



ELECTRIC HEAVY DUTY FORKLIFT SERIES



**SOCMA POWER
LIFT YOUR BUSINESS**

FUJIAN SOUTHCHINA HEAVY MACHINERY MANUFACTURE CO., LTD

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HNF350-EL PURE ELECTRIC HEAVY-DUTY FORKLIFT



INNOVATION

It not only simply replaces the diesel engine with an electric motor, but also completely optimizes the hydraulic system.

Independently develop variable speed and fixed displacement control system, global power matching, on-demand fuel supply, and reduction of throttling and overflow losses.

Coordinated control of multiple motors, reasonable matching of motor loads, optimized energy management, and efficient operation; time-sharing work, automatic idle shutdown, reducing idling energy consumption of motors and pumps.

Regenerate power for various negative loads and improve the energy utilization of the entire machine based on power lithium battery energy recovery.



The battery system is safe, highly efficient, and has a long life, and can be used normally for 8 years, solving the pain points that users are concerned about.

- ◆ Using lithium iron phosphate battery, it has good thermal stability and solves the risk of spontaneous combustion or deflagration caused by thermal runaway. Its safety is substantially improved compared to ternary lithium battery.
- ◆ Lithium iron phosphate batteries can be charged and discharged more than 2,800 times, and their service life is about 2.5 times that of ternary lithium batteries and 5 to 10 times that of lead-acid batteries.
- ◆ Advanced battery management system (BMS) provides all-weather real-time safety monitoring of overcharge, over-discharge, over-current, insulation resistance and battery operating temperature to ensure the safety, efficiency and longevity of each battery pack.

RELIABLE HIGH PERFORMANCE

- ◆ Electric vehicle-grade motors and controllers, complete vehicle component status monitoring, electrical system IP67 protection level, high-quality, mature hydraulic parts, flame-retardant material wires, reliable and durable, and adaptable to harsh working environments.
- ◆ Intelligent electronic fan and efficient liquid cooling system to prevent overheating protection and shutdown.
- ◆ The battery has its own heating system and works normally in the environment of -30~+55℃ (-22~131°F).
- ◆ The working device is fully electronically controlled and multi-mode switching, making it safer to transport precise equipment; the independent motor drive for walking and the electronic throttle system facilitate various compound action conditions.

STRONG BATTERY LIFE

Independently research and develop the complete machine drive scheme and integrated management and control system, with high-efficiency interval operation, and the recovery of walking braking kinetic energy for regeneration to generate electricity, which significantly reduces power consumption and improves endurance under the same conditions. 350 kWh large-capacity lithium battery, SOC charging takes 1.2 hours and works for 8 hours.

COMFORTABLE AND ENVIRONMENTALLY FRIENDLY

Zero emission, zero pollution: There is no exhaust gas emission during driving and working.
Low noise: The noise emitted by the electric motor during operation is much smaller than that of the high-power diesel engine of engineering machinery.
Low Vibration: The vibration generated by the electric motor is much lower than that of the diesel engine, significantly improving the driving experience.
Easy to operate: Intelligent, fully electronic control system reduces labor intensity.

Item	Unit	HNF350-EL
Power Source		Electricity
Rated load	(kg)	35000
Load center	(mm)	1250
Wheelbase	(mm)	4800
Deadweight	(kg)	43000
Tire specifications: front		16.00-25-32PR
Tire specifications: rear		16.00-25-32PR
Number of wheels front/rear		4\2
Wheel track: Front	(mm)	2400
Wheel track: Rear	(mm)	2450
Mast front/rear tilt angle	(°)	6\12
Min. Mast height (lowered)	(mm)	4010
Standard lifting height	(mm)	3500
Maximum height during operation	(mm)	5760
Overhead guard height (cab height)	(mm)	3860
Total length (including fork)	(mm)	9700
Distance from the vertical front surface of the fork to the rear end of the vehicle	(mm)	7150
Overall width	(mm)	3320
Fork size	(mm)	2440X320X125
Fork carriage width	(mm)	3050
Minimum ground clearance under mast (fully loaded)	(mm)	380
Minimum ground clearance at wheelbase center (fully loaded)	(mm)	460
Minimum turning radius	(mm)	7260
Travelling speed (full load/no load)	km/h	24/22
Maximum lifting speed (full load/no load)	mm/s	260/280
Maximum lowering speed (full load/no load)	mm/s	360/300
Gradeability (full load)	%	15
Service brake		Wet brake
Parking brake		Caliper disc spring brake
Battery Type		Lithium Iron Phosphate
Battery cooling method		Liquid Cooling
Rated Energy Storage Capacity	kWh	350
Rated capacity	Ah	604
Nominal Voltage	V	579.8
Full charge and discharge cycles	Sec-	2800
Charging time	ond-rate	1.3-1.4
Power consumption	h	35-45
Motor Type	kWh/h	Permanent magnet synchronous motor
Motor rated power		157
Transmission Type	kW	Motor direct drive
Motor Type		Permanent magnet synchronous motor
Motor rated power		120
System pressure	kW	20
Steering Type	MPa	Full hydraulic steering
Steering pressure		14
Steering method	MPa	Horizontal cylinder steering

Note: The above data are subject to change without prior notice



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