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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
PALLET TRUCK

With capacity of 2,000kg

XA SERIES

STAND-ON AND SIDEWAYS-SEATED PALLET TRUCK

The XA series stand-on and sideways-seated pallet truck is a new product developed by HANGCHA, featuring advanced AC control technology. It offers superior performance, comfortable operation, high safety, and low maintenance costs. With its large throughput capacity and advantages for long-distance transportation, it is ideal for high-intensity working conditions.



High Safety



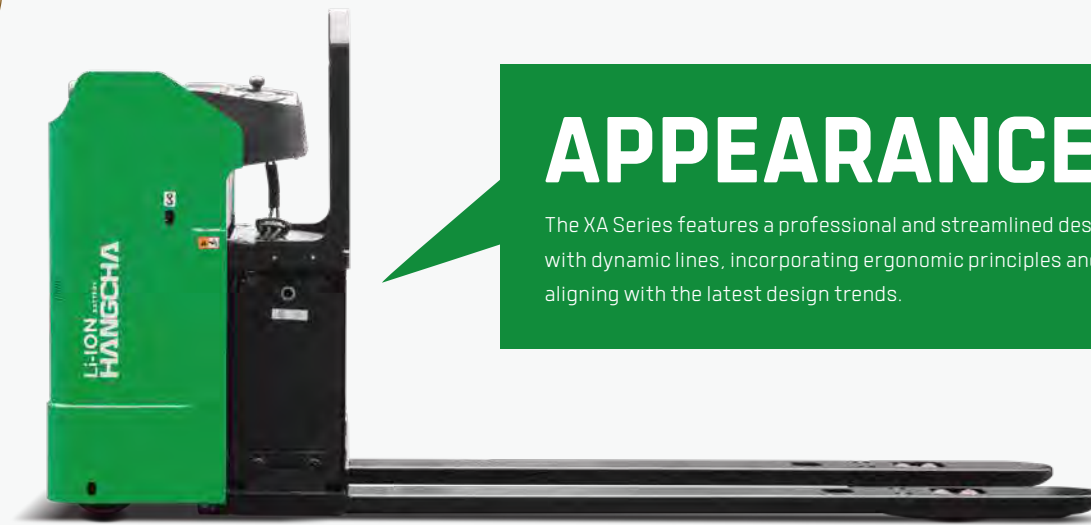
Low Maintenance Costs



Large Throughput



Long-distance Transportation



APPEARANCE

The XA Series features a professional and streamlined design with dynamic lines, incorporating ergonomic principles and aligning with the latest design trends.

HIGH PERFORMANCE

Electric power steering

Provides smooth operation, quick response, and excellent steering control.

Ac drive motor

Delivers superior acceleration, excellent climbing ability, low heat generation, and is brushless and maintenance-free.

Ac electric control system



Equipped with a multi-functional instrument panel, offering multiple modes for different working conditions. It displays real-time operational parameters and allows authorized parameter adjustments.

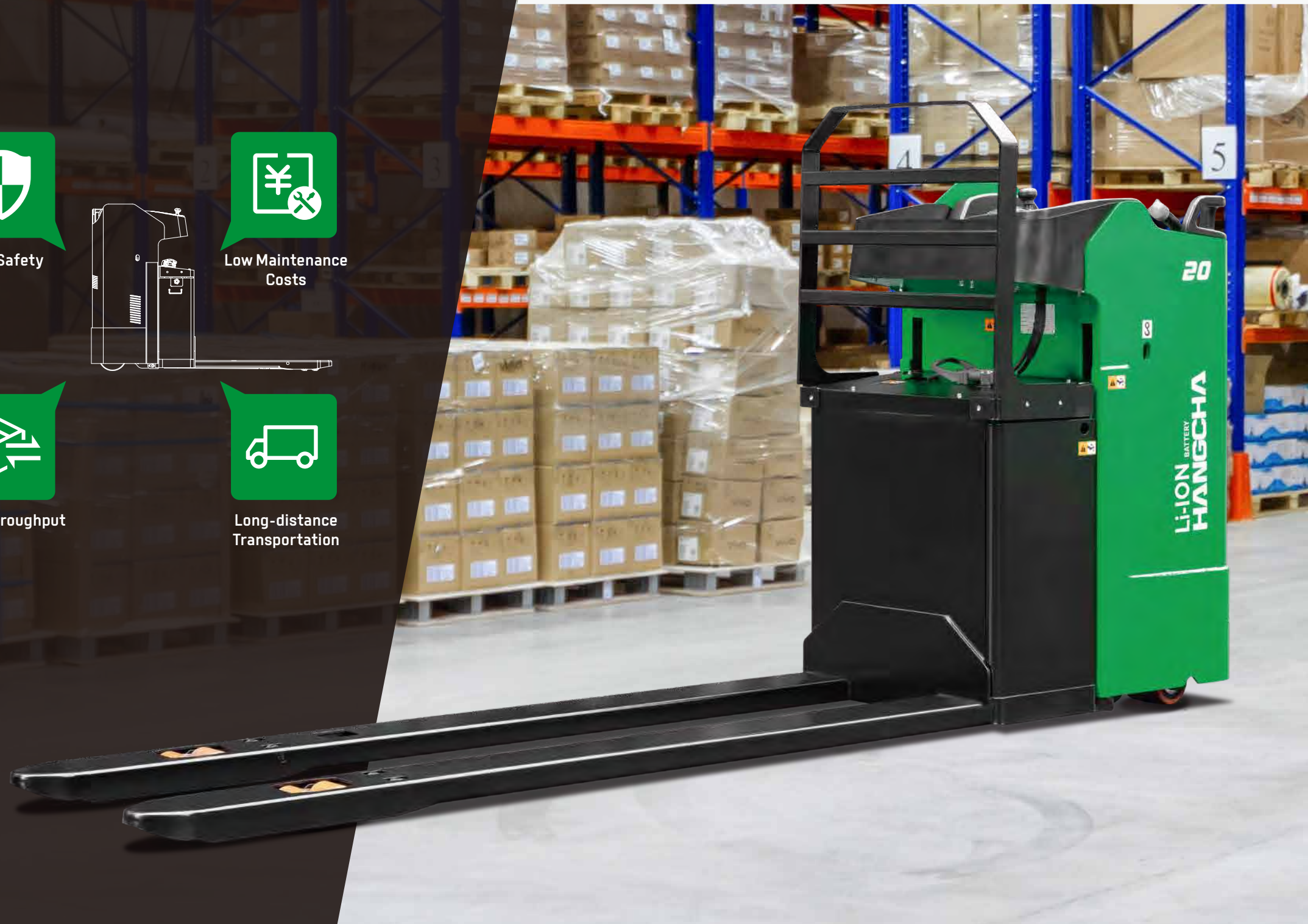
Battery



Standard side roll out design for easy replacement.

Energy recovery

Includes regenerative braking and anti-slip protection on slopes.



COMFORT



Multi-layer Cushioned footplate

Enhances comfort for operators.



Foldable seat

Supports both standing and sitting operation modes, ideal for long-distance transportation.



Knee protection pad

Enhances safety and comfort during seated operation.

Precision steering Feedback

Provides a smooth driving experience with torque feedback.



Adjustable seat Cushion angle

Adapts to operators of different heights and body types.



Convenient handgrip

Facilitates easy boarding.



Instrument panel

Includes wheel position display for better directional control.



Flexible fork options

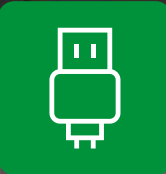
Various fork lengths and widths are available to accommodate different pallet types.



Additional features

Built-in cup holder, USB charging port, and A4-sized storage space.

Usb Charging Port



Built-in Cup Holder



A4 Paper Space



RELIABILITY



Robust Frame design

High-strength structure ensures durability under various working conditions.



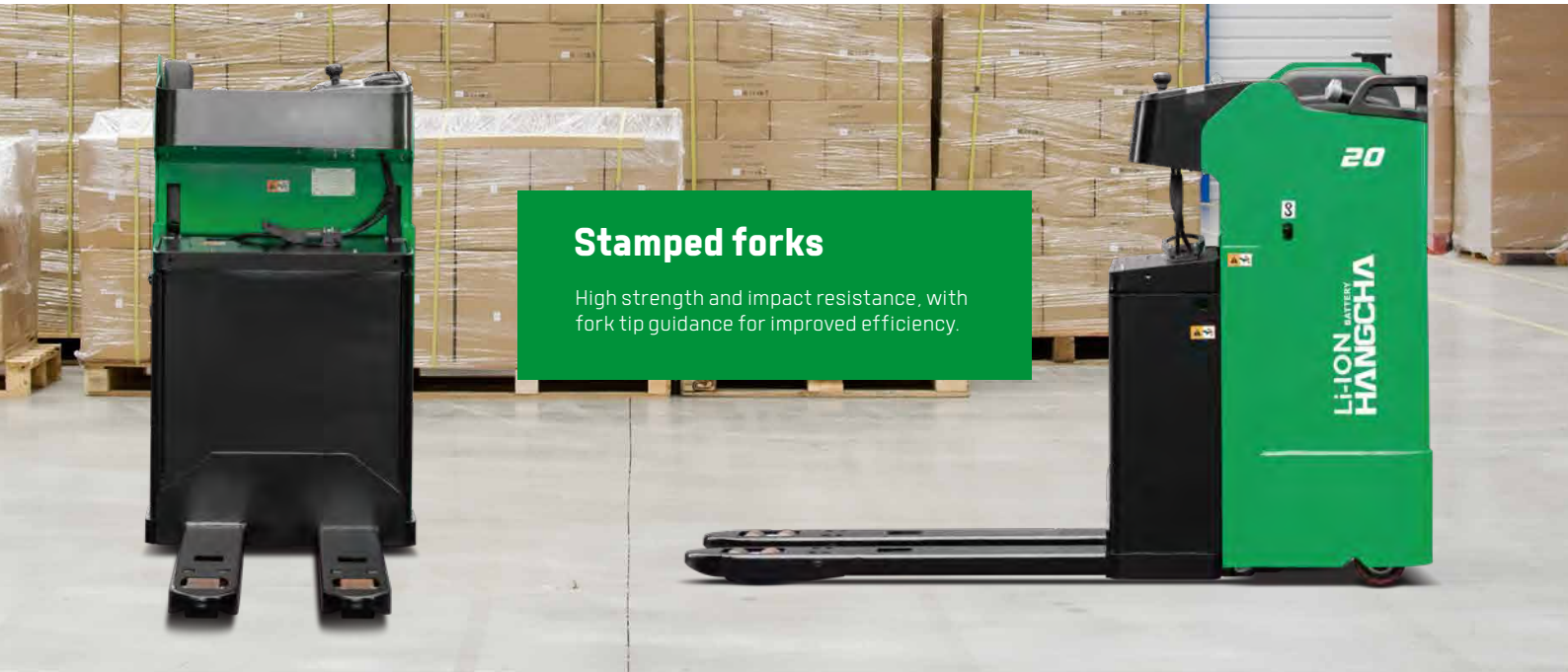
Optimized Mast design

Ensures smooth and reliable lifting with minimal stress.



Waterproof Electrical components

All wiring and connectors are protected, enhancing the reliability of the electrical system.



Stamped forks
High strength and impact resistance, with fork tip guidance for improved efficiency.

SAFETY

Braking systems
Features release braking, foot-operated braking, and emergency braking for enhanced safety.



Electronic lifting limitation
Avoids impact at the top of the lift, protecting both the motor and cargo.



Anti-slip protection
Prevents vehicle rollback on slopes.

MAINTENANCE AND SERVICE

Interactive instrument panel

Directly displays fault information, eliminating the need for manual troubleshooting.

Easy access design

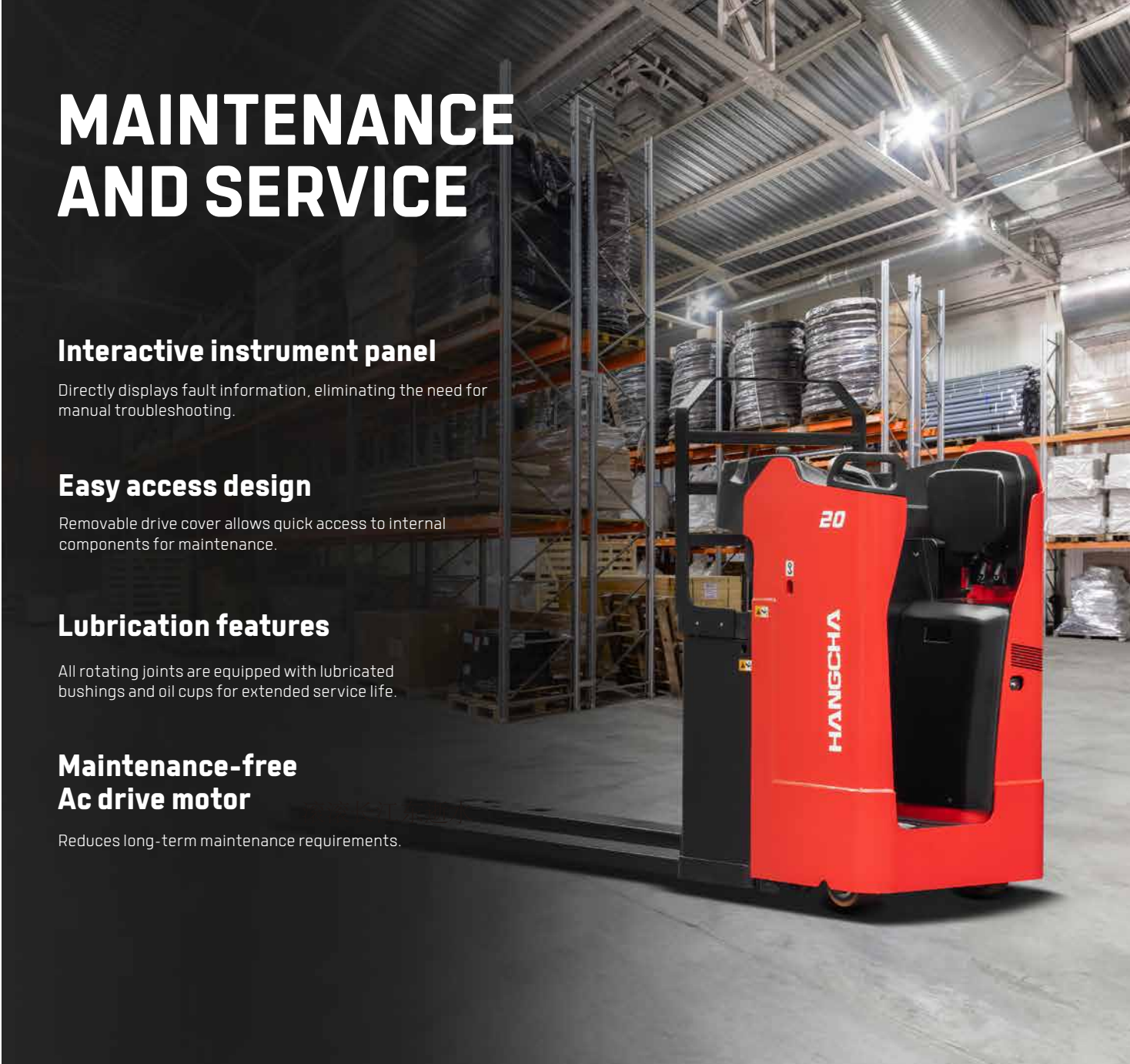
Removable drive cover allows quick access to internal components for maintenance.

Lubrication features

All rotating joints are equipped with lubricated bushings and oil cups for extended service life.

Maintenance-free Ac drive motor

Reduces long-term maintenance requirements.



LITHIUM POWERED

EMPOWER YOURSELF WITH THE BEST



Li
Lithium

POWER THE POSSIBILITIES
RELIABLE LITHIUM-ION TECHNOLOGY

LITHIUM BATTERY ADVANTAGES



Long service life

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



Return on investment

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



Maintenance free

No topping up of water or checking acid levels.



High energy density

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



Cold area application

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



High safety and reliability

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



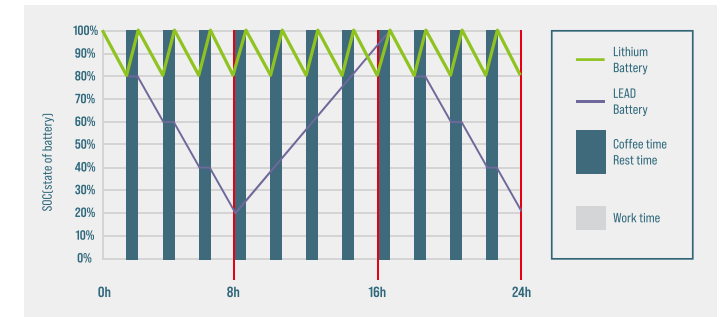
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

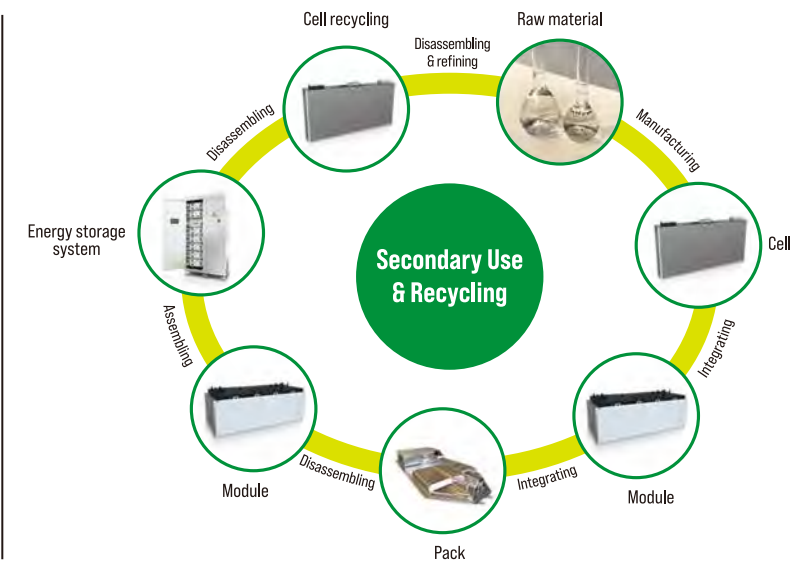
Efficiency

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.



QUESTION 1

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

Charging temperature: -30 °C -55 °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



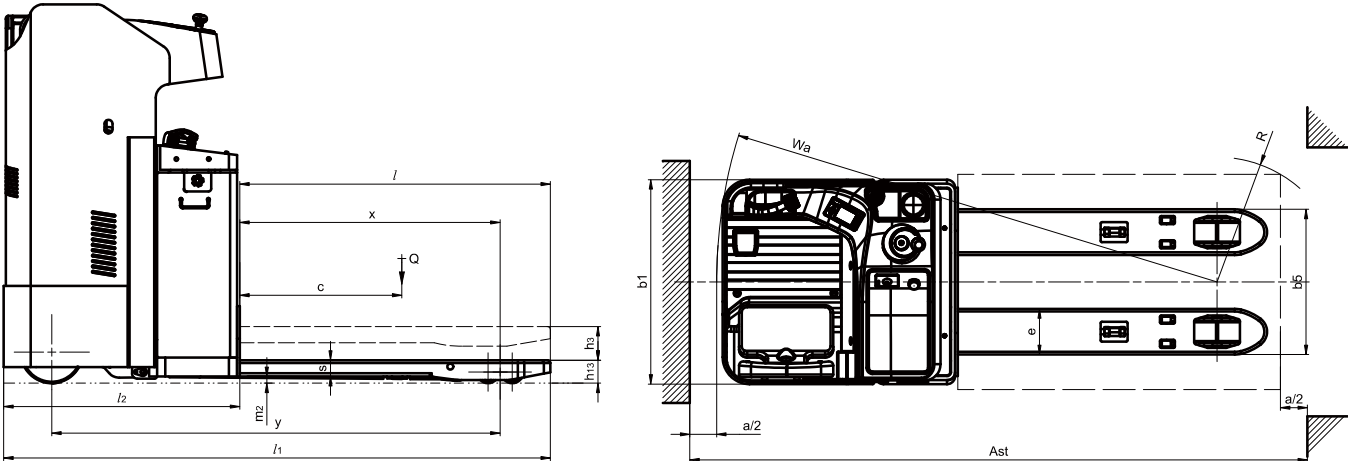
Other Features:

- 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		CBD20-XAC1RS★/CBD20-XA01RS★	CBD20-XAC1RS-I★/CBD20-XA01RS-I★
	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
	1.6	Load centre distance	c (mm)	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	896/964	896/964
	1.9	Wheelbase	y (mm)	1592/1660	1592/1660
	1.9	Wheelbase	y (mm)	1592/1660	1592/1660
Weight	2.1	Service weight	kg	950	835
	2.2	Axle loading, laden front/rear	kg	1115/1835	1035/1800
	2.3	Axle loading, unladen front/rear	kg	690/260	610/225
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU
	3.2	Tyre size, front		Ø230-75	Ø230-75
	3.3	Tyre size, rear		Ø83-80	Ø83-80
	3.4	Additional wheels (dimensions)		Ø140-55	Ø140-55
	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)	370	370
Dimensions	4.4	Lift	h3 (mm)	125	125
	4.8	Stand height	h7 (mm)	245	245
	4.15	Height, lowered	h13 (mm)	85	85
	4.19	Overall length	l1 (mm)	2024	2024
	4.20	Length to face of forks	l2 (mm)	874	874
	4.21	Overall width	b1/b2 (mm)	760	760
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	60/170/1150	60/170/1150
	4.25	Fork spread	b5 (mm)	540	540
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	25	25
	4.34.1	Aisle width for pallets 1000 • 1200 crossways	Ast (mm)	2662 ¹⁾	2662 ¹⁾
	4.34.2	Aisle width for pallets 800 • 1200 lengthways	Ast (mm)	2526 ²⁾	2526 ²⁾
Performance data	4.35	Turning radius	Wa (mm)	1792/1860	1792/1860
	5.1	Travel speed, laden/unladen	km/h	10/12.5	10/12.5
	5.2	Lift speed, laden/unladen	m/s	0.04/0.06	0.04/0.06
	5.3	Lowering speed, lade/unladen	m/s	0.07/0.06	0.07/0.06
	5.8	Max. gradeability, laden/unladen	%	6/12	6/12
Electric-engine	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	1.2	1.2
	6.4	Battery voltage/nominal capacity	V/Ah	24/375	24/230
	6.5	Battery weight	kg	297	80

Note: 1) according to VDI2198 standard+415mm. 2) according to VDI2198 standard+230mm
Note: ★ CE model



This product combines advanced technology, user-friendly design, and robust safety features, making it an ideal solution for efficient material handling in demanding environments.



Features

Truck	Standard	Options
24V AC Drive Motor	●	
Electric Steering	●	
Polyurethane Wheels	●	
Fork Length: 1150 mm	●	
Fork Outside Width: 540 mm	●	
Electronic Lifting Limitation	●	
Fixed Support Wheel	●	
Dual Load Wheels	●	
USB Power Supply	●	
Turning Deceleration	●	
Multi-Layer Footplate Cushioning	●	
Knee Protection Pad	●	
Side-Removable Battery	●	
Boarding Handgrip	●	
Folding Seat	●	
Fork Length: 2400 mm		○
Fork Outside Width: 680 mm		○
Load backrest		○
Packaging Film Holder		○
Controls and instruments		
Controller	●	
Hydraulic Power Unit	●	
Interactive Meter	●	
Standing Footplate Switch	●	
Key Switch	●	
PIN code Access		○
Safety		
Horn	●	
Electromagnetic Brake	●	
Beeper		○
Lights		
Blue Light		○