed TUV safety inspection and get the GS certificate for Hand Pallet Trucks . As a matter of fact , Ningbo Ruyi was **FIRST** manufacturer and exporter in China who got the TUV/GS/CE certificate for products of Hand Pallet Trucks .

In 2012 NINGBO RUYI passed **The National Exemption From Export Inspection** from The General Administration of Quality Supervision , inspection and Quarantine of the P.R.C.

Award and reputation

- China Top Brand
- China Famous brand
- The AAA class credit Award enterprise
- Tax credit of A grade award
- The Enterprise technology center of Zhejiang
- The first-class export management award
- The leading enterprise of the metal mechanical industry award
- Zhejiang Province level civilized units award
- The credit enterprise award
- Ningbo High and New Tech Enterprises Award
- NO 1 Science and Technology Awards
- China charity Certificate
- The Green Enterprise of Zhejiang province

Technical achievement

● Different products have got 35 national patents, among which have:

- 2 Invention patent
- 11 Utility Model Patents
- 12 Appearance patents

NINGBO RUYI participated drafting three Chinese national standards' revision related to Manual Pallet Trucks and Electric Trucks .

RUYI means "everything is the best and being happy " . We are always trying our best to make you satisfied with everything you purchased from us.



PRODUCT INDEX

08-24

Series Pallet Truck



25-45

Electric Pallet Truck



46-57

Electric Tow Tractor



58-60

Manual Stacker



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Electric Stacker



92-105

Narrow Aisle Truck



106-111

Manual & Power Lift Table



Series Pallet Truck



Hand Pallet Truck



Model: BF

1KG=2.205LB 1INCH=25.40MM

Model	BF		
Capacity	Q(kg)	2500/3000	2500/3000
Lowered fork height	h_{10} (mm)	85	75
Steering wheel	mm	ϕ 200	ϕ 180
Fork wheel single	mm	ϕ 80x93	ϕ 74x93
Fork wheel tandem	mm	ϕ 80x70	ϕ 74x70
Max. lift height	h_2 (mm)	200	190
Total height	h_{14} (mm)	1224	1214
Overall length	l_1 (mm)	1483/1533/1603	1483/1533/1603
Fork length	l (mm)	1100/1150/1220	1100/1150/1220
Width overall forks	b_5 (mm)	520/550/685	520/550/685
Ground clearance, centre of wheelbase	m_2 (mm)	32	22
Aisle width for pallets 1000x1200 crossways	A_4 (mm)	1683/1733/1803	1683/1733/1803
Aisle width for pallets 800x1200 lengthways	A_4 (mm)	1783/1783/1803	1783/1783/1803
Turning radius	W_4 (mm)	1216/1266/1336	1216/1266/1336
Service weight	kg	63-75	63-75

Over
5,000,000
units sold



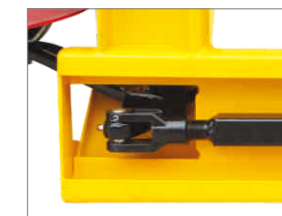
Professional

Innovative design, comprehensive testing and highest quality !

- Most standard and popular model with capacity 2500 - 3500kgs.
- Supporting base : the new type is thicker in case of bending problems.
- Forks: the thickness of the new type is 53mm to make strength increased.
- Great innovation on part of wheel frame:
 - A. The new type wheel frame enhances strength to prevent distortion problems.
 - B. The new type frame without roll ring & roll sheath.
 - C. Adopts double-spring pins construction with strengthening ribbing under triangle to prevent pin snipping problems.
- With Copping Supporting NOG & strengthening ribbing under top triangle cover.
- Complete pump design with reliable leak-proof pump eliminating maintenance and extending the service time.
- 210 steering arc, and small turning radius.
- Fork Lowering speed is controllable, operated by hand control and foot pedal.
- Ergonomic rubber wrapped handle, which is comfortable and convenient to operate.
- Entry / exit roller, more freely travel.
- Equipped with over-load valve, with long service time.
- 3 position hand control - Raise, Lower, Neutral.
- 12 lubrication grease nipples on all movable parts for easy maintenance.
- Adjustable pump cap ensures a long service life.
- Ergonomic large rubber handle with three control lever.
- Option: 1) Nylon wheel, polyurethane wheel, rubber wheel, single fork roller or tandem fork rollers.
2) Fork length: 800mm, 900mm, 1000mm.
3) Foot pedal release.
4) Pump color: black painting, silver painting, silver galvanized.



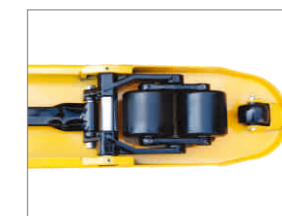
Adjustable pump cap



Adjustable straight tappet



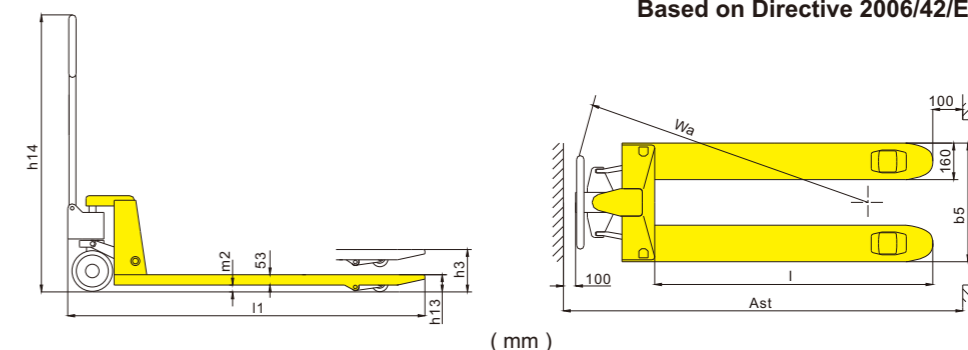
Option: fully rubber wrapped handle



Entry roller for easy operation
Innovative wheel frame



Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC



(mm)

Remark: Special size fork width and length can be made according to customer's requirement.

Model: BF-III

1KG=2.205LB 1INCH=25.40MM

Model	BF-III	
Capacity	Q(kg)	2500
Lowered fork height	h_{13} (mm)	75
steering wheel	mm	ϕ 180
fork wheel single	mm	ϕ 74x93
fork wheel double	mm	ϕ 74x70
Max. Lifting height	h_3 (mm)	195
Height of tiller in drive position min./max.	h_{14} (mm)	1214
Overall length	l_1 (mm)	1543/1613
Fork length	l (mm)	1150/1220
Width overall forks	b_5 (mm)	520/550/685
Ground clearance, center of wheelbase	m_2 (mm)	32
Aisle width for pallets 1000x1200 crossways	A_n (mm)	1743/1813
Aisle width for pallets 800x1200 lengthways	A_n (mm)	1813/1813
Turning radius	W_s (mm)	1276/1346
Service weight	kg	58-70

Remark: Special size fork width and length can be made according to customer's requirement.



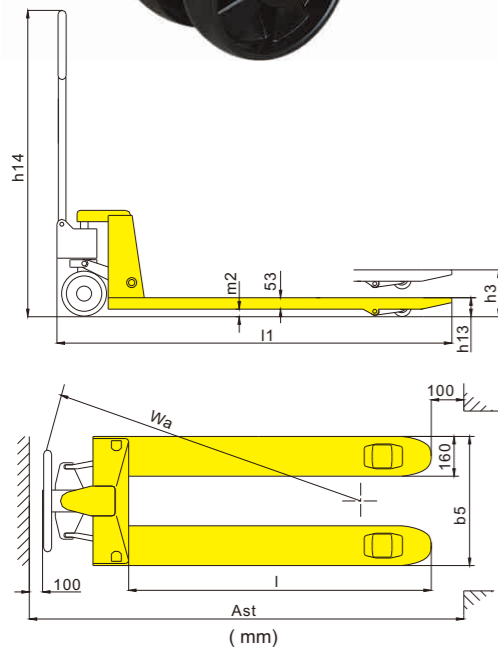
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Based on Directive 2006/42/EC



Pump

Hand pallet truck

- Integrated pump without welding , no any leaking problems.
- Frame force is more reasonable , and the strength is more reliable.
- Handle seat has hole it is more convenient for installation of control chain.
- Forks lowering speed is controllable, with overload valve to avoid overloading .
- Option: 1) steering wheel 200mm (fork wheel 80mm) are available.
2) Nylon wheel, polyurethane wheel, rubber wheel, single fork roller or tandem fork rollers.
3) Fork length: 800mm, 900mm, 1000mm, 1100mm.
4) Foot pedal release.
5) Pump color: black painting.
6) Quick lift (double speed lifting).

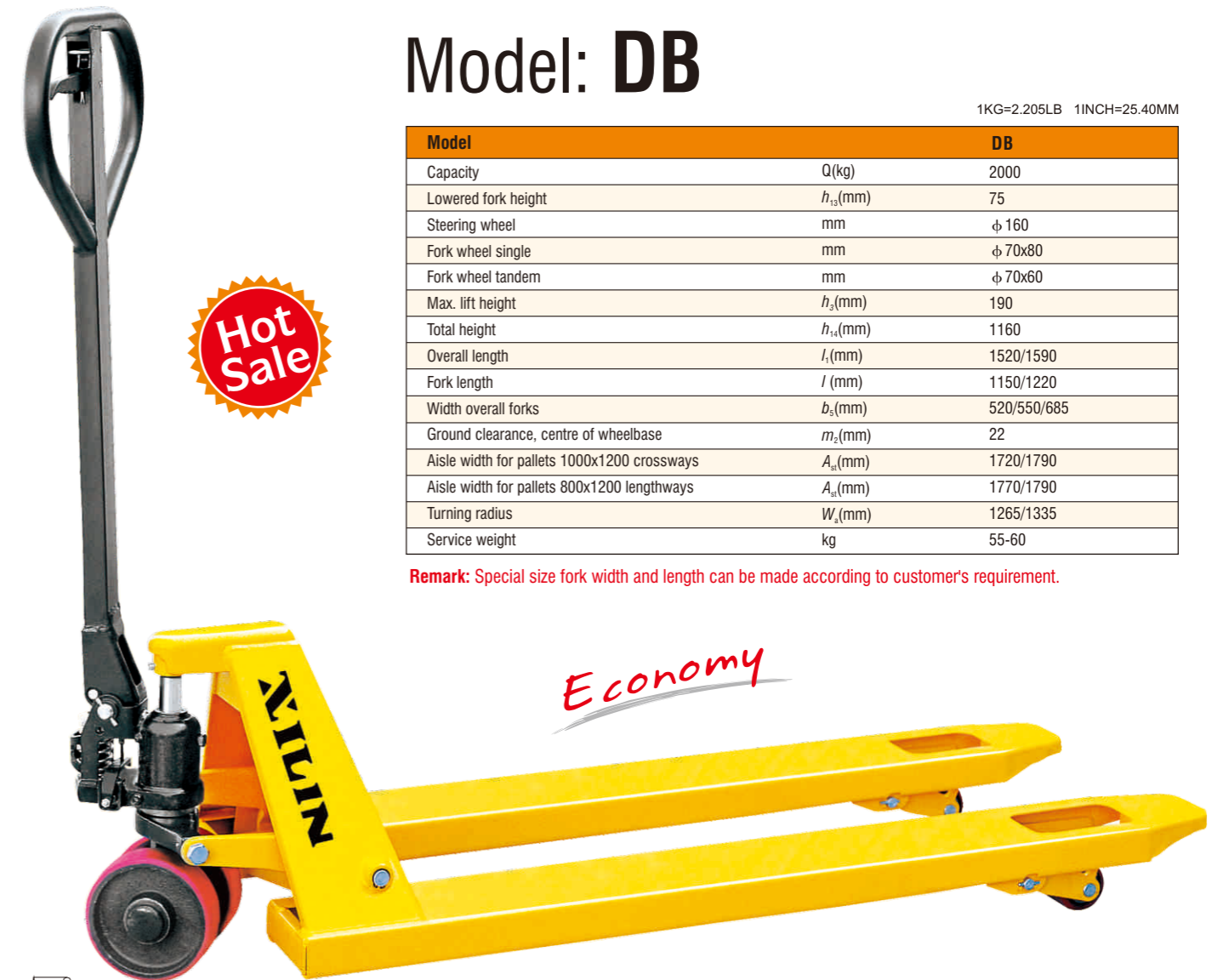


Model: DB

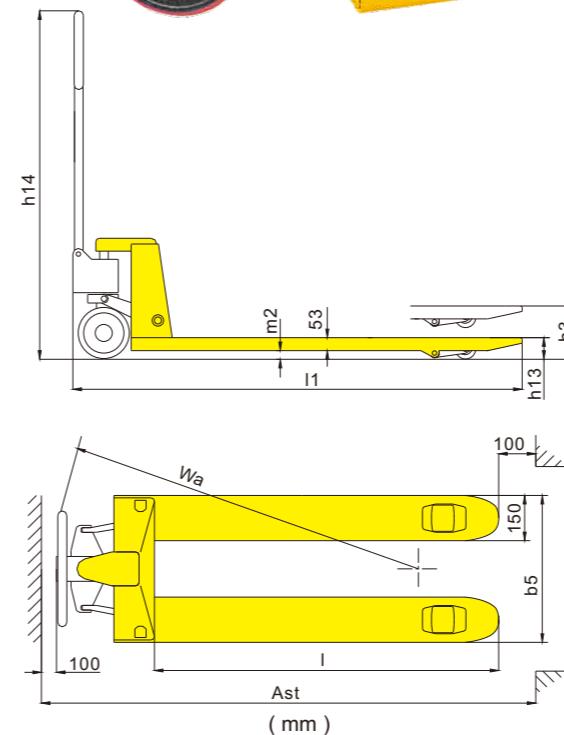
1KG=2.205LB 1INCH=25.40MM

Model	DB	
Capacity	Q(kg)	2000
Lowered fork height	h_{13} (mm)	75
Steering wheel	mm	ϕ 160
Fork wheel single	mm	ϕ 70x80
Fork wheel tandem	mm	ϕ 70x60
Max. lift height	h_3 (mm)	190
Total height	h_{14} (mm)	1160
Overall length	l_1 (mm)	1520/1590
Fork length	l (mm)	1150/1220
Width overall forks	b_5 (mm)	520/550/685
Ground clearance, centre of wheelbase	m_2 (mm)	22
Aisle width for pallets 1000x1200 crossways	A_n (mm)	1720/1790
Aisle width for pallets 800x1200 lengthways	A_n (mm)	1770/1790
Turning radius	W_s (mm)	1265/1335
Service weight	kg	55-60

Remark: Special size fork width and length can be made according to customer's requirement.



Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC



Economic design pallet truck

- Standard epoxy powder coat finish which is resistant to chips and normal corrosion.
- Exceptionally strong but light weight steel construction, service weight is only 55kgs.
- With welded joints and reinforced fork tips for most durability in the toughest applications.
- 3 position hand control - Raise, Lower, Neutral.
- Excellent turning angle of 190 degrees facilities.
- Number of pump strokes 12 times, lift height per stroke 11mm.
- Reliable oil leak-proof hydraulic system.
- Option: 1) Nylon wheel, polyurethane wheel, rubber wheel, single fork roller or tandem fork rollers.
2) Fork length: 800mm, 900mm, 1000mm, 1100mm.

Model: WA 3000KG

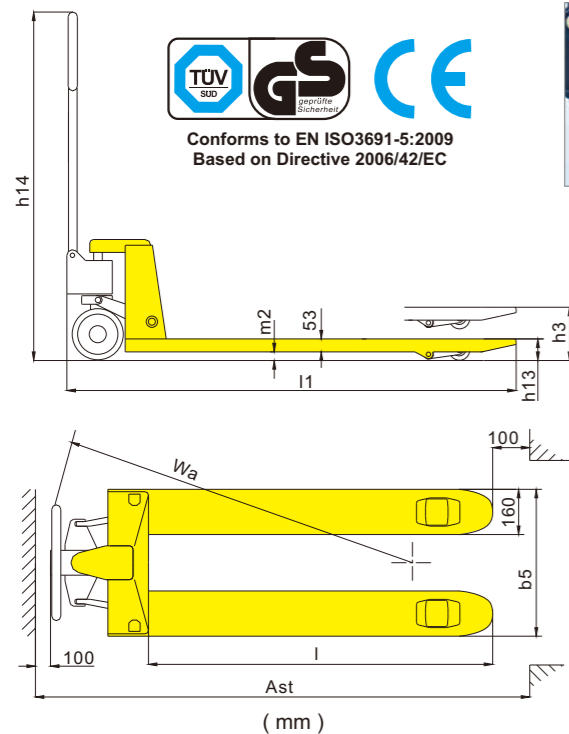
1KG=2.205LB 1INCH=25.40MM

Model	WA	
Capacity	Q(kg)	2000/2500/3000
Lowered fork height	h_{13} (mm)	85 75
Steering wheel	mm	ϕ 200 ϕ 180
Fork wheel single	mm	ϕ 80x93 ϕ 74x93
Fork wheel tandem	mm	ϕ 80x70 ϕ 74x70
Max. lift height	h_2 (mm)	200 190
Total height	h_{14} (mm)	1232 1222
Overall length	l_1 (mm)	1520/1590 1520/1590
Fork length	l (mm)	1150/1220 1150/1220
Width overall forks	b_2 (mm)	520/550/685 520/550/685
Ground clearance, centre of wheelbase	m_2 (mm)	32 22
Aisle width for pallets 1000x1200 crossways	A_{11} (mm)	1720/1790 1720/1790
Aisle width for pallets 800x1200 lengthways	A_{12} (mm)	1770/1790 1770/1790
Turning radius	W_2 (mm)	1265/1335 1265/1335
Service weight	kg	55-70 55-70

Excellent



Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC



Excellent type pallet truck

- Standard single speed pump and light service weight, but big load capacity 3000kgs.
- Design on the base of 3 years service time, which can be extended up to 5 years.
- Compact appearance, complete rocker arms, ensure the whole truck averaged pressed.
- Full sealed pump, easy to maintain.
- Simplified spare parts, higher performance with low repair cost.
- Option: 1) Double Speed Pump.
2) Nylon wheel, polyurethane wheel, rubber wheel, single fork roller or tandem fork rollers.
3) Fork length: 800mm, 900mm, 1000mm, 1100mm.

Model: DF-III

1KG=2.205LB 1INCH=25.40MM

Model	DF	DF-III
Capacity	Q(kg)	2500/3000 2500 2500
Lowered fork height	h_{13} (mm)	85 75 85 75
Steering wheel	mm	ϕ 180 ϕ 180 ϕ 180 ϕ 160
Fork wheel single	mm	ϕ 80x93 ϕ 74x93 ϕ 70x80 ϕ 70x80
Fork wheel tandem	mm	ϕ 80x70 ϕ 74x70 ϕ 70x60 ϕ 70x60
Max. lift height	h_2 (mm)	195 185 200 190
Total height	h_{14} (mm)	1233.5 1223.5 1186.5 1176.5
Overall length	l_1 (mm)	1528.5/1598.5 1528.5/1598.5 1590 1520
Fork length	l (mm)	1150/1220 1150/1220 1150/1220 1150/1220
Width overall forks	b_2 (mm)	520/550/685 520/550/685 520/550/680 520/550/680
Ground clearance, centre of wheelbase	m_2 (mm)	32 22 32 22
Aisle width for pallets 1000x1200 crossways	A_{11} (mm)	1728.5/1798.5 1728.5/1798.5 1720/1790 1720/1790
Aisle width for pallets 800x1200 lengthways	A_{12} (mm)	1778.5/1798.5 1778.5/1798.5 1770/1790 1770/1790
Turning radius	W_2 (mm)	1244.5/1314.5 1244.5/1314.5 1265/1335 1265/1335
Service weight	kg	65-77 65-77 55-60kg 55-60kg

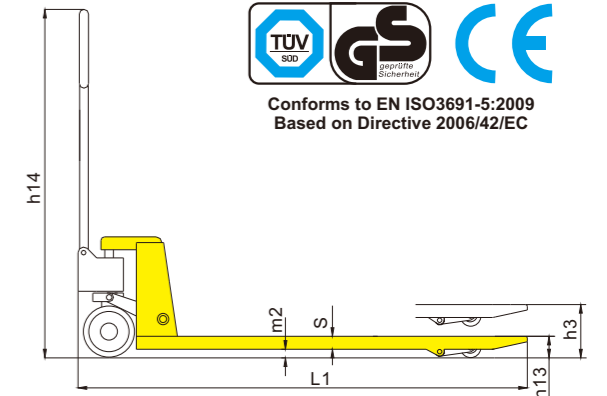
- Remark: (1) Capacity 2000kg available.
(2) Special size fork width and length can be made according to customer's requirement.



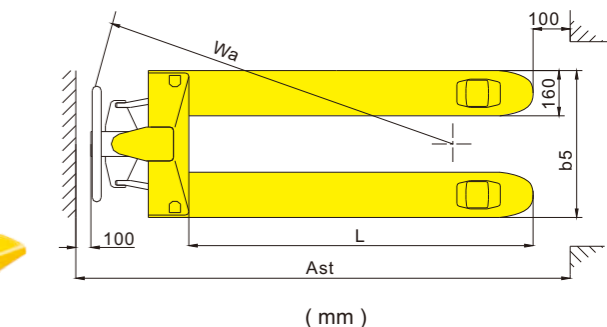
Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC

Standard type pallet truck

- Chrome piston and ram for smooth operation and prevents excessive wear on the pump & seal.
- Excellent turning angle of 180 degrees facilities.
- Number of pump strokes-10. Lift height per stroke:11mm.
- Option: 1) Nylon wheel, polyurethane wheel, rubber wheel, single fork roller or tandem fork rollers.
2) Fork length: 800mm, 900mm, 1000mm.



Model: DF



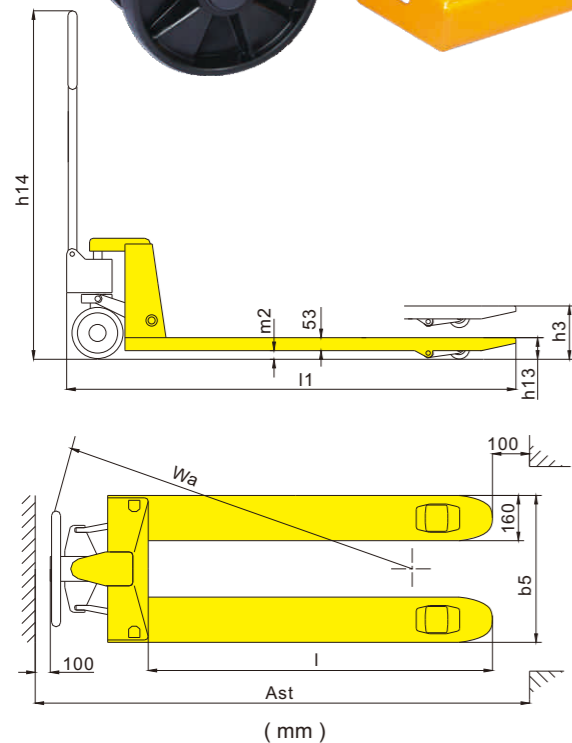
Model: NF

1KG=2.205LB 1INCH=25.40MM

Model		NF	
Capacity	Q(kg)	2500	2500
Lowered fork height	h_{13} (mm)	85	75
Steering wheel	mm	ϕ 200	ϕ 180
Fork wheel single	mm	ϕ 83x81	ϕ 74x93
Fork wheel tandem	mm	ϕ 83x60	ϕ 74x70
Max. lift height	h_3 (mm)	195	185
Total height	h_{14} (mm)	1160.5	1160.5
Overall length	l_1 (mm)	1545/1615	1545/1615
Fork length	l (mm)	1150/1220	1150/1220
Width overall forks	b_5 (mm)	520/550/685	520/550/685
Ground clearance, centre of wheelbase	m_2 (mm)	32	22
Aisle width for pallets 1000x1200 crossways	A_w (mm)	1745/1815	1745/1815
Aisle width for pallets 800x1200 lengthways	A_w (mm)	1795/1815	1795/1815
Turning radius	W_s (mm)	1280/1350	1280/1350
Service weight	kg	75-102	75-102



Conform to EN ISO3691-5:2009
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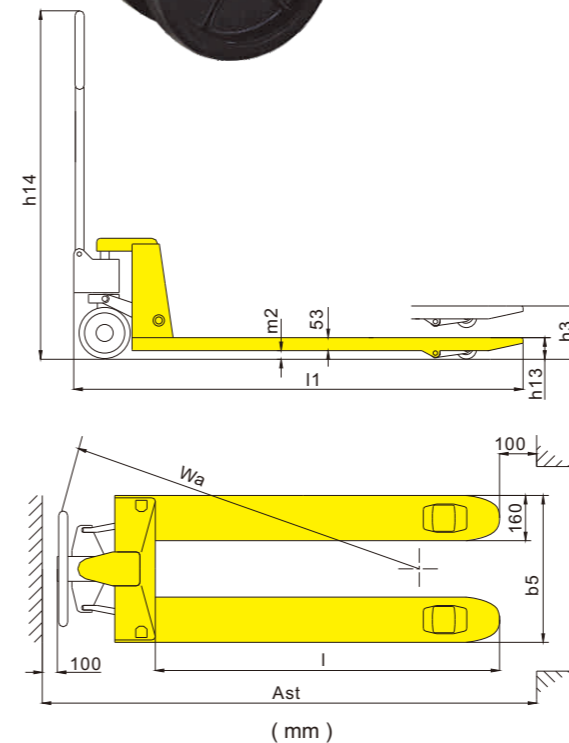
Standard type pallet truck

- Most compact and popular design of pump unit.
- Standard versions for finished using a tough epoxy based coating which is resistant to chips and normal corrosion.
- Heavy duty forks for greatest strength, durability and super strong frame.
- 3 position control lever Lifting-Neutral-Lowering hydraulic encased in protective steel housing.
- Excellent turning angle of 180 degree facilities.
- Option: 1) Nylon wheel, polyurethane wheel, rubber wheel, single fork roller or tandem fork rollers.
2) Fork length: 800mm, 900mm, 1000mm, 1100mm.
3) BF chassis.

Model: WB 5000KG

1KG=2.205LB 1INCH=25.40MM

Model		WB	
Capacity	Q(kg)	5000	5000
Lowered fork height	h_{13} (mm)	88	78
Steering wheel	mm	ϕ 200	ϕ 180
Fork wheel single	mm	~	~
Fork wheel tandem	mm	ϕ 85x80	ϕ 75x80
Max. lift height	h_3 (mm)	205	195
Total height	h_{14} (mm)	1253	1243
Overall length	l_1 (mm)	1544/1614	1544/1614
Fork length	l (mm)	1150/1220	1150/1220
Width overall forks	b_5 (mm)	550/685	550/685
Ground clearance, centre of wheelbase	m_2 (mm)	24	14
Aisle width for pallets 1000x1200 crossways	A_w (mm)	1744/1814	1744/1814
Aisle width for pallets 800x1200 lengthways	A_w (mm)	1794/1814	1794/1814
Turning radius	W_s (mm)	1300/1370	1300/1370
Service weight	kg	103-110	103-110



Heavy duty type pallet truck

- High reliability and long service life of 5 years.
- Double lifting speed when loads under 600kg, which turns back to regular speed when above it.
- Impact free lifting ensures safety of cargo loading.
- The lifting system is equipped with overloading protection valve to ensure the safe operation.
- The utilized structural design guarantees the convenience of assembling and disassembling.
- Light-weight fork frame, made from high rigidity steel plate.
- Compact appearance, complete rocker arm, ensure the whole truck evenly pressed.
- There is a finger hole in the connection of handle and pump, easy to assemble.

Multi-function Hand Pallet Truck



Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC



Model: BFAQ

Quick Lift Model

- The quick lift pallet truck is an ideal truck for light load handling.
- Whenever lifting loads under 300kg, it takes just 5 strokes reached max. height.
- For loads above 300 kg, the quick lift hydraulic system automatically switches to normal operation.



Option: Foot brake

Model: BFB

Pallet Truck With Brake System

- Pallet truck with brake system can conveniently cease the truck and navigate ramps.



Patent No. of China:00216593.7

Model: BFT

Traverse Pallet Truck

- Designed for moving long loads down narrow aisles.
- Traverse movement effects when the fork height up to 180mm, and turn the handle by an angle of 90 degrees.
- Traverse movement provides more flexibility and convenience of applications as condition changes.
- Load capacity: 2500kg (1500kg traverse traveling).

1KG=2.205LB 1INCH=25.40MM

Model		BFAQ	BFB	BFT
Capacity	Q(kg)	2500	2500	2500 (1500 traverse)
Lowered fork height	h_{13} (mm)	85/75	85/75	85/75
Steering wheel	mm	φ 200/ φ 180	φ 200/ φ 180	φ 200/ φ 180
Fork wheel single	mm	φ 80x93/ φ 74x93	φ 80x93/ φ 74x93	φ 80x70/ φ 74x70 (fork wheel)
Fork wheel tandem	mm	φ 80x70/ φ 74x70	φ 80x70/ φ 74x70	φ 65x60 (traverse wheel)
Max. lift height	h_2 (mm)	200/190	200/190	200/190
Total height	h_{11} (mm)	1224	1224	1224
Overall length	l_1 (mm)	1533/1603	1533/1603	1533/1603
Fork length	l (mm)	1150/1220	1150/1220	1150/1220
Width overall forks	b_2 (mm)	520/550/685	550/685	520/550/685
Ground clearance, centre of wheelbase	m_2 (mm)	32/22	32/22	32/22
Aisle width for pallets 1000x1200 crossways	A_s (mm)	1733/1803	1733/1803	1733/1803
Aisle width for pallets 800x1200 lengthways	A_s (mm)	1783/1803	1783/1803	1783/1803
Turning radius	W_1 (mm)	1266/1336	1266/1336	1266/1336
Service weight	kg	65-85	65-85	65-85



Model: BFL

Low-profile Pallet Truck

- 1.5T Cap. lowered fork height - 52mm.
- 1T Cap. lowered fork height - 35mm.
- Steel fork rollers.



Model: BFH

High-profile Pallet Truck



Model: BFS

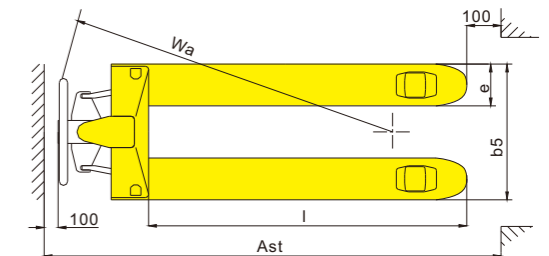
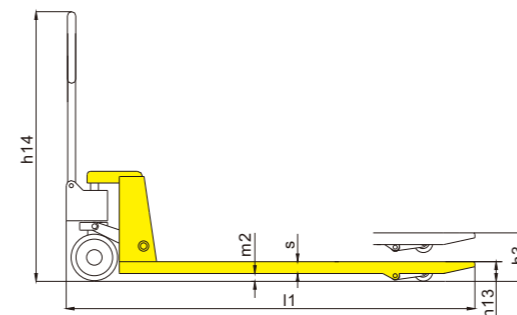
Stainless Steel Pallet Truck

- Widely used in carrying meat, marine products, wines, beverage, chemicals, etc. and can work in very low temperature conditions, e.g. to deliver goods into and out of freezers/coolers.



Model: BFG

Galvanized Pallet Truck



1KG=2.205LB 1INCH=25.40MM

Model		BFL10	BFL15	BFH	BFS	BFG
Capacity	Q(kg)	1000	1500	2000	2500	2500
Lowered fork height	h_{13} (mm)	35	52	140	85/75	85/75
Steering wheel	mm	φ 150	φ 150	φ 180	φ 200/ φ 180	φ 200/ φ 180
Fork wheel single	mm	~	φ 50x93	φ 126x68	φ 74x93	φ 80x93/ φ 74x93
Fork wheel tandem	mm	φ 35x60	φ 50x70	~	φ 74x70	φ 80x70/ φ 74x70
Max. lift height	h_2 (mm)	105	140	255	200/190	200/190
Total height	h_{11} (mm)	1174	1189	1279	1224	1224
Overall length	l_1 (mm)	1533/1603	1547/1617	1533/1603	1533/1603	1533/1603
Fork dimensions	s/e/l	28/150/1150(1220)	38/150/1150(1220)	53/160/1150(1220)	45/160/1150(1220)	53/160/1150(1220)
Width overall forks	b_2 (mm)	520/550/685	520/550/685	520/550/685	520/550/685	520/550/685
Ground clearance, centre of wheelbase	m_2 (mm)	7	14	95	32/22	32/22
Aisle width for pallets 1000x1200 crossways	A_s (mm)	1733/1803	1747/1817	1733/1803	1733/1803	1733/1803
Aisle width for pallets 800x1200 lengthways	A_s (mm)	1783/1803	1797/1817	1783/1803	1783/1803	1783/1803
Turning radius	W_1 (mm)	1266/1336	1286/1356	1266/1336	1266/1336	1266/1336
Service weight	kg	65-80	65-80	70-80	65-80	65-80

Multi-function Hand Pallet Truck



Model: BF3500
Heavy Duty Truck

1KG=2.205LB 1INCH=25.40MM

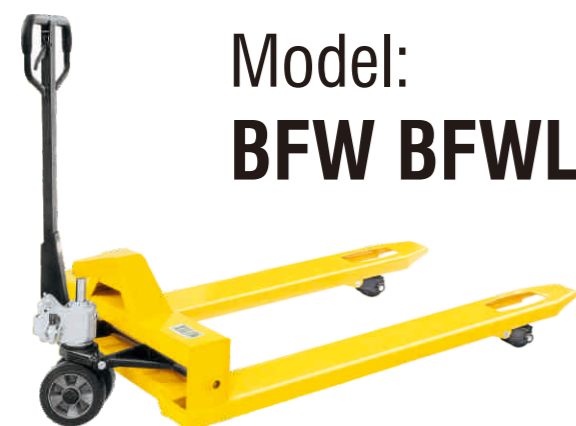
Model	BF3500	
Capacity	(kg)	3500
Lowered fork height	(mm)	85/75
Total lift height	(mm)	200/190
H. of handleless	(mm)	443/433
Fork length	(mm)	1150/1220
Width overall forks	(mm)	550/685
Steering wheel	(mm)	φ 200/ φ 180
Fork wheel	(mm)	φ 80/ φ 74
Truck weight	(kg)	100



Model: BFR
Pallet Truck With Backrest

1KG=2.205LB 1INCH=25.40MM

Model	BFR	
Capacity	(kg)	2500
Lowered fork height	(mm)	85/75
Total lift height	(mm)	200/190
H. of handleless	(mm)	431.5/421.5
Fork length	(mm)	1150/1220
Width overall forks	(mm)	520/550/685
Steering wheel	(mm)	φ 200/ φ 180
Fork wheel	(mm)	φ 80/ φ 74
Truck weight	(kg)	95/105



Model: BFW BFWL

1KG=2.205LB 1INCH=25.40MM

Model	BFW	BFWL	
Capacity	(kg)	1500	1500
Lowered fork height	(mm)	85/75	52
Total lift height	(mm)	200/190	142
H. of handleless	(mm)	431.5/421.5	421.5
Fork length	(mm)	1150/1220	1150/1220
Width overall forks	(mm)	740/830/965/1000/1200/1400	
Steering wheel	(mm)	φ 200/ φ 180	φ 150
Fork wheel	(mm)	φ 80/ φ 74	φ 50
Truck weight	(kg)	100	100



Model: BFZ
Super Narrow Truck

1KG=2.205LB 1INCH=25.40MM

Model	BFZ	
Capacity	(kg)	2000
Lowered fork height	(mm)	75
Total lift height	(mm)	190
H. of handleless	(mm)	401.5
Fork length	(mm)	800
Width overall forks	(mm)	320/390/406
Steering wheel	(mm)	φ 160
Fork wheel	(mm)	φ 70
Truck weight	(kg)	65



Model: WF
MINI Pallet Truck



Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC

Only 35kg!

1KG=2.205LB 1INCH=25.40MM

Model	WF	
Capacity	Q(kg)	500
Lowered fork height	h_{10} (mm)	60
Steering wheel	mm	φ 127
Fork wheel	mm	φ 58
Max. lift height	h_3 (mm)	150
Total height	h_{14} (mm)	1110
Overall length	l_1 (mm)	1126
Fork dimensions	s/e/l	40/100/800
Width overall forks	b_3 (mm)	380
Service weight	kg	35



Model: BFJ
Reel Carrier Truck

1KG=2.205LB 1INCH=25.40MM

Model	BFJ	
Capacity	(kg)	1000
Diameter of bale	(mm)	φ 700~φ 1200
Height of handleless	(mm)	431.5
Fork length	(mm)	1150
Max width overall forks	(mm)	965
Steering wheel	(mm)	φ 200
Fork wheel	(mm)	φ 80
Weight	(kg)	135



Model: HW
Rough Terrain Truck

• Special for building site

1KG=2.205LB 1INCH=25.40MM

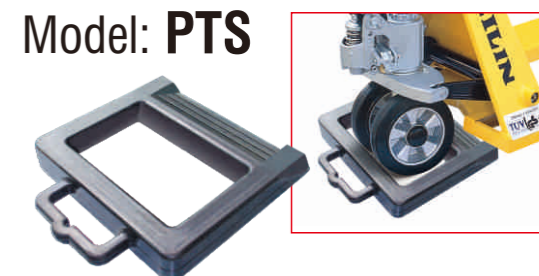
Model	HW	
Capacity	(kg)	1500
Lowered fork height	(mm)	70
Total lift height	(mm)	240
Height of handleless	(mm)	734
Total height	(mm)	1298
Total width	(mm)	1605
Fork length	(mm)	800
Max width overall forks	(mm)	740
Least width overall forks	(mm)	226
Steering wheel	(mm)	φ 250x60
Fork wheel	(mm)	φ 380x114
Weight	(kg)	192



• Different fork size can be made according to customers' requirement.

Pallet Truck Stop

Model: PTS



- "Pallet Truck Stop" is designed to eliminate damage due to runaway pallet Jacks, which can be easily picked up and placed in convenient spots.
- Drivers will never again have to tie down a pallet jack, use a load bar to hold it or flip it on its side. Just pull the jack into the pallet truck stop and it's parked in less than two seconds fully secured.
- It is the best device designed to hold any pallet Jacks in a moving car or trailer.



Model: **BFC6**
Model: **BFC6-II**
(Scale pallet truck with printer)



Model: **BFC6-7**
Model: **BFC6-8**
(Scale pallet truck with printer)

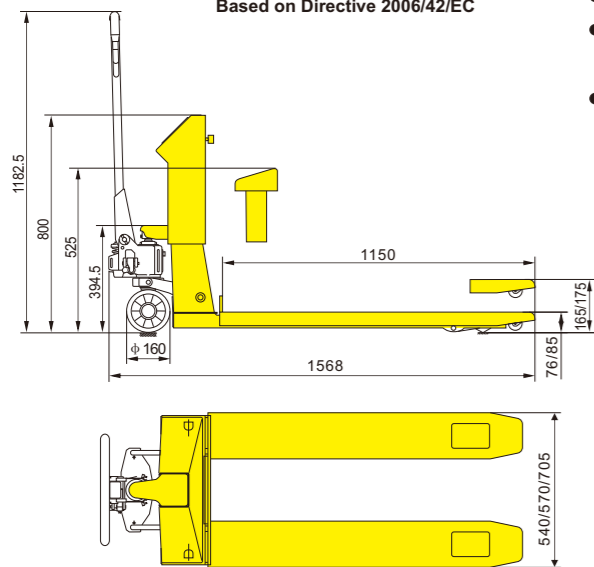
Economy

Standard

- Mobile pallet truck with scale combined two major functions for pallet truck/scale, allows you to weigh cargo whatever, wherever, whenever you want.
- Power supply with **rechargeable battery** or with 86~264V AC input .
- Keypad and automatic tare functions.
- 1.2inches, super-large and bright LED display in solid state to be strike-free.
- Available in pounds or kilograms.
- A/D velocity: 27/s, a faster speed of weighing, more correct.
- Various functions: with extended functions as weight-checking ,counting, etc., to satisfy different needs of customers.
- Conforms to EU's ROHS standard.



Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC



1KG=2.205LB 1INCH=25.40MM

Model		BFC6/BFC6-II	BFC6-7/BFC6-8
Capacity	(kg)	2000	2000
Lowered fork height	(mm)	76/85	76/85
Total lift height	(mm)	165/175	165/175
Fork length	(mm)	1150	1150
Width overall forks	(mm)	540/570/705	540/570/705
Steering wheel	(mm)	φ 160	φ 160
Fork wheel	(mm)	φ 70	φ 70
Power		Dry cell / Ni MH rechargeable battery	Lead-acid battery
Measuring interval		0.5	0.5
Max. deviation	(kg)	± 1‰	± 1‰
Service weight	(kg)	135	130

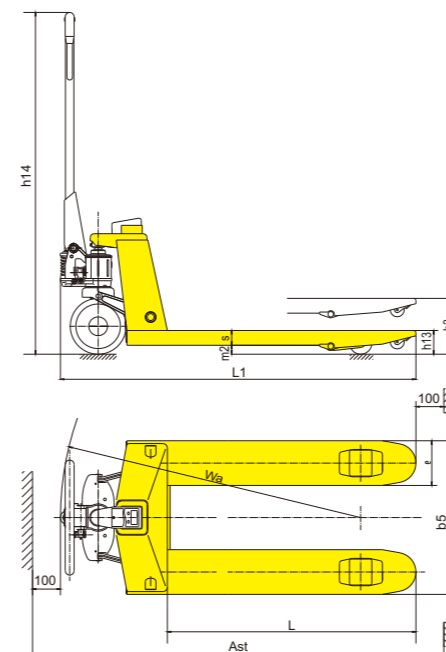


Model: **BFC6-IV**
(Lifting truck with electronic mobile scale)

- Display with dry batteries, no power supply, it is environment-friendly.
- Applicable for weighing in lifting.
- With bush on key parts, quality is more reliable.



Smart



1KG=2.205LB 1INCH=25.40MM

Model		BFC6-IV	
Capacity	kg	2000/2500	2000/2500
Lowest fork height	mm	85	75
Steering wheel	mm	φ 200	φ 180
Fork wheel single	mm	φ 80	φ 74
Max lifting height	h_3 (mm)	200	190
Total height	h_{14} (mm)	1224	1214
Height without handle	mm	486	476
Fork length	l(mm)	1100/1150/1220	
Width overall forks	b5(mm)	520/550/680	520/550/680
Ground clearance, center of wheelbase	m_2 (mm)	32	22
Aisle width for pallets 1000x1200 crossways	A_{cr} (mm)	1683/1733/1803	1683/1733/1803
Aisle width for pallets 800x1200 lengthways	A_{cl} (mm)	1783/1783/1803	1783/1783/1803
Turning radius	W_1 (mm)	1216/1266/1336	1216/1266/1336
Service Weight	kg	60-80	60-80

Scale Pallet Truck

High Lift Truck



Model: **BFC6-7(S)**
Stainless Steel Scale Truck

1KG=2.205LB 1INCH=25.40MM

Model	BFC6-7(S)	
Capacity	(kg)	2000
Lowered fork height	(mm)	76/85
Total lift height	(mm)	165/175
Fork length	(mm)	1150
Width overall forks	(mm)	540/570/705
Steering wheel	(mm)	φ 160
Fork wheel	(mm)	φ 70
Power	Lead-acid battery	
Measuring interval	0.5	
Max. deviation	(kg)	± 1‰
Service weight	(kg)	130

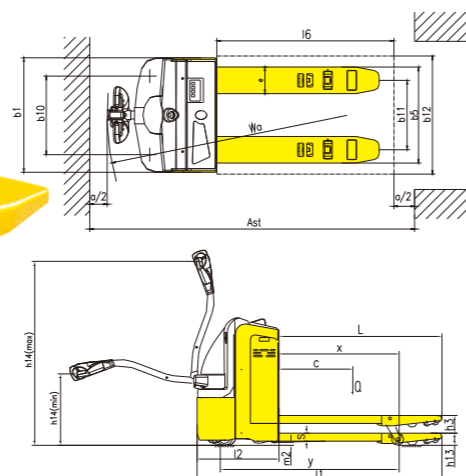
1KG=2.205LB 1INCH=25.40MM

MODEL	CBD20K(C)	
Drive	electric	
Load capacity/rated load	Q(kg)	2000
Load centre distance	c(mm)	600
Fork Height, lowered	$h_{1,2}$ (mm)	82
Tyres	polyurethane	
Tyre size, front	Φ 250x70	
Tyre size rear	Φ 82x126	
Additional wheels(dimensions)	Φ 127x57	
Max. lift height	h_3 (mm)	120
Height of tiller in drive position min./max.	$h_{1,4}$ (mm)	780/1230
Overall length	l_1 (mm)	1673/1723/1793
Length to face of forks	l_2 (mm)	573
Overall width	b_1 (mm)	775
Fork dimensions	s/e/l(mm)	54x186x1100(1150/1220)
Width overall forks	b_3 (mm)	556/656/691
Travel speed, laden/unladen	Km/h	5.5/5.6
Gradeability, laden/unladen	%	6/12
Max. gradeability, laden/unladen	%	8/20
Service brake	Electro magnetic	
Battery voltage, nominal capacity K5	V/Ah	24/165(210)
Battery weight	Kg	170
Battery box dimensions	mm	750x170x474(534)
Service weight(without battery)	kg	690

Model: **CBD20K(C)**
Electric Pallet Truck with Scale



TOLEDO meter
Weighing accuracy ± 2‰

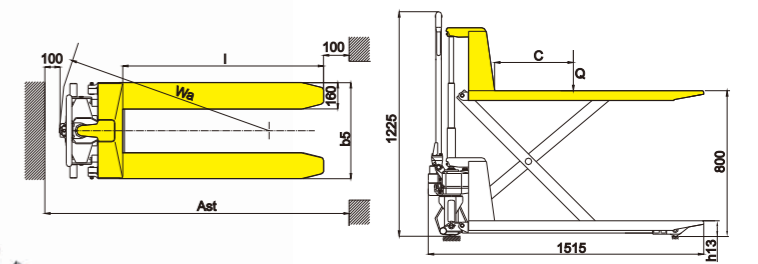


Model: **JF**



Conforms to EN 1757-4:2004
Based on Directive 2006/42/EC

- Ideal design with numerous possibilities makes this unit very suitable as pallet truck/scissor lift table.
- Telescopic jack composes of 3 piston rods
 - creating light pumping force giving great rigidity.
 - Support legs come into operation automatically.
 - It prevents the unit from moving when the forks are raised to keep the safety of the operator.
 - Truck automatically slows the descending speed when heavy goods loaded to prevent cargo damage.
 - 210 degree turning radius.
 - 2 lateral stabilizers when raised ensure good stability.



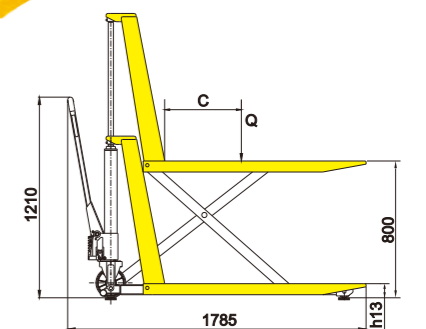
1KG=2.205LB 1INCH=25.40MM

Model	JF	JF7	
Capacity	Q(kg)	1000	1000
Lowered fork height	$h_{1,2}$ (mm)	85	85
Steering wheel	mm	Φ 180X50	Φ 180X50
Fork wheel	mm	Φ 74X50	Φ 74X50
Fork length	l (mm)	1150	1220
Width overall forks	b_3 (mm)	520/550/685	550/685
Aisle width for pallets 1000x1200 crossways	$A_{1,2}$ (mm)	1715	1985
Aisle width for pallets 800x1200 lengthways	$A_{1,3}$ (mm)	1765	1985
Turning radius	W_1 (mm)	1360	1670
Service weight	kg	108-112	112

Model: **JF7**



- Improved safety: Automatic activation of self adjusting stabilizers when lifting loads higher than 400 mm for maximum stability .
- Great stability: Extra long front legs increase the stability when handling unevenly loaded pallets.
- Quick-lift operation: Quick-lift function doubles the lifting speed when lifting loads less than 250kg.

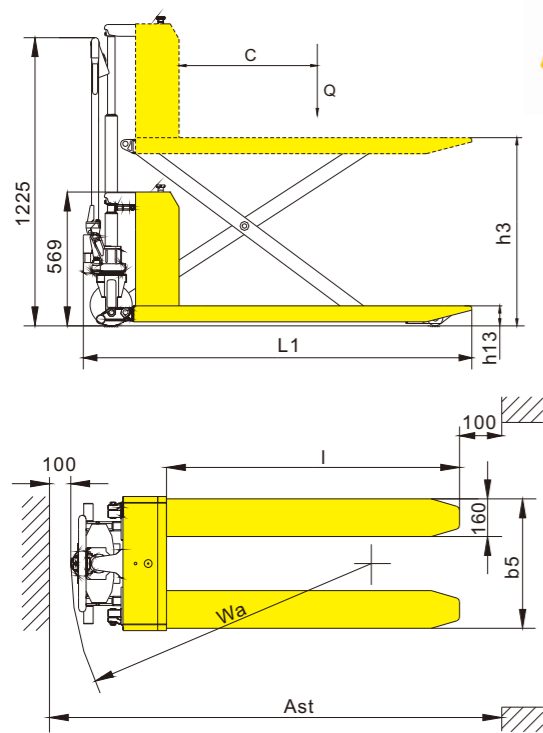


Electric High Lift Truck



Conforms to EN 1757-4:2003
Based on Directive 2006/42/EC

Model: **JFD8**



1KG=2.205LB 1INCH=25.40MM

Model	JFD8	
Capacity	Q(kg)	1000
Lowered fork height	h_{13} (mm)	85
Steering wheel	mm	$\Phi 180 \times 50$
Fork wheel	mm	$\Phi 74 \times 50$
Max. lift height	h_3 (mm)	800
Overall length	L_1 (mm)	1652
Fork length	l (mm)	1245
Width overall forks	b_5 (mm)	550/685
Aisle width for pallets 1000x1200 crossways	A_c (mm)	1852
Aisle width for pallets 800x1200 lengthways	A_l (mm)	1852
Turning radius	W_s (mm)	1480
Lift motor rating at S3 15%	kW	0.7
Battery voltage,nominal capacity K10	V/Ah	12/100
Battery weight	kg	31
Service weight (with battery)	kg	181

Electric Pallet Truck



Semi-electric Pallet Truck



Model: CBD15A/CBD20A



Conforms to EN 1757-2
EN ISO 14121-1
Based on Directive 2006/42/EC



Advantages:

- Permanent magnet brushless motor with high electric efficiency, maintenance free.
- Gradient performance is high.
- With smallest turning radius.
- Full sealed battery free to maintain, big capacity 24v/65AH fit for high intensity use.
- Traction speed is consistency under laden or unladen, improve productive efficiency.
- Horizontal drive wheel provides convenient replacement.
- Stepless speed control.
- Floating balance wheel is automatic adjust height, prevents shaking when unload.
- Built-in charger.

Model: CBD10A-II

Patent product

Advantages:

- Two-speed driving system.
- Emergency brake switch.
- Manual lifting and motor driving.
- DC motor, no carbon brush, maintenance free, low noise.
- Sealed batteries free of maintenance, safe operation and no pollution.
- Built-in charger.

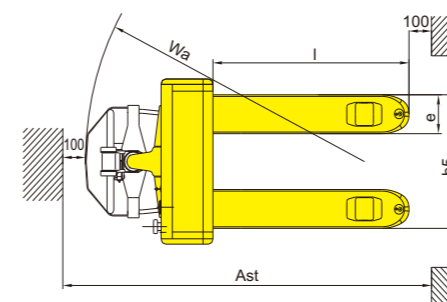
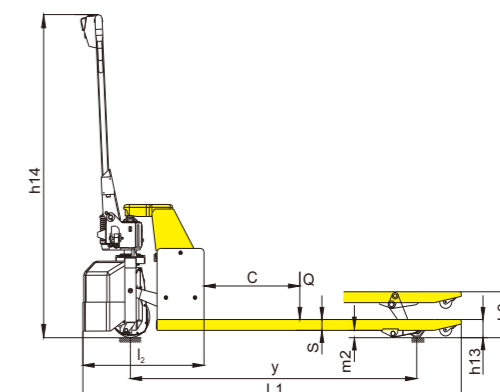
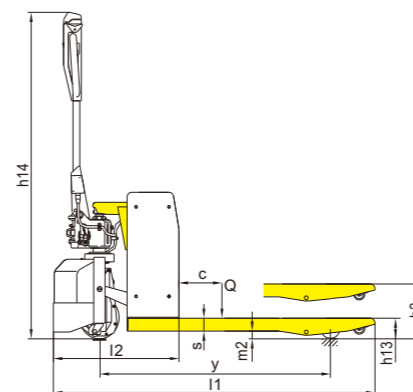


Conforms to EN 1757-2
EN ISO 14121-1
Based on Directive 2006/42/EC

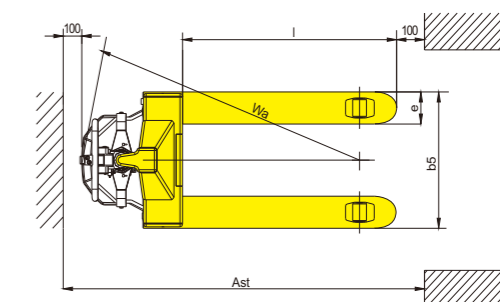


1KG=2.205LB 1INCH=25.40MM

MODEL		CBD10A- II	CBD15A	CBD20A
Load capacity	Q(kg)	1000	1500	2000
Load centre distance	c(mm)	500	600	600
Fork height, lowered	h_{13} (mm)	85/75	85/75	87/77
Wheelbase	y(mm)	1280/1350	1287/1357	1277/1347
Tyre size, front	mm	Φ185	Φ195	Φ195
Tyre size, rear	mm	Φ80/Φ74	Φ80/Φ74	Φ85/Φ75
Max. lift height	h_5 (mm)	200/190	190/180	190/180
Height of tiller in drive position min./max.	h_{14} (mm)	1244	770/1254	770/1254
Overall length	l_1 (mm)	1685/1755	1644/1714	1644/1714
Length to face of forks	l_2 (mm)	535	490	490
Fork dimensions	s/e/l(mm)	45/160/1150(1220)	53/160/1150(1220)	60/160/1150(1220)
Width overall forks	b_5 (mm)	520/550/680	520/550/685	520/550/680
Ground clearance, centre of wheelbase	m_2 (mm)	40/30	32/22	27/17
Aisle width for pallets 1000x1200 crossways	A_{sf} (mm)	1885/1955	1844/1914	1844/1914
Aisle width for pallets 800x1200 lengthways	A_{sl} (mm)	1935/1955	1894/1914	1894/1914
Turning radius	W_s (mm)	1490/1560	1445/1515	1445/1515
Travel speed, laden/unladen	Km/h	2.6/3.8	5.3/5.8	5/5.5
Max. gradeability, laden/unladen	%	5/15	5/15	3/10
Battery voltage, nominal capacity K5	V/Ah	24/38	24/65	24/80
Battery weight	Kg	26	46	51.2
Service weight (with battery)	Kg	150	200	240



CBD15A/20A



CBD10A-II

Electric Pallet Truck



Model: CBD15W



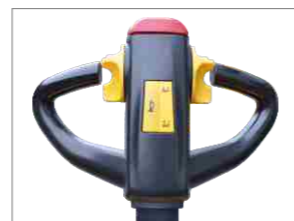



 Conforms to EN 1175-2:1998+A1:2010
 EN ISO3691-1:2012
 Based on Directive 2006/42/EC

The Mini type CBD15W (1500kg) with same size as hand pallet truck widely used in narrow aisle workshop, small super market and cargo containers.

AC

EPS



Standard Handle



Frei tiller head (option)



Multi-direction display

Advantages:

- With smallest turning radius 1320mm-1389mm (width 520/550/685mm)
- Permanent magnet brushless motor with high electric efficiency , maintenance free.
- Full sealed battery free to maintain, big capacity 24v/80AH fit for high intensity use .
- Max speed limit button can release brake when handle under upright position, reduce turning space greatly. (option for frei handle)
- High travel speed is up to 5.3-5.8km/h, improve productive efficiency.
- Floating balance wheel is automatic adjust height, prevents shaking when unload.
- Horizontal drive wheel provides convenient replacement.

Standard Features

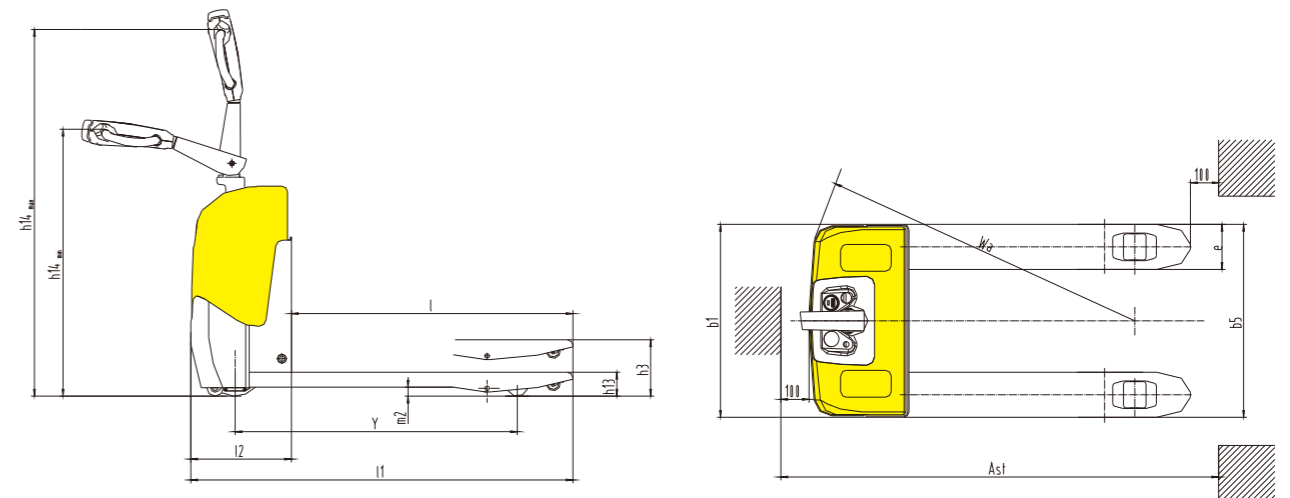
- RUYI new type Tiller Head with Max speed limit button.
- Emergency stop & belly button.
- BDI and hour meter.
- Casters to balance stability.
- Sealed battery.
- Brushless Horizontal motor.
- Built-in Charger.
- Exist roller.

Option

- Germany FREI Tiller Head.
- Out side charger.
- Fork width and length (size).
- Load backrest.

1KG=2.205LB 1INCH=25.40MM

MODEL		CBD15W
Drive type		electric
Operation type		pedestrian
Load capacity	Q(kg)	1500
Fork height,lowered	h_{13} (mm)	85/75
Wheelbase	Y(mm)	1152/1222
Tyre		polyurethane
Tyre size,front	mm	Φ195
Tyre size,rear	mm	Φ80/Φ74
Wheels, number front rear (x = driven wheels)		1X-2/4
Max. lift height	h_2 (mm)	190/180
Height of tiller in drive position min./max	h_{14} (mm)	950/1310
Overall length	l_1 (mm)	1508/1578
Length to face of forks	l_2 (mm)	358
Overall width	b_1 (mm)	685
Fork dimensions	s/e/l(mm)	53/160/1150(1220)
Width overall forks	b_2 (mm)	520/550/685
Ground clearance, center of wheelbase	h_1 (mm)	32/22
Aisle width for pallets 1000x1200(1200crossways)	A_c (mm)	1708/1778
Aisle width for pallets 800x1200(1200lengthways)	A_s (mm)	1758/1778
Turning radius	Wa(mm)	1320/1389
Travel speed,laden/unladen	Km/h	5.3/5.8
Lift speed,laden/unladen	mm/s	35/45
Lowering speed,laden/unladen	mm/s	80/37
Max.gradeability,laden/unladen	%	5/15
Battery voltage/nominal capacity	V/Ah	24/80
Battery dimensions l/w/h	mm	260/169/215
Battery weight	Kg	49
Service weight	Kg	230
Service brake		electric
Sound level at the drive's ear acc.to DIN12053	dB(A)	70



Electric Pallet Truck



Conforms to EN 1175-1:1998
EN ISO3691-1:2008
Based on Directive 2006/42/EC

Model: CBD14



Smart Mover

Advantages:

SAFETY AND PRODUCTIVITY:

- SepEx control system provides smooth acceleration and energy saving braking.
- Emergency reversing device.
- Multi-function display: battery status, hour meter, fault indicator etc.
- Built-in pressure relief valve protects the trucks from overloads.
- Braking applies with handle upright and horizontal position.
- Emergency power disconnect.
- Low speed switch in the handle.
- Stepless speed control.

STRUCTURAL:

- Parallel motor mounting on vertical drive wheel ensures convenience for inspection and maintenance while also ensuring a small turning radius.
- The structure of motor is water-proof and dust-proof, which makes the braking and motor more durable and reliable.
- Built-in charger for easy charging.
- Spring-loaded castors improve lateral stability on uneven floors and enhance truck performance and service life.
- One-piece heavy gauge steel is formed for maximum strength forks.
- Compact and smart structure, with particular small radius, which is a good choice for narrow aisle operation.

SERVICEABILITY:

- Low battery protection setting prolongs the battery use time.
- Combined balance wheels, driving system is steady, preventing the truck being rocked from side to side.
- CANbus technology reduces wiring complexity and increases reliability.
- Hall-effect throttle control eliminates wear components and requires no mechanical adjustment.
- All pivot points have grease fitting and serviceable bushing, reducing component wear and extending component life.
- The back cover is easy to open, convenient to repair and maintain.

1KG=2.205LB 1INCH=25.40MM

MODEL	CBD14	
Drive type	electric	
Operation type	pedestrian	
Load capacity	Q(kg)	1400
Load centre distance	c(mm)	600
Load distance, centre of drive axle to fork	x(mm)	845/895/965
Fork height, lowered	h_{12} (mm)	77/83
Wheelbase	y(mm)	1112/1162/1232
Axle loading, laden front/rear	kg	575/1085
Axle loading, unladen front/rear	kg	220/40
Tyres	polyurethane	
Tyre size, front	mm	φ 250x60
Tyre size, rear	mm	φ 82(75)x96 / φ 82(75)x62
Additional wheels(dimensions)	mm	φ 100x40
Wheels, number front rear(x=driven wheels)	1X+2/2 or 4	
Tread, front	b_{10} (mm)	490
Tread, rear	b_{11} (mm)	370/400/500
Max. lift height	h_3 (mm)	197/203
Height of tiller in drive position min./max.	h_{14} (mm)	850/1240
Overall length	l_1 (mm)	1540/1590/1647
Length to face of forks	l_2 (mm)	442
Overall width	b_1 (mm)	735
Fork dimensions	s/e/l(mm)	53x150x1100(1150/1207)
Width overall forks	b_3 (mm)	520/550/650
Ground clearance, centre of wheelbase	m_2 (mm)	25
Aisle width for pallets 1000x1200 crossways	A_{s1} (mm)	1831/1881/1951
Aisle width for pallets 800x1200 lengthways	A_{s2} (mm)	1930/1932/1951
Turning radius	W_1 (mm)	1377/1427/1497
Travel speed, laden/unladen	Km/h	4.5/5
Lift speed, laden/unladen	m/s	0.024/0.03
Lowering speed, laden/unladen	m/s	0.04/0.035
Max.gradeability, laden/unladen	%	5/10
Service brake	Electromagnetic	
Battery voltage, nominal capacity K_0	V/Ah	24/80
Battery weight	Kg	54
Battery dimensions l/w/h	mm	260x168x210
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70
Service weight (with battery)	kg	260



MOSFET Control System



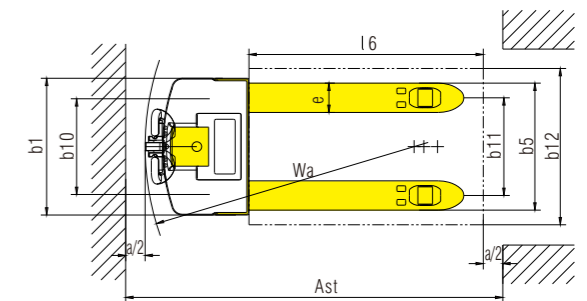
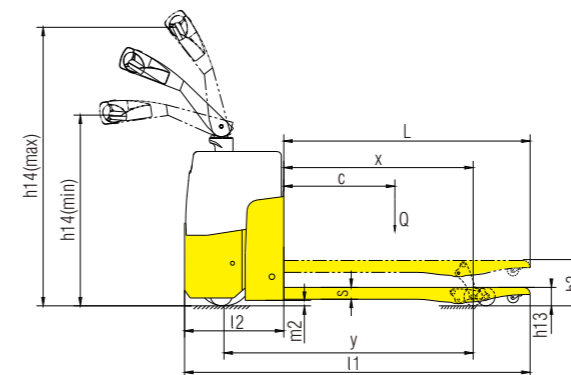
Multi-function Display, Built-in Charger



Entry Rollers



Free handle (option)





Hot Sale

Model: CBD20K(D)

The super light Walkie type CBD20K(D) (2000kg/4400lbs) with small turning radius and low profile chassis, widely used in **Narrow Space** like small super market and workshop.

Advantages:

SAFETY AND PRODUCTIVITY:

- Advanced AC control system eliminating the motor brushes and directional contactors, which makes the minimal maintenance requirements. Intelligent regenerative brake system: increase overall truck performance by decreasing battery charge intervals.
- Side-way battery with roll-out system is very convenient to replace batteries.
- Emergency reversing device.

One set side way battery

AC



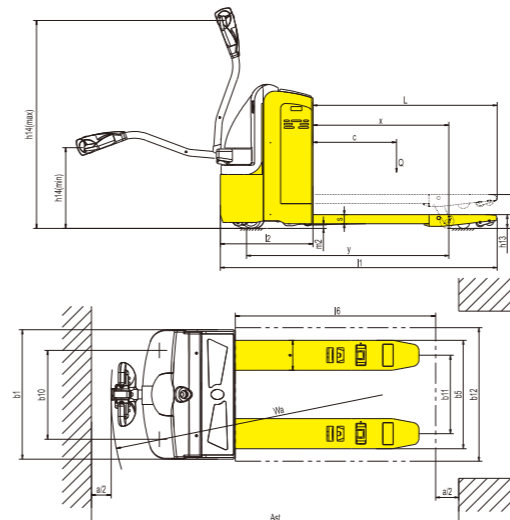
Conforms to EN 1175-1:1998
EN ISO3691-1:2008
Based on Directive 2006/42/EC

- Built-in pressure relief valve protects the trucks from overloads.
 - Long handle tube gives flexible and laborsaving operation.
 - Emergency power disconnect.
 - Low speed switch in the handle.
 - Stepless speed control.
- STRUCTURAL:**
- Vertical driving wheel offers small turning radius. The structure is water-proof and dust-proof.
 - The riser axle located at the highest point of forks, which protect riser axles from constant contact from uneven floors. Pull rod design protect the rod from bending.
 - Spring-loaded castors improve lateral stability on uneven floors and enhance truck performance and service life.
 - One-piece heavy gauge steel is formed for maximum strength forks.
- SERVICEABILITY:**
- Low battery protection setting prolongs the battery use time.
 - CANbus technology reduces wiring complexity and increases reliability.
 - All pivot points have grease fitting and serviceable bushing, reducing component wear and extending component life.

Swing-out battery

1KG=2.205LB 1INCH=25.40MM

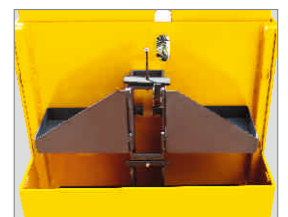
MODEL		CBD20K(D)-I	CBD20K(D)-II
battery type		1 set side way battery	swing-out battery
Drive		electric	electric
Operate type		walkie	walkie
Load capacity/rated load	Q(kg/lbs)	2000/4400	2000/4400
Load centre distance	c(mm/inch)	600/23.6	600/23.6
Load distance,centre of drive axle to fork	x(mm/inch)	815/865/935(32/34/36.8)	935/36.8
Fork Height, lowered	h_{13} (mm/inch)	82/3.2	82/3.2
Wheelbase	y(mm/inch)	1211/1261/1331(47.7/49.6/52.4)	1361/53.6
Axle loading,laden front/rear	kg/lbs	1170/1450(2580/3198)	1170/1450(2580/3198)
Axle loading,unladen front/rear	kg/lbs	470/150(1036/330)	470/150(1036/330)
Tyres		polyurethane	polyurethane
Tyre size,front	mm/inch	φ 250x70/ φ 10x2.8	φ 250x70/ φ 10x2.8
Tyre size rear	mm/inch	φ 82x126/ φ 3.2x5	φ 82x98/ φ 3.2x3.9
Additional wheels(dimensions)	mm/inch	φ 127x57/ φ 5x2.2	φ 127x57/ φ 5x2.2
Wheels,number front rear(x=driven wheels)		1X+2/2(4)	1X+2/2(4)
Tread,front	b_{10} (mm/inch)	510/20	510/20
Tread,rear	b_{11} (mm/inch)	340/370/470/505(13.4/14.6/18.5/19.9)	470/505(18.5/19.9)
Max. lift height	h_2 (mm/inch)	202/8	202/8
Height of tiller in drive position min./max.	h_{12} (mm/inch)	780/1230(30.7/48.4)	780/1230(30.7/48.4)
Overall length	l_1 (mm/inch)	1655/1705/1775(65.2/67.1/69.1)	1805/71
Length to face of forks	l_2 (mm/inch)	555/21.9	555/21.9
Overall width	b_1 (mm/inch)	775/30.5	775/30.5
Fork dimensions	s/e/l(mm/inch)	54x180x1100/1150/1220(2.1x7x43/45/48)	54x180x1220/2.1x7x48)
Width overall forks	b_2 (mm/inch)	520/550/650/685(20.5/22/26/27)	550/685(22/27)
Ground clearance,centre of wheelbase	m_2 (mm/inch)	28/1.1	28/1.1
Aisle width for pallets 1000x1200 crossways	A_{11} (mm/inch)	2015/2065/2135(79/81/84)	2165/85
Aisle width for pallets 800x1200 lengthways	A_{12} (mm/inch)	2115/2115/2135(83/83/84)	2165/85
Turning radius	W_2 (mm/inch)	1400/1450/1520(55/57/60)	1550/61
Travel speed,laden/unladen	Km/h	5.5/5.6	5.5/5.6
Lift speed,laden/unladen	m/s	0.039/0.056	0.039/0.056
Lowering speed,laden/unladen	m/s	0.064/0.050	0.064/0.050
Gradeability,laden/unladen	%	6/12	6/12
Max.gradeability,laden/unladen	%	8/20	8/20
Service brake		Electro magnetic	Electro magnetic
Battery voltage,nominal capacity K5	V/Ah	24/210	24/210
Battery weight	Kg/lbs	170/375	170/375
Battery box dimensions	mm/inch	750x170x534(30x6.7x21)	~
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70	70
Service weight (with battery)	kg/lbs	620/1367	620/1367



Drive System



Multi function indicator and hour meter



Option: swing-out battery tray

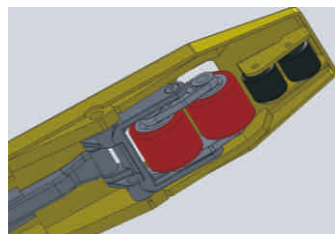


Model: CBD20H

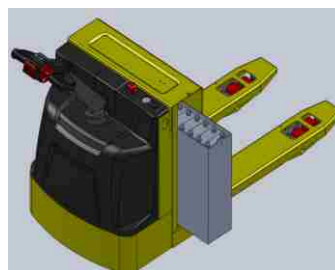
AC Function

Advantages:

- Load capacity is 2000kg.
- DC **Brushless motor** drive, which is convenient to control.
- Mechanical steering.
- Service brake is combined regenerative and electro-magnetic system, which allows safe and reliable brake and prolongs the use time.
- Side-way battery with roll out system is very convenient to replace batteries.
- The guide wheel on fork head allows convenient pallet work.
- High efficiency motor keeps long time continuous work and is energy saving and environmental.
- Travel speed under laden arrives at 5KM/H, the maximum gradeability can achieve 6%.
- With nice looking ,not exposed balanced wheel is more safe.
- Vulnerable parts like fork wheel, bearing and cylinder is in common use with CBD20H, which is easy for maintainance.



Steel guide wheels are mounted on fork head, which allows convenient pallet work.

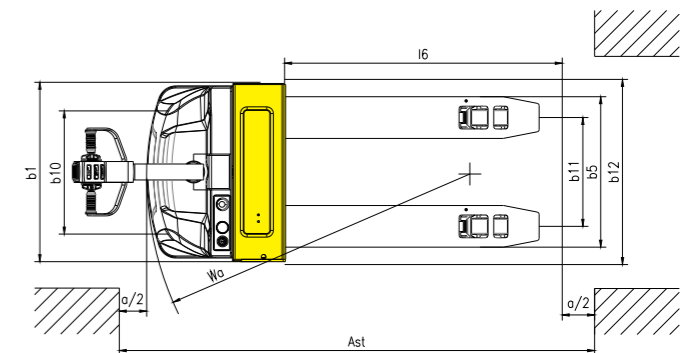
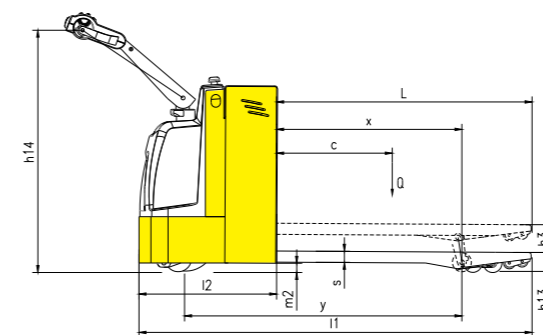


1. Side-way battery with roll-out system is convenient to replace and suitable for 2 shifts or more shifts working.
2. New design of overall cover with good looking, and new design of balanced wheel makes it unexposed.



1KG=2.205LB 1INCH=25.40MM

MODEL	CBD20H	
Drive type	Electric	
Operation type	Standing	
Load capacity	Q(kg)	2000
Load center	c(mm)	600
Load distance	x(mm)	800/850/920
Wheelbase	Y(mm)	1200/1250/1320
Service weight (with battery)	kg	500
Axle loading, laden front/rear	kg	782/1718
Axle loading, unladen front/rear	kg	382/118
Tyres	Polyurethane	
Tyre size, front	Φ250×80	
Tyre size, rear	Φ80×70	
Additional wheels (dimensions)	Φ114×60	
Wheels, number front rear(x=driven wheels)	1X+2/4	
Tread, front	b10(mm)	540
Tread, rear	b11(mm)	340/370/470/505
Max. Lift height	h3(mm)	120
Initial lift	h14(mm)	850/1200
Fork height, lowered	h13(mm)	85
Overall length	l1(mm)	1695/1745/1815
Length to face of forks	l2(mm)	595
Overall width	b1(mm)	765
Fork dimensions	S/e/l(mm)	53×180×1100(1150/1220)
Width overall forks	b5(mm)	520/550/650/685
Ground clearance, centre of wheelbase	m2(mm)	28
Aisle width for pallets 1000x1200 crossways	Ast(mm)	1895/1945/2015
Aisle width for pallets 800x1200 lengthways	Ast(mm)	1995/1995/2015
Turning radius	Wa(mm)	1400/1450/1520
Travel speed, laden/unladen	Km/h	5/5.1
Lift speed, laden/unladen	m/s	0.030/0.040
Lowering speed, laden/unladen	m/s	0.050/0.045
Gradeability, laden/unladen	%	5/10
Max gradeability, laden/unladen	%	6/12
Service brake	Regenerative + Electromagnetic	
Drive motor capacity	kW	0.8
Lift motor capacity	kW	0.8
Battery voltage, nominal capacity K5	V/Ah	24/165 (210)
Battery weight	Kg	170 (196)
Battery dimensions l/w/h	mm	750×170×474 (534)
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70





Conforms to EN 1175-1:1998
EN ISO3691-1:2008
Based on Directive 2006/42/EC

Model: CBD20R-I CBD20R-II CBD25R-I



AC
EPS

Standard features

- Germany FREI Tiller Head
- Emergency stop & belly button
- BDI and hour meter
- Casters to balance stability
- Industrial battery
- Brushless AC motor
- Vertical driving wheel
- Sideway battery change
- Built-in Charger (option)
- Platform with speed sensor

Option

- Fork width and length (size)
- Load backrest
- Out side charger
- Customized battery compartment
- Entry & exist roller for empty pallets
- EPS (for CBD20R-I, CBD25R-I)

The Rider type CBD-R (2000/2500kg) with small turning radius and super light steering system. widely used in **Narrow Space** like small super market and narrow workshop.



MOSFET control system (CBD20R-I)



Foldable platform with speed sensor



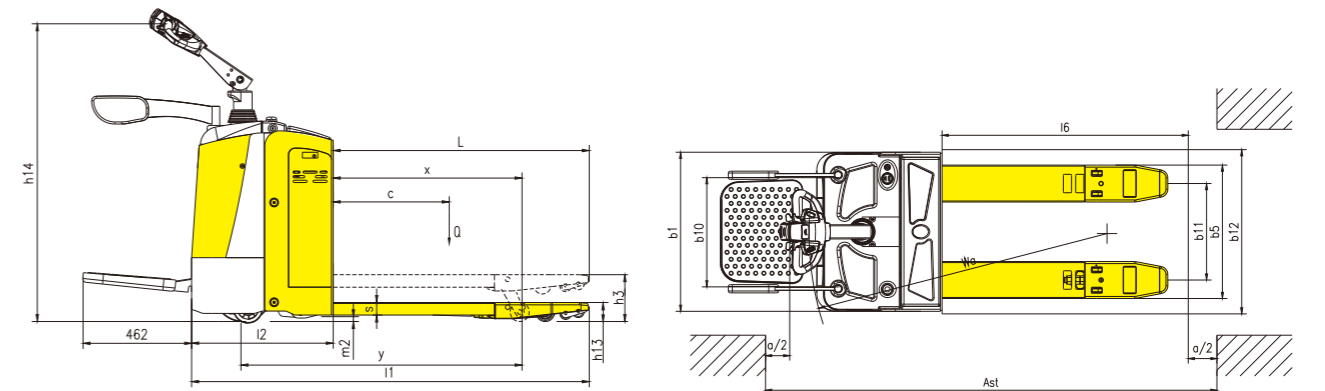
Industry battery & locker



Germany Frei tiller head

1KG=2.205LB 1INCH=25.40MM

MODEL		CBD20R-I	CBD25R-I	CBD20R-II
Drive type		electric	electric	electric
Operation type		standing	standing	standing
Load capacity	Q(kg)	2000	2500	2000
Load centre distance	c(mm)	600	600	600
Load distance, centre of drive axle to fork	x(mm)	818/868/938	818/868/938	815/865/935
Fork height, lowered	h_{13} (mm)	85/80	85/80	82
Wheelbase	y(mm)	1302/1352/1422	1302/1352/1422	1211/1261/1331
Axle loading, laden front/rear	kg	1640/1080	2040/1180	1300/1410
Axle loading, unladen front/rear	kg	160/560	160/560	110/600
Tyres		polyurethane	polyurethane	polyurethane
Tyre size, front	mm	φ 250x70	φ 250x70	φ 250×70
Tyre size, rear	mm	φ 82x90/ φ 78x90	φ 82x90/ φ 78x90	φ 82×98
Additional wheels(dimensions)	mm	φ 127x57	φ 127x57	φ 127×57
Wheels, number front rear(x=driven wheels)		1X+2/4	1X+2/4	1X+2/2(4)
Tread, front	b_{10} (mm)	490	490	490
Tread, rear	b_{11} (mm)	340/370/470/505	340/370/470/505	340/370/470/505
Max. lift height	h_3 (mm)	195/205	195/205	202
Height of tiller in drive position min./max.	h_{14} (mm)	1150/1450	1150/1450	1150/1430
Overall length	l_1 (mm)	1823/1873/1943	1823/1873/1943	1710/1760/1830
Length to face of forks	l_2 (mm)	723	723	610
Overall width	b_1 (mm)	733	733	775
Fork dimensions	s/e/l(mm)	53x180x1100(1150/1220)	53x180x1100(1150/1220)	53×180×1100 (1150/1220)
Width overall forks	b_3 (mm)	520/550/650/685	520/550/650/685	520/550/650/685
Ground clearance, centre of wheelbase	m_2 (mm)	30	30	28
Aisle width for pallets 1000x1200 crossways	A_{s1} (mm)	2135/2185/2255	2135/2185/2255	1910/1960/2030
Aisle width for pallets 800x1200 lengthways	A_{s2} (mm)	2235/2235/2255	2235/2235/2255	2010/2010/2030
Turning radius	W_1 (mm)	1700/1750/1820	1700/1750/1820	1550/1600/1670
Travel speed, laden/unladen	Km/h	7.9/8	6.7/6.8	7/7.1
Lift speed, laden/unladen	m/s	0.03/0.032	0.03/0.032	0.039/0.056
Lowering speed, laden/unladen	m/s	0.032/0.03	0.032/0.03	0.064/0.050
Max. gradeability, laden/unladen	%	10/20	8/20	8/20
Service brake		regenerative	regenerative	Electromagnetic brake
Battery voltage, nominal capacity K_5	V/Ah	24/240	24/240	24/210
Battery weight	Kg	240	240	170
Battery dimensions l/w/h	mm	650x250x505	650x250x505	750×170×534
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70	70	70
Service weight (with battery)	kg	720	720	710



Central Ride Pallet Truck



Model: CBD30Q

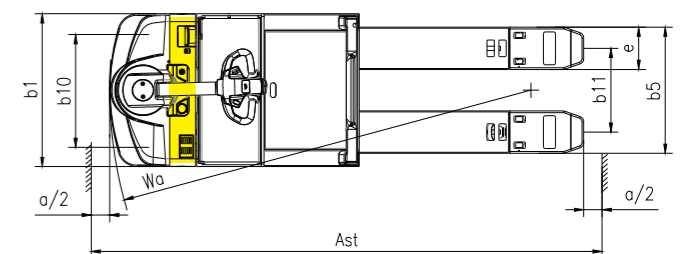
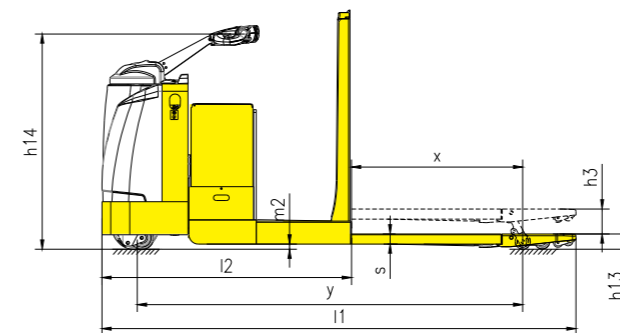
Advantages:

- Advanced electric power steering technology (EPS), can be flexible and comfortable steering, with automatic speed reduction function when turning, and in good feeling for driving and controlling.
- Stand on the platform with good cushioning, in line with ergonomic backrest design, making the worker more comfortable.
- Option for Warning lights, on and off can be controlled, to be more secure.
- Easy & simple to operate, making handling operations more easier and efficient.
- With large capacity battery, and the battery can be quickly took out/replaced from the side way, to meet the high intensity of the handling operations
- Powerful drive motor and control system, making the truck with strong momentum. Fully laden with 9Km/h maximum speed, fully laden with 10% climbing ability.
- German Frei handle and accelerator is with electronic steering function, and the handle has automatic function back to the positive direction.
- Professional appearance design, is not only beautiful and melliflucence, but also ergonomic, for comfortable driving, wide vision. Platform with automatic power off when operator is leaving, make it more security and reliability.
- The straight tappet will not bend due to overloading, vibration shock occurs, the straight tappet length can be precise adjustment.
- Fork head fitted with double steel entry rollers, for smoothly moving into US pallets.
- Lifting height up to 135mm/5.3inch, the truck has better ability of pass through.



1KG=2.205LB 1INCH=25.40MM

MODEL	CBD30Q	
Drive type	Electric	
Operation type	Standing	
Load capacity	Q(kg/lbs)	3000/6600
Load center	c(mm/inch)	600/23.6
Load distance, centre of drive axle to fork	x(mm/inch)	933/36.7
Wheelbase	Y(mm/inch)	2115/83
Service weight (with battery)	kg/lbs	900/1984
Axle loading, laden front/rear	kg/lbs	1190/2710(2624/5976)
Axle loading, unladen front/rear	kg/lbs	660/240(1455/530)
Tyres	Polyurethane	
Tyre size, front	mm/inch	φ 250x80/10x3.1
Tyre size, rear	mm/inch	φ 82x173/3.2x6.8
Additional wheels (dimensions)	mm/inch	φ 127x57/5x2.2
Wheels, number front rear(x=driven wheels)	1X+2/2	
Tread, front	b10(mm/inch)	620/24.4
Tread, rear	b11(mm/inch)	455/17.9
Max. Lift height	h3(mm/inch)	135/5.3
Height of tiller in drive position min./max.	h14(mm/inch)	1070/1370(42/54)
Fork height, lowered	h13(mm/inch)	82/3.2
Overall length	l1(mm/inch)	2570/101
Length to face of forks	l2(mm/inch)	1350/53
Overall width	b1(mm/inch)	823/32.4
Fork dimensions	S/e/l(mm/inch)	55x230x1220/2.2x9.1x48
Width overall forks	b5(mm/inch)	685/27
Ground clearance, centre of wheelbase	m2(mm/inch)	27/1.1
Aisle width for pallets 1000x1200 crossways	Ast(mm/inch)	2790/110
Aisle width for pallets 800x1200 lengthways	Ast(mm/inch)	2790/110
Turning radius	Wa(mm/inch)	2290/90
Travel speed, laden/unladen	Km/h	8/8.5
Lift speed, laden/unladen	m/s	0.025/0.035
Lowering speed, laden/unladen	m/s	0.03/0.03
Gradeability, laden/unladen	%	6/8
Max. gradeability, laden/unladen	%	8/20
Service brake	Electro magnetic	
Drive motor capacity	kW	2.2
Lift motor capacity	kW	1.5
Battery voltage, nominal capacity K5	V/Ah	24/560
Battery weight	Kg/lbs	559/1232
Battery dimensions l/w/h	mm/inch	780X335X625/30.7x13.2x24.6
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70



Electric Pallet Truck



Model: **CBD20Z**
CBD25Z

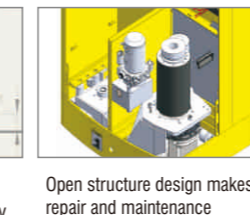
AC
EPS



Advantages:

SAFETY AND PRODUCTIVITY:

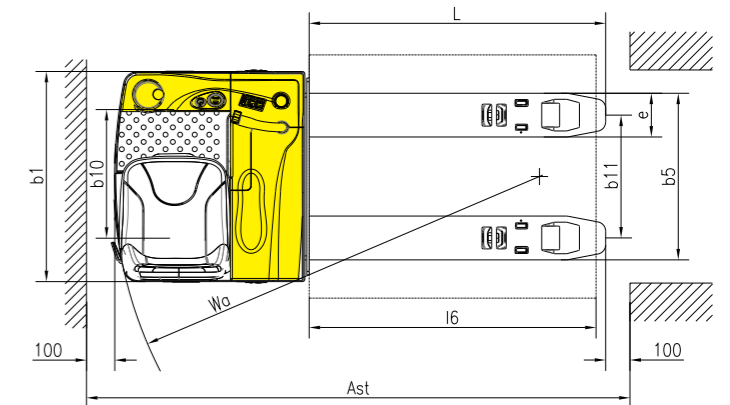
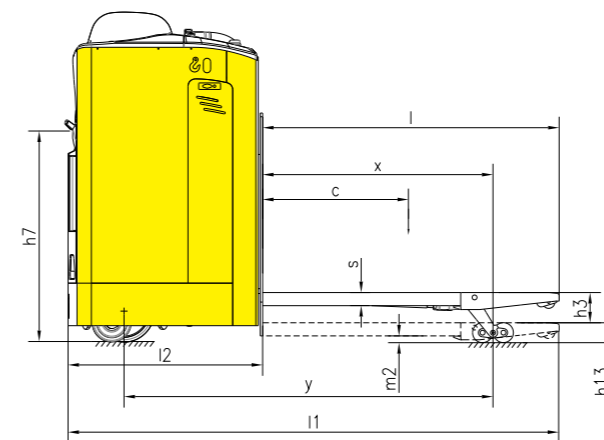
- Load capacity is 2000/2500kgs.
- Advanced AC control with reliable performance is easy to maintain. Speed frequency control makes good control performance.
- Power steering system(EPS) ensures effortless and highly efficiently maneuver ability
- Intelligentized regenerative brake system combined with electromagnetic system allows safe and reliable brake and prolongs its use time.
- Side battery with roll out system is very convenient to replace batteries.
- Connecting rod will not bend and deform at working, and the length can be adjust accurately and conveniently.
- The guide wheel on fork head makes convenient pallet work.
- With high level configuration of motor power and battery capacity, waking motor is 1.5KW, capacity of battery is 300AH, electronic controlled by CURTIS 1232 model, travel speed under laden arrives 7.5-7.8KM/H, max. gradeability achieves 10%. Work efficiency and reliability is greatly improved.
- With good looking and small turning radius.
- The key components is set compact and reasonable, which is convenient to maintenance.



1. With strong power and good throughput capacity, gradeability under unladen can reach 25% and arrive 10% under laden situation.
2. Lift height of 135mm is better for pallets applicability.

1KG=2.205LB 1INCH=25.40MM

MODEL		CBD20Z	CBD25Z
Drive type		electric	electric
Operation type		seated	seated
Load capacity	Q(kg)	2000	2500
Load centre distance	c(mm)	600	600
Load distance, centre of drive axle to fork	x(mm)	864	825/875/945
Fork height, lowered	h_{13} (mm)	85	82
Wheelbase	y(mm)	1442	1395/1445/1515
Axle loading, laden front/rear	kg	960/2020	1240/2160
Axle loading, unladen front/rear	kg	700/240	670/230
Tyres		polyurethane	Polyurethane
Tyre size, front	mm	ϕ 250x80	Φ 250×80
Tyre size, rear	mm	ϕ 82x90	Φ 82×98
Additional wheels(dimensions)	mm	ϕ 160x55	Φ 160×55
Wheels, number front rear(x=driven wheels)		1+1x/4	1X+1/4
Tread, front	b_{10} (mm)	490	530
Tread, rear	b_{11} (mm)	350/380/480/515	340/370/470/505
Max. lift height	h_3 (mm)	210	135
Seat height/stand height	h_7 (mm)	910	900
Overall length	l_1 (mm)	2010	1900/1950/2020
Length to face of forks	l_2 (mm)	858	800
Overall width	b_1 (mm)	864	864
Fork dimensions	s/e/l(mm)	55x170x1150(1100/1220)	54×180×1100(1150/1220)
Width overall forks	b_3 (mm)	520/550/650/685	520/550/650/685
Ground clearance, centre of wheelbase	m_2 (mm)	30	28
Aisle width for pallets 1000x1200 crossways	A_{st} (mm)	2165	2115/2165/2235
Aisle width for pallets 800x1200 lengthways	A_{st} (mm)	2265	2215/2215/2235
Turning radius	W_s (mm)	1725	1630/1680/1750
Travel speed, laden/unladen	Km/h	6.5/7	7.5/8
Lift speed, laden/unladen	m/s	0.03/0.04	0.039/0.056
Lowering speed, laden/unladen	m/s	0.05/0.045	0.050/0.040
Max. gradeability, laden/unladen	%	10/20	10/16
Service brake		Electromagnetic	Electromagnetic
Battery voltage,nominal capacity K_s	V/Ah	24/320	24/300
Battery weight	Kg	321	264
Type of drive control		Mosfet	Mosfet
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70	70
Service weight (with battery)	kg	940	900



Conforms to EN 1175-1:1998
EN ISO3691-1:2008
Based on Directive 2006/42/EC

Model: CBD20S

The CBD20S are with **small turning radius** and **lowest height (1.08~1.38m)**, offers **Double pallet Initial lifting**, with Initial lift have 120mm lift to easily negotiate over ramps and bridging plates as well as the ability to transport a 2000kg load, widely used in low shelves warehouse and small super market etc.

Advantages:

SAFETY AND EFFICIENCY

- Carry two pallets at one single time; the working performance is two times higher than normal trucks.
- The tiller head is equipped with an emergency reverse direction switch, which provides safer operation.
- Built-in pressure relief valve protects the truck from overload, and increases the truck's safety.
- With stepless speed control and turtle low speed switch.

STRUCTURAL

- Vertical driving wheel offers small turning radius.
- The mast and the frame are dividable and exchangeable.
- Adjustable floating balance wheel is resistant to wear and stable.
- Sliding rail connects the moving part of the front and rear, makes lifting and lowering stably.

EASY MAINTENANCE

- CANbus technology reduces wiring complexity, and increases the truck's reliability.
- Hall-effect throttle control eliminates wear components and prolongs its use time.
- The balance wheel is detachable, convenient to maintain.
- Integral and modularized electrical system makes the maintenance of the electrical parts convenient.

Standard mast types

One-stage mast			
h1	h2	h3	h4
1472	1000	1000	1490
Three-stage mast			
h1	h2	h3	h4
1082	~	1600	2118
1212	~	2000	2508
1382	~	2500	3018



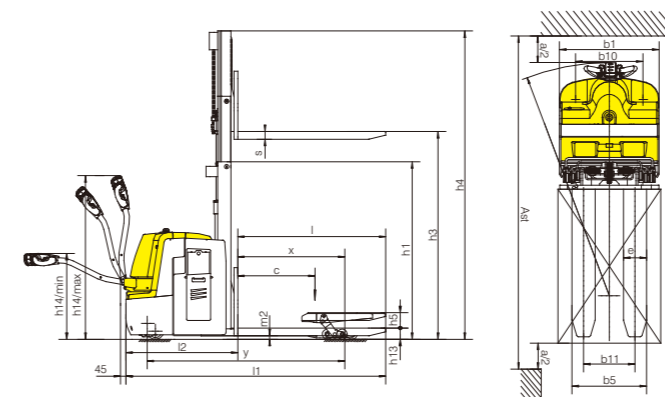
Side-way Battery



Vertical System

MODEL	CBD20S	
Drive type	electric	
Operation type	pedestrian	
Load capacity/rated load	Q(kg)	2000
Load capacity/rated load with mast lift	Q(kg)	1000
Load capacity/rated load with wheel arm lift	Q(kg)	2000
Load center distance	c (mm)	600
Load distance, center of drive axle to fork	x (mm)	831
Fork height, lowered	h ₁₂ (mm)	90
Wheelbase	y (mm)	1535
Axle loading, laden front/rear	kg	1180/1770
Axle loading, unladen front/rear	kg	650/300
Tyres	polyurethane	
Tyre size, front	mm	φ 250x70
Tyre size, rear	mm	φ 80x70
Additional wheels(dimensions)	mm	φ 127x57
Wheels, number front rear(x=driven wheels)	1X+2/4	
Tread, front	b ₁₀ (mm)	524
Tread, rear	b ₁₁ (mm)	400/470
Height, mast lowered	h ₁ (mm)	1382
Max. lift height	h₃ (mm)	1600/2000/2500
Initial lift	h ₅ (mm)	120
Height of tiller in drive position min./max.	h ₁₄ (mm)	780/1230
Overall length	l ₁ (mm)	1962
Length to face of forks	l ₂ (mm)	862
Overall width	b ₁ (mm)	775
Fork dimensions	s/e/l (mm)	60/180/1100
Width overall forks	b ₃ (mm)	580/650
Ground clearance, centre of wheelbase	m ₂ (mm)	20
Aisle width for pallets 1000x1200 crossways	A ₂ (mm)	2238
Aisle width for pallets 800x1200 lengthways	A ₃ (mm)	2288
Turning radius	W ₁ (mm)	1705
Travel speed, laden/unladen	Km/h	4.5/5.2
Lift speed, laden/unladen	m/s	0.03/0.04
Lowering speed, laden/unladen	m/s	0.05/0.045
Max. gradeability, laden/unladen	%	6/12
Service brake	Electromagnetic	
Battery voltage, nominal capacity K _s	V/Ah	24/210
Battery weight	Kg	196
Battery dimensions l/w/h	mm	750x170x580
Sound level at the driver's ear acc.to DIN 12053	dB(A)	65
Service weight	kg	950

1KG=2.205LB 1INCH=25.40MM



AC



Model: QDD45H

Characteristics :

- Easy operation and flexible steering, which is very safe and reliable.
- With powerful traction, when the traction weight reaches 2000kg/4400lbs, can climb 8% slope maximum.
- Operation type: standing, the pedal with non-slip and shockproof function, Hip part with reversible cushions which can reduce fatigue. Cushion height can be adjusted according to the driver's height.
- The automatic power-off function works when the driver leaves the truck.
- Speed mode: manual, stepless speed.
- Equipped with warning lights.
- Side-out battery is fast for replacement.
- Built-in charger is optional.

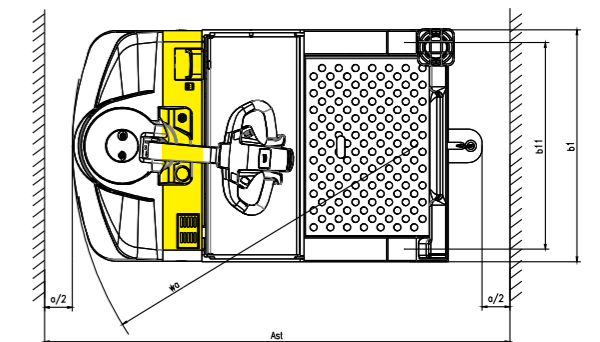
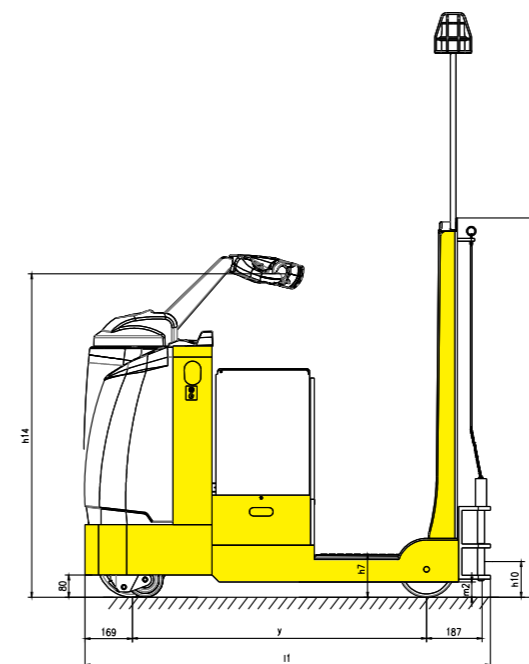
AC

EPS



1KG=2.205LB 1INCH=25.40MM

MODEL	QDD45H	
Drive type	electric	
Operation type	standing	
Load capacity	Q(kg/lbs)	4500/9900
Rated traction weight(60 minutes rated)	(kg/lbs)	110/242
Drawbar center height	H10(mm/inch)	128/5
Max.drawbar pull	(kg/lbs)	300/660
Wheelbase	Y(mm/inch)	1054/41.5
Service weight (with battery)	kg/lbs	1000/2200
Axle loading, laden front/rear	kg/lbs	580/1280
Axle loading, unladen front/rear	kg/lbs	420/926
Tyres	Polyurethane(Front), Rubber(Rear)	
Tyre size, front	mm/inch	φ 250x80/10x3.1
Tyre size, rear	mm/inch	φ 200x50/8x2
Additional wheels (dimensions)	mm/inch	φ 127x57/5x2.2
Wheels, number front rear(x=driven wheels)	1X+2/2	
Tread, rear	b11(mm/inch)	740/29.1
Initial lift	h14(mm/inch)	1070/1370(42/54)
Overall length	l1(mm/inch)	1450/57
Overall width	b1(mm/inch)	830/32.7
Ground clearance, centre of wheelbase	m2(mm/inch)	55/2
Aisle width	Ast(mm/inch)	1670/66
Turning radius	Wa(mm/inch)	1235/49
Travel speed, laden/unladen	Km/h	9/14
Gradeability, laden/unladen	%	4/20
Service brake	Regenerative	
Drive motor capacity	kW	4
Battery voltage, nominal capacity K5	V/Ah	24/560
Battery weight	Kg/lbs	559/1232
Batteries dimentions(LxWxH)	mm/inch	780x335x625/30.7x13.2x24.6
Sound level at the driver's ear acc. To DIN12053	dB(A)	70



Electric Platform Tractor

Electric Platform Tractor



Model: BD20/25/30



Model: BD10S/15S

Remark: Special size can be made according to customer's requirement.



1KG=2.205LB 1INCH=25.40MM

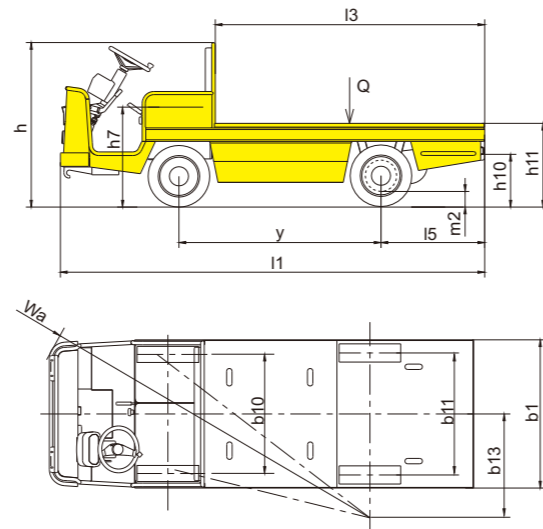
MODEL		BD10S	BD15S
Drive type		electric	electric
Operation type		seated	seated
Load capacity	Q(kg)	1000	1500
Wheelbase	z(mm)	1600	1600
Tyre size, front		15x4 1/2-8	15x4 1/2-8
Tyre size rear		15x4 1/2-8	4.00-8
Length of loading surface	L1(mm)	1220	1220
Width of loading surface	W(mm)	1000	1000
Loading height, unladen	H2(mm)	460	480
towing height	H3(mm)	260	280
Seat height/stand height	H4(mm)	835	835
Overall length	L(mm)	2485	2485
Overall width	B(mm)	1000	1000
height (standard)	H(mm)	1800	1810
height (with cabin)	H1(mm)	1240	1250
Ground clearance, centre of wheelbase	m2(mm)	100	110
Turning radius	Wa(mm)	1998	1998
Travel speed, laden/unladen	Km/h	12/13	10/13
Max. gradeability, laden/unladen	%	10/15	10/15
Service brake		hydraulic	hydraulic
Battery voltage, nominal capacity K5	V/Ah	48/240	48/270
Battery weight	kg	350	400
Service weight (with battery)	kg	980	1080

1KG=2.205LB 1INCH=25.40MM

MODEL		BD20	BD25	BD30
Drive type		electric	electric	electric
Operation type		seated	seated	seated
Load capacity	Q(kg)	2000	2500	3000
Wheelbase	y(mm)	1600	1500	1850
Axle loading, laden front/rear	kg	1104/2346	975/2825	1660/3090
Axle loading, unladen front/rear	kg	676/774	590/710	865/885
Tyres		pneumatic	solid	pneumatic
Tyre size, front		6.00-9-10pr	16x5x10 1/2	6.00-9-10pr
Tyre size, rear		6.50-10-10pr	18x5x12 1/2	6.50-10-10pr
Wheels, number front rear(x=driven wheels)		2/2x	2/2x	2/2x
Tread, front	b ₁₀ (mm)	1080	920	1080
Tread, rear	b ₁₁ (mm)	1070	925	1230
Seat height/stand height	h ₇ (mm)	800	770	800
Coupling height	h ₁₀ (mm)	500	400	550
Loading height, unladen	h ₁₁ (mm)	750	620	780
Length of loading surface	l ₁ (mm)	2000	2000	2240
Overhang	l ₂ (mm)	630	770	630
Width of loading surface	b ₂ (mm)	1250	1100	1400
Overall length	l ₃ (mm)	3200	3150	3440
Overall width	b ₁ /b ₂ (mm)	1250	1100	1400
Ground clearance, centre of wheelbase	m ₂ (mm)	160	90	160
Turning radius	W _a (mm)	3200	3000	3400
Internal turning radius	b ₁₃ (mm)	1400	1040	1500
Travel speed, laden/unladen	Km/h	11/13	9/12	11/13
Gradeability, laden/unladen	%/m	10/20	10/20	10/20
Service brake		hydraulic	hydraulic	hydraulic
Battery voltage, nominal capacity K5	V/Ah	48/330	48/250	48/395
Battery weight	Kg	662	430	774
Battery dimensions l/w/h	mm	740x426x505	740x426x390	740x426x505
Sound level at the driver's ear acc. to DIN 12053	dB(A)	75	75	75
Service weight (with battery)	Kg	1450	1300	1750



BD10S/15S Optional of cabin

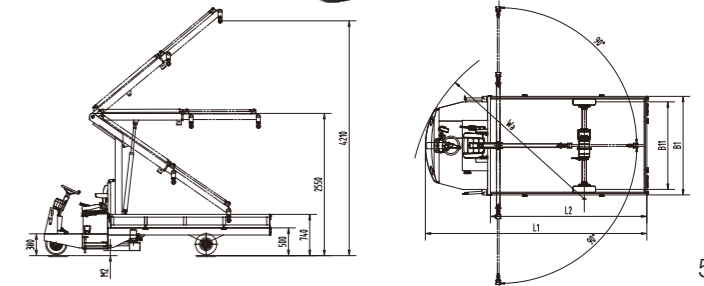


1KG=2.205LB 1INCH=25.40MM

MODEL		DC500
Drive type		electric
Operation type		seated
Rated Lifting Capacity	(kg.m)	250x2.5
Rated Load capacity	kg	2000
Wheelbase	Y(mm)	2675
Axle loading, unladen front/rear	kg	830/870
Tyres		rubber
Tyre size, front		15x4 1/2-8
Tyre size, rear		15x4 1/2-8
Wheels, number front rear(x=driven wheels)		1/2x
Tread, rear	b ₁ (mm)	1600
Overall length	l ₁ (mm)	4026
Length of vechil bin	l ₂ (mm)	2844
Overall width	b ₁ (mm)	1800
Ground clearance, centre of wheelbase	m ₂ (mm)	90
Aisle width	A ₂ (mm)	2000
Turning radius	W _a (mm)	3170
Travel speed, laden/unladen	Km/h	12/13
Max. gradeability, laden/unladen	%	10/15
Service brake		Manual/Hydraulic
Battery voltage, nominal capacity K5	V/Ah	48/270
Battery weight	Kg	400
Battery dimensions l/w/h	mm	814x416x578
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70
Service weight (with battery)	kg	1700

Electric Truck With Crane

Model: DC500



Electric Tow Tractor



1KG=2.205LB 1INCH=25.40MM



Model: QDD20/30/50/60/100



Advantages:

SAFETY AND STABILITY:

- Multi-function display: battery status, hour meter, error code etc.
- The application of hand brake and hydraulic brake improve the safety level of truck.
- Stepless speed control.
- Equipped with adjustable steering wheel, adapted to different operators.
- Advance linking system is designed with orienting and fixing bracket to the trailer.
- Low noise.

STRUCTURAL:

- "H" type axle design gives a good stability.
- Batteries located in the lowest part of frame ensures tow tractor excellent stability because of low centre of gravity.
- Automatic reset make operation easier.

SERVICEABILITY:

- CANbus technology reduces wiring complexity and increase reliability.
- The back cover is easy to open for maintenance and replacement of parts such as drive wheel, oil tube, accelerator, controller etc.

OPTION:

- Cabin
- Double front lamp
- AC power system



Back cover easy to open for service.



Large capacity batteries located in the lowest part of frame, offers low centre of gravity.

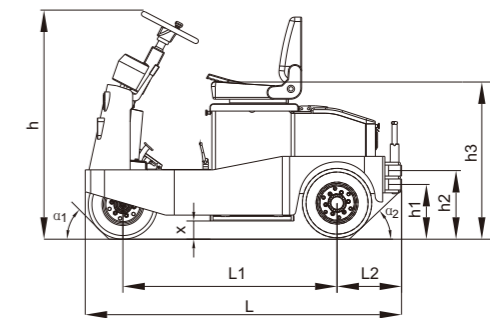
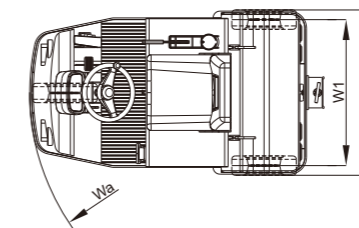


Adjustable steering column with electric F/R lever.



Multi function display

MODEL		QDD20	QDD30	QDD50	QDD60	QDD100
Drive type		Electric	Electric	Electric	Electric	Electric
Operation type		Seat	Seat	Seat	Seat	Seat
Rated traction weight(60 minutes rated)	kg	2000	3000	5000	6000	10000
Rated traction(60 minutes rated)	N/kg	500/50	750/75	1250/125	1500/150	2500/250
Max. traction(5 minutes rated)	N/kg	2000/200	3000/300	5000/500	6000/600	10000/1000
Drawbar center height	h1/h2(mm)	280/350	280/350	280/350	280/350	320/400
Weight	kg	930	980	1160	1280	1160
Axle loading, front	kg	330	350	410	450	750
Axle loading, rear	kg	600	630	750	830	1440
Tyre number front/rear	X = Driven wheels	1/2X	1/2X	1/2X	1/2X	2/2X
Tyre size, front	solid rubber	15*4½-8	15*4½-8	15*4½-8	15*4½-8	5.00-8-10PR
Tyre size, rear	solid rubber	15*4½-8	15*4½-8	4.00-8	4.00-8	6.50-10-12PR
Wheelbase	L1(mm)	1170	1170	1280	1280	1320
Rear hanging distance	L2(mm)	350	350	450	450	600
Tread, front	W2(mm)	0	0	0	0	920
Tread, rear	W1(mm)	860	860	946	946	970
Seat height	h3(mm)	850	850	910	910	1050
Overall length	L (mm)	1720	1720	1940	1940	2485
Overall width	W(mm)	970	970	1100	1100	1160
Overall height	h (mm)	1250	1250	1250	1250	1480
Approach angle α 1	°	≥ 45°	≥ 45°	≥ 45°	≥ 45°	≥ 38°
Departure angle α 2	°	≥ 40°	≥ 40°	≥ 40°	≥ 40°	≥ 30°
Min. ground height	X (mm)	100	100	100	100	138
Min. turning radius	Wa (mm)	1519	1519	1650	1650	2200
Travel speed, laden	km/h	8	7	8	7	6.5
Travel speed, unladen	km/h	13	13	14	14	7
Max. gradeability, laden	%	6	6	6	6	6
Max. gradeability, unladen	%	15	15	15	15	15
Brake		Mechanical, Hydraulic				
Voltage	V	48	48	48	48	48
Capacity	Ah	240	270	360	400	540
Battery weight	kg	350	400	530	610	950
Travel control		Microcomputer mosfet				
Average noise	Db(A)	68	68	68	68	68
Traction bolt		Traction bolt	Traction bolt	Traction bolt	Traction bolt	Traction bolt



Technical parameters of trailer

Model		DT30	DT60	DT100
Capacity	Kg	3000	6000	10000
Weight	Kg	350	450	550
Platform height	mm	500	560	560
Outline dimension(L x W x H)	mm	2550x1000x1100	3320x1250x1180	3500x1500x1180
Platform size	mm	1800x1000	2500x1250	2500x1500
Wheel dimension	mm	15x4½-8	16x6x10½	16x6x10½
Drawbar height	mm	200	200	280
Min. ground clearance	mm	170	180	180
Tractor model for choice		QDD20, QDD30	QDD50, QDD60	QDD100

- Cargo loading platform are available in different size as customer special requirements.



Model:
QDD25R

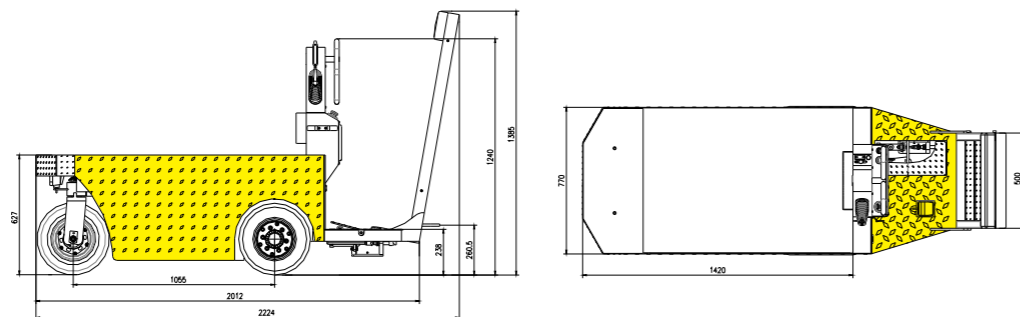
QDD25R Stock Tractor is featuring a 264x181mm/10.4x7.1inch cargo deck and 2200kgs/4840lbs towing capacity, which is built to work its way through the narrow aisles place ,widely used in factory, dock and warehouse .

Advantages:

- Designed with small and exquisite figure. It has a wide horizon and is safe to operate. Low noise, environmentally friendly.
- The body of the truck is designed to be very narrow and with small turning radius, it is especially suitable to use it to transport goods in narrow aisle.
- Available with optional ladder on the back for picking orders from the second and third shelf level. An 4 Step ladder and 6 step ladder allows operator to pick up goods from high places quickly and easily .
- With rubber mat in the front compartment, avoid hitting the knee of operator during operation.
- The single pedal for accelerator and brake ,safety and easy to operate .
- The ergonomics steering console is easily for operator to place packages from the shelves to the platform without interference from the console or the steering wheel.
- With H type driving axle, makes truck operation in high stability; and it is easy and convenient for the replacement and maintenance of the driving wheel.
- Combining hand brake with foot brake, which improves the safety performance of the truck.

1KG=2.205LB 1INCH=25.40MM

MODEL	QDD25R	
Drive type	ELECTRIC	
Operation type	STANDING	
Rated traction weight	kg/lbs	2200/4840
Length	mm/inch	2224/88
Width	mm/inch	770/30.3
Backrest height	mm/inch	1381/54
Ladder height	mm/inch	2815/111
Ground clearance,center of wheelbase	mm/inch	75/3
Wheelbase	mm/inch	1055/42
Height of deck	mm/inch	627/24.7
Deck size	mm/inch	1420x770/56x30.3
Turning radius	mm/inch	1280/50.4
Wheels,number front rear(x=driven wheels)	1/2x	
Tyre size front/rear	15x4 1/2-8	
Service weight	kg/lbs	560/1235
Load capacity	kg/lbs	450/990
Battery voltage/nominal capacity	V/AH	24/225
Battery dimension(length x width x height)	mm/inch	264x181x276/10.4x7.1x10.9
Power of driving motor	kw	3.2



Model: **BD05**



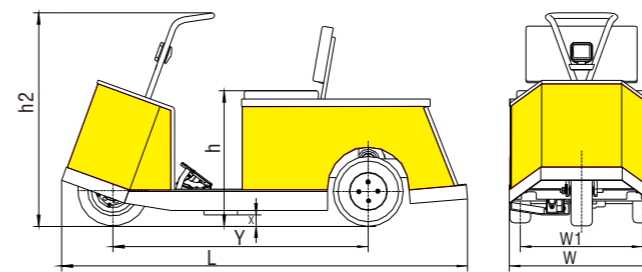
Designed for versatile application, with tough and dependable solution. Provide transportation for executive, supervisors, security and other workers whose job keeps them on the go .

Advantages:

- Combining personnel carrier to burden carrier in one truck. With carry capacity of two people or 300kgs (660lbs) of load on the job site .
- Truck body is with steel welded structures, the unitized body and frame prolong the using time .
- With small body easy to operate., driver won't feel tired after operating for a long time.
- With ergonomics bucket seat with disassembled back rest, it is comfortable and convenient for two people use.
- Multi-function display with BDI , hour meter, fault code .
- Use DC brushless motor with perfect traction performance, avoid changing carbon brush in the general motors.

1KG=2.205LB 1INCH=25.40MM

MODEL	BD05	
Drive type	ELECTRIC	
Operation type	SEATED	
Load capacity	Q(kg/lbs)	500/1100
Rated traction weight	kg/lbs	1000/2200
Travel speed(unladen/laden)	Km/h	14/8
Unladen onward distance	Km	32
Service weight(with battery)	kg/lbs	470/1036
Axle loading,unladen front/rear	kg/lbs	160/310(352/684)
Wheel base	Y(mm/inch)	1360/54
Tyres	ELASTIC SOLID	
Tyre size	15x4 -8 1/2	
Wheel number,front/rear(X=driven wheels)	1/2x	
Tread,rear	W,(mm/inch)	662/26.1
Operating handle height	h ₂ (mm/inch)	1100/43
Seat height	h(mm/inch)	730/28.7
Drawbar height	OPTIONAL DRAWBAR	
Overall length	L(mm/inch)	2190/86
Overall width	W(mm/inch)	780/30.7
Min.ground height	X(mm/inch)	63/2.5
Turning radius	Wa(mm/inch)	1850/73
Drive motor power	kW	3.2
Battery voltage/Nominal capacity	V/Ah	24/217
Battery weight	kg/lbs	96/212
Battery dimensions(l/w/h)	mm/inch	730x270x280/28.7x10.6x11
Sound level at the driver's ear acc. to DIN12053	dB(A)	70



Pedestrian Tow Tractor

Electric Puller



Model: QDD25W
Special for textile factory



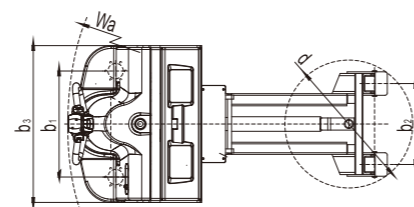
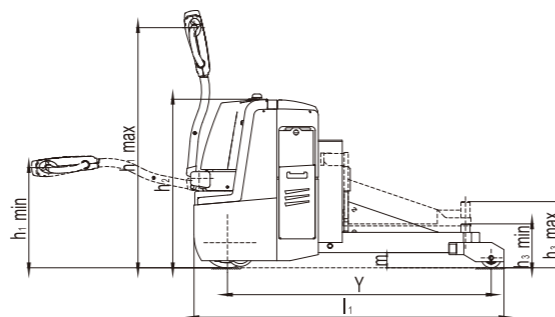
• QDD25W-I With platform



- AC driving system provides more efficient operating, lower circuit failure rate and stronger motor power.
- Brushless AC motor features better heat dissipation and maintenance free.
- Regenerative braking reduces the attrition.

1KG=2.205LB 1INCH=25.40MM

MODEL	QDD25W	
Drive type	electric	
Operation type	pedestrian	
Load capacity	Kg	2500
Rated drawbar pull	F(N)	750
Wheelbase	Y(mm)	1303
Service weight (with battery)	kg	580
Axle loading, laden front/rear	kg	445/135
Tyres	Polyurethane	
Tyre size, front	mm	250
Tyre size, rear	mm	98
Wheels, number front rear (x=driven wheels)	X1/2	
Tread, rear (balanced wheel)	b1(mm)	524
Tread, front	b2(mm)	400
Height of tiller in drive position min./max	h1(mm)	495/1185
Overall length	l1(mm)	1532
Overall width	b3(mm)	775
Overall height	h2(mm)	833
Ground clearance, centre of wheelbase	m(mm)	75
Drawbar pull min/max height	h3(mm)	217/327
Turning radius	Wa(mm)	1515
Minimum turning diameter	d(mm)	632
Travel speed, laden/ unladen	Km/h	4.5/5
Gradeability, laden/ unladen	%	5/12
Service brake	electromagnetic	
Battery voltage/nominal capacity	V/Ah	24/165
Battery weight	kg	175
Battery dimensions l/w/h	mm	750X170X465
Sound level at the driver's ear acc. to DIN12053	dB(A)	65
Traction connection mode	axis pin	



Model: QDD15W



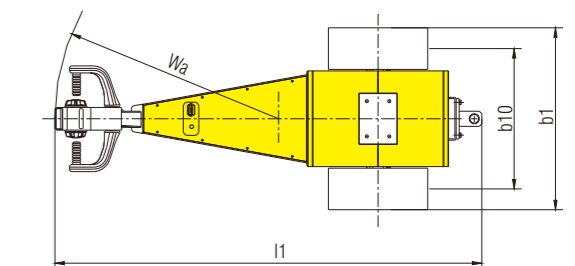
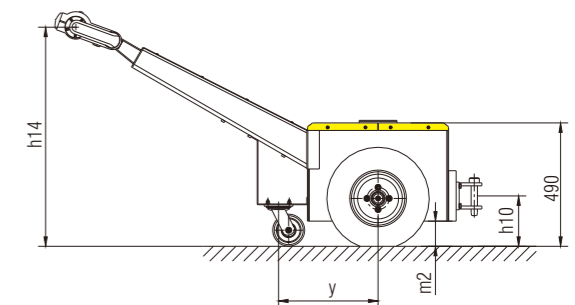
1KG=2.205LB 1INCH=25.40MM

MODEL	QDD15W	
Drive type	electric	
Operation type	pedestrian	
Load capacity	Q(kg)	1500
Rated drawbar pull	F(N)	300
Wheelbase	y(mm)	395
Axle loading, unladen front/rear	kg	107/43
Tyres	rubber, pneumatic	
Tyre size, front	mm	16x6.5-8.00
Tyre size, rear	mm	127
Wheels, number front rear (x=driven wheels)	x2/1	
Tread, front	b ₁₀ (mm)	557
Height of tiller in drive position min./max.	h ₁₄ (mm)	890
Overall length	l ₁ (mm)	1695
Overall width	b ₁ /b ₂ (mm)	722
Ground clearance, centre of wheelbase	m ₂ (mm)	100
Turning radius	W _a (mm)	1290
Travel speed, laden/unladen	Km/h	4.8/5.5
Drawbar pull, laden/unladen	N	300
Max. drawbar pull, laden/unladen	N	1000
Service brake	electric	
Battery voltage, nominal capacity K5	V/Ah	24/80
Battery weight	kg	49
Battery dimensions l/w/h	mm	259x169x215
Type of drive control	MOSFET	
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70
Service weight (with battery)	kg	150
Quantity/20' container	Pcs	48
Quantity/40' container	Pcs	96
Max. additional load, front wheel	kg	150
Draw chassis height	h ₁₀ (mm)	178/218/258



Advantages:

- Small and powerful, fit to any worker, male or female.
- Stepless speed control, smooth/controllable speeds
- Electrically powered with built-in charger, free from taking heavy charger.
- Gel battery, free from maintenance.
- Emergency stop device.
- Rubber pneumatic drive wheel with alternative tread patterns and material specifications.
- Low battery protection setting.
- Significant productivity gains-either through a reduction in man power required to move loads, or increased speed of moving loads.
- Fingertip control and compact size make the unit easy to maneuver.
- Charger with UL certificate.
- Ergonomic handle.





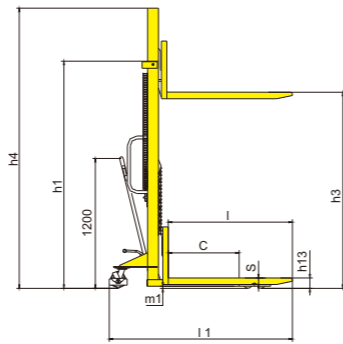
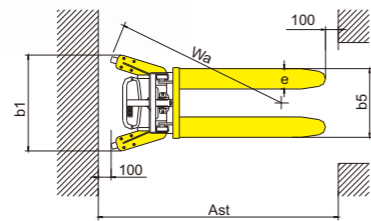
Conforms to EN ISO3691-5:2009
Based on Directive 2006/42/EC



Model:
SDJ500
SDJ1000
SDJ1500



Model:
SDJA-I
(1000~1500kg)



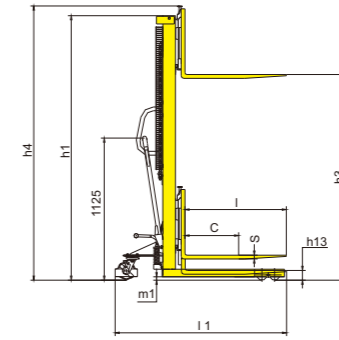
1KG=2.205LB 1INCH=25.40MM

SDJ series with fixed forks

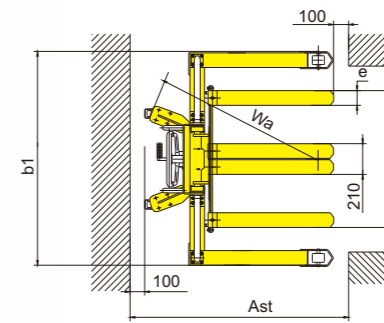
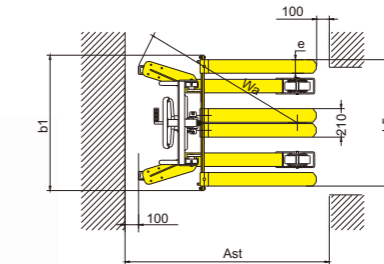
MODEL	SDJ500	SDJ1000	SDJ1500	SJJA20E- I	SDJA1000- I	SDJA1500- I	SJJA20E-III	
Load capacity/rated load	Q(kg)	500	1000	1500	2000	1000	1500	2000
Load centre distance	c(mm)	600	600	400	400	500	500	400
Fork height, lowered	h ₂ (mm)	90	90	90	93	90	90	90
Height, mast lowered	h ₁ (mm)	1490/2080	1490/1720/2080/1838/2080	2080	2085	2090/1840	2090	2085
Max. lift height	h ₃ (mm)	1000/1600	1000/1200/1600/2500/3000	1600	1500	1600/2500	1600	1500
Height, mast extended	h ₄ (mm)	1490/2080	1490/1720/2080/2925/3420	2080	2085	2090/2925	2090	2085
Overall length	l ₁ (mm)	1655/1705	1655/1705	1655/1705	1425	1680	1680	1482
Overall width	b ₁ (mm)	755	755/755/755/860/860	755	830	955	955	830
Fork dimensions	s/e/l(mm)	61/170/1100(1150)	61/170/1100(1150)	61/170/1100(1150)	60/170/900	60/142/1070	60/154/1070	60/166/900
Width overall forks	b ₃ (mm)	550	550/550/550/580/580	550	580	295~930	310~930	350-710
Ground clearance, laden, below mast	m ₁ (mm)	25	25	25	20	25	25	20
Aisle width for pallets 1000x1200 crossways	A ₂ (mm)	2112	2112	2112	2131	2146	2146	2166
Aisle width for pallets 800x1200 lengthways	A ₄ (mm)	1945	1945	1945	2108	2141	2141	2163
Turning radius	W ₂ (mm)	1380	1380	1380	1250	1235	1235	1250
Lift speed,laden/unladen	mm/time	25	25	21	18/20	25	21	18/20
Lowering speed,laden/unladen	mm/s	Manual control			Manual control			
Service weight	kg	185 / 205	183/191/210/286/307	245	260	240/306	280	260



Model:
SDJA500
SDJA1000
SDJA1500
Forged Forks



Model:
SDJAS500
SDJAS1000



SDJA series with adjustable forks SDJAS series with straddle legs

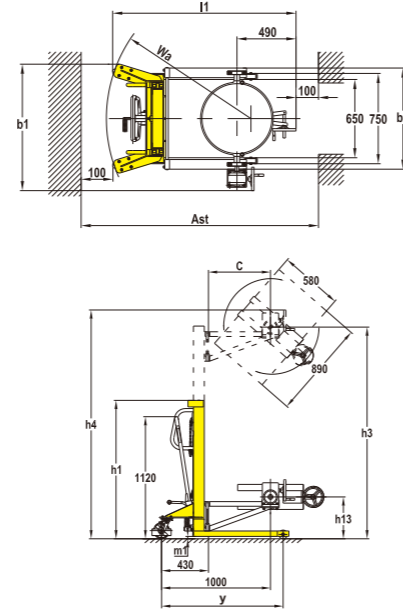
MODEL	SDJA500	SDJA1000	SDJA1500	SDJAS500	SDJAS1000	SJJA1500	SJJA20E	
Load capacity/rated load	Q(kg)	500	1000	1500	500	1000	1500	2000
Load centre distance	c(mm)	500	500	500	500	500	400	400
Fork height, lowered	h ₂ (mm)	90	90	90	70	70	97	90
Height, mast lowered	h ₁ (mm)	2000	2085/1840	2090	2000	2050	1940	2085
Max. lift height	h ₃ (mm)	1600	1600/2500	1600	1600	1600	1500	1500
Height, mast extended	h ₄ (mm)	2010	2165/2925	2150	2100	2155	2000	2085
Overall length	l ₁ (mm)	1380/1640	1380/1640	1380/1640	1340/1600	1300/1560	1350	1386
Overall width	b ₁ (mm)	805	1000/750	1000	1500	1450	1050	1000
Fork dimensions	s/e/l(mm)	48/100/800(1060)	30/100/800(1060)	30/100/800(1060)	48/100/800(1060)	30/100/800(1060)	48/100/850	32/120/900
Width overall forks	b ₃ (mm)	200~745	200~950/700	200~950	745	950	980	250~950
Round clearance, laden,below mast	m ₁ (mm)	20	25	25	25	25	25	25
Aisle width for pallets 1000x1200 crossways	A ₂ (mm)	1915	1915	1915	1975	1975	2050	2050
Aisle width for pallets 800x1200 lengthways	A ₄ (mm)	1910	1910	1910	1915	1915	2040	2040
Turning radius	W ₂ (mm)	1235	1235	1235	1200	1200	1245	1250
Lift speed,laden/unladen	mm/time	25	25	21	25	25	20	18/20
Lowering speed,laden/unladen	mm/s	Manual control			Manual control			
Service weight	kg	161	250/316	280	217	336	283	265

1KG=2.205LB 1INCH=25.40MM

Folded Foot Pedal

Drum Lifter

Model: **YTD-35**



Drum Stacker

1KG=2.205LB 1INCH=25.40MM

Model	YTD-35	
Capacity	Q(kg)	350
Load centre distance	c(mm)	570
Wheelbase	y(mm)	1115
Tyre size, front	(mm)	φ 80x36
Tyre size rear	(mm)	φ 147x40
Height, mast lowered	h ₁ (mm)	1270/1490
Max. lift height	h ₂ (mm)	1945/2385
Height, mast extended	h ₃ (mm)	2100/2640
Lowered fork height	h ₄ (mm)	385
Overall length	l ₁ (mm)	1520
Overall width	b ₁ (mm)	1050
Width overall forks	b ₂ (mm)	840
Ground clearance, laden, below mast	m ₁ (mm)	22
Turning radius	W ₁ (mm)	1200
Lowering speed, laden/unladen	mm/s	manual control
Service weight	kg	235

Drum Loader

Model: **HD08**

Max. Height of Drum: 957mm
Min. Height of Drum: 832mm
Drum Dia: 580mm

- Easily and quickly lift drums without hydraulic or electric connections.



Model: **HD08**
Cap. : 300kg



Model: **HD16**
Cap. : 300kg

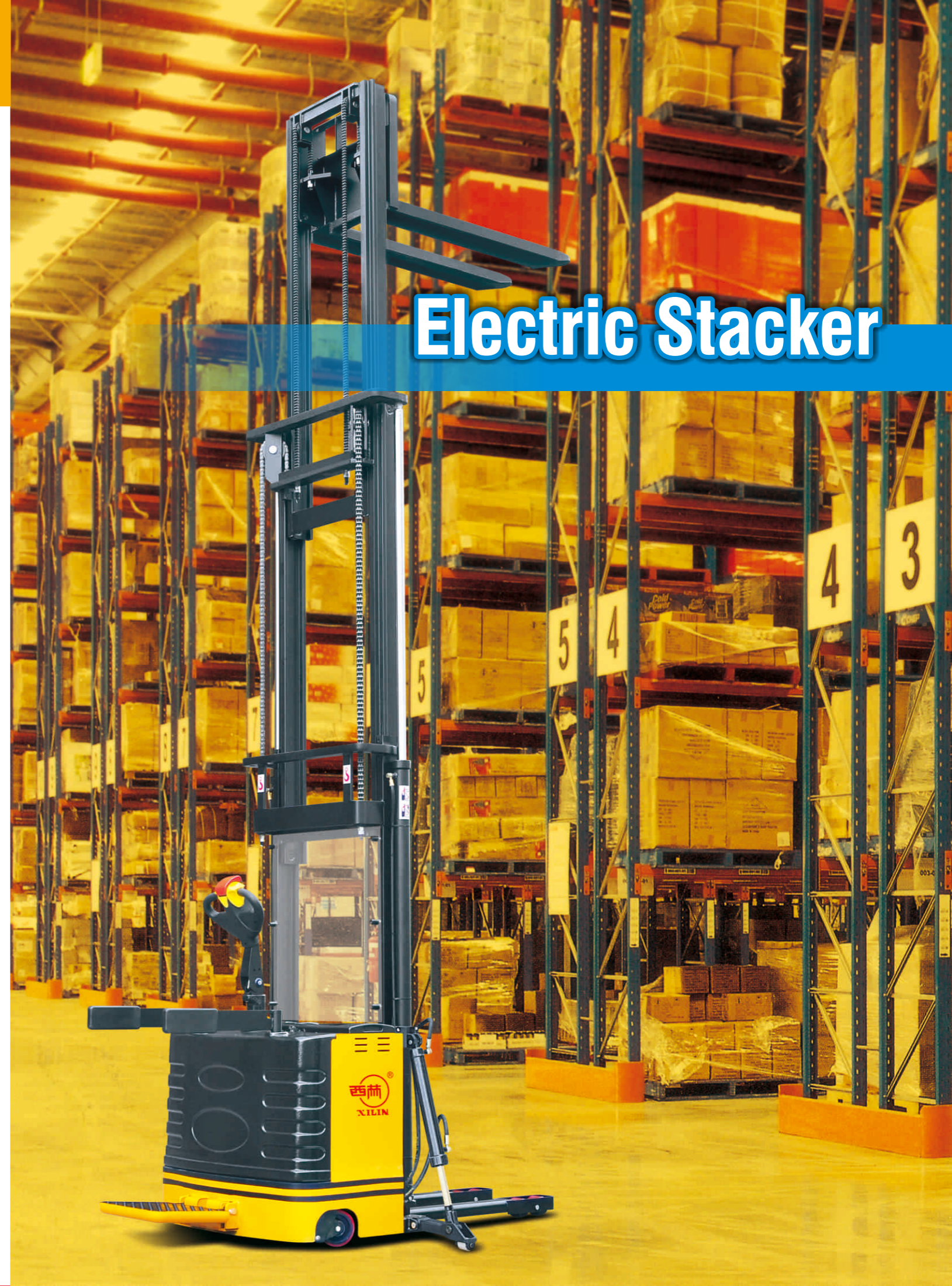


Model: **HD32**
Cap. : 300kg



Model: **HD64**
Cap. : 300kg

Electric Stacker



Semi-electric Stacker



Advantages:

- Handle-caster chain assist steering system greatly reduces the labor intensity.
- Equipped with explosion-proof valve, ensure no sharp drop of platform and prevent operator from harm.
- Over-discharge protection device greatly prolongs the battery use time.
- With adjustable forks, which can be lowered to the same level of the legs.
- Easy operating foot brake.



Conforms to EN ISO3691-5:2009
1175-1:1998
Based on Directive 2006/42/EC

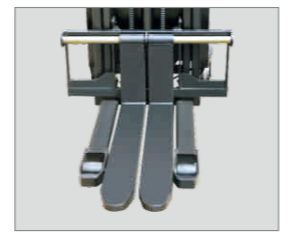
Model:
CTD10B-III
CTD15B-III
Straddle legs &
Adjustable forks



Model:
CDD10B-III
CDD15B-III
Fix type forks



Chain Assist Steering System



CDDB-III Adjustable Forks

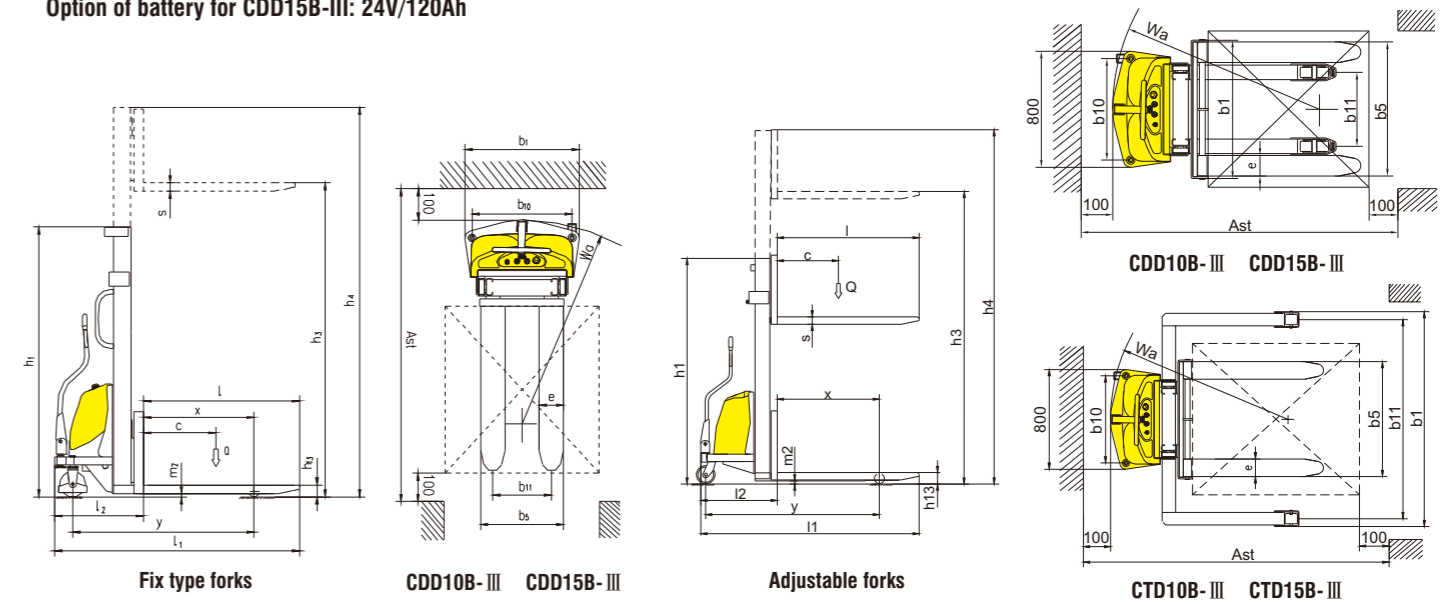


CTDB-III Straddle legs & adjustable forks

1KG=2.205LB 1INCH=25.40MM

MODEL		Fix type forks		Adjustable forks			
		CDD10B - III	CDD15B - III	CDD10B - III	CDD15B - III	CTD10B - III	CTD15B - III
Load capacity	Q (kg)	1000	1500	1000	1500	1000	1500
Load centre distance	c (mm)	500	500	500	500	500	500
Load distance, centre of drive axle to fork	x (mm)	802	802	745	745	770	770
Fork height, lowered	h_{13} (mm)	90	90	90	90	80	80
Wheelbase	y (mm)	1185	1265	1185	1265	1295	1375
Axle loading, laden front/rear	kg	530/930	627/1393	530/930	627/1393	547/928	685/1351
Axle loading, unladen front/rear	kg	335/125	382/138	335/125	382/138	358/117	399/137
Tyres		nylon		nylon		nylon	
Tyre size, front	mm	φ 180x50		φ 180x50		φ 180x50	
Tyre size, rear	mm	φ 80x77		φ 80x77		φ 98x82	
Wheels, number front rear(x=driven wheels)		2/2		2/2		2/2	
Tread, front	b_{10} (mm)	700		700		700	
Tread, rear	b_{11} (mm)	410/525	410/525	440/510		1016~1416	
Height, mast lowered	h_1 (mm)	2090/1840/2090		2090/1840/2090		2145/1895/2145	
Max. lift height	h_2 (mm)	1600/2500/3000		1600/2500/3000		1600/2500/3000	
Height, mast extended	h_4 (mm)	2090/3060/3560		2090/3060/3560		2145/3100/3600	
Overall length	l_1 (mm)	1678	1740	1735	1835	1735	1835
Length to face of forks	l_2 (mm)	608	670	665	765	665	765
Overall width	b_1 (mm)	800		955		1132-1532	
Fork dimensions	s/e/l (mm)	60/170/1070		60/142/1070		60/142/1070	
Width overall forks	b_5 (mm)	580/695		295-930		295-930	
Ground clearance	m_2 (mm)	21		21		40	
Aisle width for pallets 1000x1200 crossways	A_{st} (mm)	2288	2368	2288	2368	2288	2368
Aisle width for pallets 800x1200 lengthways	A_{st} (mm)	2267	2347	2267	2347	2267	2347
Turning radius	W_s (mm)	1425	1505	1425	1505	1425	1505
Lift speed, laden/unladen	m/s	0.08/0.1		0.08/0.1		0.08/0.1	
Lowering speed, laden/unladen	m/s	0.15/0.12		0.15/0.12		0.15/0.12	
Service brake		Mechanical		Mechanical		Mechanical	
Battery voltage, nominal capacity K_s	V/Ah	12/120	12/120	12/120	12/120	12/120	12/120
Battery weight	kg	45	90	45	90	45	90
Battery dimensions l/w/h	mm	360x170x250	360x170x250	360x170x250	(360x170x250)x2	360x170x250	(360x170x250)x2
Sound level at the driver's ear acc.to DIN 12053	dB (A)	<70		<70		<70	
Service weight (with battery)	kg	400/460/480	455/520/535	400/460/480	455/520/535	420/475/490	470/536/550

Option of battery for CDD15B-III: 24V/120Ah



Semi-electric Stacker

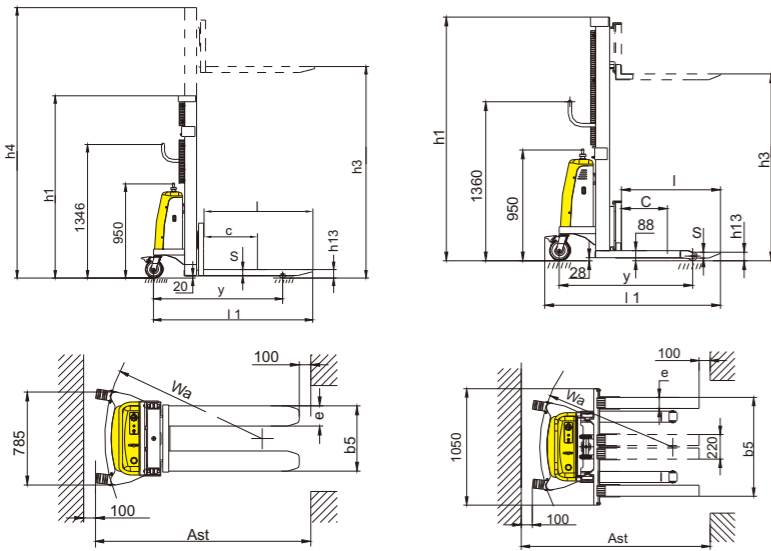


1KG=2.205LB 1INCH=25.40MM

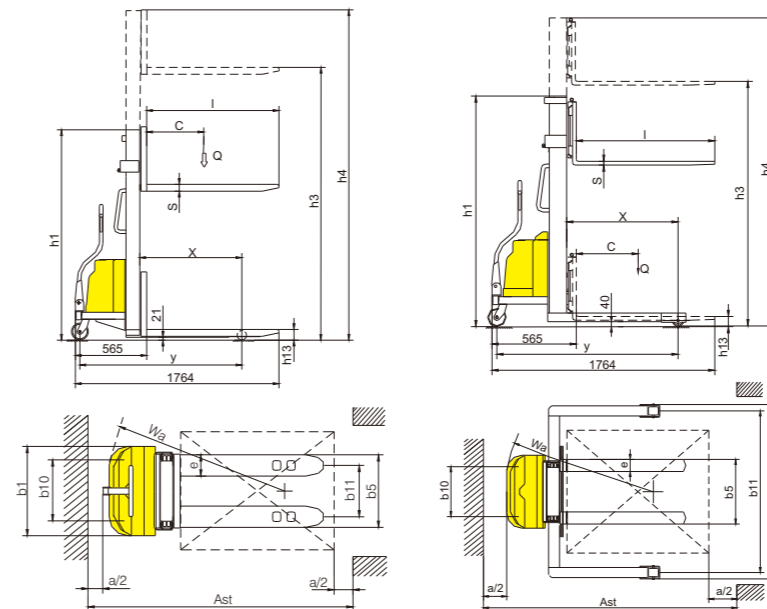
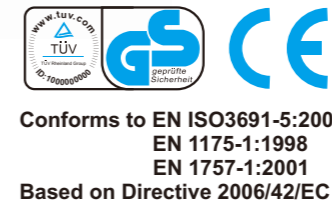
MODEL		CDD1016BA	CDD1025BA	CDD1030BA
Capacity	Q(kg)	1000	1000	1000
Load centre distance	c(mm)	400	500	500
Wheelbase	y(mm)	1145	1305	1305
Fork height, lowered	h_{13} (mm)	90	90	90
Height, mast lowered	h_1 (mm)	2088	1838	2088
Max. lift height	h_2(mm)	1600	2500	3000
Height, mast extended	h_4 (mm)	2088	3088	3588
Overall length	l_1 (mm)	1505	1728	1728
Fork dimensions	s/e/l(mm)	48/100/850	60/170/1100	60/170/1100
Width overall forks	b_5 (mm)	200~980	550	550
Aisle width for pallets 1000x1200 crossways	A_{x1} (mm)	2020	2210	2210
Aisle width for pallets 800x1200 lengthways	A_{x2} (mm)	2020	2140	2140
Turning radius	W_1 (mm)	1210	1328	1328
Lift speed, laden/unladen	mm/s	80/100	80/100	80/100
Lowering speed, laden/unladen	mm/s	Manual control		
Battery voltage, nominal capacity K_5	V/Ah	12/120	12/120	12/120
Service weight (with battery)	kg	300	370	382

Model:
CDD1025BA
CDD1030BA

Model:
CDD1016BA



Model:
CDD10B/15B



1KG=2.205LB 1INCH=25.40MM

MODEL		CDD10B	CDD15B	CTD10B	CTD15B
Capacity	Q(kg)	1000	1500	1000	1500
Load centre distance	c(mm)	500		600	
Load distance, centre of drive axle to fork	x(mm)	815		800	
Lowered fork height	h_{13} (mm)	90		70	
Max. lift height	h_2(mm)	1600/2500/3000/3300		1600/2500/3000/3300/3500	
Wheelbase	y(mm)	1355		1260	1330
Tread, front	b_{10} (mm)	610		610	634
Tread, rear	b_{11} (mm)	410/525		1016-1416	
Height, mast lowered	h_1 (mm)	2090/1840/2090/2200		2145/1895/2145/2295/2395	
Height, mast extended	h_4 (mm)	2090/2997/3497/3797		2145/3052/3552/3852/4052	
Fork dimensions	s/e/l(mm)	60/170/1070(1150)		35/100/1070(1150)	35/100/1070(1150)
Overall width	b(mm)	722		1132-1532	
Width overall forks	b_5 (mm)	580/695		200-800	200-800
Aisle width for pallets 1000x1200 crossways	A_{x1} (mm)	2235/2305		2214	2285
Aisle width for pallets 800x1200 lengthways	A_{x2} (mm)	2188/2258		2142	2212
Turning radius	W_1 (mm)	1340/1410		1340	1410
Lift speed, laden/unladen	m/s	0.08/0.1		0.08/0.1	
Lowering speed, laden/unladen	m/s	0.15/0.12		0.15/0.12	
Battery voltage, nominal capacity K_5	V/Ah	12/200	24/200	12/200	24/200
Battery weight	kg	60	120	60	120
Battery dimensions l/w/h	mm	250x190x295		250x190x295	
Service weight (with battery)	kg	420/480/500/550	580/660/657/700	490/550/570/580/650	580/630/660/680/690

Standard Semi-electric Stacker

- Compact design with strong European steel construction.
- Simple and convenient lifting operating system.
- Light and easy manual steering system, equipped with a parking brake.
- Smooth control of precise lifting and lowering.
- Special design are available according to customers' requirements.

Remark:

CDD series are with fixed legs & fixed forks.
CTD series are with straddle legs & adjustable forks.

Model:
CTD10B/15B



Full Electric Stacker



AC

Model: CDDR10/12/15

Overall forks

Advantages:

STRUCTURAL AND SAFETY:

- Advanced AC control system Intelligentized regenerative brake system.
- Multi-function display with BDI and fault code etc.
- Emergency reversing device.
- Auto deceleration system utilizes regenerative braking.
- Built-in pressure relief valve protects the trucks from overloads.
- Emergency power disconnect .
- Stepless speed control.
- With lifting limit switch to shut off pump motor at the max. lifting height.
- Standing drive motor system has a small turning radius. The motor structure is water-proof and dust-proof.

SERVICEABILITY:

- CANbus technology reduces wiring complexity and increase reliability.
- Advanced AC control system with brushless motor.
- Auto deceleration system utilizes regenerative braking.
- Side-way battery with roll-out system is very convenient for replacement.



Option: Initial lifting with double pallet



CDDR15-III mast



Standing Drive Wheel



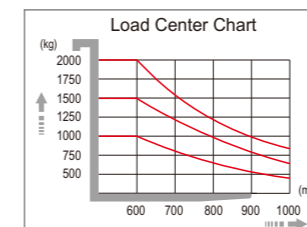
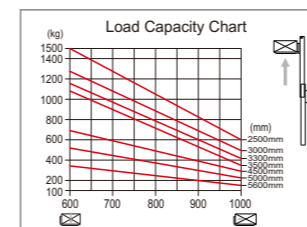
Option: Adjustable Forks



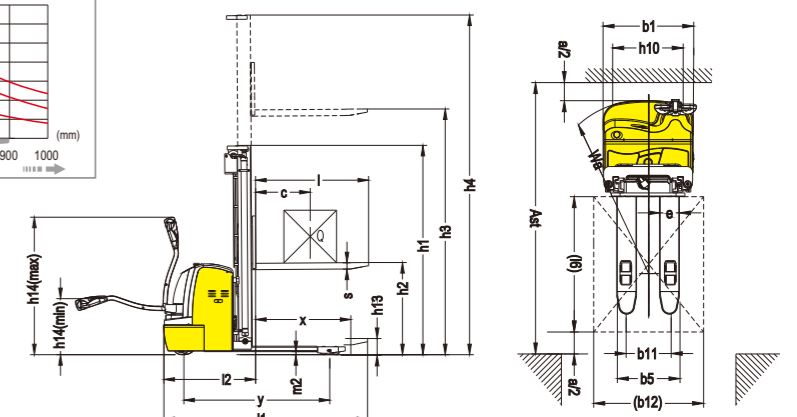
* photo shown with model CDDR15Z

1KG=2.205LB 1INCH=25.40MM

MODEL		CDDR15- I	CDDR15- II	CDDR15Z- I	CDDR15Z- II	CDDR10- III	CDDR12- III	CDDR15- III
Drive type		electric		electric		electric		
Operation type		pedestrian		pedestrian		pedestrian		
Load capacity	Q(kg)	1500	1500	1500	1500	1000	1200	1500
Load centre distance	c(mm)	600	600	600	600	500	600	600
Load distance, centre of drive axle to fork	x(mm)	697	697	697	697	697	697	697
Fork height, lowered	h ₁₂ (mm)	90	90	90	90	90	90	90
Wheelbase	y(mm)	1383	1383	1383	1383	1335	1410	1410
Axle loading, laden front/rear	kg	1470/1310	1440/1280	1470/1310	1440/1280	950/770	1060/870	1280/1070
Axle loading, unladen front/rear	kg	900/380	870/350	900/380	870/350	555/165	560/170	650/200
Tyres		polyurethane		polyurethane		polyurethane		
Tyre size, front	mm	φ 250x70		φ 250x70		φ 250 × 70		
Tyre size rear	mm	φ 80x84		φ 80x84		φ 80 × 70		
Additional wheels(dimensions)	mm	φ 150x60		φ 150x60		φ 150 × 60		
Wheels, number front rear(x=driven wheels)		1x+1/4		1x+1/4		1x+1/4		
Tread, front	b ₁₀ (mm)	520		520		520		
Tread, rear	b ₁₁ (mm)	404/525		404/525		410/525		
Height, mast lowered	h ₁ (mm)	1735/1985/2135/2235/2050/2210/2410		1735/1985/2135/2235/2050/2210/2410		2087/1837/2087/2237		
Free lift	h ₂ (mm)	~		1300/1550/1700/1800/1570/1740/1940		~		
Max. lift height	h₃(mm)	2500/3000/3300/3500/4500/5000/5600	2500/3000/3300/3500/4500/5000/5600	2500/3000/3300/3500/4500/5000/5600	2500/3000/3300/3500/4500/5000/5600	1600/2500/3000/3300		
Height,mast extended	h ₄ (mm)	2955/3455/3755/3955/5030/5510/6110		2955/3455/3755/3955/5030/5510/6110		2087/3087/3587/3887		
Height of tiller in drive position min./max.	h ₅ (mm)	670/1300		670/1300		670/1300		
Overall length	l ₁ (mm)	1950		1950		1965		2045
Length to face of forks	l ₂ (mm)	878		878		792		878
Overall width	b ₁ (mm)	820		820		820		
Fork dimensions	s/e/l(mm)	60/180/1070(1150)		60/180/1070(1150)		60/170/1070(1150)		
Distance between fork-arms	b ₂ (mm)	570/695		570/695		580/695		
Ground clearance, centre of wheelbase	m ₁ (mm)	31		31		28		
Aisle width for pallets 1000x1200 crossways	A ₁ (mm)	2450		2450		2400		2480
Aisle width for pallets 800x1200 lengthways	A ₂ (mm)	2420		2420		2370		2450
Turning radius	W ₁ (mm)	1575		1575		1525		1605
Travel speed, laden/unladen	Km/h	5.8/6		5.8/6		5.3/5.6		5.8/6(AC)
Lift speed, laden/unladen	m/s	0-0.12/0-0.19	0.11/0.15	0-0.12/0-0.19	0.11/0.14	0.06/0.13		
Lowering speed, laden/unladen	m/s	0-0.35/0-0.12	0.15/0.13	0-0.35/0-0.12	0.12/0.12	0.13/0.10		
Gradeability, laden/unladen	%	8/15	8/15	8/15	8/15	6/15		
Service brake		Electromagnetic		Electromagnetic		Electromagnetic		
Battery voltage,nominal capacity K _v (Duplex Mast)	V/Ah	24/300	24/240	24/300	24/240	24/120	24/200	
Battery voltage,nominal capacity K _v (Triplex Mast)	V/Ah	24/300	24/240	24/300	24/240	~		~
Battery weight	kg	260	220	260	220	90	160	
Battery dimensions l/w/h	mm	675x254x545	625x254x500	625x254x545	625x254x500	753x178x240	800x254x320	
Sound level at the driver's ear acc.to DIN 12053	dB(A)	65		65		70		
Service weight (with battery)	kg	1220/1245/1260/1270/1310/1340/1360	1160/1185/1200/1210/1260/1280/1300	1230/1255/1270/1280/1330/1350/1370	1170/1195/1210/1220/1270/1290/1310	700/730/750	710/740/760	830/840/850



Model	Battery	Drive motor	Pump
CDDR15- I	24V/300Ah	1.6KW	3KW (Proportional lifting)
CDDR15Z- I			
CDDR15- II	24V/240Ah	1.2KW	3KW
CDDR15Z- II			
CDDR15- III	24V/200Ah	DC 0.9KW AC 1.2KW	2.2KW
CDDR15Z- III			



Model: CTDR10/12/15

Straddle legs with adjustable forks

AC



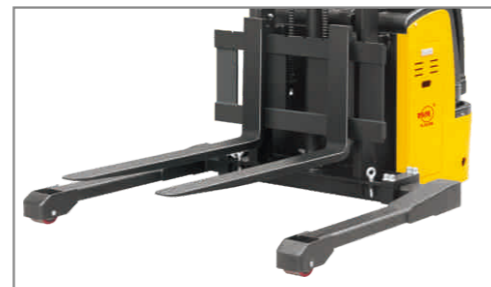
Advantages:

STRUCTURAL AND SAFETY:

- Advanced AC control system Intelligentized regenerative brake system.
- Multi-function display with BDI and fault code etc.
- Emergency reversing device.
- Auto deceleration system utilizes regenerative braking.
- Built-in pressure relief valve protects the trucks from overloads.
- Emergency power disconnect .
- Stepless speed control.
- With lifting limit switch to shut off pump motor at the max. lifting height.
- Standing drive motor system has a small turning radius. The motor structure is water-proof and dust-proof.

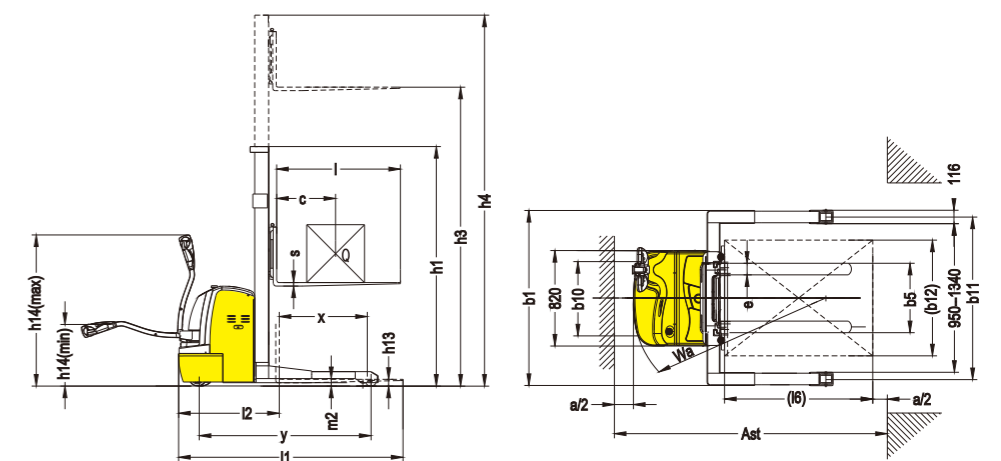
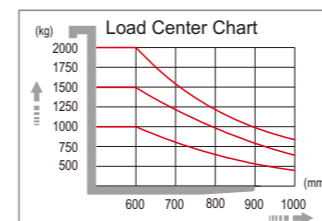
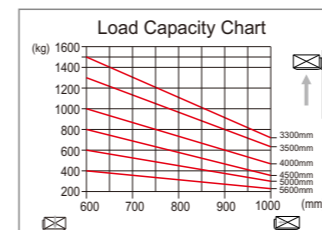
SERVICEABILITY:

- CANbus technology reduces wiring complexity and increase reliability.
- Advanced AC control system with brushless motor.
- Auto deceleration system utilises regenerative braking.
- Side-way battery with roll-out system is very convenient for replacement.



1KG=2.205LB 1INCH=25.40MM

MODEL		CTDR15- I	CTDR15- II	CTDR10- III	CTDR12- III	CTDR15- III
Drive type		electric	electric	electric	electric	electric
Operation type		walkie	walkie	walkie	walkie	walkie
Load capacity/rated load	Q(kg)	1500	1500	1000	1200	1500
Load centre distance	c(mm)	600	600	500		600
Load distance,centre of drive axle to fork	x(mm)	697	697	795		
Fork height, lowered	h_{13} (mm)	70	70	90		
Wheelbase	y(mm)	1420	1420	1385		1460
Axle loading,laden front/rear	kg	1470/1310	1440/1280	950/770	1060/870	1280/1070
Axle loading,unladen front/rear	kg	910/370	870/350	555/165	560/170	650/200
Tyres		polyurethane	polyurethane	polyurethane		
Tyre size, front	mm	$\phi 250 \times 70$	$\phi 250 \times 70$	$\phi 250 \times 70$		
Tyre size, rear	mm	$\phi 80 \times 84$	$\phi 80 \times 84$	$\phi 98 \times 82$		
Additional wheels(dimensions)	mm	$\phi 150 \times 60$	$\phi 150 \times 60$	$\phi 150 \times 60$		
Wheels,number front rear(x=driven wheels)		1x+1/4	1x+1/4	1x+1/2		
Tread, front	b_{10} (mm)	520	520	520		
Tread, rear	b_{11} (mm)	1040-1430	1040-1430	1066/1466		
Mast height lowered	h_1 (mm)	1805/2055/2205/2305/2120/2280/2480	1805/2055/2205/2305/2120/2280/2480	2145/1895/2145/2295		
Free lift (option)	h_2 (mm)	1300/1550/1700/1800/1570/1740/1940	1300/1550/1700/1800/1570/1740/1940	~		
Max. lift height	h_3(mm)	2500/3000/3300/3500/4500/5000/5600	2500/3000/3300/3500/4500/5000/5600	1600/2500/3000/3300		
Mast height extended	h_4 (mm)	3025/3525/3825/4025/5080/5560/6160	3025/3525/3825/4025/5080/5560/6160	2145/3145/3645/3995		
Height of tiller in drive position min./max.	h_{12} (mm)	670/1300	670/1300	670/1300		
Overall length	l_1 (mm)	1980	1980	2015	2095	
Length to face of forks	l_2 (mm)	915	915	890	970	
Overall width	b_1 (mm)	1170-1560	1170-1560	1182-1593		
Fork dimensions	s/e/l(mm)	40/100/1070(1150)	40/100/1070(1150)	40/100/1070(1150)		
Width overall forks	b_2 (mm)	200-800	200-800	200-800		
Ground clearance,centre of wheelbase	m_2 (mm)	35	35	35		
Aisle width for pallets 1000x1200 crossways	A_x (mm)	2480	2480	2450	2530	
Aisle width for pallets 800x1200 lengthways	A_y (mm)	2465	2465	2420	2500	
Turning radius	W_t (mm)	1610	1610	1575	1655	
Travel speed,laden/unladen	Km/h	5.8/6	5.8/6	5.3/5.6	5.8/6(AC)	
Lift speed,laden/unladen	m/s	0--0.12/0--0.19	0.11/0.15	0.06/0.13		
Lowering speed,laden/unladen	m/s	0--0.35/0--0.12	0.12/0.12	0.13/0.10		
Max.gradeability,laden/unladen	%	8/15	8/15	6/15		
Service brake		Electromagnetic	Electromagnetic	Electromagnetic		
Battery voltage,nominal capacity K_s	V/Ah	24/300	24/240	24/120	24/200	
Battery weight	kg	300	240	90	160	
Battery dimensions l/w/h	mm	675x254x500	675x254x500	753x178x240	800x254x320	
Sound lever at th driver's ear acc.to DIN12503	dB(A)	65	65	70		
Service weight(without battery)	kg	1240/1265/1280/1290/1340/1360/1380	1180/1205/1220/1230/1280/1300/1320	700/730/750	710/740/760	830/840/850



Model: CDDK10/12/15

Overall forks



Conforms to EN 1726-1/A1:2003
Based on Directive 2006/42/EC

Advantages:

SAFETY AND PRODUCTIVITY:

- AC Motor eliminates replacement of carbon brush.
- Multi-function display: battery power, fault code, hour meter and speed level;
- Side way battery is easy to maintain.
- Damping cushion for low-noise operation;
- Emergency reversing device in the handle provides higher safety for the whole operation.
- Auto deceleration function makes operation more safely.
- Built-in pressure relief valve protects the trucks from overloads, increases the reliability.
- Braking applied with handle upright and horizontal position, increasing the safety of the truck.
- Emergency power disconnect switch.
- Turtle-shaped low speed switch.
- Stepless speed control.



OPTIMUM STRUCTURAL DESIGN:

- Low center of gravity ensures the stable operation.
- Vertical drive wheel ensures convenience for maintenance while also ensuring a small turning radius. The structure of motor is water-proof and dust-proof, which makes the braking and motor more durable and reliable.
- The mast and the frame are dividable and exchangeable.
- Full free lifting, fit for working in low house. (The lifting height is 3 meters, can enter into a 2-meter height door)

SERVICEABILITY:

- Low battery protection setting prolongs the battery use time.
- The electronic components' concentrated design simplify the circuit and makes easy access to assemble, debug and maintain,
- CANbus technology reduces wiring complexity and increase reliability.
- Hall element reduces wear components, resulting in increased component life.



Initial lifting with double pallet

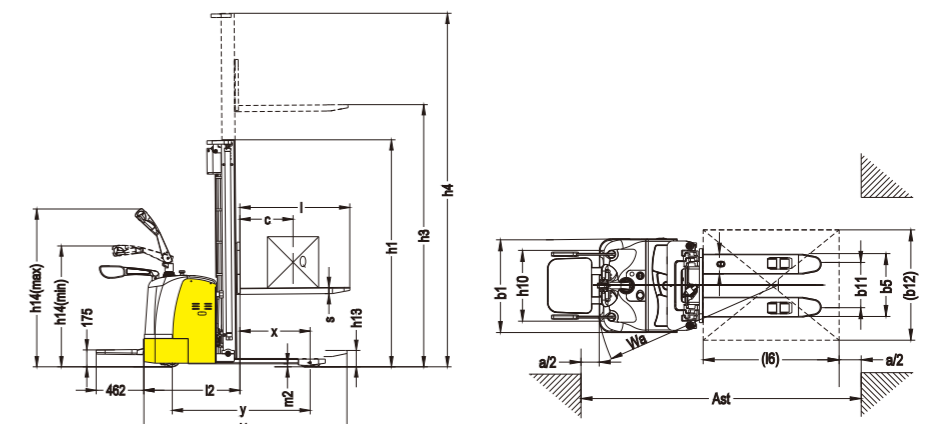
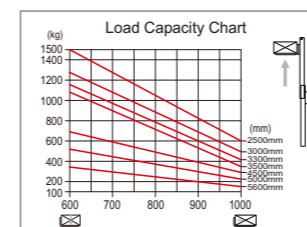
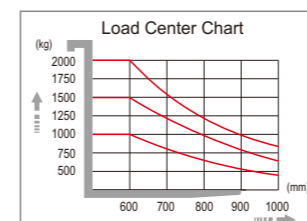


AC

EPS
(Option)

* photo shown with model CDDK15Z-II

MODEL		CDDK15- II	CDDK10- III	CDDK12- III	CDDK15- III
Drive type		electric	electric	electric	electric
Operation type		standing	standing	standing	standing
Load capacity/rated load	Q(kg)	1500	1000	1200	1500
Load centre distance	c(mm)	600	500		600
Load distance,centre of drive axle to fork	x(mm)	672	697		
Fork height, lowered	h ₂ (mm)	90	90		
Wheelbase	Y(mm)	1378	1330	1330	1405
Axle loading,laden front/rear	kg	1830/1140	950/770	1060/870	1280/1070
Axle loading,unladen front/rear	kg	1040/470	555/165	560/170	650/200
Tyres		polyurethane	polyurethane		
Tyre size,front	mm	φ 250x70	φ 250x70		
Tyre size rear	mm	φ 80x84	φ 80x70		
Additional wheels(dimensions)	mm	φ 150x60	φ 150x60		
Wheels,number front rear(x=driven wheels)		1x+2/4	1x+2/4		
Tread,front	b ₁ (mm)	580	586		
Tread,rear	b ₂ (mm)	404/530	410/525		
Height,mast lowered	h ₁ (mm)	1735/1985/2135/2235/2050/2210/2410	2087/1837/2087/2237		
Free lift	h ₂ (mm)	1300/1550/1700/1800/1570/1740/1940	~		
Max. Lift height	h ₃ (mm)	2500/3000/3300/3500/4500/5000/5600	1600/2500/3000/3300		
Height,mast extended	h ₄ (mm)	2955/3455/3755/3955/5030/5510/6110	2087/3087/3587/3887		
Initial lift	h ₁ (mm)	1150/1450	1150/1450		
Overall length	l ₁ (mm)	2020/2100	1955	1955	2025
Length to face of forks	l ₂ (mm)	950	840	840	920
Overall width	b ₁ (mm)	850	850		
Fork dimensions	s/e/l(mm)	60/180/1070(1150)	60/170/1070(1150)		
Width overall forks	b ₂ (mm)	570/695	580/695		
Ground clearance, centre of wheelbase	m ₂ (mm)	31	28		
Aisle width for pallets 1000x1200 crossways	A ₁ (mm)	2535	2470	2470	2550
Aisle width for pallets 800x1200 lengthways	A ₂ (mm)	2515	2540	2540	2520
Turning radius	W ₁ (mm)	1655	1575	1575	1655
Travel speed,laden/unladen	Km/h	6.5/6.7	6.5/6.7		
Lift speed,laden/unladen	m/s	0.11/0.14	0.06/0.13		
Lowering speed,laden/unladen	m/s	0.12/0.12	0.13/0.10		
Gradeability,laden/unladen	%	8/15	6/15		
Service brake		Electromagnetic		Electromagnetic	
Battery voltage,nominal capacity K5	V/Ah	24/240	24/300	24/120	24/120
Battery weight	kg	220	260	90	90
Battery dimensions l/w/h	mm	675x254x500	675x254x540	753x178x240	753x178x240
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70		70	70
Service weight (with battery)	kg	(240Ah)1180/1205/1220/1230/1280/1300/1320		700/730/750	710/740/760



Model: CDDK20

1KG=2.205LB 1INCH=25.40MM



Advantages:

SAFETY AND PRODUCTIVITY:

- AC Motor eliminates replacement of carbon brush.
- Multi-function display: battery power, fault code, hour meter and speed level;
- Side way battery is easy to maintain.
- Damping cushion for low-noise operation;
- Emergency reversing device in the handle provides higher safety for the whole operation.
- Auto deceleration function makes operation more safely.
- Built-in pressure relief valve protects the trucks from overloads, increases the reliability.
- Braking applied with handle upright and horizontal position, increasing the safety of the truck.
- Emergency power disconnect switch.
- Turtle-shaped low speed switch.
- Stepless control.
- Supporting legs in both sides improve the lateral stability of the stacker.

Optimum structural design:

- Low center of gravity ensures the stable operation.
- Vertical drive wheel ensures convenience for maintenance while also ensuring a small turning radius. The structure of motor is water-proof and dust-proof, which makes the braking and motor more durable and reliable.
- The mast and the frame are dividable and exchangeable.
- Full free lifting, fit for working in low house. (The lifting height is 3 meters, can enter into a 2-meter height door).

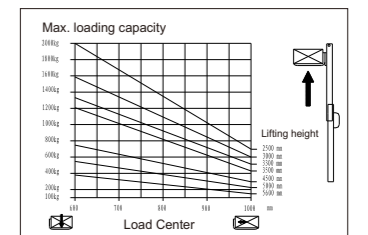
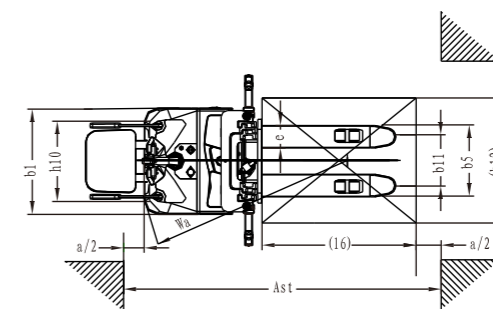
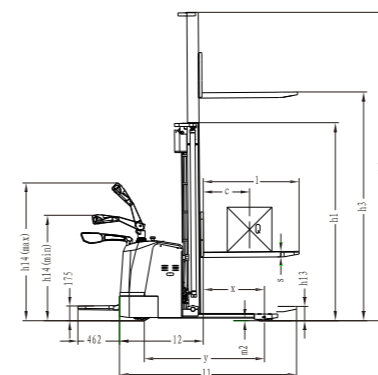
Serviceability:

- Low battery protection setting prolongs the battery use time.
- The electronic components' concentrated design simplify the circuit and makes easy access to assemble, debug and maintain,
- CANbus technology reduces wiring complexity and increase reliability.
- Hall element reduces wear components, resulting in increased component life.



Supporting legs.

MODEL	CDDK20	
Drive type	Electric	
Operation type	Standing	
Load capacity	Q(kg)	2000
Load center	c(mm)	600
Load distance	x(mm)	672
Wheelbase	Y(mm)	1378
Service weight (with battery)	kg	1550
Axle loading, laden front/rear	kg	1890/1660
Axle loading, unladen front/rear	kg	1070/480
Tyres	Polyurethane	
Tyre size, front	250×70	
Tyre size, rear	80×84	
Additional wheels (dimensions)	150×60	
Wheels, number front rear(x=driven wheels)	1x+2/4	
Tread, front	b10(mm)	580
Tread, rear	b11(mm)	404/525
Height, mast lowered	h1 (mm)	1735/1985/2135/2235/2050/2210/2410
Free lift (option)	h2(mm)	1300/1550/1700/1800/1570/1740/1940
Max. Lift height	h3(mm)	2500/3000/3300/3500/4500/5000/5600
Height, mast extended	h4(mm)	2955/3455/3755/3955/5030/5510/6110
Initial lift	h14(mm)	1150/1450
Fork height, lowered	h13(mm)	90
Overall length	l1(mm)	2020/2100
Length to face of forks	l2(mm)	950
Overall width	b1 (mm)	850
Fork dimensions	s/e/l(mm)	60/180/1070(1150)
Width overall forks	b5(mm)	570/695
Ground clearance, centre of wheelbase	m2(mm)	31
Aisle width for pallets 1000x1200 crossways	Ast(mm)	2535
Aisle width for pallets 800x1200 lengthways	Ast(mm)	2515
Turning radius	Wa(mm)	1655
Travel speed, laden/unladen	Km/h	5.8/6
Lift speed, laden/unladen	m/s	0.09/0.11
Lowering speed, laden/unladen	m/s	0.12/0.11
Gradeability, laden/unladen	%	6/15
Service brake	Electromagnetic	
Drive motor capacity	kW	1.5(AC)
Lift motor capacity	kW	3
Battery voltage, nominal capacity K5	V/Ah	24/300
Battery weight	kg	300
Battery dimensions l/w/h	mm	675×254×500
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70



High Lift Electric Stacker



Conforms to EN 1175-1:1998
EN ISO 3691-1:2008
Based on Directive 2006/42/EC

Model: CDD20M Triplex Mast

Registered international patent number:
ZL 200610049503.3

Advantages:

SAFETY AND PRODUCTIVITY:

- Emergency reversing device.
- Built-in pressure relief valve protects the trucks from overloads.
- Emergency power disconnect.
- Low speed switch in the handle.
- Stepless speed control.
- The rubber platform and safety guides increase operator safety and reduce fatigue, and they can be folded away when not in use.



STRUCTURAL:

- The side located cylinders provides operators a wide view and ensures structural stability.
- Spring-loaded castors improve lateral stability on uneven floors and enhance truck performance and service life.
- Imported steel for the mast from Germany.
- Supporting legs.

SERVICEABILITY:

- Low battery protection setting prolongs the battery use time.
- CANbus technology reduces wiring complexity and increases reliability.

Heavy Duty Lifting Height from 4.5M to 5.8M

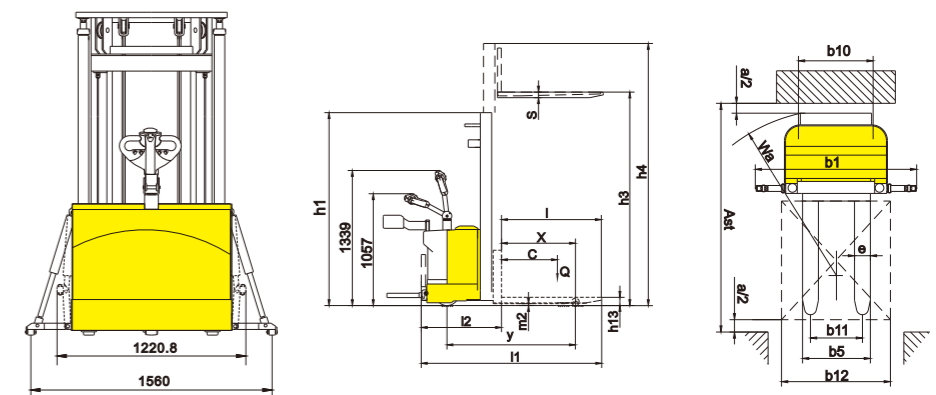
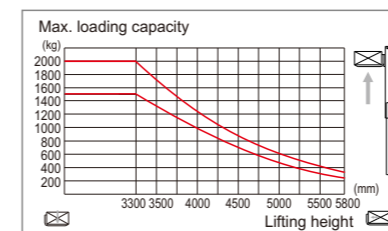
Remarks:

Heavy duty type Stacker, the full free lifting is only available for lift height from 4.5M to 5.6M.

Max lifting height	Free lifting height
4500mm	1620mm
5000mm	1780mm
5600mm	1980mm

1KG=2.205LB 1INCH=25.40MM

MODEL		CDD20M			
Drive type		electric	electric	electric	electric
Operation type		standing	standing	standing	standing
Load capacity	Q(kg)	2000	2000	2000	2000
Load centre distance	c (mm)	500	500	500	500
Load distance, centre of drive axle to fork	x (mm)	870	870	870	870
Fork height, lowered	h_{13} (mm)	90	90	90	90
Wheelbase	y (mm)	1357	1357	1357	1357
Axle loading, laden front/rear	kg	1512/1938	1574/2056	1579/2061	1591/2064
Axle loading, unladen front/rear	kg	1158/292	1299/331	1304/336	1316/339
Tyres		polyurethane	polyurethane	polyurethane	polyurethane
Tyre size, front	mm	φ 250x80	φ 250x80	φ 250x80	φ 250x80
Tyre size, rear	mm	φ 80x70	φ 80x70	φ 80x70	φ 80x70
Additional wheels(dimensions)	mm	φ 150x60	φ 150x60	φ 150x60	φ 150x60
Wheels, number front rear(x=driven wheels)		1x+2/4	1x+2/4	1x+2/4	1x+2/4
Tread, front	b_{10} (mm)	886	886	886	886
Tread, rear	b_{11} (mm)	525	525	525	525
Height, mast lowered	h_1 (mm)	2087	2337	2407	2507
Max. lift height	h_2 (mm)	4500	5300	5500	5800
Height, mast extended	h_3 (mm)	5055	5823	6033	6333
Overall length	l_1 (mm)	1955	1955	1955	1955
Length to face of forks	l_2 (mm)	805	805	805	805
Overall width	b_1 (mm)	1220.8-1630	1220.8-1630	1220.8-1630	1220.8-1630
Fork dimensions	s/e/l(mm)	60/170/1070(1150)	60/170/1070(1150)	60/170/1070(1150)	60/170/1070(1150)
Width overall forks	b_3 (mm)	580/695	580/695	580/695	580/695
Ground clearance, centre of wheelbase	m_2 (mm)	21	21	21	21
Aisle width for pallets 1000x1200 crossways	A_{12} (mm)	2464	2464	2464	2464
Aisle width for pallets 800x1200 lengthways	A_{11} (mm)	2401	2401	2401	2401
Turning radius	W_2 (mm)	1629	1629	1629	1629
Travel speed, laden/unladen	Km/h	4.5/5.6	4.5/5.6	4.5/5.6	4.5/5.6
Lift speed, laden/unladen	m/s	0.09/0.11	0.09/0.11	0.09/0.11	0.09/0.11
Lowering speed, laden/unladen	m/s	0.12/0.09	0.12/0.09	0.12/0.09	0.12/0.09
Max. gradeability, laden/unladen	%	5/10	5/10	5/10	5/10
Service brake		Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
Battery voltage,nominal capacity K_2	V/Ah	24/275	24/275	24/275	24/275
Battery weight	kg	268	268	268	268
Battery dimensions l/w/h	mm	968x206x505	968x206x505	968x206x505	968x206x505
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70	70	70	70
Service weight(with battery)	kg	1450	1630	1640	1655



Double Pallet Electric Stacker



1KG=2.205LB 1INCH=25.40MM

Model: CDDR15S

This heavy stacker includes two modes with a rated load capacity of 1500kgs. Specifically designed for intensive stocking operations at medium height warehouse. A 2000kgs load can be transported using the initial lift function.

Advantages:

- The 4- points support structure with side tiller, low center of gravity design with excellent stability.
- Double pallet design: two pallet handled at one time, initial lift of load leg increases ground clearance to negotiate easily ramps, dock levelers and bridging plates.
- Vertical driving wheel, offer small turning radius, motor is dustproof, waterproof, easy for maintenance.
- Ac motor without carbon brush, has the good ramp braking performance, efficient electromagnetic parking brake.
- Free lifting mast with two side cylinders offers wide view for operator.

AC

AC

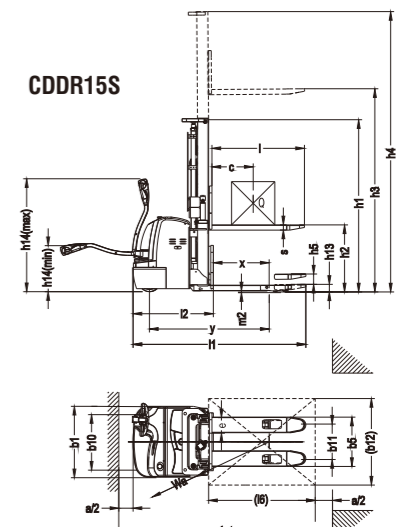
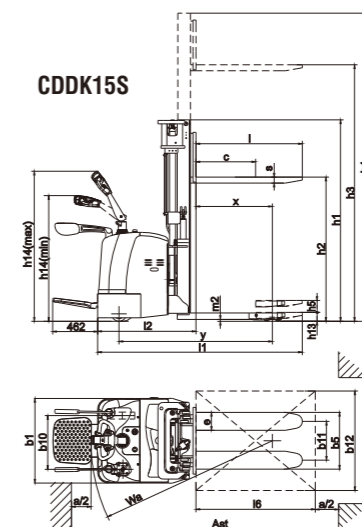
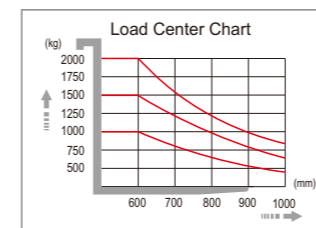
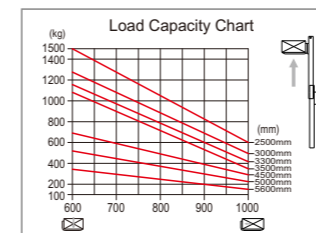


Model: CDDK15S



MODEL		CDDK15S		CDDR15S	
Drive type		electric		electric	
Operation type		standing		walkie	
Load capacity/rated load	Q(kg)	1500		1500	
Load centre distance	c(mm)	600		600	
Load distance, centre of drive axle to fork	x(mm)	768		697	
Fork height, lowered	h ₁₃ (mm)	90		90	
Wheelbase	y(mm)	1510		1465	
Axle loading, laden front/rear	kg	1480/1320		1470/1310	
Axle loading, unladen front/rear	kg	910/390		900/380	
Tyres		polyurethane		polyurethane	
Tyre size, front	mm	Φ 250X70		Φ 250×70	
Tyre size, rear	mm	Φ 80X70		Φ 80×70	
Additional wheels(dimensions)	mm	Φ 150X47		Φ 150×60	
Wheels, number front rear(x=driven wheels)		1x+1/4		1x+1/4	
Tread, front	b ₁₀ (mm)	540		520	
Tread, rear	b ₁₁ (mm)	390/515		390/515	
Height, mast lowered	h ₁ (mm)	1757/2007/2157/2257	2022/2182/2382	1757/2007/2157/2257	2022/2182/2382
Free lift	h ₂ (mm)	1300/1550/1700/1800	1570/1740/1940	1300/1550/1700/1800	1570/1740/1940
Max. lift height	h₃(mm)	2500/3000/3300/3500	4500/5000/5600	2500/3000/3300/3500	4500/5000/5600
Height, mast extended	h ₄ (mm)	2977/3477/3777/3977	4952/5442/6042	2977/3477/3777/3977	4952/5442/6042
Initial lift	h ₅ (mm)	120		120	
Height of tiller in drive position min./max.	h ₁₄ (mm)	1150/1450		670/1300	
Overall length	l ₁ (mm)	2058		1982	
Length to face of forks	l ₂ (mm)	988		878	
Overall width	b ₁ (mm)	850		820	
Fork dimensions	s/e/l(mm)	60/180/1070(1150)		60/180/1070(1150)	
Width overall forks	b ₅ (mm)	570/650		570/650	
Ground clearance, centre of wheelbase	m ₂ (mm)	17-137		15-135	
Aisle width for pallets 1000x1200 crossways	A ₁₁ (mm)	2631		2530	
Aisle width for pallets 800x1200 lengthways	A ₁₂ (mm)	2575		2500	
Turning radius	W ₂ (mm)	1786		1660	
Travel speed, laden/unladen	Km/h	6.2/6.5		5.8/6	
Lift speed, laden/unladen	m/s	0.11/0.14		0.11/0.14	
Lowering speed, laden/unladen	m/s	0.12/0.12		0.12/0.12	
Max. gradeability, laden/unladen	%	8/15		8/15	
Service brake		Electromagnetic		Electromagnetic	
Battery voltage, nominal capacity K _s	V/Ah	24/240	24/300	24/240	24/300
Battery weight	kg	220	260	220	260
Battery dimensions l/w/h	mm	675X254X500		675×254×500	
Sound level at the driver's ear acc. to DIN 12053	dB(A)	70		65	
Service weight(with battery)	kg	1260		1205	

1. With initial lift.
2. Calculated with height 3000mm, fork 1070mm.



Model: CDDRD10 CDDRD12

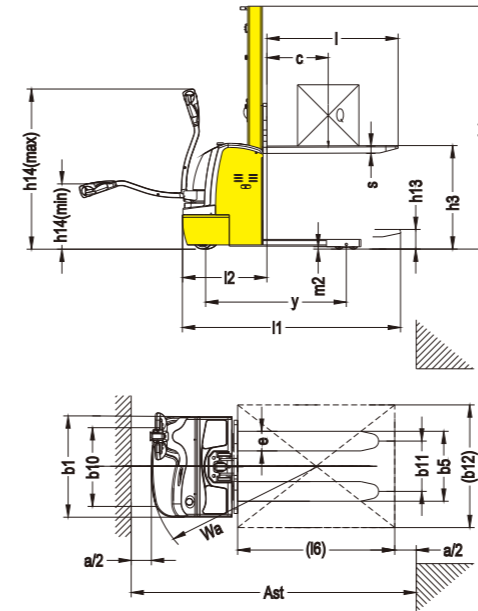


CDDRD Single Column Walkie Stacker with capacity 1000~1200kgs, with wide view mast and low service weight, mainly used in airports, supermarkets, small warehouses and logistics center, suit for indoor and outdoor use and short-distance traveling operation. Particularly applicable to work on low-force withstanding floors, environmental friendly for transport.

Advantages:

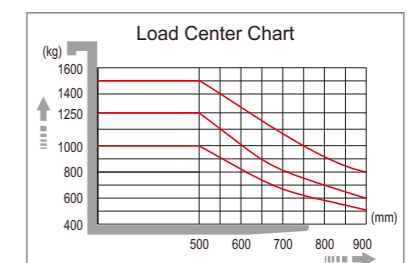
Safety and productivity :

- AC motor with high transmission efficiency, without replacing the carbon brushes, it has a good ramp starting performance.
- Low center of gravity, good stability and smooth running.
- Small minimum turning radius and excellent steering operating performance.
- Using the most advanced technology of AC variable speed, which makes the motor more reliable and maintenance-free.
- Achieving the control of both the walking speed and the lifting speed.
- With the shock device, it greatly reduce the noise.
- Sideway moving battery easy for replacement and maintenance.
- The Multi function display instrument with BDI, fault code, working time and speed display function.
- Using the built-in charger which makes it easy to disassembly according to different customers' requirement.
- Adopting Integrated electrical system, the line is clean and beautiful, it is easy to assembly and maintain.
- Using environmentally friendly maintenance-free lead-acid battery.
- Single Column mast with wide view for operator.
- Using environmentally friendly maintenance-free lead-acid battery.
- Adopting programmable control technology with fault diagnostic function.
- With emergency brake function improve the safety operation.
- With low-voltage protection function.
- With fault diagnosis and maintenance functions.
- A machine with many other functions, it can configure a variety of hydraulic lifting attachments.



1KG=2.205LB 1INCH=25.40MM

MODEL		CDDRD10	CDDRD12
Power supply		Driven by AC motor	Driven by AC motor
Operation type		Pedestrian	Pedestrian
Capacity	Q(kg)	1000	1200
Load center	c(mm)	600	600
Front hanging distance	x(mm)	630	630
Wheelbase	Y(mm)	1146	1146
Service weight (with battery)	kg	580	590
Axle loading, laden front/rear	kg	785/995	790/1000
Axle loading, unladen front/rear	kg	190/390	195/395
Tyres		polyurethane	polyurethane
Tyre size, front		φ250×70	φ250×70
Tyre size, rear		φ80×70	φ80×70
Additional wheels(dimensions)		φ150×60	φ150×60
Wheels, number front rear(x=driven wheels)		1x+1/4	1x+1/4
Tread, front	b ₂ (mm)	520	520
Tread, rear	b ₁ (mm)	400	400
Height, mast lowered	h ₁ (mm)	1980/2330	1980/2330
Lift height	h₂(mm)	1600/1950	1600/1950
Height, mast extended	h ₄ (mm)	1980/2330	1980/2330
Height of tiller in drive position min./max.	h ₃ (mm)	670/1300	670/1300
Height, lowered	h ₁₀ (mm)	90	90
Overall length	l ₁ (mm)	1780/1860	1780/1860
Length to face of forks	l ₂ (mm)	708	708
Overall width	b ₁ (mm)	820	820
Fork dimensions	s/e/l(mm)	1070/1150	1070/1150
Distance between fork-arms	b ₂ (mm)	570	570
Ground clearance,centre of wheelbase	m ₂ (mm)	30	30
Aisle width for pallets 1000x1200 crossways	A ₂ (mm)	2180	2180
Aisle width for pallets 800x1200 lengthways	A ₁ (mm)	2220	2220
Turning radius	W ₁ (mm)	1338	1338
Travel speed,laden/unladen	Km/h	5.3/5.6	5.3/5.6
Lift speed,laden/unladen	m/s	0.11/0.19	0.11/0.19
Lowering speed,laden/unladen	m/s	0.16/0.11	0.16/0.11
Gradeability,laden/unladen	%	6/15	6/15
Service brake		electromagnetic	electromagnetic
Drive motor rating S2 15 min	kW	0.8(DC)	0.8(DC)
Lift motor rating at S3 15%	kW	2.2	2.2
Battery voltage,nominal capacity K5	V/Ah	24/65	24/80
Battery weight	kg	48	50
Battery dimensions l/w/h	mm	255×165×230	255×165×230
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70	70



Counterbalanced Electric Reach Stacker



1KG=2.205LB 1INCH=25.40MM

Counterbalanced Electric Reach Stacker Capacity 1250kg~1500kg features with wide front view, low gravity, small radius, good performance, easy operation. It is the ideal option for material handling and goods stacking in narrow aisle warehouse.

Advantages:

STRUCTURAL:

- Long handle structure makes its steering light and flexible.
- Two lifting cylinders placed on outer sides of the mast, improves the lateral stability and widens operator view .
- Germany imported special steel mast.
- Adopts vertical driving wheel, with high driving efficiency and low noise, easy installation and maintenance.
- The truck has compact structure and low gravity which provides good steering stability.
- Without side plate on both side of battery box, it is good for heat dissipation and service.

SAFETY AND EFFICIENCY :

- AC frequency conversion traction motor: compact structure, good performance, regenerative braking and easy maintenance.
- The forks with tilting system easy for loading and stacker .
- The min. turning radius is 1560, which is fit for using in different narrow space.
- High Storage battery ensures strong and long-lasting power.
- Meter with BDI w/interrupt, prolonging the battery's using time.
- The braking system combines magnetic brake and regenerative break, greatly prolongs the using life of friction plate.
- With emergency stop switch and electricity lock button, and multi-valve controlling levers, ergonomic for operation .
- The adjustable regulator valve can adjust the lowering speed of the masts.

EASY MAINTENANCE

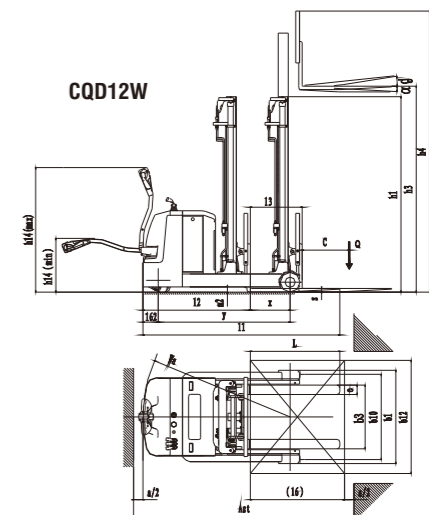
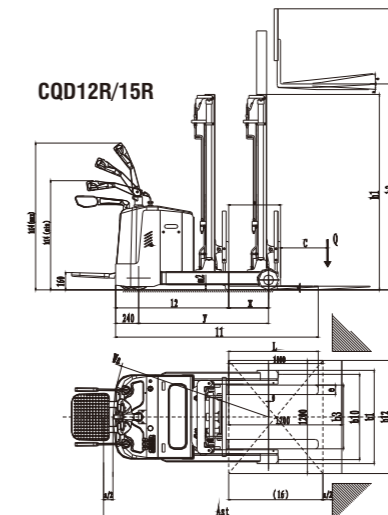
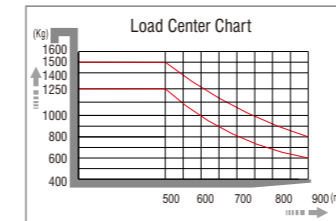
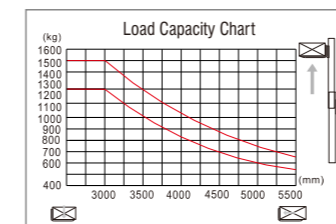
- Uses magnet suction for battery cover closing, no screw which is easy for installation and maintenance.
- AC controlling system with sensitive reaction, low noise, less maintenance and strong control ability of the speed.

Model:
CQD12R/15R

Model:
CQD12W



MODEL		CQD12W	CQD12R	CQD15R
Drive type		electric	electric	electric
Operaton type		pedestrian	Standing	Standing
Load capacity	Q(kg)	1250	1250	1500
Load center	c(mm)	500	500	500
Load distance	x(mm)	430	430	430
Wheelbase	y(mm)	1380	1380	1480
Service weight(with battery)	kg	1700	1800	2140
Axle loading, laden front/rear	kg	1100/1840	1080/2020	1290/2350
Axle loading, unladen front/rear	kg	1090/610	1200/600	1360/760
Tyres type		polyurethane	polyurethane	polyurethane
Tyre size, front	mm	Φ250x70	Φ250x70	φ250×70
Tyre size, rear	mm	Φ210x85	Φ210x85	Φ210×85
Balance wheel size	mm	Φ127x57	Φ150x60	Φ150×60
Wheels, number front rear(x = driven wheels)		1x+2/2	1x+2/2	1x+2/2
Tread rear	b_{r0} (mm)	908	908	908
Tread front	b_{f1} (mm)	0	612	612
Mast/Forks ;obliquity front/back	°	3/6	3/6	3/6
Height, mast lowered	h_1 (mm)	2070/2320/1920/2080/2250	2070/2320/1920/2080/2250	2118/2400/1953/2128/2298
Free lift (option)	h_2 (mm)	0/0/1386/1550/1720	0/0/1386/1550/1720	0/0/1280/1480/1600
Lifting height	h_3(mm)	3000/3500/4000/4500/5000	3000/3500/4000/4500/5000	3000/3500/4000/4500/5000
Height, mast extended	h_4 (mm)	3800/4300/4800/5300/5800	3800/4300/4800/5300/5800	3800/4300/4800/5300/5800
Height of tiller in drive position min./max.	h_{t4} (mm)	570/1320	1160/1460	1160/1460
Overall length	l_1 (mm)	2080	2150	2250
Length to face of fork	l_2 (mm)	1130	1200	1200
Overall width	b_1 (mm)	990	990	990
Fork dimension	s/e/l(mm)	35/100/950(1070/1150)	35/100/950(1070/1150)	35/100/950(1070/1150)
Fork carriage width	b_3 (mm)	680	680	680
Reach distance	l_3 (mm)	560	560	650
Ground clearance, center of wheelbase	m_2 (mm)	55	55	55
Aisle width for pallets 1000x1200 crossways	A_{w1} (mm)	2500	2600	2700
Aisle width for pallets 800x1200 lengthways	A_{w2} (mm)	2550	2650	2750
Turning radius	W_t (mm)	1550	1650	1750
Travel speed, laden/unlanden	Km/h	5.5/6	5.5/6	6.8/7
Lifting speed, laden/unlanden	m/s	0-0.13/0-0.2	0-0.13/0-0.2	0.13/0.2
Lowering speed, laden/unlanden	m/s	0--0.42/0--0.41 (adjustable)	0--0.42/0--0.41 (adjustable)	0--0.42/0--0.41 (adjustable)
Gradeability, laden/unlanden	%	6/10	6/10	6/10
Brake		Electromagnetic braking system	Electromagnetic braking system	Electromagnetic braking system
Battery voltage, nominal capacity K5	V/Ah	24/270	24/270	24/270
Battery weight	kg	260-320	260-320	260-320
Battery dimensions (l/W/H)	mm	825x213x590	825x213x590	825×213×590
Sound lever at the driver's ear acc. To DIN 12053	dB (A)	65	65	65



Counterbalanced Electric Stacker



1KG=2.205LB 1INCH=25.40MM

Counterbalanced Electric Stacker Capacity 1500kg

features with wide front view, low gravity, small radius, good performance, easy operation. It is the ideal option for material handling and goods stacking in narrow aisle warehouse.

Advantages:

STRUCTURAL:

- Long handle structure makes its steering light and flexible.
- Two lifting cylinders placed on outer sides of the mast, improves the lateral stability and widens operator view .
- Germany imported special steel mast.
- Adopts vertical driving wheel, with high driving efficiency and low noise, easy installation and maintenance.
- The truck has compact structure and low gravity which provides good steering stability.
- Without side plate on both side of battery box, it is good for heat dissipation and service.

SAFETY AND EFFICIENCY :

- AC frequency conversion traction motor: compact structure, good performance, regenerative braking and easy maintenance.
- The forks with tilting system easy for loading and stacker .
- The min. turning radius is 1560, which is fit for using in different narrow space.
- High Storage battery ensures strong and long-lasting power.
- Meter with BDI w/interrupt, prolonging the battery's using time.
- The braking system combines magnetic brake and regenerative break, greatly prolongs the using life of friction plate.
- With emergency stop switch and electricity lock button, and multi-valve controlling levers, ergonomic for operation .
- The adjustable regulator valve can adjust the lowering speed of the masts.

EASY MAINTENANCE

- Uses magnet suction for battery cover closing, no screw which is easy for installation and maintenance.
- AC controlling system with sensitive reaction, low noise, less maintenance and strong control ability of the speed.

AC



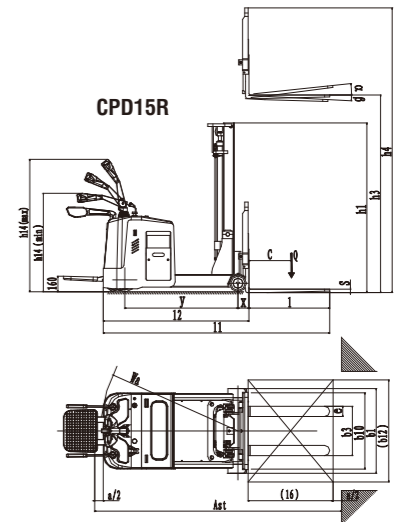
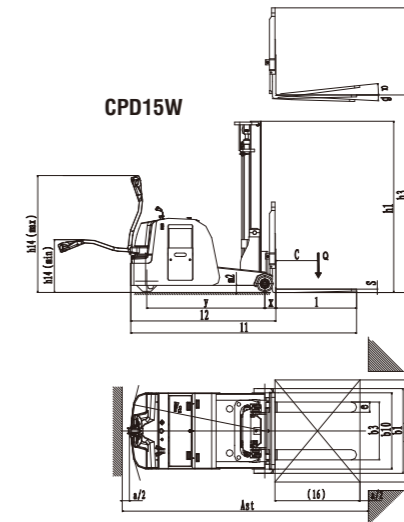
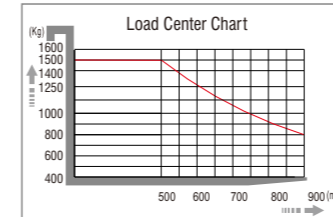
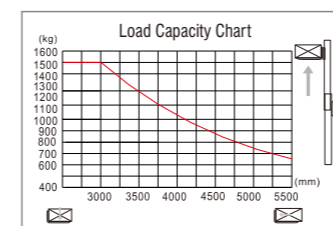
Model:
CPD15W



Model:
CPD15R

AC EPS

MODEL		CPD15W	CPD15R(EPS)	CPD15R
Drive type		electric	electric	electric
Operaton type		pedestrian	Standing	Standing
Load capacity	Q(kg)	1500	1500	1500
Load center	c(mm)	500	500	500
Load distance	x(mm)	130	130	130
Wheelbase	y(mm)	1380	1330	1330
Service weight(with battery)	kg	2080	2030	2030
Axle loading, laden front/rear	kg	460/3120	420/3110	420/3110
Axle loading, unladen front/rear	kg	1080/1000	1170/860	1170/860
Tyres type		polyurethane	polyurethane	polyurethane
Tyre size, front	mm	Φ250×70	Φ280×100	Φ250×70
Tyre size, rear	mm	Φ200×100	Φ200×100	Φ200×100
Balance wheel dimension	mm	~	~	Φ150×60
Wheels, number front rear(x = driven wheels)	mm	1x/2	1x/2	1x+2/2
Tread rear	b_{10} (mm)	890	890	890
Tread front	b_{11} (mm)	0	0	612
Mast /Forks obliquity front/back	°	3/6	3/6	3/6
Height, mast lowered	h_1 (mm)	1985/2435/1895/2085/2335/2435	1985/2435/1895/2085/2335/2435	1985/2435/1895/2085/2335/2435
Free lift (option)	h_2 (mm)	0/0/1400/1500/1670/1870	0/0/1400/1500/1670/1870	0/0/1400/1500/1670/1870
Lifting height	h_3(mm)	3000/3500/4000/4500/5000/5600	3000/3500/4000/4500/5000/5600	3000/3500/4000/4500/5000/5600
Height, mast extended	h_4 (mm)	4000/4500/5000/5500/6000/6600	4000/4500/5000/5500/6000/6600	4000/4500/5000/5500/6000/6600
Height of tiller in drive position min./max.	h_{14} (mm)	730/1360	1160/1460	1160/1460
Overall length	l_1 (mm)	2650	2660	2660
Length to face of fork	l_2 (mm)	1700	1700	1700
Overall width	b_1 (mm)	990	990	990
Fork dimension	s/e/l(mm)	35/100/950(1070)	35/100/950(1070)	35/100/950(1070)
Width overall forks	b_3 (mm)	680	680	680
Ground clearance, center of wheelbase	m_2 (mm)	55	55	55
Aisle width for pallets 1000x1200 crossways	A_{21} (mm)	2950	2990	2990
Aisle width for pallets 800x1200 lengthways	A_{22} (mm)	3070	3120	3120
Turning radius	W_1 (mm)	1570	1600	1600
Travel speed, laden /unladen	Km/h	5.8/6	5.8/6	6.8/7
Lifting speed, laden /unladen	m/s	0--0.12/0--0.19	0--0.12/0--0.19	0.12/0.19
Lowering speed, laden /unladen	m/s	0--0.42/0--0.41	0--0.42/0--0.41	0--0.42/0--0.41
Gradeability , laden /unladen	%	6/10	6/10	6/10
Brake		Electromagnetic braking	Electromagnetic braking	Electromagnetic braking
Battery voltage , nominal capacity K5	V/Ah	24/320	24/320	24/320
Battery weight	kg	300-360	300-360	300-360
Battery dimensions (l/W/H)	mm	812x270x620	812x270x620	812x270x620
Sound lever at the driver's ear acc. To DIN 12053	dB(A)	65	65	65



Electric Reach Stacker



Model: CQDH12A CQDH15A CQDH20A

Advantages:

- Compact structure makes it's easy to be used in narrow aisle.
- Stepless speed control, smooth/controllable speed
- Reach distance up to 500mm.
- Fork can be tilted forward 3 degree or backward 5 degree.
- Intelligentized regenerative brake system.
- Option: 1) Side shift; 2) Full free lifting mast; 3) EPS (with vertical driving wheel).



Option: Double scissors forks



Option: Frei Tiller Head

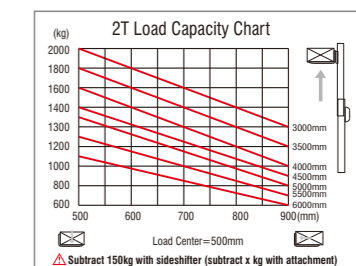
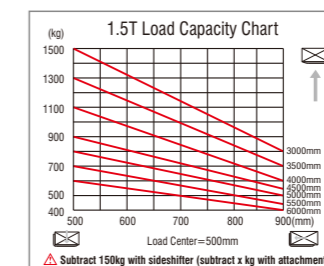
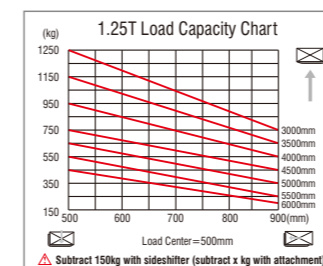
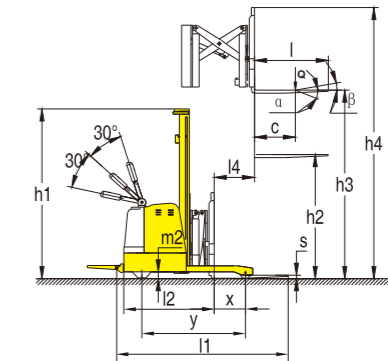
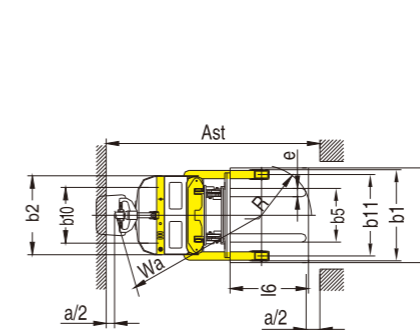


AC

EPS

1KG=2.205LB 1INCH=25.40MM

MODEL		CQDH12A	CQDH15A	CQDH20A
Drive type		electric	electric	electric
Operation type		standing	standing	standing
Load capacity/rated load	Q(kg)	1250	1500	2000
Load centre distance	c(mm)	500	500	500
Load distance,centre of drive axle to fork	x(mm)	375	365	365
Wheelbase	Y(mm)	1290/1290/1290/1290/1290/1380/1380/1380	1285/1285/1285/1285/1359/1359/1350	1405/1405/1405/1405/1405/1425/1425/1425
Service weight(with battery)	kg	1370/1405/1440/1470/1500/1870/1970/2070	2050/2050/2100/2150/2150/2250/2330/2420	2430/2430/2450/2500/2500/2600/2680/2750
Wheels		polyurethane	polyurethane	polyurethane
Tyre size,front	mm	φ 250x82 + 150x65	φ 250x82 + 150x65	φ 250x82 + 150x65
Tyre size,rear	mm	φ 150x82x2	φ 125x82x4	φ 125x82x4
Wheels,number front rear(x=driven wheels)		1+2+2	1+2+4	1+2+4
Tread,front	b ₀ (mm)	670	670	670
Tread,rear	b ₁ (mm)	1050-1100	1100-1200	1100-1200
Mast/fork-angle front/rear		2/5	2/5	2/5
Height,mast lowered	h ₁ (mm)	1635/1885/2135/2385/2635/2235/2395/2560	1640/1890/2140/2390/2640/2200/2360/2520	1640/1890/2140/2390/2640/2200/2360/2520
Free lift	h ₂ (mm)	~ / ~ / ~ / ~ / ~ /1575/1700/1825	~ / ~ / ~ / ~ / ~ /1575/1700/1825	~ / ~ / ~ / ~ / ~ /1575/1700/1825
Max. lift height	h₃(mm)	2000/2500/3000/3500/4000/4500/5000/5500	2000/2500/3000/3500/4000/4500/5000/5500	2000/2500/3000/3500/4000/4500/5000/5500
Height,mast extended	h ₄ (mm)	3070/3570/4070/4570/4920/5570/6070/6570	3070/3570/4070/4570/4920/5570/6070/6570	3070/3570/4070/4570/4920/5570/6070/6570
Overall length	l ₁ (mm)	2185/2185/2185/2185/2235/2235/2235/2235	2175/2175/2175/2175/2175/2190/2190/2190	2175/2175/2175/2175/2175/2190/2190/2190
Length to face of forks	l ₂ (mm)	1125	1125	1250
Overall width	b ₁ /b ₂ (mm)	1170-1270/950	1240-1600/950	1250-1600/950
Fork dimensions	s/e/l(mm)	35x100x1070	40x100x1070	40x100x1070
Reach distance	l ₄ (mm)	500	500	500
Ground clearance,centre of wheelbase	m ₁ (mm)	65	50	50
Aisle width for pallets 1000x1200 crossways	A ₁ (mm)	2650/2650/2650/2650/2650/2680/2680/2680	2600/2600/2600/2600/2600/2630/2630/2630	2720/2720/2720/2720/2720/2750/2750/2750
Aisle width for pallets 800x1200 lengthways	A ₂ (mm)	2650/2650/2650/2650/2650/2680/2680/2680	2600/2600/2600/2600/2600/2630/2630/2630	2720/2720/2720/2720/2720/2750/2750/2750
Turning radius	W ₁ (mm)	1750/1750/1750/1750/1750/1780/1780/1780	1700/1700/1700/1700/1700/1730/1730/1730	1800/1800/1800/1800/1800/1830/1830/1830
Travel speed,laden/unladen	Km/h	4.5/5 / 4.8/5	4.8/5	4.8/5
Lift speed,laden/unladen	m/s	0.095/0.12	0.095/0.12	0.095/0.12
Lowering speed,laden/unladen	m/s	0.2/0.15	0.2/0.15	0.2/0.15
Gradeability,laden/unladen	%	5/12	5/12	5/12
Service brake		Electromagnetic	Electromagnetic	Electromagnetic
Battery voltage,nominal capacity k5	V/Ah	24/320	24/320(460)	24/450(525)
Battery weight	kg	275	275(300)	325(350)
Battery dimensions	mm	812x270x535	812x270x535	812x324x575
Sound level at the driver's ear acc. To DIN 12053	dB(A)	70	75	75



Model: CDDRM

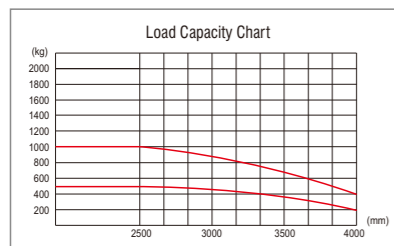
Advantages:

STRUCTURE AND SAFETY

- Vertical driving wheel has excellent performance and stable quality
- USA imported AC control system with sensitive reaction and low noise
- Germany imported handle assembly is stable and flexible to operate.
- Germany imported mast U-steel is safety and durable.
- Balance weight in the rear, no fixed straddle legs in the front.
 - a) The forks can enter into the bottom of cargos which has small clearances from the ground.
 - b) Very easily to operate at any open space to stack goods.

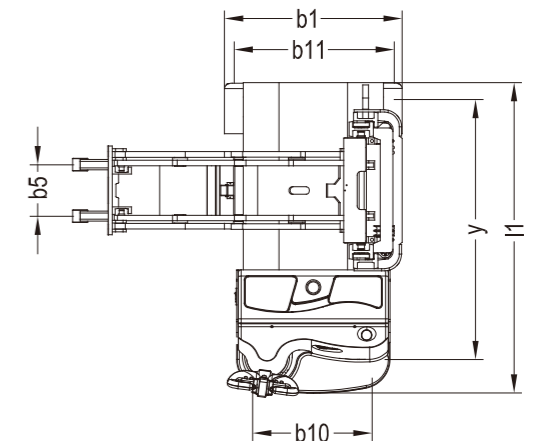
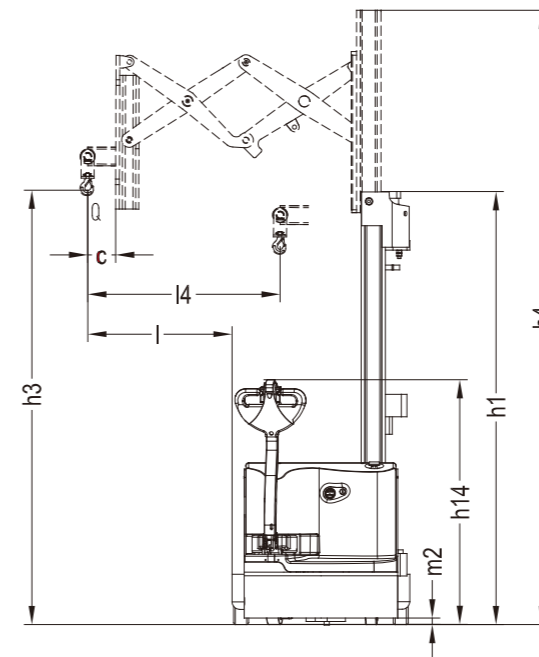
EASY MAINTENANCE

- Imported power display instrument has low voltage alarm lamp.
- It adopts imported AC driving motor: compact structure, good performance, regenerative braking and easy maintenance.
- Use large capacity battery which provides strong and long lasting power
- Sideway moving battery which is convenient for charging and maintenance
- With BDI and BDI/Interrupt to protect the battery , to prolong the battery's use time.
- **Sideshift and forks available.**



1KG=2.205LB 1INCH=25.40MM

MODEL		CDDRM-05	CDDRM-10
Drive type		electric	electric
Operation type		walkie	walkie
Load capacity/rated load	Q(kg)	500	1000
Load centre distance	c(mm)	190	190
Load distance,centre of drive axle to fork	Y(mm)	1365	1365
Tyres		polyurethane	polyurethane
Tyre size, front	(mm)	φ 250x70	φ 250x70
Tyre size, rear	(mm)	φ 250x80	φ 250x80
Additional wheels(dimensions)	(mm)	φ 150x60	φ 150x60
Wheels, number front rear(x=driven wheels)		1x+1/2	1x+1/2
Tread, front	b_{10} (mm)	520	520
Tread, rear	b_{11} (mm)	855	1005
Mast height lowered	h_1 (mm)	2310	2310
Lifting height	h_3(mm)	3300	3300
Mast height extended	h_4 (mm)	4165	4165
Height of tiller in drive position min./max.	h_{14} (mm)	670/1300	670/1300
Lowered fork height	l (mm)	850	850
Overall length	l_1 (mm)	1000	1000
Length to face of forks	l_2 (mm)	1657	1657
Overall width	b_1 (mm)	950	1100
Hook lifting distance	b_5 (mm)	200	200
Ground clearance, centre of wheelbase	m_2 (mm)	35	35
Aisle width	A_{st} (mm)	1150	1150
Turning radius	W_r (mm)	1560	1560
Travel speed, laden/unladen	Km/h	3.8/4	3.8/4
Lift speed, laden/unladen	m/s	0.09/0.12	0.09/0.12
Lowering speed, laden/unladen	m/s	0.14/0.12	0.14/0.12
Max.gradeability, laden/unladen	%	6/10	6/10
Service brake		Electro magnetic	Electro magnetic
Battery voltage, nominal capacity K_3	V/Ah	24/240	24/240
Battery weight	kg	240	240
Battery box dimensions	mm	800x254x320	800x254x320
sound lever at th driver's ear acc.to DIN12503	dB(A)	70	70
Service weight(without battery)	kg	2280	3000



Electric High Lever Order Picker



Model: OPS15

AC



Advantages:

- Low gravity centre provides good stability.
- Advanced electric steering technology(EPS) is humanized designed, with automatic reset , height display and automatic deceleration at high lifting lever .
- Finger tip control via joystick, Stepless speed control for driving , lifting and lowering speed is adjustable .
- Buffer oil cylinder: the oil cylinder will automatic decelerate when off ground 500mm, to prevent impact and lower noises.
- The mast and the frame are dividable and exchangeable.
- Low battery protection setting prolongs the battery use time.
- AC motor eliminates replacement of the carbon brush, provides good ramp starting performance and regenerative breaking functions.
- Sideway battery is convenient for exchanging and maintaining .
- The mast material is the special type imported from Germany.
- The truck can automatic decelerate when quick turning.
- High performance multi-function instrument has LED light and display function. LED indicators include battery indicator, fault indicator, Electric thermometer indicator, pedal indicator and hand break indicator.
- Multi function display, include battery status, performance, working hour, accelerator, speed, the wheel position and traveling direction.
- Press right and left keys to switch for different grades: high, normal, low, and lowest.



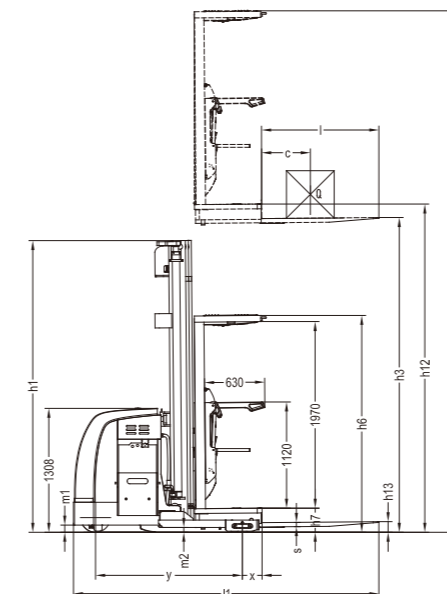
Pallet Lock device



Steering and speed adjusting device

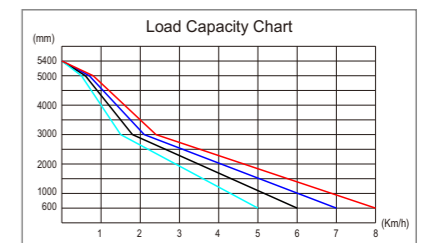
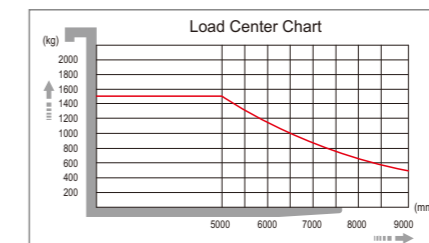
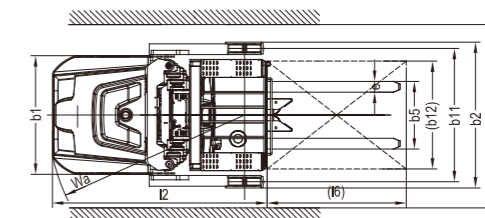


Light and fan



1KG=2.205LB 1INCH=25.40MM

MODEL	OPS15	
Drive type	Battery	
Operation type	Order Picker	
Load capacity/rated load	Q(kg)	1500
Load centre distance	c(mm)	600
Load distance, centre of drive axle to fork	x(mm)	206
Wheelbase	y(mm)	1236
Axle loading, laden front/rear	kg	4320/1360
Axle loading, unladen front/rear	kg	1960/2220
Tyres	polyurethane	
Tyre size, front	mm	φ 310x125
Tyre size, rear	mm	φ 128x73
Additional wheel	mm	φ 150x47
Wheels, number front rear (x=driven wheels)	1x+2/4	
Tread, rear	b ₁₁ (mm)	1236
Height, mast lowered	h ₁ (mm)	2410/3080/3750
Lifting Height	h₃(mm)	5000/7000/9000
Height , mast extended	h ₄ (mm)	7230/9230/11230
Height of platform	h ₇ (mm)	230
lowed height	h ₁₃ (mm)	80
Overall length	l ₁ (mm)	3200
Coupling height	l ₂ (mm)	1975
Overall length	b ₁ /b ₂ (mm)	1100/1352
Forks length	s/e/l(mm)	45/100/1220
Overall width	b ₂ (mm)	530/715
height of ovehead guard	h ₆ (mm)	2290
Ground clearance , laden, below mast	m ₁ (mm)	76
Ground clearance , centre of wheelbase	m ₂ (mm)	51
Aisle width for pallets 1000x1200 crossways	A _w (mm)	1400
Aisle width for pallets 800x1200 lengthways	A _l (mm)	1400
Turning radius	W ₁ (mm)	1800
Travel speed, laden/unladen	Km/h	7.7/8
Lift speed, laden/unladen	m/s	0—0.15/0—0.28
Lowering speed, laden/unladen	m/s	0—0.28/0—0.3
Max.gradeability, laden/unladen	%	5/10
Service brake	Electromagnetic	
Battery voltage, nominal capacity K5	V/Ah	24/770(1100)
Battery weight	kg	610(850)
Battery dimensions L/w/h	mm	982x397x561
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70
Service weight (with battery)	kg	3870



Narrow Aisle Truck



Model: CDD15C



Advantages:

SAFETY AND PRODUCTIVITY:

- Advanced AC control system eliminating the motor brushes, with Intelligentized regenerative brake system.
- Adjustable driving speed. 4 levels, from 3km to 10km.
- EPS (electric power steering) system makes steering operation easily, flexibly and more safely.
- Finger-tip control via joystick: driving speed (4 levels), lifting & lowering speed, opening/closing stabilizer.
- Stabilizers (at certain lifting height) which can work manually or automatically enhance stability and safety when stacking cargo.
- Applicable in double pallets function while forks are lifting up.
- Built-in pressure relief valve protects truck from overloading.
- Multi-function display: battery state, working hour meter, fault status, driving speed (4 levels), angel indicator of rear steering wheel, etc.
- Low placed battery offers lower center of gravity and better stability. Battery capacity up to 400Ah.
- Side battery with roll-out system is very convenient to replace batteries.
- Damping cushion for low-noise operation.
- Emergency power disconnect.

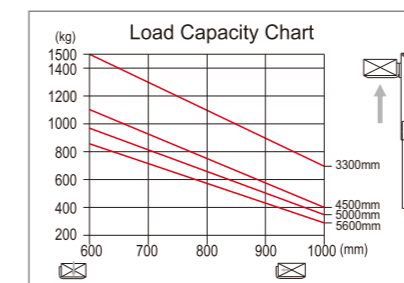
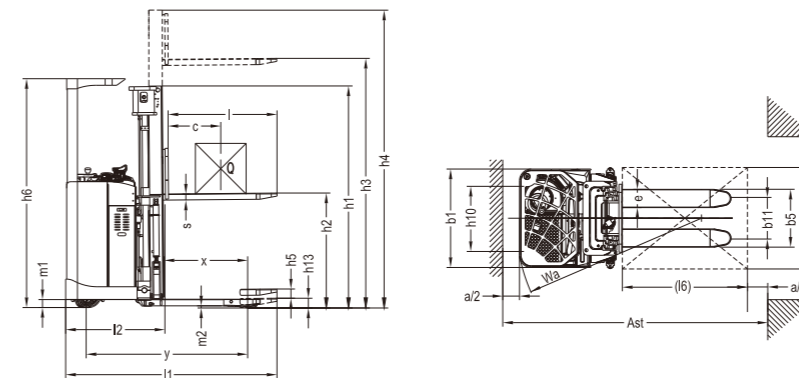
STRUCTURAL:

- Compact truck with "Heavy duty" constructed.
- Low center of gravity ensures stability.
- Wide view masts with clear visibility.
- Masts are detachable from truck frame and with good interchangeability.
- Low step and sensitive dead-man pedal offers comfortable operation.
- Narrower overhead guard towards front, to ensure less possibility to get "hooked" into something.
- Availability of 360 degree steering offers smallest turning radius 1800mm.
- Adjustable steering wheel and arm support give driver the most comfortable feeling.
- Drive wheel and balanced wheel are combined together to ensure stability.

SERVICE ABILITY:

- The low voltage protection system prolongs battery life.
- CANbus technology reduces wiring complexity and increases reliability and service friendly.
- Improved battery plug system makes battery to be connected/disconnected for charging more easily.

MODEL		CDD15C
Drive		electric
Operator type		standing
Load capacity/rated load	Q(kg)	1500
Load centre distance	c(mm)	600
Load distance, centre of drive axle to fork	x(mm)	745
Wheelbase	y(mm)	1540
Service weight (with battery)	kg	1960
Axle loading, laden front/rear	kg	1750/1710
Axle loading, unladen front/rear	kg	1430/530
Tyres		Polyurethane
Tyre size, front	mm	φ 250x100
Tyre size rear	mm	φ 80x70
Additional wheels(dimensions)	mm	φ 150x47
Wheels, number front rear(x=driven wheels)		1x+2/4
Tread, front	b ₁₀ (mm)	611
Tread, rear	b ₁₁ (mm)	390
Height, mast lowered	h ₁ (mm)	2022/2182/2382
Free lift	h ₂ (mm)	1570/1740/1940
Max. lift height	h₃(mm)	4500/5000/5600
Height, mast extended	h ₄ (mm)	5020/5520/6120
Initial lift	h ₅ (mm)	120
Height, lowered	l ₁₃ (mm)	90
Overall length	l ₁ (mm)	2090
Length to face of forks	l ₂ (mm)	1020
Overall width	b ₁ /b ₂ (mm)	970
Fork dimensions	s/e/l(mm)	60/180/1070(150)
Distance between fork-arms	b ₃ (mm)	570
Height of overhead guard(cabin)	h ₆ (mm)	2255
Ground clearance, laden, below mast	m ₁ (mm)	80
Ground clearance, centre of wheelbase	m ₂ (mm)	17~137
Aisle width for pallets 1000x1200 crossways	A ₁ (mm)	2650
Aisle width for pallets 800x1200 lengthways	A ₂ (mm)	2610
Turning radius	W ₃ (mm)	1800
Travel speed, laden/unladen	Km/h	8.5/10
Lift speed, laden/unladen	m/s	0-0.11/0-0.16
Lowering speed, laden/unladen	m/s	0-0.30/0-0.14
Gradeability, laden/unladen	%	8/15
Service brake		Electromagnetic
Battery voltage,nominal capacity K ₃	V/Ah	24/400
Battery weight	kg	330
Battery dimensions l/w/h	mm	675x254x760
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70



AC

EPS



Multi-function display



Finger-tip joystick and adjustable arm support



Manual or automatic stabilizers switch



Stabilizers Side-way Battery

Narrow Aisle Forklift Truck



Model: CPD10A/10B

Advantages:

- Advanced AC control system with MOSFET delivers smooth driving speed control for precise.
- Small turning radius, easy and smart to operate.
- Lean-on compartment offer comfortable and safe driving position, reducing operator's fatigue.
- With regenerative braking system for driving and electronic braking system for parking.
- Low Battery Protection setting prolongs service life in reversing mode and reduce the brake pedal using and reduce operator efforts.
- With deadman switch on floor to cut off the power when operator leave the foot from cab.
- Lifting cylinders on the both of mast provides best visibility.
- The optional of Full Hydraulic Steering System and **Electric Power Steering(EPS)** offers follow advantages :
Steering wheel automatic reset.
Travelling speed automatically slow down when steering.
Show the turning angles on the display.



Conforms to EN 1726-1/A1:2003
Based on Directive 2006/42/EC

Registered International
Patent No. :
000469739-0001



Multi function display



Comfortable operation compartment with adjustable supporting plate

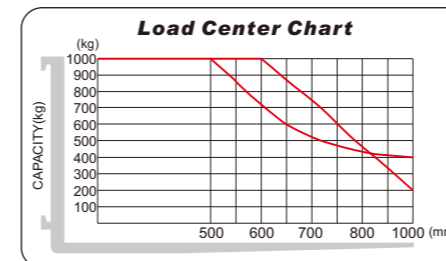
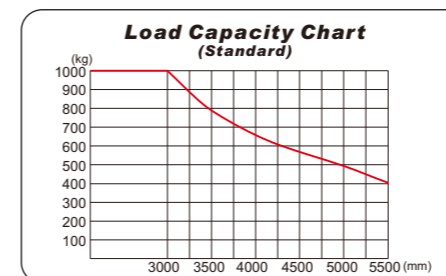
AC

EPS

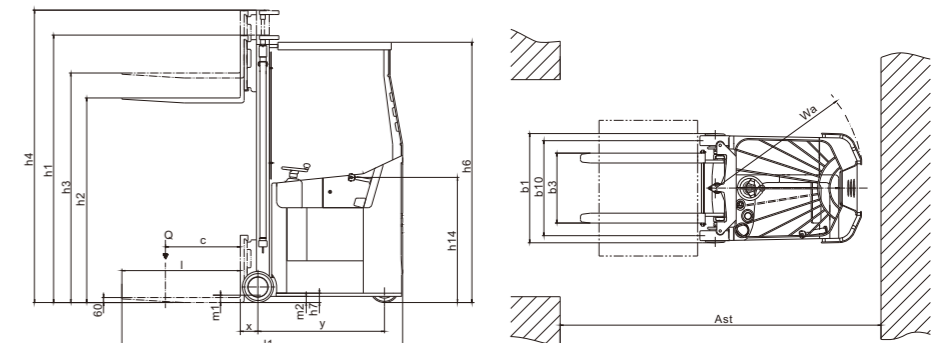
Remark:

- CPD10AC / CPD10BC with side shifter.
- CPD10BZ with full free lift mast.

MODEL		CPD10A	CPD10AC	CPD10B	CPD10BC	CPD10BZ
Power		electric	electric	electric	electric	electric
Operation type		standing	standing	standing	standing	standing
Capacity/rated load	Q(kg)	1000	1000	1000	1000	1000
Load centre distance	c(mm)	600	600	500	500	500
Lift height	h_1 (mm)	3000	3000	5000	5000	5000
Load distance, centre of drive axle to fork	x(mm)	140	205	180	210	186
Wheelbase	y(mm)	975	1037	1015	1015	1015
Service weight (with battery)	kg	2050	2075	2150	2175	2170
Axle loading, laden front/rear	kg	2580/500	2580/500	2700/500	2700/500	2700/500
Axle loading, unladen front/rear	kg	800/1250	800/1250	950/1250	950/1250	950/1250
Tyres type		polyurethane	polyurethane	polyurethane	polyurethane	polyurethane
Tyre size, front	mm	Φ 250x80	Φ 250x80	Φ 250x80	Φ 250x80	Φ 250x80
Tyre size, rear	mm	Φ 280x100	Φ 280x100	Φ 280x100	Φ 280x100	Φ 280x100
Variation of side shifter, left / right	mm	0	100/100	0	100/100	0
Tread, front	b_{10} (mm)	770	770	770	770	770
Tilt of mast/fork carriage forward/backward	Grad	0	0	0	0	0
Height, mast lowered	h_1 (mm)	2155	2155	2255	2250	2250
Free lift	h_2 (mm)	1600	1600	~	~	1600
Height, mast extended	h_4 (mm)	3565	3565	5600	5600	5600
Height of overhead guard(cabin)	h_5 (mm)	2090	2090	2090	2090	2090
Seat height/stand height	h_7 (mm)	75	75	75	75	75
Height of tiller in drive position min./max.	h_{11} (mm)	1000	1000	1000	1000	1000
Overall length	l_1 (mm)	2210	2270	2250	2290	2290
Overall width	b_1 (mm)	850	850	850	850	850
Fork dimensions	s/e/l(mm)	36/100/950	36/100/950	36/100/950	36/100/950	36/100/950
Fork carriage DIN 15173, class/type A,B	II/A	II/A	II/A	II/A	II/A	II/A
Fork-carriage width	b_2 (mm)	560	560	560	560	560
Ground clearance, laden, below mast	m_1 (mm)	60	60	60	60	60
Ground clearance, centre of wheelbase	m_2 (mm)	50	50	50	50	50
Aisle width for pallets 1000x1200 crossways	A_{10} (mm)	2600	2700	2680	2700	2700
Aisle width for pallets 800x1200 lengthways	A_{11} (mm)	2750	2850	2800	2850	2850
Turning radius	W_1 (mm)	1140	1200	1180	1220	1220
Internal turning radius	b_{13} (mm)	1140	1200	1180	1220	1220
Travel speed, laden/unladen	Km/h	5.8/6.0	5.8/6.0	5.8/6.0	5.8/6.0	5.8/6.0
Lift speed, laden/unladen	m/s	0.11/0.15	0.11/0.15	0.15/0.25	0.15/0.25	0.15/0.25
Lowering speed, laden/unladen	m/s	0.15/0.11	0.15/0.11	0.08/0.10	0.08/0.10	0.08/0.10
Max. drawbar pull, laden/unladen	N	2000/2050	2000/2050	2000/2050	2000/2050	2000/2050
Gradeability, laden/unladen	%	8/12	8/12	8/12	8/12	8/12
Max. gradeability, laden/unladen	%	10/15	10/15	10/15	10/15	10/15
Acceleration time, laden/unladen	s	6.5/5.5	6.5/5.5	6.5/5.5	6.5/5.5	6.5/5.5
Battery acc. To DIN 43531/35/36 A,B,C,no	DIN	DIN	DIN	DIN	DIN	DIN
Battery voltage, nominal capacity K5	V/Ah	24/360	24/360	24/360	24/360	24/360
Battery weight	Kg	355	355	355	355	355
Battery dimensions l/w/h	mm	610x278x690	610x278x690	610x278x690	610x278x690	610x278x690
Type of drive control		AC	AC	AC	AC	AC
Operating pressure for attachments	bar	120	120	120	120	120
Oil valume for attachments	l/min	6	6	6	6	6
Sound level at the driver's ear acc.to DIN 12053	dB(A)	68	68	68	68	68



DIMENSIONS



Model: CQDH15C

AC
EPS
Option

Hot Sale



Advantages:

SAFETY AND STABILITY

- Advanced AC control system eliminating the motor brushes and directional contactor, which makes the minimal maintenance requirements.
- Stepless speed control Intelligent regenerative brake system: increase overall truck performance by decreasing battery charge intervals.
- Equipped with adjustable hand-rest, adapted to different operator.
- Multi-function display: battery status, hour meter, fault indicator etc.
- Two sides-way battery with roll-out system is very convenient to replace batteries.
- Damping cushion for low-noise operation.
- Built-in pressure relief valve protects the trucks from overloads.
- Emergency power disconnect.

STRUCTURAL

- Low Center of Gravity ensures the stable operation.
- Vertical driving wheel has a small turning radius and easy to maintain. The motor structure is water-proof and dust-proof.
- The Scissor Reach Forks is operated by electric controller, which makes operation stable and no impact.

SERVICEABILITY

- Low battery protection setting prolongs the battery use time.
- CANbus technology reduces wiring complexity and increase reliability.
- All pivot points have grease fitting and serviceable bushing, reducing component wear and extending component life.
- The back cover is easy to open for maintenance and adjustment of parts of valve, oil tube and electronic parts.

Option:

- Straddle legs
- Double front wheels
- Double scissors
- Full free lift masts



Vertically mounted drive motor with CANbus technology reduces wiring complexity and increase reliability.



Large cab with dead man power off switch, Multi-function display: battery state, hour metre, fault indicator etc.



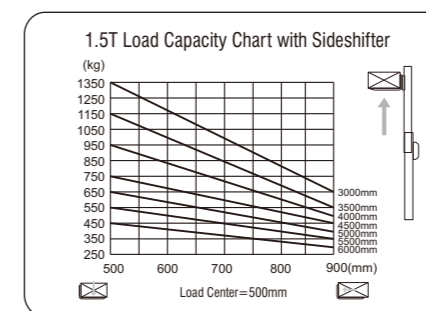
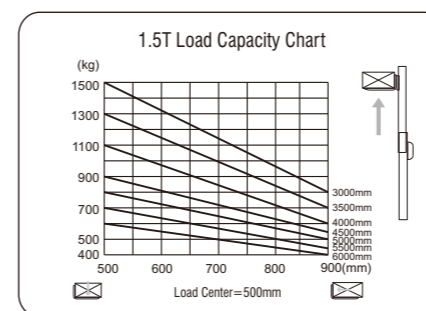
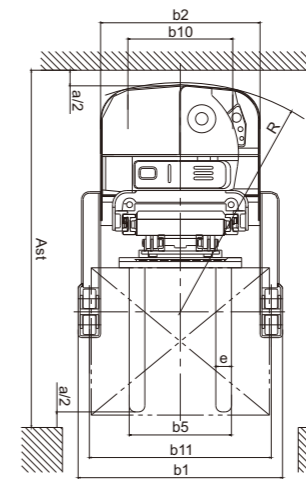
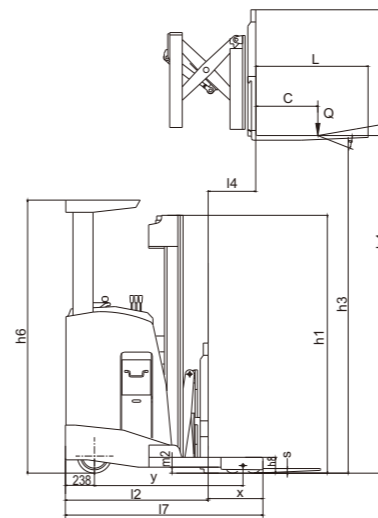
The optional of Double scissors forks.
The optional of sideshifter.



Side battery with roll-out system is very convenient to replace batteries. The battery upside cover makes you easy to fill the battery.

MODEL	CQDH15C (two-stage mast)						CQDH15C (three-stage mast)								
	electric			electric			electric			electric					
Drive type	standing			standing			standing			standing					
Operation type	standing			standing			standing			standing					
Load capacity/Rated load	1000(double scissors)			1500(single scissor)			1000(double scissors)			1500(single scissor)					
Load centre distance	500			500			500			500					
Load distance, centre of drive axle fork	450			450			450			450					
Wheelbase	1317			1317			1341			1341					
Service weight (with battery)	2250	2300	2360	2250	2300	2360	2500	2600	2800	2980	2500	2600	2700	2980	
Tyre	polyurethane			polyurethane			polyurethane			Polyurethane					
Tyre size, front	280x100+160x55			280x100+160x55			280x100+160x55			280x100+160x55					
Tyre size, rear	125x82(4)			125x82(4)			125x82(4)			125x82(4)					
Wheels, number front rear(x=driven wheels)	1+2			1+2			1+2			1+2					
Tread, front	678			678			678			678					
Tread, rear	1140			1140			1140			1140					
Tilt of mast/fork carriage forward/backward	2/5			2/5			2/5			2/5					
Height, mast lowered	h ₁ (mm)	2140	2390	2640	2140	2390	2640	2200	2360	2520	2700	2200	2360	2520	2700
Free lift	h ₂ (mm)	~	~	~	~	~	~	1575	1700	1825	2000	1575	1700	1825	2000
Lift height	h ₃ (mm)	3000	3500	4000	3000	3500	4000	4500	5000	5500	6000	4500	5000	5500	6000
Height, mast extended	h ₄ (mm)	4070	4570	5070	4070	4570	5070	4070	6070	6570	7070	5570	6070	6570	7070
Overall length	l ₁ (mm)	2395			2395			2415			2415				
Length to face of forks	l ₂ (mm)	1170			1170			1170			1170				
Overall width	b ₁ /b ₂ (mm)	1040/1308			1040/1308			1040/1308		1040/1370		1040/1308		1040/1370	
Fork Dimension	s/e/l(mm)	40x100x1070			40x100x1070			40x100x1070			40x100x1070				
Reach distance	l ₃ (mm)	1200			500			1200			500				
Ground clearance, centre of wheelbase	m ₁ (mm)	65			65			65			65				
Aisle width for pallets 1000x1200 crossways	A ₁ (mm)	3070			2900			3100			2930				
Aisle width for pallets 800x1200 lengthways	A ₂ (mm)	3070			2900			3100			2930				
Turning radius	W ₁ (mm)	1715			1715			1735			1735				
Travel speed, laden/unladen	Km/h	6.5/6			6.5/6			6.5/6			6.5/6				
Lift speed, laden/unladen	m/s	0.135/0.16			0.135/0.16			0.135/0.16			0.135/0.16				
Lowering speed, laden/unladen	m/s	0.15/0.12			0.15/0.12			0.15/0.12			0.15/0.12				
Max.gradeability,laden/unladen	%	5/12			5/12			5/12			5/12				
Service brake		electromagnetic			electromagnetic			electromagnetic			electromagnetic				
Battery voltage, nominal capacity K5	V/Ah	24/420(560)			24/420(560)			24/420(560)			24/420(560)				
Battery weight	kg	345			345			345			345				
Battery dimension l/w/h	mm	770x336x610			770x336x610			770x336x610			770x336x610				
Sound level at the driver's ear acc.to DIN 12053	dB(A)	75			75			75			75				
Fork height, lowered	h ₅ (mm)	130			130			130			130				
Distance of "X" (see below diagram)	mm	350			450			350			450				
Overall length (excluding the fork)	mm	1868			1868			1868			1868				

DIMENSIONS



Electric Reach Truck



Model: CQD10M/15M



Conforms to EN 1726-1:1999, EN1175-1:1998, EN 1726-1/A1:1999
Machinery Directive 2006/42/EC

Conforms to EN 12895:2000
Electromagnetic compatibility Directive 2004/108/EC



Model: CQD10L/15L

Advantages:

The CQD series Counterbalanced Reach lift truck developed by Ningbo Ruyi, with innovative design and application-oriented functionality, low noise, no pollution and a small turning radius. With its high lifting height and good stability, it is widely used for high-shelves operation in narrow aisle warehouses, supermarkets, etc.

Features:

- Truck with small width from 1020-1100mm, turning radius from 1700-1740mm and narrow cabin to ensure trucks can be used in drive-in racks.
- Available in either DC or AC power options.
- For daily maintenance of the battery, you DON'T NEED to hang up the battery box. Simply using a battery handle controller, you can automatically remove and replace the battery box.
- Equipped with two separate floating devices, which enhances stability in terms of structure, reducing weight, and prolonging the working life of the driving wheels.
- Full hydraulic steering system, with integrative design of driving and steering, provides low-effort and flexible power steering.
- Integrated driving and turning systems.
- A fully hydraulic steering system ensures flexible turning, and requires less maintenance.
- Optional high-level video system places a camera in the top skid, allowing the operator enhanced visibility.
- Height selection and height positioning system is a high-level configuration, which with manual and automatic control, for automatic positioning with a keypad, enabling the operator to choose the appropriate lift height (optional).

Option

- AC power system
- Joystick hydraulic controller
- LCD display and camera
- Height selection and height position system

MODEL		CQD10L			CQD15L			CQD10M			CQD15M		
Power		electric			electric			electric			electric		
Operation type		standing			standing			seated			seated		
Capacity/rated load	Q(kg)	1000			1500			1000			1500		
Lift height	h_3 (mm)	3000	5000	6200	3000	5000	6200	3000	5000	6200	3000	5000	6200
Load centre distance	c(mm)	500			500			500			500		
Load distance, centre of drive axle to fork	x(mm)	360	320	320	390	320	320	390	390	390	390	390	390
Wheelbase	Y(mm)	1380	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480	1480
Service weight	kg	2140	2540	2640	2340	2740	2840	2200	2600	2700	2400	2800	2900
Axle loading,unladen front/rear	kg	~			~			~			~		
Tyres type		polyurethane			polyurethane			polyurethane			polyurethane		
Drive wheel	mm	Φ 280x100			Φ 280x100			Φ 280x100			Φ 280x100		
Fork wheel	mm	Φ 250x80			Φ 250x80			Φ 285x80			Φ 285x80		
Wheels,number front rear(x=driven wheels)		3,2			3,2			3,2			3,2		
Tread, front	b_{10} (mm)	660			660			740			740		
Tread, rear	b_{11} (mm)	896			896			996			996		
Tilt of mast/fork carriage forward/backward	α, β (Grad)	3,5(mast)	3,5(forks)	3,5(forks)	3,5(mast)	3,5(forks)	3,5(forks)	2,3(mast)	~	~	2,3(mast)	~	~
Height,mast lowered	h_1 (mm)	2086	2240	2640	2086	2240	2640	2086	2240	2640	2086	2240	2640
Free lift	h_2 (mm)	~	1700	2100	~	1700	2100	~	1700	2100	~	1700	2100
Height,mast extended	h_3 (mm)	3800	5800	7000	3800	5800	7000	3800	5800	7000	3800	5800	7000
Height of overhead guard(cabin)	h_4 (mm)	2200			2200			2114			2114		
Seat height/stand height	h_5 (mm)	295			295			920			920		
Height of crura	h_6 (mm)	270			270			270			270		
Overall length	l_1 (mm)	2360			2360			2390			2390		
Length(barring fork)	l_2 (mm)	1700			1800			1850			1850		
Overall width	b_1 (mm)	1020			1020			1100			1100		
Fork dimensions	s/e/l(mm)	36/100/1070			40/100/1070			36/100/1070			40/100/1070		
Fork carriage DIN 15173,class/type A,B		A			A			A			A		
Fork-carriage width	b_2 (mm)	660			660			928			928		
Distance between fork-arms	b_3 (mm)	660			660			680			680		
Distance between support arms/loading surfaces	b_4 (mm)	688			688			800			800		
Reach distance	l_3 (mm)	600			600			600			600		
Ground clearance,laden,below mast	m_1 (mm)	90			90			90			90		
Ground clearance,centre of wheelbase	m_2 (mm)	80			80			80			80		
Aisle width for pallets 1000x1200 crossways	A_1 (mm)	2800			2800			2800			2800		
Aisle width for pallets 800x1200 lengthways	A_2 (mm)	2850			2850			2850			2850		
Turning radius	W_1 (mm)	1700			1700			1740			1740		
Travel speed,laden/unladen	Km/h	7/7.2			7/7.2			7/7.2			7/7.2		
Lift speed,laden/unladen	m/s	0.19/0.2			0.19/0.2			0.19/0.2			0.19/0.2		
Lowering speed,laden/unladen	m/s	0.5/0.4			0.5/0.4			0.5/0.4			0.5/0.4		
Reaching speed,laden/unladen	m/s	0.1/0.1			0.1/0.1			0.1/0.1			0.1/0.1		
Gradeability,laden/unladen	%	10,12			10,12			10,12			10,12		
Acceleration time,laden/unladen	s	3/4			3/5			3/4			3/5		
Service brake		mechanical			mechanical			mechanical			mechanical		
Battery voltage,nominal capacity K5	V/Ah	48/400			48/400			48/400			48/400		
Battery weight	Kg	550			550			550			550		
Battery dimensions l/w/h	mm	983x404x630			983x404x630			1092x336x650			1092x336x650		
Type of drive control		DC/AC			DC/AC			DC/AC			DC/AC		
Operating pressure for attachments	bar	100	120	120	140	150	150	100	120	120	140	150	150
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70			70			70			70		



Oil tube inside of the mast with clean wire communications



With battery handle controller can automatically remove out battery box.

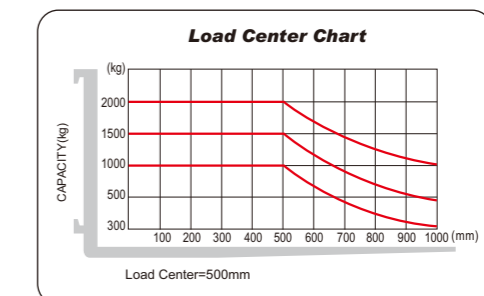
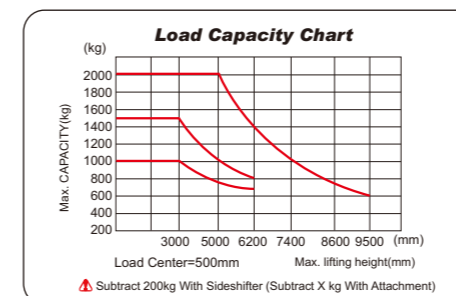
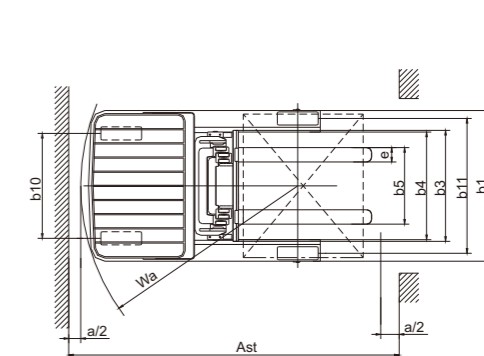
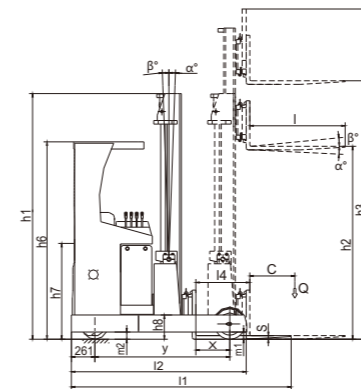


Integrated structure of drive system and steering system



Optional of battery changing trolley

DIMENSIONS



Electric Reach Truck



Model: CQD20H

AC

EPS

Option



Advantages:

STABILITY

- The large and strong chassis ensures sufficient stability of the forklift,
- The max lifting height can reach 9.5 metres.
- Use "H" type mast steel is imported from Germany enhance the use time and stability.
- Large and comfortable compartment with adjustable seat reflects a concept of ergonomic design.
- Use double controllers to realize stepless speed regulation of both lifting and travelling.

SAFETY AND HIGH EFFICIENCY

- Have safety travelling speed limited device in the mast. Travelling speed will automatic lowering when forks height is up 5M.
- Full hydraulic steering system makes turning easy and flexible.
- Adopts hydraulic brake for two front wheel and electric brake for electric brake for driving motor, offer simple operation for travelling and braking .
- Integrated design of driving and steering system without chain transmission, resolve the problems of chain fall-off caused by chain transmission.

EASY MAINTENANCE

- Battery changing offers two type methods :
1) Side way battery changing by a trolley.
2) Automatic push-out and pull-in function by a simple battery handle controller .
- Bolt fixed back cover is easy to open for daily maintenance.

OPTION

- Joystick hydraulic controller.
- LCD display and camera (LCD for cold storage are available).
- Height selection and height position system.
- **EX explosion proof type.**



Conforms to EN 1726-1:1999, EN1175-1:1998, EN 1726-1/A1:2003 Machinery Directive 2006/42/EC

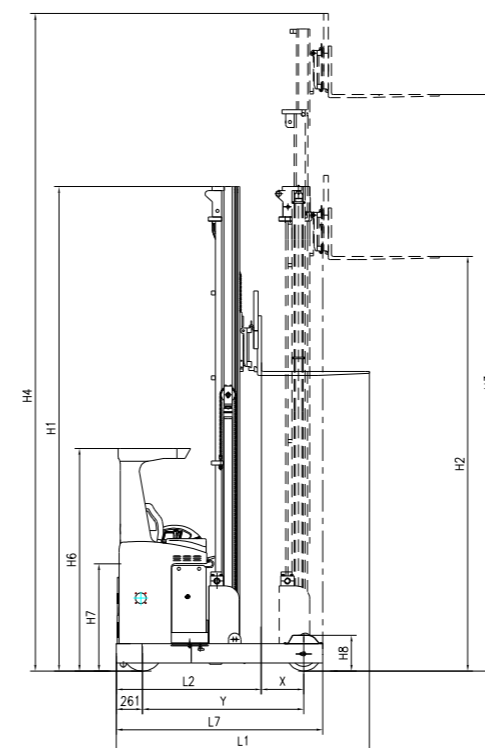
Conforms to EN 12895:2000 Electromagnetic compatibility Directive 2004/108/EC



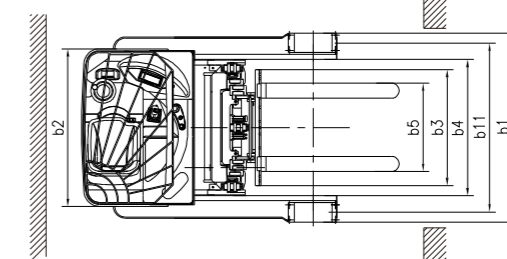
Optional of cabin

MODEL		CQD20				CQD20H		
Power		electric				electric		
Operation type		seated				seated		
Capacity/rated load	Q(kg)	2000				2000		
Lift height	h ₁ (mm)	3000	5000	6200	7400	8000	8600	9500
Load centre distance	c(mm)	500				500		
Load distance,centre of drive axle to fork	x(mm)	380				320		
Wheelbase	Y(mm)	1500				1500		
Service weight	kg	3300	3700	3800	3900	4100	4150	4240
Axle loading,unladen front/rear	kg	2190/1110	2400/1300	2440/1360	2480/1420	2500/1600	2540/1610	2580/1660
Axle loading,fork advanced,laden front/rear	kg	745/4555	845/4855	893/4907	942/4958	673/5427	714/5436	786/5454
Axle loading,fork retracted,laden front/rear	kg	2033/3267	2244/3456	2284/3516	2324/3576	2266/3834	2305/3845	2346/3894
Tyres type		polyurethane				polyurethane		
Drive wheel	mm	Φ 406x152				Φ 406x152		
Fork wheel	mm	Φ 340x104				Φ 340x134		
Wheels,number front rear(x=driven wheels)		2,1				2,1		
Tread,front	b ₁ (mm)	~				~		
Tread,rear	b ₂ (mm)	1130				1350		
Tilt of mast/fork carriage forward/backward	α , β (Grad)	2,2(mast)				3,5(forks)		
Height,mast lowered	h ₂ (mm)	2086	2240	2740	3190	3390	3590	3890
Free lift	h ₃ (mm)	~	1700	2100	2500	2700	2900	3200
Height,mast extended	h ₄ (mm)	3800	5800	7000	8200	8800	9400	10300
Height of overhead guard(cabin)	h ₅ (mm)	2200				2200		
Seat height/stand height	h ₆ (mm)	1068				1068		
Height of crura	h ₇ (mm)	270				270		
Overall length	l ₁ (mm)	2440				2510		
Length(barring fork)	l ₂ (mm)	1950				1950		
Overall width	b ₁ (mm)	1260				1510		
Fork dimensions	s/e/l(mm)	40/120/1070				40/120/1070		
Fork carriage DIN 15173,class/type A,B		A				A		
Fork-carriage width	b ₃ (mm)	928				928		
Distance between fork-arms	b ₄ (mm)	680				850		
Distance between support arms/loading surfaces	b ₅ (mm)	900				1090		
Reach distance	l ₃ (mm)	600				600		
Ground clearance,laden,below mast	m ₁ (mm)	90				90		
Ground clearance,centre of wheelbase	m ₂ (mm)	80				80		
Aisle width for pallets 1000x1200 crossways	A ₁ (mm)	2880				2880		
Aisle width for pallets 800x1200 lengthways	A ₂ (mm)	2930				2930		
Turning radius	W ₁ (mm)	1820				1820		
Travel speed,laden/unladen	Km/h	8/8.3				8/8.3		
Lift speed,laden/unladen	m/s	0.19/0.2				0.19/0.2		
Lowering speed,laden/unladen	m/s	0.5/0.4				0.5/0.4		
Reaching speed,laden/unladen	m/s	0.1/0.1				0.1/0.1		
Gradeability,laden/unladen	%	10,12				10,12		
Acceleration time,laden/unladen	s	4.8,4.3				4.8,4.3		
Service brake		hydraulic				hydraulic		
Battery voltage,nominal capacity K5	V/Ah	48/500				48/500		
Battery weight	Kg	860				860		
Battery dimensions l/w/h	mm	1220x344x727				1220x344x727		
Type of drive control		DC/AC				DC/AC		
Operating pressure for attachments	bar	140	160	160	160	170		
Sound level at the driver's ear acc.to DIN 12053	dB(A)	70				70		

Export more than 57 countries and regions!



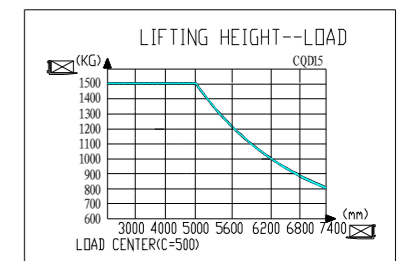
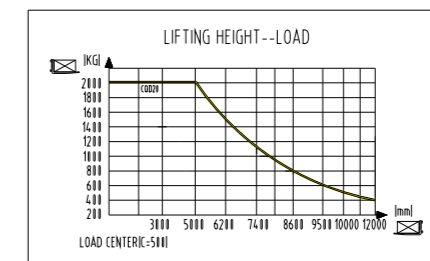
DIMENSIONS



Optional of LCD display and camera for high level operation



Double controllers with CANbus communication to oil tube and wire



Electric Reach Truck



Model: CQD20H

CQD20H(EPS) is with very small turning radius 1820mm-1920mm, which is widely used in large warehouses and huge super markets.

AC

EPS

Max. lift height:
12000mm



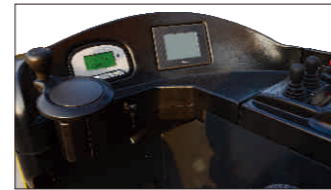
Advantages:

Standard

- AC control system
- Powering steering system (EPS)
- Electronic multi-valve
- Multi-function display can show: Brake status, Driving direction, Hour meter, Driving speed, Fault code, etc
- Finger-tip control stick
- Adjustable speed for forks lifting/lowering mast forward/backward and side shift right/left
- German ZF brand gear box
- Adjustable steering wheel
- With traveling speed limited device when forks at high level.
- Electronic height limited device
- Use "H" type mast steel is imported from Germany.
- Use double controllers to realize stepless speed regulation of sideshift, both lifting and traveling.
- Have safety traveling speed limited device in the mast.

Option

- Side shift.
- Height selection and height position system.
- LCD display and camera (LCD for cold storage are available).
- EX explosion proof type.
- Travel/back-up flashing lights.
- Battery capacity is suit every type of application of 750Ah to 1100Ah.



Camera and positioning: Optional positioning system offers easier pallet handling at height through camera system.



Precise and effortless finger tip control of mast movements and traveling.

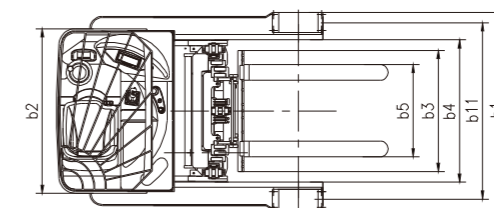
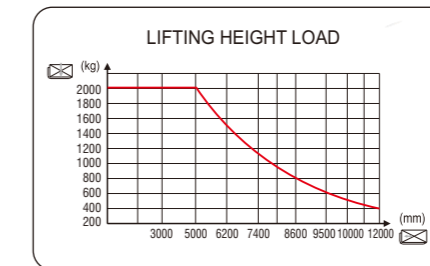
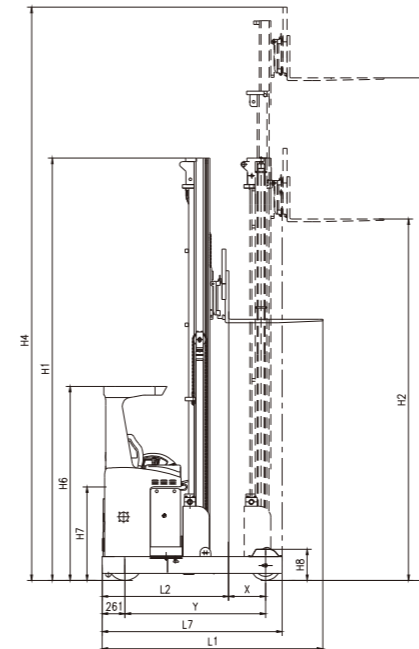


Ergonomic and full suspension comfortable seat full adjustable.

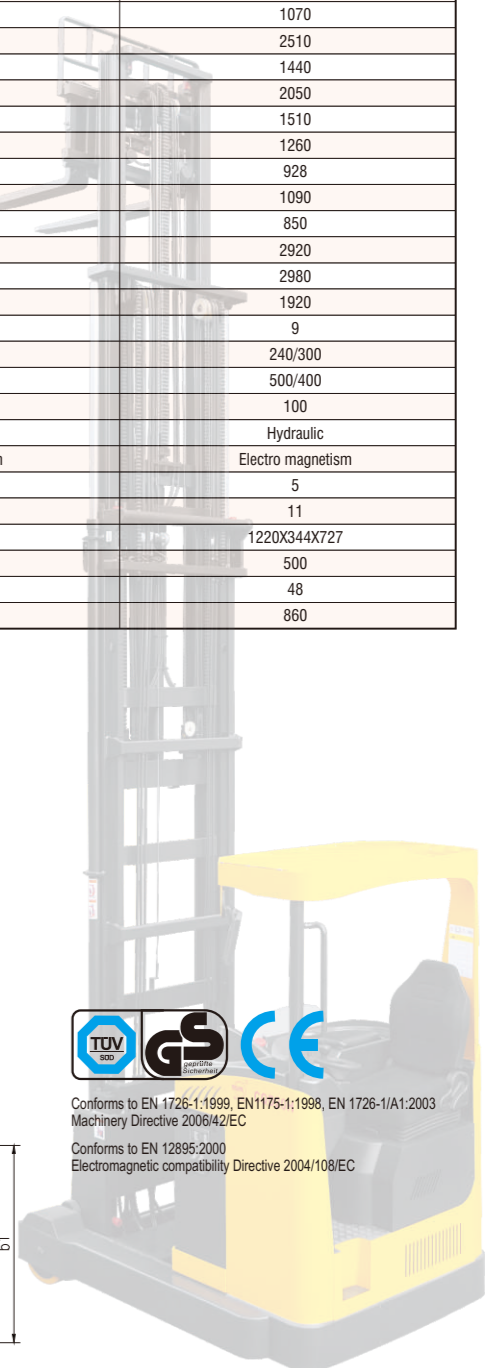


Model		CQD20H(EPS)	CQD20H(EPS)
Drive type		Electric	Electric
Operation type		Seated	Seated
Rated capacity	Q(kg)	2000	2000
Load centre	C(mm)	500	500
Reach distance	L4(mm)	600	700
Load distance, centre of drive axle to fork	X(mm)	390	390
Tread, rear	b11(mm)	1350	1350
Wheelbase	Y(mm)	1500	1600
Service weight	kg	4240	4840
Axle loading, unladen front/rear	kg	1700/2550	1890/2940
Axle loading, fork advanced, laden front/rear	kg	5600/670	5840/1000
Axle loading, fork retracted, laden front/rear	kg	4000/2260	4040/2820
Tyres type		polyurethane	polyurethane
Drive wheel dimension	mm	406X152	406X152
Fork wheel dimension	mm	340X134	340X134
Height, mast lowered	H1(mm)	3390/3590/3890	4190/4490/4790
Free lift	H2(mm)	2700/2900/3200	3600/3900/4200
Max. lifting height	H3(mm)	8000/8600/9500	10200/11100/12000
height, mast extended	H4(mm)	8800/9400/10300	11000/11900/12800
Height of overhead guard(cabin)	H6(mm)	2200	2200
Seat height	H7(mm)	1060	1060
Height of crura	H8(mm)	355	355
Fork length	L(mm)	1070	1070
Overall length	L1(mm)	2510	2510
Length (from forks bracket)	L2(mm)	1440	1440
Length (barring fork)	L7(mm)	1950	2050
Overall width	b1(mm)	1510	1510
Front width	b2(mm)	1260	1260
Fork bracket width	b3(mm)	928	928
Inner width of legs	b4(mm)	1090	1090
Distance between forks	b5(mm)	850	850
Aisle width for pallets 1000x1200 crossways	Ast(mm)	2920	2920
Aisle width for pallets 800x1200 crossways	Ast(mm)	2980	2980
Turning radius	Wa(mm)	1820	1920
Travel speed, laden/unladen	km/h	9.3	9
Lift speed, laden/unladen	mm/s	240/300	240/300
Lower speed, laden/unladen	mm/s	500/400	500/400
Reach speed	mm/s	100	100
Travel brake		Hydraulic	Hydraulic
Park brake		Electro magnetism	Electro magnetism
Drive motor	kw	5	5
Lift motor	kw	8.2	11
Battery dimension	mm	1220X344X727	1220X344X727
Battery capacity	AH	500	500
Battery voltage	V	48	48
Battery weight	kg	860	860

DIMENSIONS



Conforms to EN 1726-1:1999, EN1175-1:1998, EN 1726-1/A1:2003 Machinery Directive 2006/42/EC
Conforms to EN 12895:2000 Electromagnetic compatibility Directive 2004/108/EC



Manual & Power Lift Table

Scissor Lift Table



EU Type



Model: **SP150**

- Valuable material handling equipment for use as a feeding table on assembly line.
- Structural heavy duty steel construction.
- Easy action foot operated hydraulic lift for raising table top to desired level.
- Hand operated table descent control.
- Over load by-pass valve protects operator and pump.



Conforms to EN 1570:2008
Based on Directive 2006/42/EC



Model: **SP800**
SP1000
SP1500



Model: **SP300**
SP500

Specification for EU type

1KG=2.205LB 1INCH=25.40MM

MODEL		SP150	SP300/SP500	SP800	SP1000	SP1500
Capacity	kg	150	300/500	800	1000	1500
Max. lift height	h_{12} (mm)	740	900	1000	1000	1000
Min. height of table	h_{13} (mm)	225	340	420	380	420
Lifting height	h_3 (mm)	515	560	580	620	580
Table size	$l \times b \times s$ (mm)	740x450x35	855x500x50	1000x510x55	1016x515x60	1220x610x60
Total height	h_{14} (mm)	935	970	996	962	962
Overall length	l_1 (mm)	830	925	1150	1170	1379
Foot pedal cycles to max height		≤ 25	$\leq 32 / \leq 45$	≤ 70	≤ 55	≤ 70
Wheel diameter	d (mm)	100	127	150	150	150
Qty. / 20' Container	PCS	192	120	52	52	48
Service weight	kg	44	82/87	115	115	135
Carton size	mm	880x480x265	950x530x390	1190x630x460	1190x630x430	1410x730x450

EU type SP150, SP300, SP500, SP800 in stead of old model SPA150, SPA300, SPA500, SPA800.

Scissor Lift Table

Double Scissors Lift Table



U.S. Type



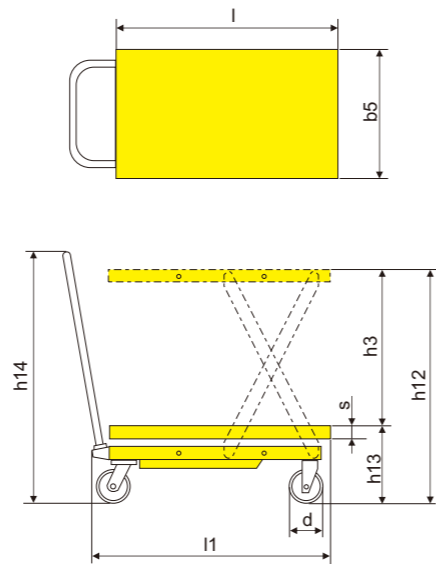
Model: **SP150**
SP300
SP500



Model: **SP200**



Model: **SP800**



Specification for U.S. type

1KG=2.205LB 1INCH=25.40MM

MODEL		SP150	SP200	SP300/SP500	SP800	SP500A*	SP500B*	SP500C*
Capacity	kg	150	200	300/500	800	500	500	500
Max. lift height	h_{12} (mm)	740	1000	900	1000	900	1100	900
Min. height of table	h_{13} (mm)	225	330	280	420	305	310	305
Lifting height	h_3 (mm)	515	670	620	580	595	790	595
Table size	$l \times b \times s$ (mm)	700x450x35	1000x500x35	815x500x50	1000x510x55	1050x700x52	1200x800x52	1050x850x52
Total height	h_{14} (mm)	935	1056	996	996	970	970	970
Overall length	l_1 (mm)	770	1120	942	1150	1120	1270	1120
Foot pedal cycles to max height		≤25	≤25	≤32/≤45	≤70	≤55	≤55	≤55
Wheel diameter	d (mm)	100	200	127	150	127	127	127
Qty. / 20' Container	PCS	192	72	120	52	90	60	90
Service weight	kg	42	71	77/85	103	108	120	108
Carton size	mm	820x480x265	1140x620x460	960x530x420	1190x630x460	1150x730x330	1300x830x340	1150x880x330

*Model SP500A, SP500B and SP500C are different on table size and lifting height.



Model: **SPS150**
SPS350



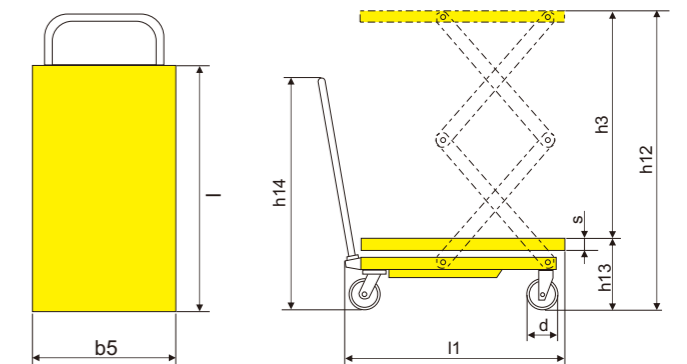
Model: **SPF680**



Model: **SPS800**



Conforms to EN 1570-4:1998+A2
Based on Directive 2006/42/EC



1KG=2.205LB 1INCH=25.40MM

MODEL		SPS150	SPS350	SPS800	SPF680	SPT500/SPTJ500
Capacity	kg	150	350	800	680	500
Max. lift height	h_{12} (mm)	1100	1300	1500	1500	900
Min. height of table	h_{13} (mm)	302	350	475	474	310
Lifting height	h_3 (mm)	798	950	1025	1026	590
Table size	$l \times b \times s$ (mm)	700x450x35	910x500x50	1220x610x60	1220x610x55	1600x800x50
Total height	h_{14} (mm)	921	970	962	1038	970
Overall length	l_1 (mm)	773	980	1375	1289	1670
Foot pedal cycles to max height		≤30	≤60	≤70	35/80	≤55
Wheel diameter	d (mm)	100	127	150	150	127
Qty. / 20' Container	PCS	168	110	48	44	30
Service weight	kg	64	105	172	170	136
Carton size	mm	800x480x330	1010x530x390	1400x730x500	1320x630x480	1700x810x330

Scissor Lift Table



Model: SPT500
Extra Large Plate
● Lower controlled by hand



Model: SPTJ500
Extra Large Plate
● Lower controlled by pedal

Electric Table Truck



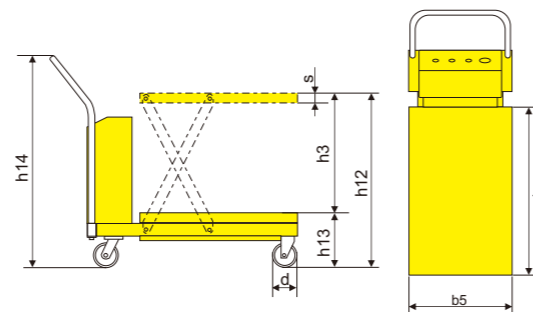
**Model: DP30
DP50**



Model: DPS35

1KG=2.205LB 1INCH=25.40MM

Model		DP30	DP50	DPS35
Capacity	kg	300	500	350
Max. lift height	h_{12} (mm)	900	900	1320
Min. height of table	h_{13} (mm)	300	300	405
Lifting height	h_3 (mm)	600	600	915
Table size	$l \times b \times s$ (mm)	815x500x50	815x500x50	910x500x56
Total height	h_{14} (mm)	1101	1101	1101
Wheel diameter	d	127	127	127
Motor power	kw	0.8	0.8	0.8
Lifting speed	S	≤10	≤10	≤15
Lowering speed	S	10	10	15
Battery voltage, nominal capacity K_s	V/Ah	24V/33Ah	24V/33Ah	24V/33Ah
Qty. / 20' Container	PCS	20	20	20
Service weight	kg	111	114	150
Carton size	mm	1125x540x340	1125x540x340	1240x540x450



Dock Leveler & Lift Table



1KG=2.205LB 1INCH=25.40MM

Model: DL



MODEL		DL
Capacity	(kg)	6000 8000
Table size	(mm)	2500x2000 2500x2000
Lip board size	(mm)	2000x400 2000x400
Lifting height	Up (mm)	400
	Down (mm)	300
Exterior size (LxWxH)	(mm)	2640x2040x600 2640x2040x600
Motor	(Kw)	0.75 0.75
Voltage	(V)	220/380 220/380
Pithead size	(mm)	2580x2040x600 2580x2040x600
Service weight	(kg)	1110 1150

Remark: special size can be made according to customer's requirement.

Stationary lift table

1KG=2.205LB 1INCH=25.40MM

MODEL		AL1
Capacity	(kg)	2700
Max. lift height	h_{12} (mm)	1700
Min. height of table	h_{13} (mm)	220
Lifting height	h_3 (mm)	1480
Table size	$l \times b \times s$ (mm)	2445x1830x195
Motor	(kw)	3.0
Voltage	(V)	220/380
Rise time	(s)	40
Lowering speed	(mm/s)	<150
Service weight	(kg)	945

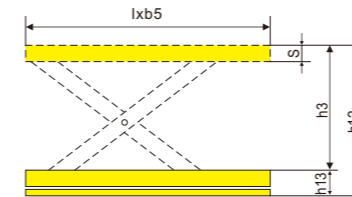


Option of steel fence

Model: AL1
Double hydraulic pump



- Designed for industrial heavy duty applications (as part of a production process, for machine feeding or stacking etc.)
- Double acting hydraulic cylinders.
- Lifting limit switch.
- Alum. table frame protects workers from injury by cutting off power.



Model: DG01/DG03



Model: DG02/DG04

1KG=2.205LB 1INCH=25.40MM

MODEL		DG01	DG02	DG03	DG04	DGS20	
Capacity	(kg)	1000	2000	1000	2000	2000	2000
Max. lift height	h_{12} (mm)	1000	1000	1000	1000	2000	4000
Min. height of table	h_{13} (mm)	190	230	190	230	425	500
Lifting height	h_3 (mm)	810	820	810	820	1580	3500
Table size	$l \times b \times s$ (mm)	1350x800x80	1350x800x130	1500x1000x80	1500x1000x130	1500x1400x130	2240x1590x180 2500x2000x180
Motor power	(kw)	0.75	0.75	0.75	0.75	1.5	3 4
Input voltage	(V)	220/380	220/380	220/380	220/380	220/380	220/380 220/380
Rise time	(s)	19	38	19	38	60	80 90
Lowering speed	(mm/s)	<150	<150	<150	<150	<150	<150 <150
Service weight	(kg)	206	248	216	268	520	1250 1550



Test



Storage



Binding on the pallet (6 pcs/pallet)



Loading into the container



Finished products warehouse

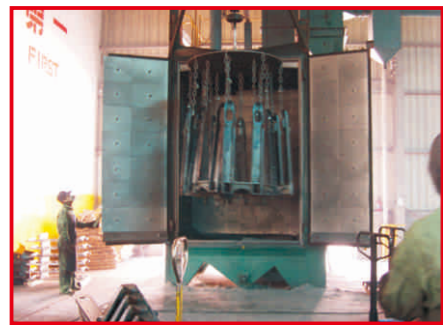
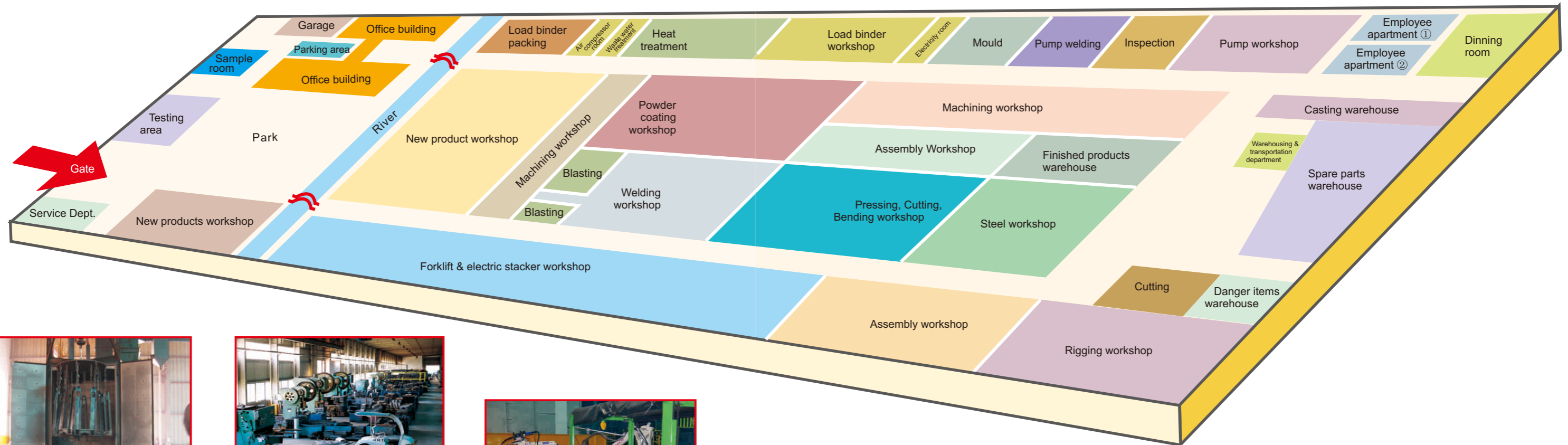


Finished products warehouse



Finished products warehouse

Welcome to Our Plant



Blasting Workshop



Punching Workshop



Auto Robot Welding I



Powder Coating Workshop I



Laser Cutting Workshop



Automatic Processing Workshop



Automatic Pressing Center



Mould workshop



Powder Coating Workshop II



Pressing & Bending Workshop



Robot Welding II



Stacker Assembling Workshop



Electric Truck Assembling Workshop



Reach Truck Assembling workshop

**We concern-
Quality, Safety and Environment**



China exemption
from inspection



00109Q12296RIM/3302
00109E20323RIM/3302
00109S10127RIM/3302



体系认证
CNAS C001-Q. E. S

