	Items	Uint	HNF160-1200EL
特性 Features	Power type 动力型式	-	Lithium Battery
	Rated Load 额定载荷	t	16
	Load center 载荷中心距	mm	1200
	Wheelbase 轴距	mm	3750
	Weight 自重	kg	27250
车轮底盘Chassis	Tyre Specs.:Front 轮胎规格：前	-	12.00-24-18PR
	TyreSpecs.:Rear 轮胎规格：后	-	12.00-24-24PR
	Tyres Qty,front/rear(X-drive wheels) 车轮数量 前/后(X-驱动轮)	-	4x/2
	Wheel tread: Front 轮距：前	mm	2035
	Wheel tread:Rear 轮距：后	mm	2250
基本尺寸 Dimensions	Mast/carriage tilt angle(front/rear) 门架/货叉架前/后倾角	Degree (°)	6/12
	Height of mast，lowered 门架回缩时高度	mm	3625
	Lift height 标准起升高度	mm	3500
	Height of mast，extended 作业时最大高度	mm	5375
	Height to head guard(height to cab) 护顶架高度(驾驶室高度)	mm	3250
	Overall length(with forks) 总长(含货叉长度)	mm	7620
	Length to fork face 货叉垂直前表面至车辆后端距离	mm	2750
	Overall width 总宽	mm	2720
	Fork dimension 货叉尺寸	mm	1800X220X110
	Fork carriage width 货叉架宽度	mm	2750
	Ground clearance under mast(with load) 门架下最小离地间隙（满载）	mm	300
	Ground dearance at wheelbase center (loaded) 轴距中心最小离地间隙（满载）	mm	415
	Min.Turning radius 最小转弯半径	mm	5700
功能参数 Performance	Travel speed(loaded/unloaded) 运行速度(满载/无载)	km/h	23/26
	Max.lifting speed(loaded/unloaded) 最大起升速度(满载/无载)	mm/s	350/400
	Max. Lowering speed(loaded/unloaded) 最大下降速度(满载/无载)	mm/s	400/300
	Traction 牵引力	kN	110
	Gradeablity(loaded/unloaded) 爬坡度(满载/无载)	%	24/28
	Driving brake 行车制动	-	湿式制动 Wet discs
	Parking brake 停车制动	-	钳盘式弹簧制动 Clamp disc spring brake
电池参数Battery Parameter	Battery type 电池类型		磷酸铁锂 Lithium iron phosphate
	Battery cooling method 电池冷却方式		液冷 liquid cooling
	Battery Rated Stored Energy 电池额定存储能量	kWh	200
	Battery voltage 标称电压	V	618
	Charging cycle 完全充放电循环次数	time	4500
	Theoretical service life 理论使用寿命	yr	8
	Charging time (based on the charging power) 充电时长（根据充电桩功率）	h	0.8-1.2
	Energy consumption 耗电量	kWh/h	18-25
驱动电机 Driving Motor	Motor type 电机类型		120
	Motor rated power 电机额定功率	kW	永磁同步电机 Permanent magnet synchronous motor
	Transmission type 传动方式		电机直驱 Direct Drive Motor
液压系统Hydraulic System	Motor type 电机类型		永磁同步电机 Permanent magnet synchronous motor
	Motor rated power 电机额定功率	kW	90
	System pressure 系统压力	MPa	20
	Steering form 转向形式		全液压转向Fully hydraulic steering
	Steering pressure 转向压力	MPa	14
	Steering method 转向方式		横置式油缸转向Horizontal cylinder steering

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

Optional attachment



Tire clamp



Pipe Stabiliser



Pulp Bag Clamp



HNF160-1200EL

Electric Heavy-Duty Forklift 电动重型叉车

FUJIAN SOUTHCHINA HEAVY MACHINERY MANUFACTURE CO., LTD

www.socma-forklift.com

BATTERY & ENERGY EFFICIENCY

618V

618V vehicle-grade high-voltage lithium platform with lower line loss and less heat generation, cutting comprehensive power consumption by over **20%** vs. ordinary low-voltage electric forklifts

200KWH CATL

200kWh high-capacity LFP battery pack, standard with **CATL** original battery, supporting long-endurance multi-shift heavy-duty operations

0.8-1.2H

0.8-1.2 hours ultra-fast charging, compatible with **GB/EU** high-power chargers, fully charged in 0.8h at fastest, with refueling efficiency on par with fuel forklifts

4500 Cycles

4,500 charge-discharge cycles with **8-YEAR** theoretical service life. Matched with liquid-cooling control, it greatly reduces life-cycle replacement costs

18~25KWH/H

18-25kWh/h heavy-duty energy consumption, saving over **70%** energy costs vs. same-tonnage fuel forklifts, with no engine maintenance expense







POWER & PERFORMANCE

140kW + 90kW PMSM direct-drive power: 140kW travel motor + 90kW hydraulic motor, integrated gearbox design with low loss and fast response

110kN maximum traction force: strong power for heavy-load start and slope driving, fully on par with same-tonnage IC engine forklifts

24% (loaded) / 28% (unloaded) gradeability: easily handling steep slopes, loading platforms and container ramps

23km/h (loaded) / 26km/h (unloaded) travel speed: for higher efficiency in long-distance material transfer

350mm/s (loaded) / 400mm/s (unloaded) lifting speed: for faster stacking and loading cycles

Maintenance & Convenience

45°-70° tiltable cabin, with side-access battery and accessible layout, making daily maintenance fast and efficient



Protection & Safety

IP67 protection rating for motors, controls and HV components, water & dust proof for harsh environments

5-layer safety system: HV interlock, insulation monitoring, MSD one-touch disconnect, OPS seat lock, wet brake

Comfort

Full-suspension shock-absorbing cabin, effectively filtering road bumps and operation vibration. Optional fully enclosed air-conditioned cabin, full-suspension seat and fingertip control lever greatly improve driving experience

Chassis & Maneuverability

300mm (under mast) / 415mm (wheelbase center) ground clearance under full load, passing potholes and speed bumps easily

5,700mm minimum turning radius for this 16-ton unit, with fully hydraulic steering for precise and agile handling

6° forward / 12° backward mast tilt, preventing cargo falling and ensuring stable high-level

Heavy-duty chassis structure on par with IC engine forklifts. The drive axle, steering axle and tires adopt the same heavy-duty structure, supporting long-time high-load continuous operation with matching strength and durability

SOCMA