

INTERTRAC

Material Handling ☎ 900 818 978



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ELECTRIC HEAVY DUTY FORKLIFT SERIES



**SOCMA POWER
LIFT YOUR BUSINESS**

HNF300-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.

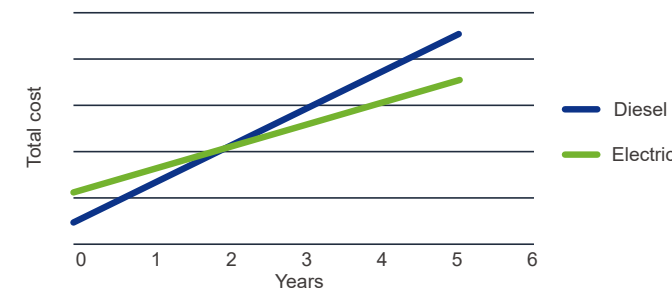
Independently develop variable speed and fixed displacement control system, global power matching, on-demand fuel supply, and reduction of throttling and overflow losses.

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.



ECONOMY



- ◆ Low cost of use: The cost of electricity is about 20~30% of the fuel consumption of traditional construction machinery.
- ◆ Low maintenance cost: fewer wearing parts, low failure rate, and simple maintenance; there is no need for regular maintenance of the diesel engine, replacement of oil, three filters, etc., and the maintenance cost is reduced by more than 50% compared with traditional diesel engineering machinery.

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°C (-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.

Model designation		Unit	HNF300-EL
Features	Power form		(lithium battery) pure electric
	Rated load	(kg)	30000
	Load center distance	(mm)	1250
	Wheelbase	(mm)	4800
Weight	self-respect	(kg)	40000
Chassis	Tire specifications: front		14.00-24-32PR
	Tire specifications: rear		14.00-24-32PR
	Number of wheels front/rear (x=drive wheels)		4\2
	Wheelbase: front	(mm)	2420
	Wheelbase: rear	(mm)	2390
Size	Mast front/rear inclination angle	(°)	6\12
	Height when mast is retracted	(mm)	3950
	Standard lifting height	(mm)	3500
	The mast can be lifted freely	(mm)	-
	Maximum height during operation	(mm)	5700
	Overhead guard height (cab height)	(mm)	3800
	Total length (including fork length)	(mm)	9590
	The distance from the vertical front surface of the fork to the rear end of the vehicle	(mm)	7150
	total width	(mm)	3200
	Fork size	(mm)	2440X320X110
	Fork carriage width	(mm)	3100
	Minimum ground clearance under mast (full load)	(mm)	350
	Minimum ground clearance at wheelbase center (full load)	(mm)	410
	Minimum turning radius	(mm)	7260
	Operating speed (full load/no load)	km/h	20/22
	Maximum lifting speed (full load/no load)	mm/s	260/280
	Maximum descent speed (full load/no load)	mm/s	250/180
Parameter	Traction	KN	141
	Gradeability (full load/no load)	%	15/20
	service brake		wet brake
	parking brake		Clamp disc spring brake
	Battery Type		Lithium Iron Phosphate
Battery parameter	Battery cooling method		liquid cooling
	Battery Rated Stored Energy	kWh	350
	Battery rated capacity	Ah	302x2
	Q	V	579.6
	Number of complete charge and discharge cycles	time	2800
	Theoretical service life	year	8
	Charging time	h	1.25-1.5
	power consumption	kWh/h	33-41
	Motor type		Permanent magnet synchronous motor
Driving motor	Motor rated power	kW	157
	transfer method		Motor direct drive
	Motor type		Permanent magnet synchronous motor
Hydraulic system	Motor rated power	kW	105
	System pressure	MPa	20
	Steering Type		Fully hydraulic steering
	steering pressure	MPa	14
	steering method		Horizontal cylinder steering

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

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