

# ELECTRIC WHEEL LOADER



## NE18-EL

**NEW ENERGY ASIA PACIFIC CO., LTD.**

**“ 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.

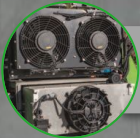
# NE18-EL ELECTRIC WHEEL LOADER

## KEY FEATURES

eTECH NE18-EL 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

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## 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.

## 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)



## 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

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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

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## Performance

Model		NE18-EL	
Basic	Electric Consumption Rate	km/h	10-15 (variance with working condtion)
	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
Transmission System	Transmission Type		Mechanical Transmission
	Transmission Gear		Front 2/Rear 1
	Max.Speed of Forward II	km/h	10
	Max.Speed of Forward II	km/h	26
	Max.Speed of Rear I	km/h	10
	Max.Speed of Rear II	km/h	26
	Gradeability	%	30.50
Traction	kN	55	
Travel Motor	Motor Type		Permanent Magnet Synchronous Motor
	Motor Rated	kW	57
	Motor operating efficiency range	%	86-98
Main Pump Motor	Motor Type		Permanent Magnet Synchronous Motor
	Motor Rated	kW	37.7
	Motor operating efficiency range	%	86-98
Battery	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	h	0.6-.5 (Variance with the Charger)
Hydraulic System	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
	Steering Angle	°	±32
Brake Mode	Travel brake		Clamp disc brake
	brake air pressure	MPa	12
	Parking Brake		Clamp disc brake
Dimensions	Overall Height	mm	3,060
	Overall Width	mm	1,920
	Overall Length	mm	6,300
	Wheelbase	mm	2,250
	Wheel Tread	mm	1,500
	Bucket with	mm	2,150
	Ground Clearance	mm	270
Turning Radius (External)	mm	≤5,800	
Standard Tires(Pneumatically)	Nos.of Wheels		F2/R2
	Driving Wheel		4 wheels Driving
	Size of Tire		16/70-20PR

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



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