

# BEV RANGE BROCHURE

BATTERY ELECTRIC VEHICLE

 **LIUGONG**

TOUGH WORLD. TOUGH EQUIPMENT.



# CHANGE FOR THE BETTER

## LET'S TALK CHANGE

China leads the world in battery electric vehicle (BEV) technology and we are a leader in China, so you can trust us to help you find the answers to make your change to electric easy.

As a leader in electric machine and infrastructure technology, we believe we can guide you through every step of your change to electric.



## WHY ELECTRIC?

Fully electric? Hybrid? Alternative fuel transmissions? Making the change from diesel presents a number of options. LiuGong have fully evaluated all of the above and more before deciding on electric as the best option.



## WHY CHANGE NOW?

Our global priorities for energy are changing rapidly with the adoption of electric power accelerating beyond all other sources. For our customers, changing to electric is a strategic change for the better. At LiuGong, we can relate to this, we want to be a better global citizen and help make life better for everyone. This thinking has shaped our investment and transformation into a leader in electric capability.





## BETTER SUSTAINABILITY

Electric technology reduces emissions by

**100%**



Our energy priorities are changing fast. Now is the time to change for better.

Together we can help reduce CO<sub>2</sub> by over

**50 MILLION** tons



Liugong provides BEV products to customers all over the world, and has reduced CO<sub>2</sub> emissions by over

**330,000** tons

## BETTER ECONOMY

Running costs can be reduced by up to

**70%**

compared with diesel alternative



\*Based on Chinese data

\*\*For the latest updates, please contact your local LiuGong dealer.

# A POWERFUL HERITAGE

For over 65 years we've put our customers at the heart of everything we do. From our foundation in 1958, and the introduction of our first modernized wheel loader in 1966, we've built our reputation for designing and building a tough range of machines that help our customers do more and earn more.

Customer insight has inspired our engineering and manufacturing to deliver machines which are tougher and more reliable, easier to control, and are at the forefront of intelligent technology. Today, our customer inspired range includes more than 30 different product lines covering all major construction applications.

Across the world, from the searing heat of the Sahara, to the unforgiving cold of the Antarctic, our machines are making a difference. Tough and nimble, intelligent and adaptable, our world-class design always has, and always will, put our customers in control.



**65+**

Years' Experience



**30+**

Product Lines

**1958**

LiuGong was founded in Liuzhou with 527 workers from Shanghai.

**1992**

Produced its first excavator.

**1995**

Established a driveline JV with ZF Friedrichshafen AG.

**2002**

Set the goal to build "an open and international LiuGong."

**1966**

Launched China's first modern wheel loader, the Z435.

**1993**

Listed on the Shenzhen Stock Exchange.

**2000**

Pioneered cross-regional mergers in China's equipment industry.

**2007**

Invested in India, starting overseas manufacturing.



# PRODUCT LINE EXPANSION



**1966**  
Wheel  
Loader



**1992**  
Excavator



**2000**  
Roller



**2002**  
Forklift



**2003**  
Compact  
Construction  
Machinery



**2005**  
Pavement  
Construction  
Machinery



**2008**  
Crane



**2009**  
Bulldozer



**2011**  
Mining Truck &  
Bulldozer  
(Dressta)



**2016**  
Agricultural  
Machinery



**2017**  
Piling  
Machinery



**2021**  
Construction  
Hoisting  
Machinery



## 2010 - 2014

Expanded globally with subsidiaries across Asia, North America, Europe, and beyond.

## 2015

Opened Global R&D Center in Liuzhou and a factory in Brazil.

## 2012

Formed a JV with Cummins (China) in Liuzhou.

## 2016

Entered the agricultural machinery market with a sugarcane harvester.

## 2019

- Launched electric equipment and 5G remote control tech.
- Established subsidiaries in the UK and Indonesia.

## 2022

- Laid the foundation for the International Intelligent Industrial Park.
- Opened subsidiaries in Thailand and Central Asia.

## 2021

President Xi Jinping inspected LiuGong on April 26th.

## 2023

Expanded with new subsidiaries in Australia, Vietnam, and Côte d'Ivoire.



# A LEADER IN CHINA



## CHINA LEADS THE WORLD IN BEV TECHNOLOGY AND WE ARE A LEADER IN CHINA.

LiuGong were one of the first Chinese construction equipment manufacturers to identify the potential of BEVs in our industry.

## WE ARE A WORLD LEADER IN BEV DESIGN AND R&D

Our Design and R&D teams are driven to produce the widest possible range of electric vehicles with the toughness, intelligence and performance you would expect from LiuGong.

Sharing our Red Dot Award-winning design DNA, our BEVs have already been awarded with the Top 50 Innovation Gold Award in 2021 and Top 50 Energy Gold Award in 2022.



# OUR **BEV** JOURNEY



**TRUST OUR  
EXPERTISE TO  
HELP YOU **CHANGE****



# CHANGING TO ELECTRIC

CHANGING TO ELECTRIC MAKES SENSE FOR YOUR  
BUSINESS AND YOUR ENVIRONMENT.



## ENVIRONMENTAL BENEFITS

Our machines deliver significant environmental benefits, contributing to a cleaner, greener world while lowering energy consumption and minimizing carbon footprint.



**0**  
EMISSIONS



**LOW**  
NOISE







## BUSINESS BENEFITS

Cost reduction - Compared to Internal Combustion Products, Operating Costs are Reduced by 60-70%.



### MORE EFFICIENT

Faster dynamic response with independent control of hydraulics and transmission results in a 20% increase in production efficiency.



### MORE RELIABLE

Significantly simplified mechanical components and energy recovery greatly enhance braking and improve overall machine reliability.



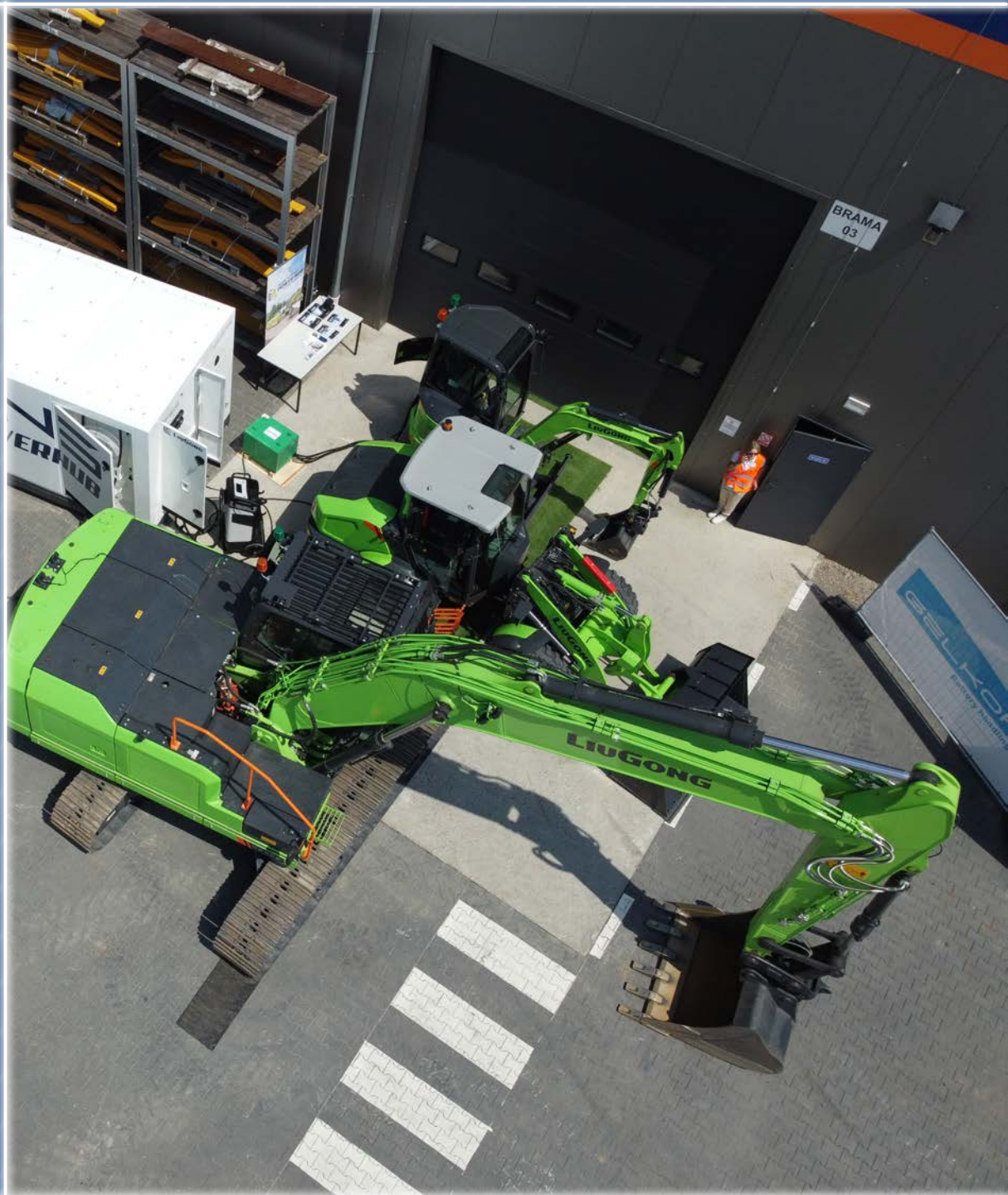
### MORE ADAPTABLE

Better suited for low noise working conditions such as municipal construction, agriculture and animal husbandry, concrete mixing station and garden construction.



### MORE STANDARDISED

The standard-setter for China's electric products industry.





# COMPREHENSIVE **BEV** SOLUTIONS

WE OFFER TAILORED SOLUTIONS FOR YOUR TRANSITION TO ELECTRIC. FROM ADVANCED CHARGING INFRASTRUCTURE TO HYBRID TECHNOLOGY, WE HAVE YOU COVERED. THESE SOLUTIONS INCLUDE:



**Pure Electric**



**Tethered Cable**



**Battery Swapping**



**Hybrid**



**Core Parts**



**Fixed Charging**



**Mobile Energy Supplement**



**LiuGong Self-Made Battery**

# ELECTRIFICATION & INTELLIGENT INTEGRATION

LEVERAGING THE POWER OF BEV, AI, IOT, AND ICT, WE ENABLE INTELLIGENT, AUTONOMOUS OPERATIONS, CREATING A FULLY CONNECTED, DIGITAL CONSTRUCTION ECOSYSTEM. WE UTILIZE INNOVATIONS SUCH AS:



**ICT Solutions**



**Autonomous Single-Machine Technology**



**Digital Management Cloud Platform**



**Digitalized Construction Systems**





# A WORLD LEADING BEV RANGE

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**WITH MORE THAN 90 PRODUCTS ALREADY LAUNCHED,  
WE OFFER A WORLD LEADING BEV RANGE.**

As a leader in BEVs, we have launched over 90 electric products, offering a solution for nearly every application and segment, including mining machinery, industrial and port equipment, agricultural machinery, and more.

## **WE HAVE AN ELECTRIC SOLUTION FOR EVERY APPLICATION**

Covering 11 product lines, including loaders, excavators, mining trucks, aerial work platforms, industrial vehicles, and agricultural machinery, our BEVs fully encompass the three major technological routes including pure electric, extended-range, and battery swap.

## **THE WORLD TRUSTS OUR GREEN MACHINES**

With over 6,000 machines already sold globally in regions such as Asia-Pacific, Europe, North America, and Latin America, our BEV machines are building a reputation for simplicity, reliability and performance.

Our 856HE wheel loader has received unanimous praise from global customers and was awarded the 2023 Best Recommended Product by North American industry media.



WHEEL LOADERS



EXCAVATORS



MINING TRUCKS



GRADER



ROLLER



SKID STEER LOADER



REACH STACKER



FORKLIFTS



AERIAL WORK PLATFORMS

# LET'S MEET THE GREEN TEAM >>>

Please confirm the availability of product lines and models with your local dealer.



# BEV WHEEL LOADERS

## OUR ELECTRIC WHEEL LOADERS HAVE PROVEN THEIR PERFORMANCE ON THE WORLD STAGE

With a great number of LiuGong BEV wheel loaders operating in global jobsites, our green technology delivers outstanding performance with reduced environmental impact. Engineered for demanding tasks like municipal work and mining, these electric loaders offer over 20% energy savings by optimizing the electric drive, hydraulic, and transmission systems. Enhanced further with variable hydraulic and energy recovery systems, they deliver an additional 15-20% efficiency boost. Operator comfort is a priority, with spacious cabins, intuitive displays, and optional fingertip controls – ensuring efficiency, sustainability, and operator satisfaction.







Model	820TE	838TE	848TE	856HE	870HE
Battery Capacity (kWh)	70.5	193	282	350 / 423	423
Operating Weight (kg)	6,600	12,760	18,000	19,840 / 22,280	24,640
Full Turn Tip Load (kg)	3,650	9,600	11,600	14,480 / 15,600	16,800
Bucket Size (m³)	0.8 - 2.0	1.5 - 3.0	2.5 - 4.0	2.7-5.6	3.0 - 7.0



# BEV EXCAVATORS

## OUR ELECTRIC EXCAVATORS CONTINUE TO BREAK NEW GROUND

Since launching our first BEV excavators in 2021, our electric excavators have set the benchmark for intelligent, efficient performance. Built on the proven F-series platform, these electric excavators offer superior control, reduced energy consumption, and faster response times across diverse applications like demolition, recycling, mining, and agriculture. Equipped with a water-cooled permanent magnet motor and intelligent temperature control, they deliver zero emissions, low noise, and lower operating costs. The cabin is designed for maximum comfort, featuring an air suspension seat, electric heating, and a high-resolution LCD touch display.







Model	9018FE	9027FE	922FE	922FE (cable)	926FE (cable)	939FE (cable)	956FE (dual power)	995FE (cable)
Battery Capacity (kWh)	20.6	20.6	423	/	/	/	TBD	/
Operating Weight (kg)	2,060	2,750	24,100	22,000	26,000	39,000	56,500	100,000
Standard Bucket Size (m³)	0.045	0.08	1.0	1.0	1.3	2.0	2.8	6.6
Bucket Digging Force (kN)	16	20	152.5	152.5	179	255	300	496



# BEV MINING TRUCKS

## BRINGING GREATER SUSTAINABILITY TO MINES & QUARRIES

Our tough BEV rigid dump trucks are built for off-road mining, quarrying, and construction, moving heavy loads efficiently and sustainably. Featuring smart energy recovery that recharges during braking and downhill driving, these zero-emission trucks reduce energy consumption by up to 87% compared to traditional models. Designed for harsh conditions, they include maintenance-free high-power motors and advanced thermal management for reliable performance in extreme temperatures. With ergonomic controls, advanced driving assistance, and spacious cabins, they ensure operator comfort, safety, and efficiency.







DR50CE



DW105AE

Model	DR50CE	DW105AE
Battery Capacity (kWh)	423	396 / 528
Payload (kg)	50,000	70,000
Struck Capacity (m <sup>3</sup> )	27	36



# BEV GRADER

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## CHANGE TO A HIGH-PRECISION GRADER

The world's first BEV grader, the 4280DE, has an operating weight of 24,000kg, providing impressive stability and strength for heavy-duty tasks. Designed for mining road maintenance, it features a short turning radius of 7,500mm and excellent manoeuvrability. Equipped with a reliable battery and a high-torque motor, providing long-lasting performance and powerful traction for efficient material movement. Its comfortable electrical control, panoramic view cab, and ergonomic design ensure reduced operator fatigue, while its precise grading ability makes it a game changer in challenging conditions.





4280DE



4280DE



Model	4280DE
Battery Capacity (kWh)	423
Operating Weight (kg)	24,000
Standard Moldboard Size (mm)	4,270 x 645 x 25



# BEV ROLLER

## CHANGE TO A NEW ROAD

Our second-generation BEV roller, the 6622EE, offers a sustainable solution for road building and municipal projects with low noise and zero emissions. Featuring LiuGong's patented flow ball vibration technology, it ensures smooth operation, extended maintenance intervals, and superior noise reduction. Powered by a water-cooled permanent magnet synchronous motor, it provides exceptional reliability and lower operating costs.





6622EE



6622EE



Model	6622EE
Battery Capacity (kWh)	423
Operating Weight (kg)	22,000
Compacting Width (mm)	2,130



# BEV SKID STEER LOADER

## OUR ELECTRIC SKID STEER IS NO.1

China's first self-developed tire-type electric skid steer, the 385BE, delivers powerful, reliable performance for municipal, construction, port, and garden applications. Equipped with advanced electric system matching and proprietary control technology, it achieves over 15% energy recovery through motor anti-drag control. Equipped with Liugong's self-developed battery pack, through MTB technology, the system has higher volume energy density, fewer system harnesses and stronger anti-vibration strength of the battery box, which meets harsh working conditions, including high loads, high temperatures, and high dust. The application adopts a large displacement load-sensitive pump, making it ideal for heavy-duty tasks like milling and snow removal, while remaining compatible with a wide range of attachments.





385BE



385BE



Model	385BE
Battery Capacity (kWh)	101
Operating Weight (kg)	4,820
Rated Load Capacity (kg)	1,500
Standard Bucket Size (m <sup>3</sup> )	0.5



# BEV REACH STACKER

## THE SMART & EASY WAY TO MOVE CONTAINERS

Our electric reach stacker, the LRSE453, provides efficient, zero-emission logistics solutions for ports and railways. High-capacity battery and energy recovery systems can increase working time by more than 10%, providing customers with longer working time. Compared to fuel cranes, it cuts energy costs by 70% and total cost of ownership by 45%. Safety features include fire suppression, anti-rollover alarms, and high-voltage interlocks. A spacious, low-noise cab and Mobile Smart Management System ensure ease of operation and monitoring.







Model

LRSE4531E

Battery Capacity (kWh)

525

Load Rating (T)

45 - 31 - 15

Maximum Lifting Height (mm)

15,100



# BEV FORKLIFTS

## OVER 20 YEARS OF EXCELLENCE IN INDUSTRIAL VEHICLES

With electric forklifts ranging from 1.5-10T, these machines excel in handling, carrying, and stacking tasks. With ergonomic cabs and high-power motors, they offer efficient performance through optimized electric drive and hydraulic systems. Compared to internal combustion models, they reduce operating costs by 54% over 5 years and energy costs by 30-50% with off-peak charging. The durable batteries last over 5,000 charges with minimal capacity loss, and rapid charging allows for swaps in just 3 minutes, all backed by a 5-year warranty.







Model	CPD15	CPD18	CPD20	CPD25	CPD30	CPD35	CPD40
Capacity (kg)	1,500	1,800	2,000	2,500	3,000	3,500	4,000
Load Center (mm)	500	500	500	500	500	500	500
Service Weight (kg)	2,824	2,944	3,430	3,720	4,510	4,860	5,990
Standard Lift Height (mm)	3,000	3,000	3,000	3,000	3,000	3,000	3,000

Model	CPD45	CPD50	CPD60	CPD70	CPD80	CPD90	CPD100
Capacity (kg)	4,500	5,000	6,000	7,000	8,000	9,000	10,000
Load Center (mm)	500	500	600	600	600	600	600
Service Weight (kg)	6,340	7,150	9,280	9,880	10,860	13,400	14,200
Standard Lift Height (mm)	3,000	3,000	3,000	3,000	3,000	3,000	3,000



# BEV AERIAL WORK PLATFORMS

## CHANGE FOR HIGHER PERFORMANCE

Our aerial work platforms include 30 models, from scissor lifts to boom lifts, with heights ranging from 6.5 to 34 meters. Designed for high-altitude tasks, they offer easy operation, fast charging, and low maintenance. With features like real-time battery monitoring, overload alarms, and dual-redundant sensors, they ensure safety and meet strict safety standards. Advanced electrification and 5G tech deliver efficient, green performance, while durable components and large-capacity batteries reduce downtime and extend lifespan.







Model	LS0507EM	LS0608E	LS0808E	LS0812E	LS1012E	LS1212E	LS1412E	LS1414E
Platform Height Max. (m)	4.5	5.8	8	8	10	12	13.7	14
Platform Capacity (kg)	240	230	230	450	350	320	250	350
Overall Weight (kg)	970	1,540	2,200	2,350	2,500	2,820	3,000	3,800

Model	LA14JE	LA16JE	LA20JE	LT16JE	LT20JE	LT22JE	LT26JE	LT32JE
Platform Height Max. (m)	14	15.8	20.2	16.2	19.5	21.8	26.1	32
Platform Capacity (kg)	260	260	260	300	320	300 / 454	300 / 454	300 / 454
Overall Weight (kg)	6,980	7,300	9,500	7,300	9,500	11,070	15,000	18,950



# CHANGE FOR A **BETTER** **RETURN** ON INVESTMENT

As you have seen, with our extensive BEV range we offer an electric machine for every application. Although changing to electric is beneficial for the environment, does it also make sense for your business?



## DIESEL VS ELECTRIC?

This is the big question. In a straight cost-per-ton comparison, changing to electric makes sense on the jobsite and on the balance sheet.

Diesel wheel loaders use 1 litre of oil, while electric wheel loaders use only 3 kWh of electricity.



up to

# 70%

reduction in operation  
costs over 5 years



up to

# 50%

reduction in maintenance  
costs over 5 years





## RECHARGES WHILE YOU WORK

It would be impossible for a conventional machine to create its own diesel, but LiuGong's intelligent energy recovery system actually charges the battery as you work. This smart technology saves up to 20% of energy and keeps you working longer between charges.



## SLASHES OPERATIONAL & MAINTENANCE COSTS

Not guesswork – but cold, hard facts, gleaned from over 500 customer job sites. Our detailed analysis shows that our electric machines can reduce 5-year operational costs by up to 70% and maintenance costs by up to 50%. That's an exceptional return on investment.



# **CHANGE IS CONSTANT - SO TRUST LIUGONG TO HELP YOU STAY AHEAD**

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## **AN INTELLIGENT FUTURE**

Change is constant and LiuGong is leading that change with BEVs, telematics and 5G autonomous technology. Our remote-controlled wheel loader proves our autonomous capability by successfully completing complex shoveling, lifting, leveling and loading tasks, thousands of kilometers from the actual jobsite.

We are also pushing the barriers of intelligent industrial internet technology by applying AI algorithms such as perception, decision making, and control to our excavators today.

Through innovation, technology and customer focus we are committed to creating a cleaner, safer and more sustainable future for our customers and for society. Wherever technology may go, you can be certain that LiuGong will be at the forefront, turning intelligent technology into real benefits for your business - and our world.





## WORK SMARTER WITH iLINK

iLink is LiuGong's smart, trusted, telematics system that gives you the power to boost business performance, increase efficiency, reduce cost and unplanned down-time. iLink is the smarter way to get more out of your machines... so turn it on... everyday!

You can trust iLink to keep your data safe and secure and deliver the accurate information you need. Over 9,000 machines in 100 countries already rely on iLink everyday.



B A T T E R Y   E L E C T R I C   V E H I C L E

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Specifications and designs are subject to change without notice. Machines shown may include optional equipment. LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

