



XCMG Green Port Machinery: A way for a sustainable tomorrow

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We are XCMG Group from China

XCMG is the largest construction machinery manufacturer in China (top 3 in the world) and also a conglomerate with global reach. It covers business sectors in construction machinery, mining machinery, heavy-duty trucks, sanitation equipment, core parts and components, fabricated buildings, financial services and information technology, etc.

YELLOW TABLE 2023

2023	2022	CHANGE	COMPANY	COUNTRY	CONSTRUCTION EQUIPMENT SALES (US\$ MILLION)	SHARE OF TOTAL
1	1	-	Caterpillar	US	37,538	16.3%
2	2	-	Komatsu	JP	24,648	10.7%
3	3	-	XCMG	CN	13,407	5.8%

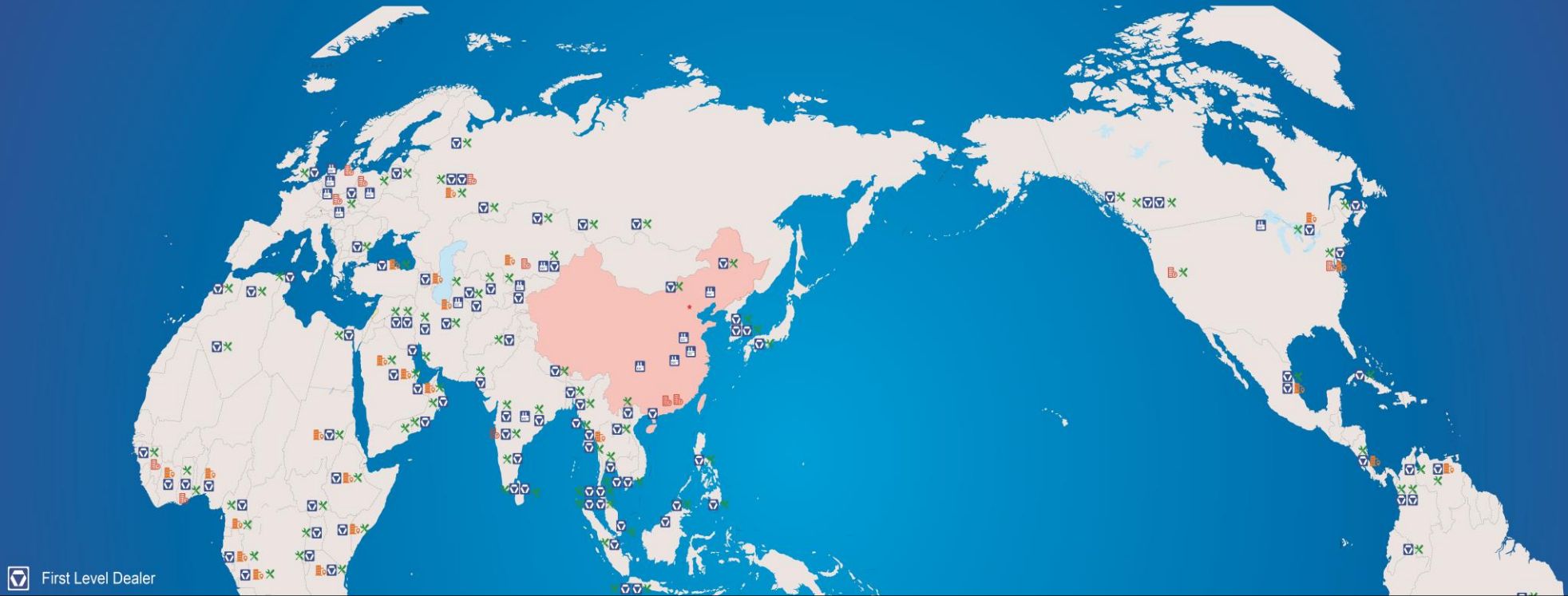


XCMG port machinery

Amongst all, XCMG is also a manufacturer of port machinery. The port machinery we produce include reach stackers, empty container handlers, forklifts, terminal tractors and AGVs.



XCMG port machinery overseas



Furthermore, XCMG port equipment has been sold to over 90 countries and regions around the world for use in ports, container yards, logistics facilities, and other locations. We have also cooperated with famous shipping companies, such as PSA from Singapore and Wan Hai from Taiwan.

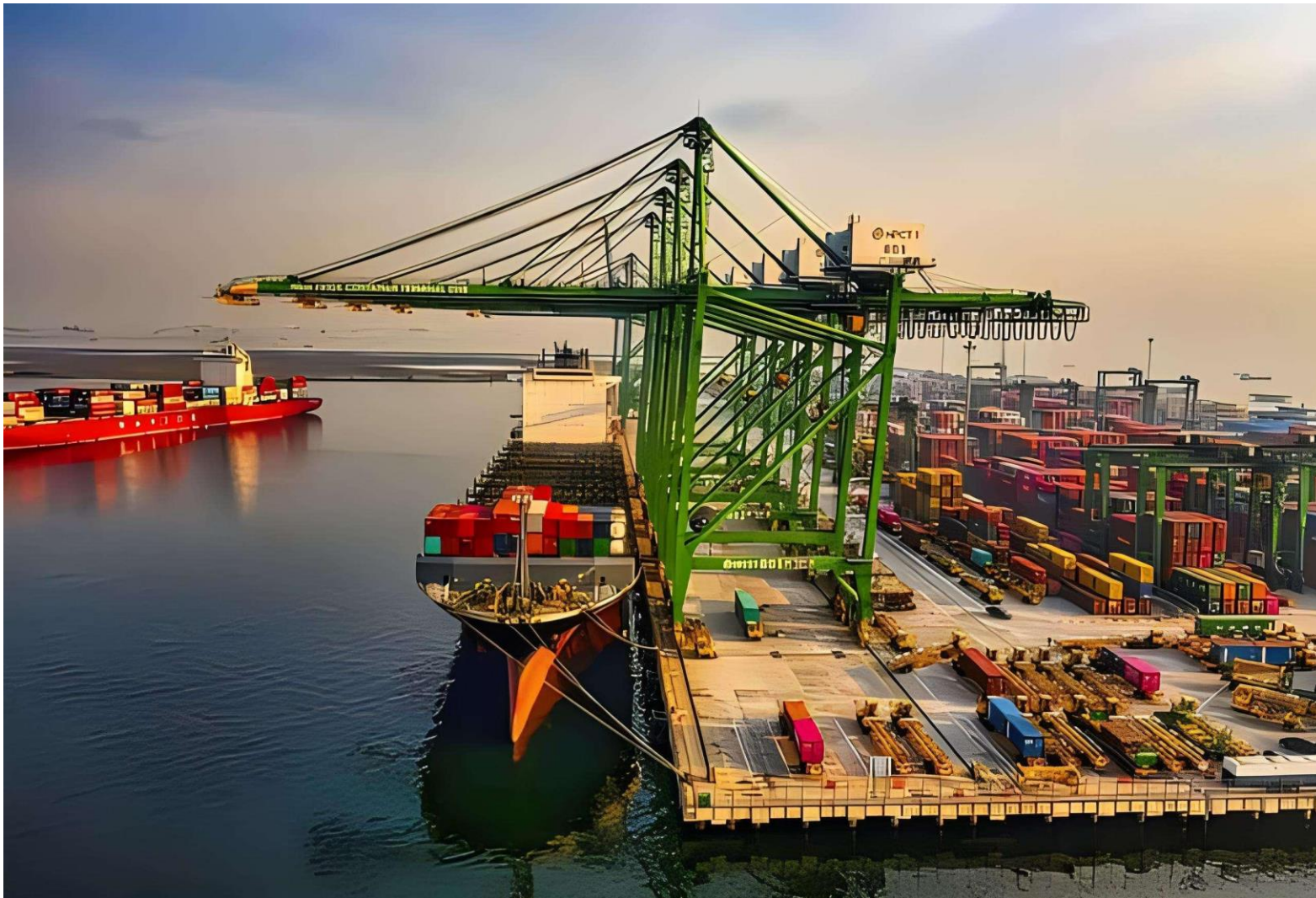
XCMG port machinery in the Philippines

As we move across the Philippine archipelago, XCMG port equipment has been deployed in Manila, Cebu, Bacolod, Iloilo, Davao, Cagayan de Oro, and other cities.

The engine emission standards of this machines are Euro Stage 3 ,Euro Stage 4 and Euro stage 5.



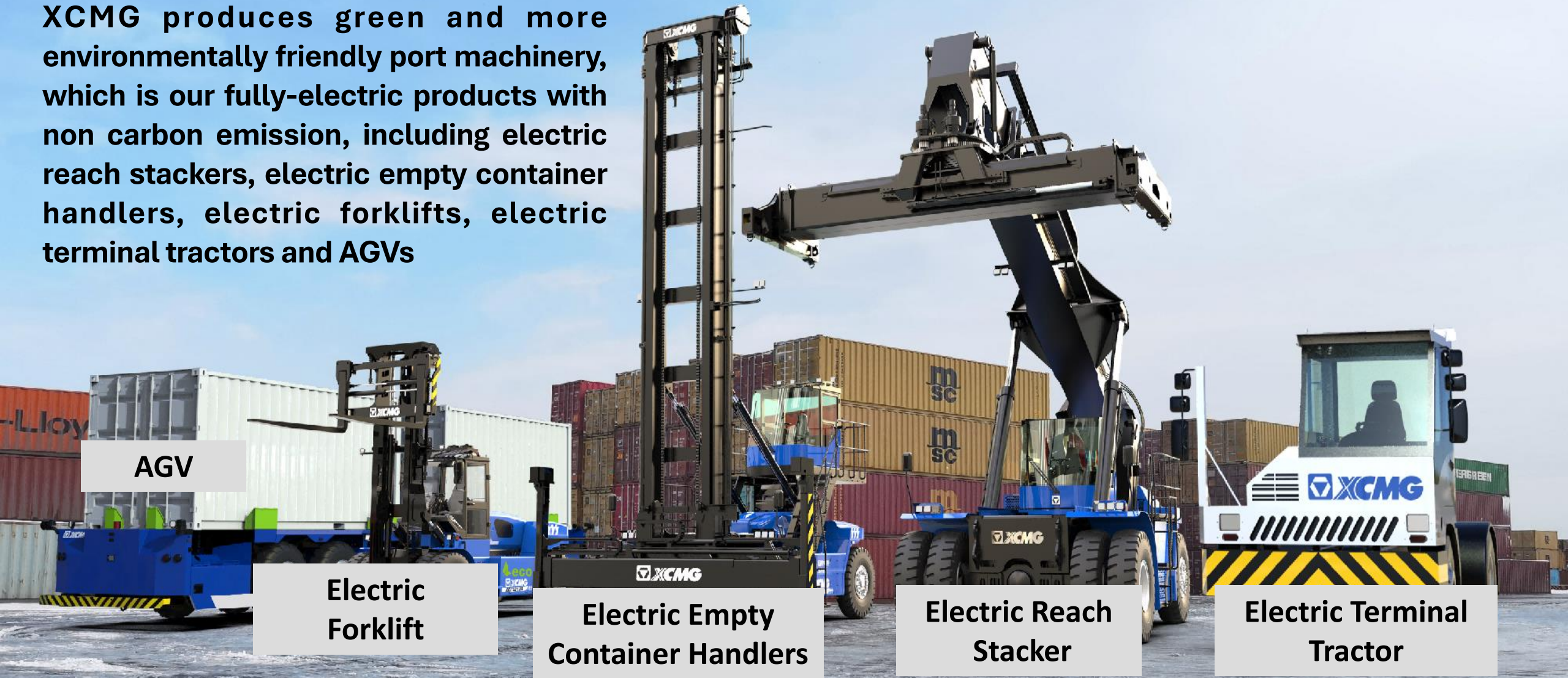
XCMG port machinery in the Philippines



- With the development of technology, port machinery has become more and more environmentally friendly. Port hoisting machinery has changed from fuel-fired equipment to current electric equipment, and port transportation machinery that uses fuel has become the main source of carbon emissions.
- XCMG Solution: Fully electric Port Machinery

XCMG Green port machinery

XCMG produces green and more environmentally friendly port machinery, which is our fully-electric products with non carbon emission, including electric reach stackers, electric empty container handlers, electric forklifts, electric terminal tractors and AGVs



AGV

Electric Forklift

Electric Empty Container Handlers

Electric Reach Stacker

Electric Terminal Tractor



XCMG Green port machinery

At present, our electric products have been used in many countries around the world, including China, Malaysia, Thailand, South Korea, Germany, the Netherlands, the United States, Russia and other countries



XCMG Green port machinery

Tianjin Port, one of the largest port in China, is a port with all-electric equipment, such as electric reach stackers, electric empty container handler, and AGVs used in the port are all supplied by XCMG.



The difference between our electric equipment and fuel equipment

	fuel equipment	electric equipment
energy source	fuel	electric
energy storage method	fuel tank	battery
Power source	engine	Motor(energy recovery)
transmission	gearbox	/
Emission form	Euro Stage 3 and above	/

Regardless of whether electric products or fuel products, they all need to complete the same tasks, therefore the appearance, function, and driving operation of the products are the same, but in comparison, the driving power of electric products is smaller. In addition, electric products need to be equipped with charging piles.

Batteries for XCMG electric port machinery

We use lithium iron phosphate batteries and the capacity of these batteries ranging from 160KWh to 595Kwh (battery capacity for commercial electric cars is approximately between 15KWh and 40kwh)

The battery we use comes from the most recognized brands in the world, CATL and BYD.



Characteristics of lithium iron phosphate battery

1. Long battery life
2. Stable performance, high temperature resistance
3. Fast charging
4. Large battery capacity, stable discharge and long working time
5. non hazardous and more environmentally friendly.

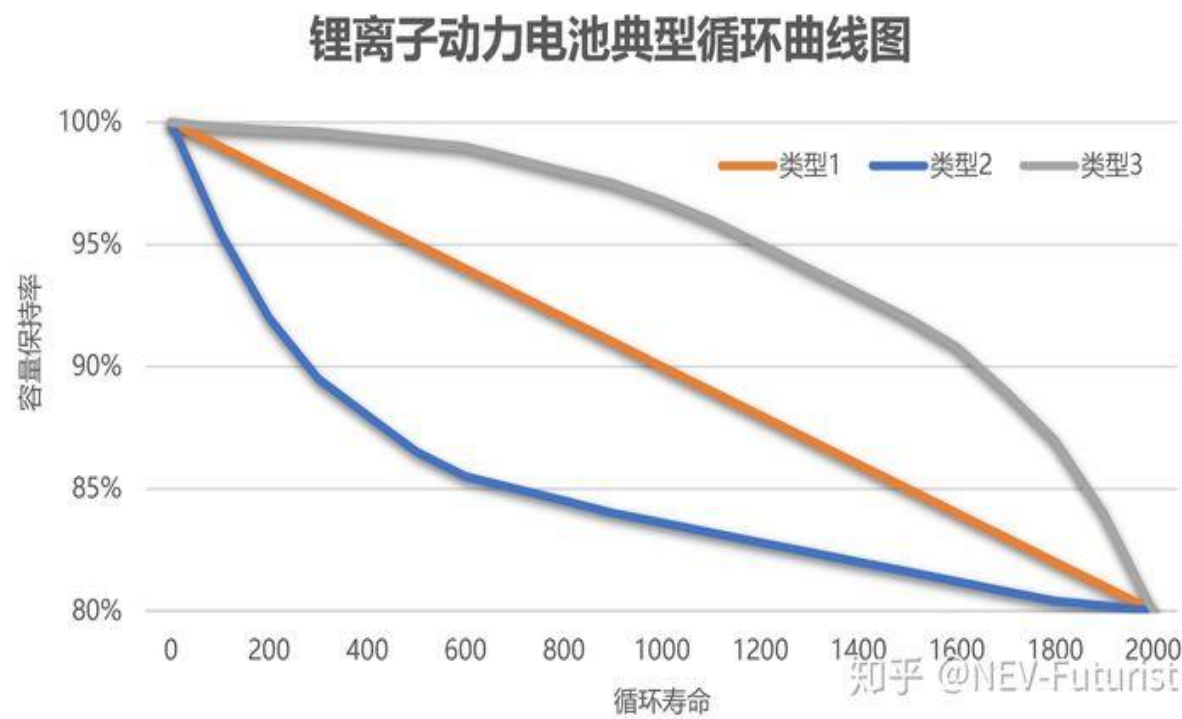


Our battery warranty commitment

The lifespan of a lithium iron phosphate battery is about 8 to 10 years, and the capacity of the battery will also decrease with the number of uses.

Our battery warranty commitment: 5 years or 15,000 hours (whichever comes first) battery capacity remains above 80%

Lithium iron phosphate battery capacity decay curve (Gray line)



Data system for electric port machinery

Electric Port Machinery Data:

- Battery information includes battery power, health status, motor information, device working status and other data.
- These data can be transmitted to the port user's port intranet through our vehicle-mounted GPS, and the user can view it in real time and download it in the form of an Excel spreadsheet. Help users better arrange the use of equipment
- Users log in to the XCMG database website to view and download



**PORT EQUIPMENT
INFORMATION**



GPS



XCMG DATABASE

XCMG port machinery working video



XCMG green port machinery

Nowadays, more and more global customers choose XCMG equipment, and XCMG group company hopes to contribute to building green ports and protecting the global environment.



The background of the top half of the slide is a construction site. In the center, a tall, yellow tower crane stands prominently. To its left, several modern high-rise buildings are under construction, showing their steel frameworks. The sky is a clear, light blue. The bottom half of the slide is a solid yellow color with a faint, white, winding road graphic that leads from the bottom left towards the center.

**Thank you for listening
XCMG For Your Success**

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