

# ELECTRIC WHEEL LOADER



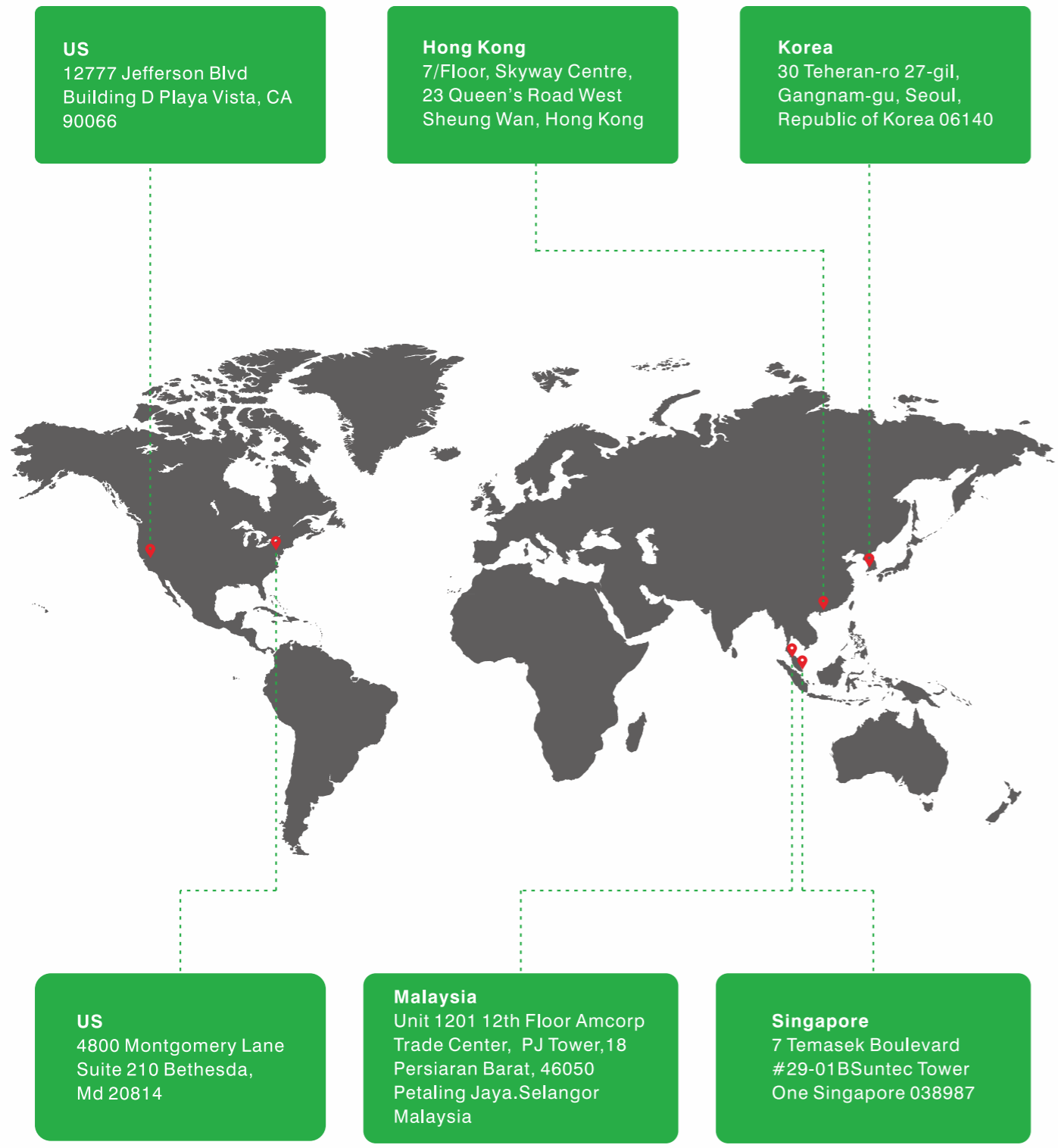
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**“ We’re Changing the Way the World Thinks About Machinery “**

***New Energy Asia Pacific Co., Ltd***

as part of the effort to make construction more sustainable, we are rolling out all-electric versions of traditional construction vehicles. Electric construction equipment isn’t a new concept. Hybrid electric machines have been available for years, and all-electric models of excavators, loaders, dump truck and other heavy machinery are currently available over the world. In coming years, electric heavy machinery will join the ranks of electric cars and public transportation as an eco-friendly alternative, it will be the push for sustainable construction practices intensifie.



# ELECTRIC WHEEL LOADER

## KEY FEATURES

eTECH Electric Wheel Loaders feature the perfect combination of productivity and great cost of ownership. Industry leading maneuverability and a range of popular capacities enable the product to meet even more of your material handling needs.



Convenient access ports for easy vehicle maintenance



Powerful battery system grants the strength for heavy tasks



All-Lithium system provides 9 hours operation time from a single 2 hour charge



Air conditioning provides operator comfort even in the harshest heat



Quick hitch provides a secure changing of front attachments



Monitor controller gives real time display of vehicle status



## ELECTRIC WHEEL LOADER

The hydraulic system and the traveling system are independently driven, which is simple, reliable, energy-saving and efficient; the traveling motor is driven by the torque / speed / power mode compound, with strong power, and the driving force is superior to the traditional loader of the same tonnage.

Through reasonable calculation and selection, reasonable arrangement of cooling pipes and intelligent control of heat dissipation system, the temperature of each high-voltage electrical component of the vehicle and the temperature of hydraulic oil/gear box gear oil can always be kept within the normal working temperature range during long-term work.

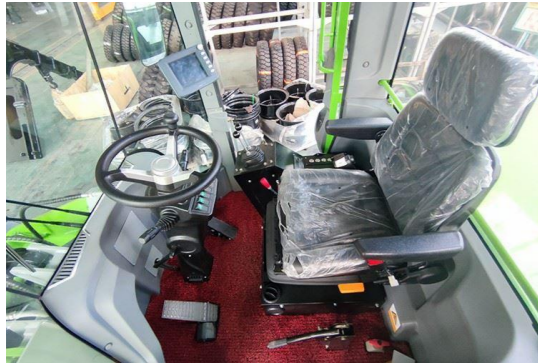
The gears are all used in the front two and the rear, and the planetary gearbox has a more reasonable transmission ratio, which can meet the requirements of traction and speed at the same time, and is more suitable for complex and changeable working conditions.

V-shaped working conditions, transition distance of 20 meters, no need to stop Low-speed switching, using electro-hydraulic proportional shift control system, smooth control without impact.



# ELECTRIC WHEEL LOADER

## LOW ENERGY CONSUMPTION & LOW NOISE



- Independently developed special load positive flow control system with variable speed, good controllability, good low speed performance, supply on demand, can reduce overflow loss during unloading, energy saving and high efficiency, 1 hour comprehensive energy consumption 30-35kwh.
- After Testing the noise in the cab is as low as 60-75dB, which greatly reduces the harm of noise pollution to the driver.

## SUPER VEHICLE SAFETY



- The whole vehicle is designed through industrial optimization to ensure excellent overall performance and equipment safety.
- Intelligent man-machine interface, real-time monitoring of vehicle status, real-time diagnosis and protection of multi-level software/hardware faults, and support for remote troubleshooting

## LONG BATTERY LIFE

- adopts AC/DC dual-mode charging, which can directly supply power to the mains, realize diversification of the work site, improve endurance and save operating costs
- The walking system can recover energy from braking, and the hydraulic system can realize electrical energy recovery, which further improves the battery life of the vehicle.
- One charge only takes 1-2 hours (calculated by 120kW charging pile: 5T model supports dual-gun charging, and 240kW charging pile only takes 1 hour)



## HIGH-VOLTAGE SAFETY MANAGEMENT

- All high-voltage components, including battery packs, Electric motors, Motor controllers and other on-board electrical appliances, adopt high-grade insulation materials
- After an emergency occurs, the sensor will immediately feed back to the VCU and send instructions to the BMS through the VCU; BMS cuts off the main power circuit. At this time, except for the inside of the battery pack, other components have no high-voltage power.
- In case of abnormal connection at any point on the high-voltage circuit, a fault alarm will occur, and the high-voltage will be cut off immediately.



## LESS MAINTENANCE COST



- Automatic lift hood, special chassis and frame development for parts, reasonable layout of vehicle parts, easy maintenance; hydraulic braking is safe and reliable to reduce energy consumption and low maintenance cost

## WATERPROOF IP67



- It has passed the strict rain test.

# NE18-EL ELECTRIC WHEEL LOADER

Basic	Loading Rate (kg)	1,800
	Bucket Capacity (m <sup>3</sup> )	1.0
	Up digging Force (kN)	47
	Operating Weight (kg)	7,200
	Max.Dumping Height (mm)	2,230 / 2,450
	Dumping Distance 45° Angle (mm)	975 / 850
	Overall (mm)	6300 x 1920 x 3060
	Wheelbase (mm)	2,250
	Wheel Tread (mm)	1,500
	Bucket width (mm)	2,150
	Ground Clearance (mm)	270
	Turning Radius (External) (mm)	≤5,800
	Gradeability (%)	30.50
Battery Power System	Battery Type	LiFe PO
	Battery rated storage capacity (Kwh)	140.92
	Rated Capacity of Battery (Ah)	228
	Rated Voltage (V)	618.24
	Rounds of full charge and discharge cycles	4000up
	Theoretical Service Life	over 8 years
	Charge time	0.6-5.0h (Base on Charger)
Drive System	Travel Motor Type	Permanent Magnet Synchronous Motor
	Motor Rated (kW)	57
	Motor operating efficiency range (%)	86-98
	Transmission Gear	Front 2/Rear 1
	Max.Speed of Forward II (km/h)	10
	Max.Speed of Forward I (km/h)	26
	Max.Speed of Rear I (km/h)	10
	Max.Speed of Rear II (km/h)	26
	Nos.of Wheels	F2/R2
Driving Wheel	4 wheels Driving	
Size of Tire	16/70-20PR	
Hydraulic System	Main Pump Motor Type	Permanent Magnet Synchronous Motor
	Motor Rated (kW)	37.7
	Motor operating efficiency range (%)	86-98
	Pressure (Mpa)	16
	Flow Rate (L/min)	150
	Raising Time (s)	5
Total cycle time (s)	10	
Steering System	Steering gear Model	BZZ 5-E315C
	Pressure (Mpa)	15
	Steering Type	Ari culated frame steering
Braking System	Steering Angle	±32
	Travel brake	Clamp disc brake
	brake air pressure (Mpa)	12
Parking Brake	Parking Brake	Clamp disc brake

Note: Due to technological improvements, the above data are subject to change without prior notice.

# NE50-EL ELECTRIC WHEEL LOADER

Basic	Bucket Capacity Range (m <sup>3</sup> )	3
	Rated Load (kg)	5000
	Operating Weight (kg)	≈18500
	Max.Tractive Force (kN)	≥150
	Breakout Force (kN)	≥160
	Overall Dimensions (mm)	8700X3016X3380
	Dumping Height (mm)	3100 / 3400
	Dumping Distance (mm)	1100 / 1300
	Wheel base (mm)	3260
	Wheel Tread (mm)	2290
	Max.Truning Angle(°)	35
Battery Power System	Max Gradeability (%)	53%
	Battery Type	Lithium iron phosphate
	Ambient Temperature (°C)	-35~+60
	Themal Management Model	Heating film heating, water cooling
	Rated Energy Capacity (kwh)	282
	Rated Capacity (Ah)	228
	Charging Time	Fastcharging: 2.0-2.5h
		Slowcharging: 8-10h (Based on charger)
	Charging Method	Single gun independent charging /
		Dual guns charging together
	Service Voltage Range (V)	618
Sevice Life(25°C, 100%SOC)	4000Cycles, Capacity fade <30%	
Drive System	Travel Motor Type	Permanent magnet synchronizaion
	Rated Power (kW)	120
	Rated Voltage (V)	380V
	Transmission Type	Hydraulic shift
	Transmission Gear	2 Forward 1 Reverse
	Main Drive	Sprial bevel gear one stage reduction
	Hub Reductor type	Spur gear panet drive
	Tire	23.5-25-16PR
	Forward I (Km/h)	12
	Forward II (Km/h)	32
	Backward (Km/h)	24
Hydraulic System	Hydraulic Pump Motor	Permanent magnet synchronization
	Rated Power (kW)	90
	Rated Voltage (V)	380
	Output volume(Variable piston pump+Internal gear pump)	100+80ml/r
	Working pressure (Mpa)	18
Steering System	Type	Full hydraulic on-load sensing steering system
	output volume(Steering Pump) (ml/r)	80
	Service Pressure (Mpa)	15
	Steering Angle	±35
	Braking System	Hydraulic caliper disc brake
Flexible shaft control drum brake		Hydraulic caliper disc brake
Electric System	Bettery Voltage (V)	24
	Battery Capacity (Ah)	60
	Lighting Voltage (V)	24

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