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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.



XA SERIES

**STAND-ON AND SIDEWAYS-SEATED
DOUBLE-DECK STACKER**

With capacity of 1,000 to 2,000kg

XA SERIES

STAND-ON AND SIDEWAYS-SEATED DOUBLE-DECK STACKER

The XA series stand-on and sideways-seated double-deck stacker is a newly developed product by HANGCHA. It offers high throughput and long-distance transport advantages, suitable for high-intensity working conditions, with both pallet truck and stacker functions for higher efficiency.

Appearance & Styling

The XA series stand-on and sideways-seated double-deck stacker features professional industrial design with smooth and dynamic vehicle lines; full consideration of ergonomics conforms to the latest design trends.

Features



Advanced
Performance



Comfortable
Operation



High
Reliability



Safety



Low Operating and
Maintenance Costs

High Performance

- Pallet truck mode, stacker mode, and double pallet mode for higher working efficiency.
- AC drive motor with excellent acceleration performance, superior gradeability, low heat generation, brushless, and maintenance-free characteristics.

AC electronic control with multi-function display instrument, multiple speed modes for user selection under different working conditions; capable of displaying various operating status parameters; authorized parameter adjustment available.



[Super]



[Power]

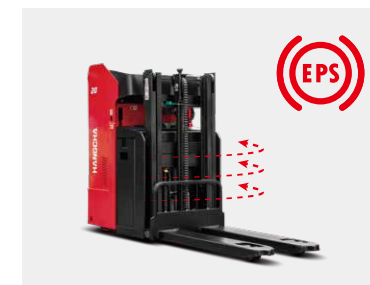


[Eco]

With several speed gears, the vehicle is adapted to different operating conditions.



Standard electric power steering (EPS) with good handling feel, sensitive response, and excellent steering tracking.



Standard compact mast with optimized external dimensions, good maneuverability, and wider application scope.



Operator's Choice

Folding seat for leaning or sitting allows both stand-on and seated operation, providing operators with more driving options during long-distance transport.

Seat cushion angle adjustable in sit-down mode to accommodate operators of different heights and builds.



Driver's Station

Steering wheel with damping feel and torque feedback at full lock for better driving sensation.

Cup holder, USB power port, and A4 document storage space.



Cushion + Safety

Knee pads equipped to effectively protect operator safety and improve comfort in sit-down operation mode

EXCELLENT ERGONOMIC DESIGN

Comfort

- Display instrument with wheel position indication for easy operator judgment of travel direction.
- Various fork spread and fork lengths available to accommodate multiple pallet types.



Multi-layer cushioned standing platform pads significantly improve operator comfort while standing.



Grab handles provided for convenient operator mounting/dismounting



TOTAL PROTECTION

Reliability

- Optimized lifting linkage design for smooth, reliable operation with reduced structural stress.
- Waterproof connectors adopted; all electrical cables and wires with reliable protection, greatly improving electrical system reliability.

High-strength pallet truck frame structure design to meet various working conditions with long service life.



Stamped formed forks with higher strength and impact resistance; fork tip guides further improve operational efficiency.



Safety

- Release braking, foot braking, and emergency braking functions ensure safe travel.
- Ramp anti-rollback function ensures operational safety on inclines.

Standard electronic lift limit switch prevents impact at maximum lift height, effectively protecting the lift motor and ensuring cargo safety.



SIMPLICITY AT EVERY TURN

Maintenance

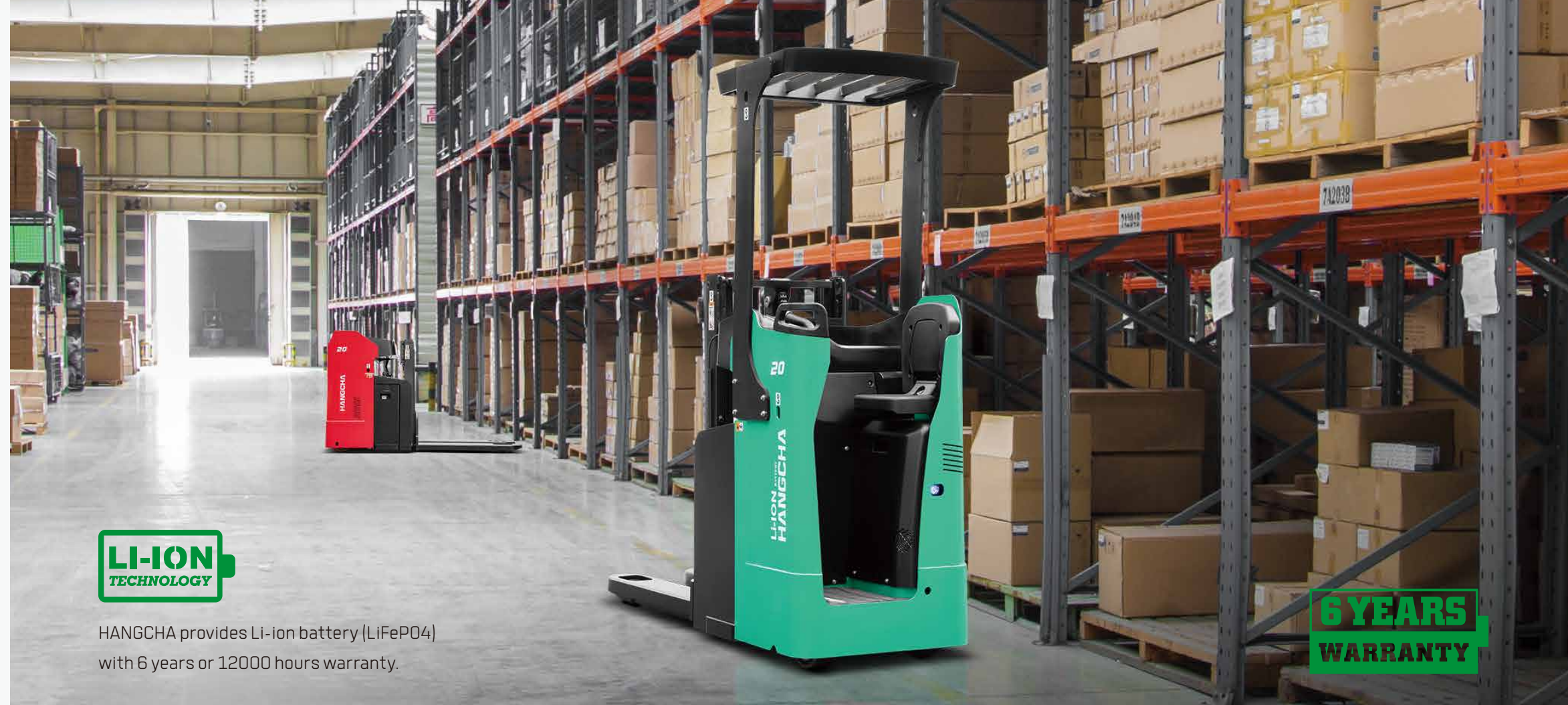
- AC drive motor requires no maintenance.
- Easily removable cover for clear visibility of internal components and convenient maintenance.
- All pivot points equipped with lubricated bushings and grease fittings for easy maintenance and extended service life.



Multi-function interactive display instrument allows direct fault information viewing without consulting manuals.



Battery standard with lateral extraction for convenient replacement.



HANGCHA provides Li-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

6 YEARS WARRANTY

LITHIUM POWERED

EMPOWER YOURSELF WITH THE BEST



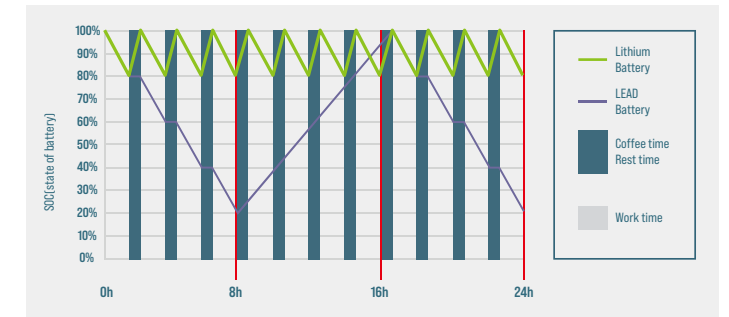
Li
Lithium

POWER THE POSSIBILITIES
RELIABLE LITHIUM-ION TECHNOLOGY

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

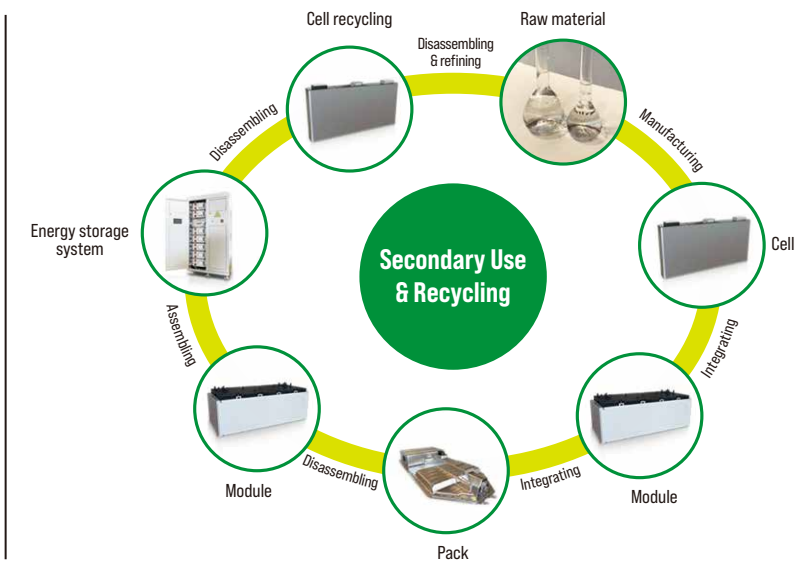
Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



Safety

- / Intelligent battery management monitoring every important function.
- / Higher user safety, thanks to acid-free use.
- / User friendly due to avoided battery change.
- / No emission of battery gasses.



LITHIUM BATTERY ADVANTAGES



Long service life

4000 full charging cycles with at least 75% residual capacity.



Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.



Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



Maintenance free

No topping up of water or checking acid levels.



Opportunity charging

Full performance during several shifts thanks to effective interim charging.



High energy density

The high energy density of the Li-Ion battery ensures long working times and increases the high availability.

QUESTION 1

Q: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?

Charging temperature: -30 C - 65 C
Discharge temperature: -30 C - 65 C
Storage environment temperature: -30 C - 65 C

After the truck key switch is closed, the instrument battery condition needs to be checked:

1. Confirm that there is no battery system alarm message on the instrument panel.
2. Please check the remaining power before use. It is recommended to use the SOC between 50% and 100%.
3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.

QUESTION 2

Q: What is the charging time and usage time calculation of forklift lithium battery?

1. Available power of lithium battery (kWh) = rated voltage * rated power * 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%)).
 2. Charging time (h) = rated capacity of lithium battery (Ah) * 90% * charger output current (A).
 3. The power consumed for charging (kWh) = the available power of the lithium battery * 93% (the charging efficiency of the charger is calculated as 93%).
 4. Usage time (h) = available power of lithium battery * energy consumption data.
- For specific energy consumption values, please refer to the technical table on the sharing platform.**

QUESTION 3

Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitor the cells at all times. As a result, hangcha lithium power is the reliable solution.



Battery Safety Management:

- Overcharge/over discharge protection
- Overcurrent/over-temperature/low-temperature protection
- Multi-level fault diagnosis protection
- Double fault monitoring



Battery Parameter Detection:

- Battery voltage detection and analysis
- Battery current detection and analysis
- Battery temperature detection and analysis



Equilibrium Management:

- Equalization based on voltage mode
- Equalization based on time mode
- Equalization based on battery cell SOC
- Active/passive equalization optional



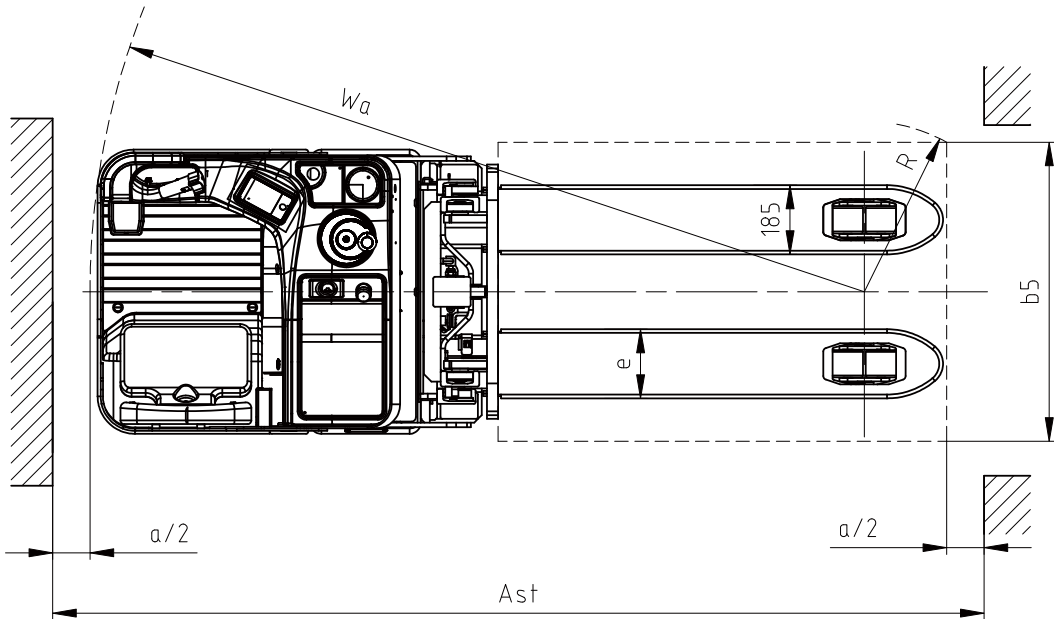
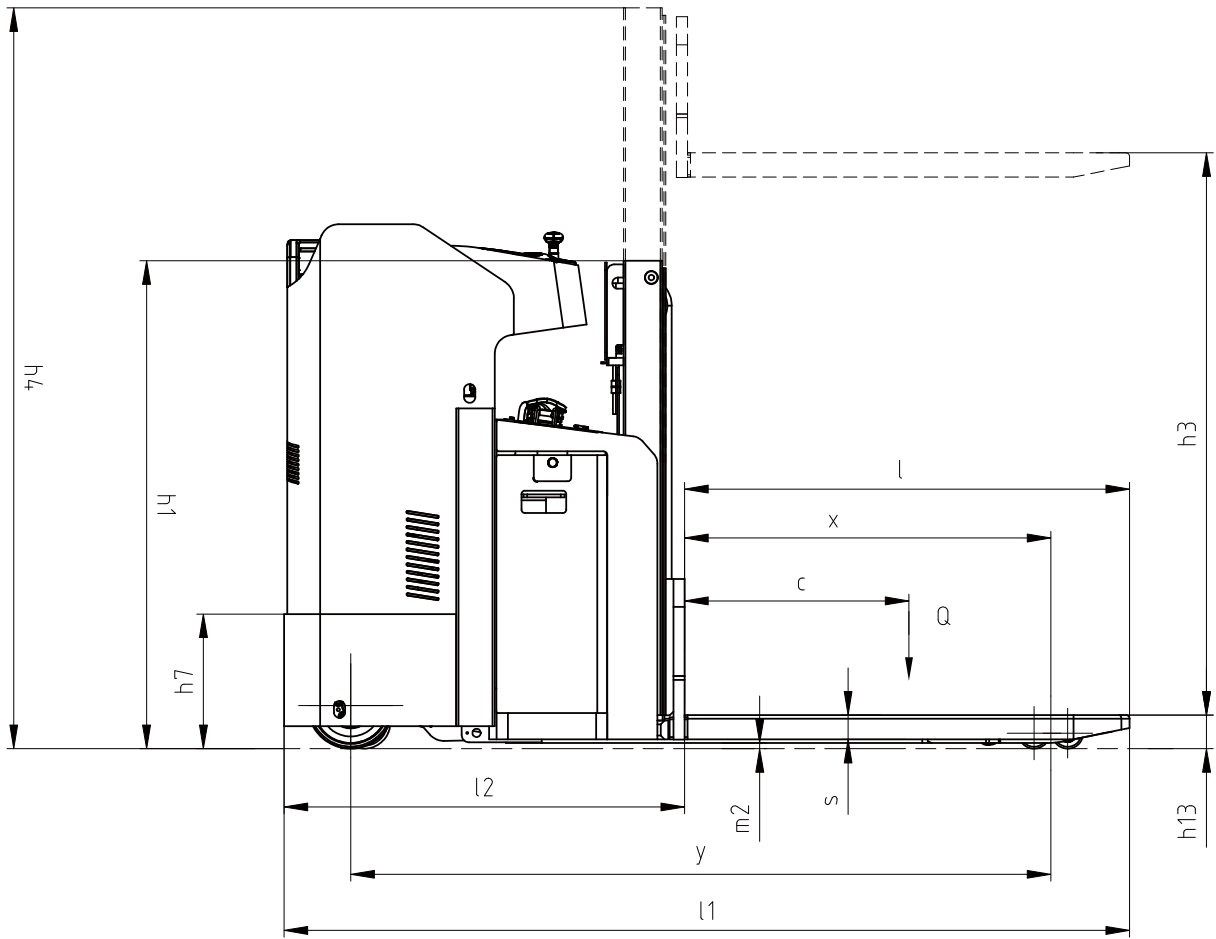
Other Features:

- Low cost, low power consumption
- Historical data record
- Flexible cascade expansion
- CRC data validation

Technical Data

Distinguishing mark	1.1	Manufacturer [abbreviation]		HANGCHA GROUP CO.,LTD.	
	1.2	Manufacturer's type designation		CDD20-XAC1RS-D CDD20-XA01RS-D	CDD20-XAC1RS-ID CDD20-XA01RS-ID
	1.3	Drive: electric [battery type, mains, ...], diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Stand-on	Stand-on
	1.5	Rated capacity/rated load	kg	2000	2000
Weight	1.5.1	Load capacity at load centre distance c1	kg	1000	1000
	1.5.2	Load capacity at load centre distance c2	kg	2000	2000
	1.6	Load centre distance	c (mm)	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	912/980	912/980
	1.9	Wheelbase	y (mm)	1804/1872	1804/1872
Tyres, chassis	2.1	Service weight	kg	1310	1205
	2.2	Axle loading, laden front/rear	kg	1370/2030	1224/1971
	2.3	Axle loading, unladen front/rear	kg	910/400	764/341
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU
	3.2	Tyre size, front		Ø 230 x 75	Ø 230 x 75
Dimensions	3.3	Tyre size, rear		Ø 83x73	Ø 83x73
	3.4	Additional wheels (dimensions)		Ø 140 x 55	Ø 140 x 55
	3.5	Wheels, number front/rear (+ = driven wheels)		2,1x / 4	2,1x / 4
	3.6	Tread, front	b10 (mm)	485	485
	3.7	Tread, rear	b11 (mm)	385	385
Performance data	4.2	Height, mast lowered	h1 (mm)	1305	1305
	4.4	Lift	h3 (mm)	1660	1660
	4.5	Height, mast extended	h4 (mm)	2114	2114
	4.6	Initial lift	h5 (mm)	125	125
	4.8	Seat height relating to SIP/stand height	h7 (mm)	245	245
	4.15	Height, lowered	h13 (mm)	90	90
	4.19	Overall length	l1 (mm)	2260	2260
	4.20	Length to face of forks	l2 (mm)	1070	1070
	4.21	Overall width	b1/b2 (mm)	760	760
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	65/185/1190	65/185/1190
	4.25	Fork spread	b5 (mm)	570	570
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	15	15
	4.34.1	Aisle width for pallets 1000 • 1200 crossways	Ast (mm)	2480 ¹⁾	2480 ¹⁾
	4.34.2	Aisle width for pallets 800 • 1200 lengthways	Ast (mm)	2490 ²⁾	2490 ²⁾
	4.35	Turning radius	Wa (mm)	2002/2070	2002/2070
Electric-engine	5.1	Travel speed, laden/unladen	km/h	10/12	10/12
	5.2	Lift speed, laden/unladen	m/s	0.14/0.22	0.14/0.22
	5.3	Lowering speed, lade/unladen	m/s	0.23/0.21	0.23/0.21
	5.8	Max. gradeability, laden/unladen	%	6/12	6/12
	5.10	Service brake		Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min	kW	2.5	2.5
	6.2	Lift motor rating at S3 15 %	kW	2.2	2.2
	6.4	Battery voltage/nominal capacity	[V]/[Ah] or kWh	24/375	24/230
	6.5	Battery weight	kg	297	80

Note: 1) According to VDI2198 standard+400mm. 2)According to VDI2198 standard+242mm.



Mast specification

Type	Lifting height	Ground clearance, fork	Lowered height	Extended height
Single cylinder Duplex wide view	mm	mm	mm	mm
	1660	1750	1305	2115
	2010	2100	1480	2465

Features

Truck	Standard	Options
24V AC drive motor	●	
Hydraulic power unit (HPU)	●	
Polyurethane (PU) wheels	●	
Fork length 1190mm	●	
Fork spread 570mm	●	
Fork ground clearance 90mm	●	
Electronic lift limit switch	●	
Operator presence switch on platform	●	
Battery	●	
Additional wheels	●	
Dual load wheels	●	
Multi-layer platform cushioning pads	●	
Knee protection pads	●	
Battery side extraction	●	
Mounting grab handles	●	
Folding seat	●	
Load backrest		○
Stretch wrap holder		○
Overhead guard		○
Controls and instruments		
Electric power steering (EPS)	●	
Controller	●	
Interactive display instrument	●	
Key switch	●	
USB power port	●	
Password lock		○
Safety		
Horn	●	
Speed reduction on cornering	●	
Electromagnetic brake / EMB	●	
Buzzer		○
Lights		
Blue spot light		○