



SHANDONG HONGTAI MACHINERY

NEW ENERGY ELECTRIC FORKLIFT

PRODUCT CATALOGUE 2026

Shandong Hongtai Machinery Co., Ltd.

CPD-15	CPD-20	CPD-30
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HONGTAI MACHINERY · ELECTRIC FORKLIFT CATALOGUE 2026
FACTORY DIRECT · GLOBAL DELIVERY · OEM / ODM

GREEN POWER · SMART FUTURE | QUALITY · SERVICE · INNOVATION

Company Profile & Manufacturing Excellence

Shandong Hongtai Machinery · New Energy Electric Forklift Manufacturer

Headquartered in Shandong, China's construction machinery hub, Hongtai Machinery is a professional new energy electric forklift manufacturer integrating R&D, production, sales and service.

Our core product lineup covers 1.5T / 2.0T / 3.0T series, all equipped with CATL lithium batteries and PMSM drive. Featuring one-piece stamped steel chassis and heavy-duty drive axles, our forklifts deliver zero emissions, low noise, long runtime and easy maintenance — certified by national type-test authorities and exported worldwide.



3+

Tonnage Series

60_v

High-Voltage Platform

100%

100% Electric

170+

Countries Served

Factory Capability | Production · R&D · Quality Control

01

PRODUCTION SYSTEM

Integrated Manufacturing

Complete production lines covering stamping, welding, painting, assembly and inspection. One-piece stamped steel bodies with precision welding ensure structural strength and durability.

02

R&D; INNOVATION

Engineering & Innovation

Cross-functional R&D team of mechanical, electrical and industrial design engineers continuously optimizes chassis, drivetrain, battery management and operator ergonomics.

03

QUALITY CONTROL

Rigorous Quality Assurance

Every unit undergoes dynamic load, brake, battery aging, hydraulic pressure and gradeability tests before delivery — guaranteeing ready-to-use reliability.

Battery · Motor · Controller

CATL Lithium Battery & PMSM Drive System



宁德时代锂电·永磁同步电机

CATL Lithium Battery + PMSM Drive

High-Efficiency Electric Powertrain System

01

CATL Lithium Iron Phosphate Battery

Equipped with CATL LiFePO₄ batteries on a 60V high-voltage platform. Supports fast charging in 2–6 hours, long cycle life and high safety standards. Larger capacity configurations available on request.

02

Permanent Magnet Synchronous Motor

Dual-motor configuration for travel and hydraulic lifting, with power output ranging from 5–10 kW. Delivers instant torque response, lower energy consumption, zero emissions and low noise — significantly boosting loaded lifting efficiency.

03

Intelligent Motor Controller

Fitted with anti-rollback Hager controllers for smooth ramp start-stop and precise inching control. A full lighting and signaling package ensures all-weather operational safety.

04

Heavy-Duty Chassis Architecture

Floating one-piece cast steel / heavy-duty drive axle with steel-plate steering rear axle. High-wear solid tires are maintenance-free; hydraulic power steering enables 90° spot turning.

Three Electric Forklift Lines

1.5T / 2.0T / 3.0T — Full Range Coverage

Hongtai Machinery's full range of electric forklifts covers mainstream tonnages from 1.5T to 3.0T, meeting diverse material handling needs from light-duty warehousing to heavy-duty industrial applications. All models come standard with CATL lithium batteries, permanent magnet synchronous motors, hydraulic power steering and full-vehicle anti-corrosion metal paint.

		
CPD-15	CPD-20	CPD-30
1.5T Electric Forklift	2.0T Electric Forklift	3.0T Electric Forklift
COMPACT WAREHOUSE SERIES	HIGH-PERFORMANCE SERIES	HEAVY-DUTY SERIES
1.5 T Rated Capaci ty	2.0 T Rated Capaci ty	3.0 T Rated Capaci ty
3m Lift Height	3m Lift Height	4.5 m Max. Lift
5h Charge Time	2h Fast Charge	6-8 h Runtim e

1.5T Electric Forklift

COMPACT WAREHOUSE SERIES

The CPD-15 is Hongtai's compact electric forklift designed for light-duty warehousing and small factory operations. Powered by a 5000W brushless motor and CATL 200Ah lithium battery, it features a narrow 1100 mm body for tight-aisle operation and 30° gradeability for daily loading tasks — an ideal choice for light industry, wholesale & retail, and small warehouses.



- 5000W brushless travel motor
- CATL 200Ah lithium battery
- One-piece stamped steel chassis
- C-channel mast · 3 m lift height
- Hydraulic power steering
- Electric sensing seat

Technical Specifications

Category	Parameter	Specification	Remarks
Technical Specs	Max. Lifting Capacity	1500 kg	Standard pallet handling
Technical Specs	Overall Length (excl. forks)	1800 mm	Compact chassis design
Technical Specs	Overall Length (incl. forks)	2800 mm	Std. 1.22 m forks
Technical Specs	Overall Width / Height	1100 / 2150 mm	Narrow-aisle friendly
Technical Specs	Service Weight	2000 kg	Stamped steel chassis
Electrical System	Travel Motor	5000W Brushless Motor	—
Electrical System	Operating Voltage	60V	—
Electrical System	Traction Battery	CATL 200Ah Li-ion	—

Category	Parameter	Specification	Remarks
Electrical System	Lighting & Signals	Headlights / Turn signals / Brake lights / Instrument cluster / Electric horn	Full package
Chassis System	Drive Axle / Steering Axle	Forklift-specific front axle / Forged steel rear axle	—
Chassis System	Tire Specification	Front 500-8 solid / Rear 400-8 solid	Maintenance-free
Chassis System	Braking System	Hydraulic brake	—
Other Config.	Lifting Cylinder	Reinforced sealed dual cylinders	—
Other Config.	Hydraulic Motor	5000W Brushless power unit	—
Other Config.	Mast	C-channel steel	3 m standard lift
Other Config.	Gradeability / Charging	30° / Standard charge 5 h	—
Other Config.	Standard Accessories	Tool kit / Adjustable fast/slow charger	Ready for delivery

2.0T Electric Forklift

HIGH-PERFORMANCE SERIES

The CPD-20 is Hongtai's best-selling model. Driven by dual 7.5 kW permanent magnet synchronous motors and a CATL Type-300 lithium battery, combined with a floating one-piece cast steel front axle and reinforced stamped chassis, it delivers 2-ton load capacity with zero emissions, low noise and agile handling. Fast charging in 2 hours and up to 6 hours of continuous runtime make it the top choice for modern warehousing and logistics centers.



- Dual 7.5 kW PMSM motors
- CATL Type-300 lithium battery
- Fast charge 2 h / 6 h runtime
- Floating cast-steel front + steel rear axle
- 90° spot turning · 35° gradeability
- Multiple fork lengths (1.07–1.52 m)

Technical Specifications

Category	Parameter	Specification	Remarks
Technical Specs	Max. Lifting Capacity	2000 kg	Heavy-duty pallet handling
Technical Specs	Overall Length (excl. forks)	2300 mm	Compact chassis design
Technical Specs	Overall Length (incl. forks)	3370 mm	Multiple fork lengths available
Technical Specs	Overall Width / Height	1200 / 2150 mm	Wide-view mast
Technical Specs	Service Weight	2800 kg	High-density iron-sand counterweight
Electrical System	Travel Motor	7.5 kW PMSM AC motor	Dual-motor setup
Electrical System	Hydraulic Lift Motor	7.5 kW PMSM	—

Category	Parameter	Specification	Remarks
Electrical System	Voltage / Battery	60V / CATL Type-300 Li-ion	Fast charge 2 h
Electrical System	Lighting & Signals	Headlights / Turn signals / Brake lights / LCD instrument / Electric seat / Explosion-proof valve / Pressure relief valve	Premium configuration
Chassis System	Front Axle / Rear Axle	Floating one-piece cast steel front / Steel-plate steering rear	—
Chassis System	Tire Specification	Front 650-10 solid / Rear 500-8 solid	High-wear, maintenance-free
Chassis System	Braking System	Parking brake + Hydraulic brake	Dual braking system
Other Config.	Lift Cylinder / Mast	Reinforced sealed dual cylinders / 120 mm dedicated steel mast	3 m lift height
Other Config.	Fork Length	1.07 m / 1.22 m / 1.37 m / 1.52 m optional	Customizable
Other Config.	Turning Radius	90° spot turning	Narrow-aisle capable
Other Config.	Gradeability	35°	—
Other Config.	Charging / Runtime	Fast 2 h / Standard 5 h · Up to 6 h runtime	—
Other Config.	Standard Accessories	Overhead guard / Charger / Certificate of conformity	Ready for delivery

3.0T Electric Forklift

HEAVY-DUTY FLAGSHIP SERIES

The CPD-30 is Hongtai's flagship model built for heavy-duty industrial applications. Equipped with a CATL 350Ah high-capacity lithium battery and dual 10 kW PMSM motors, it features a floating heavy-duty drive axle, 1480 mm manganese steel mast and 1220 mm extra-thick forged forks. Lift heights of 3–4.5 m, 35° gradeability and a rain canopy make it perfectly suited for outdoor yards, port terminals and large manufacturing plants.



- Dual 10 kW PMSM motors
- CATL 350Ah high-capacity Li-ion
- 1480 mm Mn-steel mast · up to 4.5 m
- Heavy-duty drive axle + forged forks
- Anti-rollback Hager controller
- Rain canopy · 6–8 h long runtime

Technical Specifications

Category	Parameter	Specification	Remarks
Technical Specs	Max. Lifting Capacity	3000 kg	Heavy-duty industrial handling
Technical Specs	Overall Length (excl. forks)	2800 mm	Heavy-duty design
Technical Specs	Overall Length (incl. forks)	3900 mm	Std. 1.22 m forged forks
Technical Specs	Overall Width / Height	1300 / 2600 mm	Wide-view high mast
Technical Specs	Service Weight	4300 kg	High-density iron-sand counterweight
Electrical System	Travel Motor	10 kW PMSM	Heavy-duty dual motors
Electrical System	Hydraulic Lift Motor	10 kW PMSM	—

Category	Parameter	Specification	Remarks
Electrical System	Voltage / Controller	60V / Anti-rollback Hager controller	Safe ramp start-stop
Electrical System	Traction Battery	CATL 350Ah Li-ion	6–8 h runtime
Chassis System	Front Axle / Rear Axle	Floating one-piece heavy-duty low-speed drive / Forklift-specific heavy-duty rear	—
Chassis System	Tire Specification	Front 650-10 / Rear 500-18×7 high-wear solid	All-terrain capable
Chassis System	Braking System	Power-off parking brake + Hydraulic brake	Dual safety braking
Other Config.	Lift Cylinder / Mast	Reinforced sealed dual cylinders / 1480 mm manganese steel mast	3–4.5 m lift height
Other Config.	Forks	1220 mm extra-thick forged forks	High yield strength
Other Config.	Turning Radius / Gradeability	90° spot turning / 35°	Demanding conditions
Other Config.	Charging / Runtime	Standard charge 6 h · 6–8 h runtime	Single-shift coverage
Other Config.	Standard Accessories	Rain canopy / Fast charger	Outdoor-ready

* Chassis dimensions, lift heights, side shifters and other special configurations can be customized upon request.

QUALITY & COMPLIANCE

Certifications

Certifications & Quality Assurance

Our products and key components are certified by national authoritative bodies, covering whole-vehicle type testing, special equipment manufacturing licensing and quality management system certification.

Every forklift is delivered with a Certificate of Conformity and inspection report.

T Type-Test Certificate CPD-15 / CPD-20 / CPD-30	L Special Equipment Mfg. License SAMR (China)	Q ISO 9001 Quality System Quality Management Certified	B Battery UN38.3 Certification Li-ion Transport Safety
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Where Our Forklifts Work

Industry Scenarios & Use Cases



Warehousing & Logistics Centers

Narrow-aisle operation, high-bay rack stacking and pallet loading/unloading. Zero-emission indoor operation ideal for e-commerce, cold-chain and 3PL warehouses.

Manufacturing Facilities

Production-line material transfer, finished-goods warehousing and raw-material handling. Low-noise operation avoids disrupting production environments; supports multi-shift continuous duty.

Ports, Yards & Terminals

Container loading/unloading and outdoor yard transport. The 3.0T heavy-duty model with rain canopy is designed for outdoor weather and rugged terrain conditions.

Customization & Global Delivery

Flexible Customization for Global Clients

Hongtai Machinery provides flexible OEM/ODM customization services, supporting in-depth tailoring across configuration selection, body color, branding and attachment options to meet the differentiated requirements of global customers.

01

Configuration Customization

Chassis dimensions, lift heights, mast types, side shifters and fork lengths can all be tailored to your requirements.

02

Branding & VI Customization

Body color, corporate logo decals and brand livery painting — unified visual identity for your brand.

03

Attachment Options

Paper roll clamps, carton clamps, push-pulls, rotators and other attachments available for specialized load handling.

04

Global Delivery

Reinforced ocean-freight packaging, full export customs clearance service, plus overseas after-sales technical support.



Get In Touch

CONTACT HONGTAI

COMPANY	Shandong Hongtai Machinery Co., Ltd.
PRODUCTS	New Energy Electric Forklifts (1.5T / 2.0T / 3.0T)
SERVICES	Factory Direct · Global Delivery · OEM/ODM Customization
PHILOSOPHY	Quality · Service · Innovation

GREEN POWER · SMART FUTURE