LiuGong

922FE
EXCAVATOR

BATTERY TYPE	Lithium Iron Phosphate
RATED STORAGE ENERGY	423 kWh
MOTOR TYPE	IPMSM
RATED POWER	165 kW
OPERATING WEIGHT	24,100 kg
BUCKET CAPACITY	1.0 m³



BATTERY ELECTRIC VEHICLE

TOUGH WORLD. TOUGH EQUIPMENT.

CHANGE FOR THE BETTER

LET'S TALK CHANGE

If you are reading this, then in all probability you are considering making the change to electric machines.

But how do you go about it? Who offers the best machines, support and advice? Who offers the best total cost of ownership? What kind of return on investment can you expect?

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?

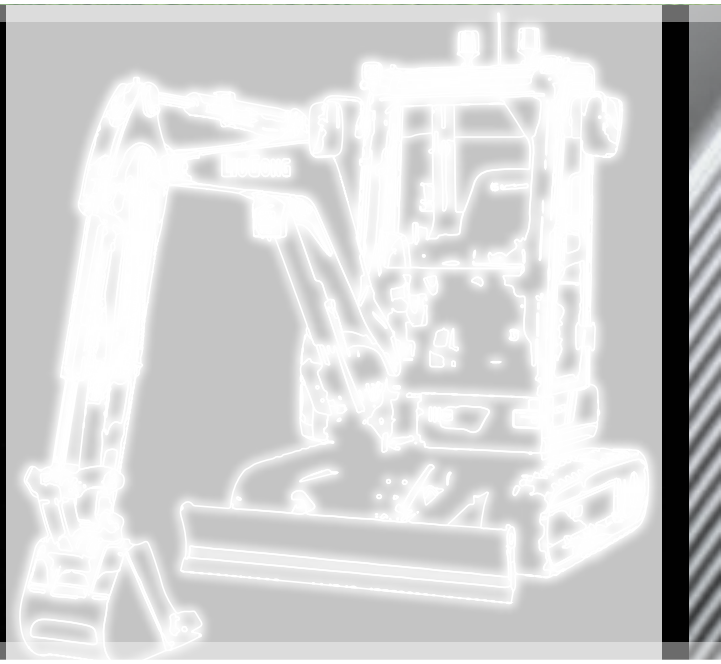
Making the change from diesel presents a number of options and LiuGong have fully evaluated all of the above and more before deciding on electric as the best option.

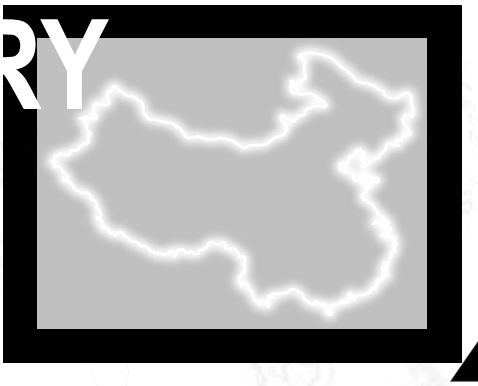


WHY CHANGE NOW?

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.





f the first Chinese
ment manufacturers
ential of battery electr
dustry.

st 8 years alone, we have inv
million CNY in R&D and product
ne and testing.

As BEVs we are already
ne of the world's largest
powered construction equipment
range

9 product areas, from aerial
access equipment to heavy-weight
excavators and wheel loaders, we are
changing the face of the industry.

2014
Start of EV technology development

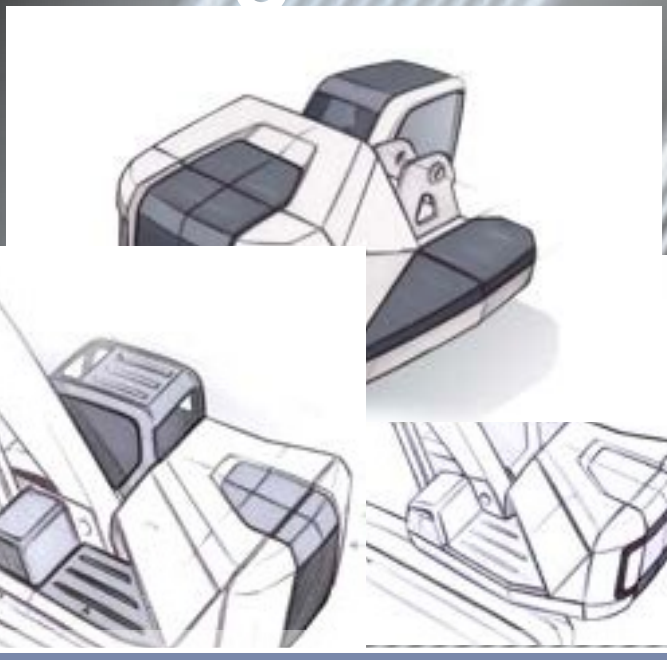
2018
World's first EV loader and excavator built by LiuGong

December 2020
Launch of the first-generatio EV loader and excavator

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 an performance you would expect from LiuGon

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



NEW 922FE
AN INTELLIGENT SOLUTION FOR A TOUGH WORLD

To justify the change to electric, BEVs must outperform conventional machines. Our new 922FE is all the justification you need.
It's a machine with proven performance in the areas you really care about.



INTELLIGENCE & CONTROL

- Fully electronic system ensures precise operation
- Dual pump independent control for smooth, efficient performance
- Intuitive 8-inch LCD touch screen for easy operation

SAFETY & COMFORT

- Operator-centric cab design prioritizes safety and comfort
- Laminated green glass and micro pressure cab reduce pollution and noise
- Optional ROPS protection available for added safety

SPECIFICATIONS

Operating weight	**24,100 kg (53,116 lbs)**
Operating weight includes lubricants, cab, standard Shoes, boom, arm, bucket and operator 75 kg (165 lbs).	
Bucket capacity	1.0 m^3 (1.3 yd^3)

MOTOR	
Motor type	Synchronous reluctance
Motor Manufacturer	JJE
Rate voltage	640 V
Insulation class	H
Motor rated power	165 kW (221 hp)
Motor power (peak)	250 KW (335 hp)
Rated torque	1,050 N·m (774 lbf·ft) @ 1,500 rpm
Peak torque	1,700 N·m (1,254 lbf·ft) @ 1,500 rpm
Actual use (eletric control system):Setting the Max. Unload speed	2,300 rpm
Max. speed	4,000 rpm
Lowest No load speed	1,200 rpm
Cooling mode	Forced Liquid cooling
Weight	225Kg (497lb)
IP code	IP68

SWING SYSTEM	
Description	
Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral.	
Swing speed	10.5 rpm
Swing torque	78,200 N·m (57,680 lbf·ft)

BATTERY	
Battery type	Lithium-iron($LiFePO_4$)
Battery Voltage	618 V
Power battery capacity	423 kWh
	684 Ah
IP level	IP68
Battery Thermal Management	Heating: Forced Liquid Heating Cooling: Forced Liquid cooling
Indicative runtime (depending on application)	4~9 h
One gun Charging time	≤3 h
Dual guns Charging time	≤1.5 h

HYDRAULIC SYSTEM	
Main pump	
Type	Electronic variable pump
Maximum flow	2×228 L/min (2×60.2 gal/min)
Relief valve setting	
Primary system pressure (non-pressurized)	34.3 MPa (4,973 psi)
Primary system pressure (boost)	37.3 MPa (5,408 psi)
Pilot circuit	3.5-3.9 MPa (508-566 psi)
Hydraulic cylinders	
Boom Cylinder – Quantity - bore × Rod diameter × trip	2-φ120×85×1,320mm (2-φ4.7×3.3×4′ 4″)
Arm Cylinder – Quantity - bore × Rod diameter × trip)	1-φ135×95×1,490 mm(1-φ5.3×3.7×4′ 11″
Bucket Cylinder – Quantity - bore × Rod diameter × trip	1-φ115×80×1,120 mm (1-φ4.5"×3.1″ ×3′ 8″)

DRIVE AND BRAKES	
Description	
2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.	
Max. travel speed	High: 5.6 kN/h Low: 3.3 kN/h
Gradeability	35°
Max. drawbar pull	220 kN (49,458 lbf)

UNDERCARRIAGE	
Track shoe each side	49
Shoe width, triple grouser	600 mm (1'12")
Bottom rollers each side	8
Top rollers each side	2

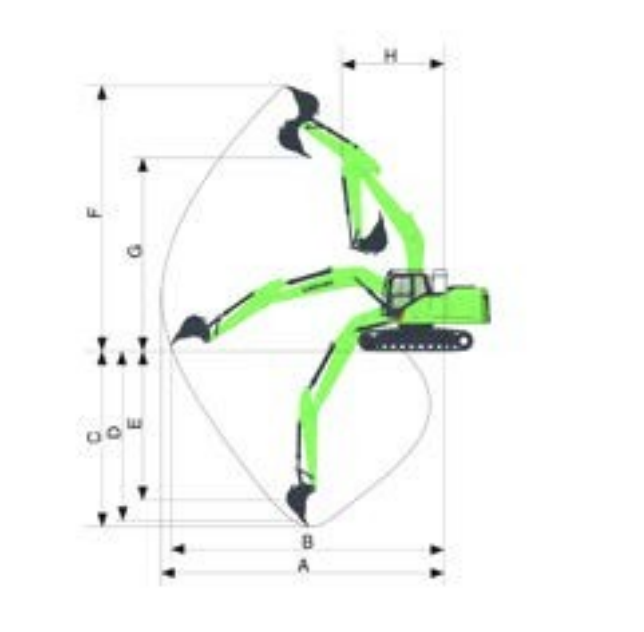
ELECTRIC SYSTEM	
System voltage	24 V
Battery	2 x 12 V
Battery capacity (24V)	93 x 2 Ah

AIR CONDITIONING SYSTEM	
Colding capacity	12,000±10%
Heating capacity	7,000±10%
Heating and air supply volume	400 m^3/h
Voltage	618 V.DC
Total power consumption	7,000 W

SERVICE CAPACITIES	
Washer	3.8 L (1.0 gal)
Refrigerant Charge	1,200 ± 50 g
Hydraulic Reservoir	112 L (29.6 gal)
Hydraulic System Total	220 L (58.1 gal)

SOUND PERFORMANCE	
Interior sound level (ISO 6396)	65 dB(A)
Exterior sound level (ISO 6395)	97 dB(A)

LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.



WORKING RANGE		922FE	922FE	922FE	922FE
Boom Length		5,710 mm (18'9")	5,710 mm (18'9")	5,710 mm (18'9")	5,710 mm (18'9")
Arm Length		2,915 mm (9'7")	2,400 mm (7'10")	3,500 mm (11'6")	2,915 mm (9'7")
A. Max. Digging Reach		9,870 mm (32'5")	9,530 mm (31'3")	10,485 mm (34'5")	9,870 mm (32'5")
B. Max. Digging Reach on Ground		9,720 mm (31'11")	9,360 mm (30'9")	10,325 mm (33'10")	9,720 mm (31'11")
C. Max. Digging Depth		6,700 mm (21'12")	6,250 mm (20'6")	7,345 mm (24'1")	6,700 mm (21'12")
D. Max. Digging Depth, 2.44 m (8') Level		6,540 mm (21'5")	6,050 mm (19'10")	7,185 mm (23'7")	6,540 mm (21'5")
E. Max. Vertical Wall Digging Depth		4,820 mm (15'10")	5,175 mm (16'12")	5,920 mm (19'5")	4,820 mm (15'10")
F. Max. Cutting Height		9,740 mm (31'11")	9,810 mm (32'2")	10,200 mm (33'6")	9,740 mm (31'11")
G. Max. Dumping Height		7,000 mm (22'12")	7,010 mm (22'12")	7,455 mm (24'6")	7,000 mm (22'12")
H. Min. Front Swing Radius		3,135 mm (10'3")	3,210 mm (10'6")	3,170 mm (10'5")	3,135 mm (10'3")
Arm Digging Force (ISO)	Normal	97 kN (21,694 lbf)	116 kN (26,078 lbf)	88 kN (19,783 lbf)	97 kN (21,694 lbf)
	Power Boost	105 kN (23,605 lbf)	126 kN (28,326 lbf)	96 kN (21,582 lbf)	105 kN (23,605 lbf)
Bucket Digging Force (ISO)	Normal	140 kN (31,473 lbf)	140 kN (31,473 lbf)	140 kN (31,473 lbf)	140 kN (31,473 lbf)
	Power Boost	152.5 kN (34,283 lbf)	152.5 kN (34,283 lbf)	152.5 kN (34,283 lbf)	152.5 kN (34,283 lbf)
Bucket Capacity		1.1 m³ (1.44 yd³)	1.1 m³ (1.44 yd3)	1.0 m³ (1.31 yd³)	1.1 m³ (1.44 yd³)
Bucket Tip Radius		1,478 mm (4'10")	1,478 mm (4'10")	1,478 mm (4'10")	1,478 mm (4'10")

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MACHINE WEIGHTS AND GROUND PRESSURE

Shoe width	922FE			922FE (2200mm Track Gauge)			922FLL		
	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	5,710 mm boom, 2,915 mm arm, 1m³ bucket, 1,400 kg counterweight						8,850 mm boom,6,250 mm arm, 0.45 m³ bucket, 1,400 kg counterweight		
600 mm	24,100 kg	50.2 kPa	2,990 mm	24,900 kg	51.8 kPa	2,990 mm	-	-	-
700 mm	24,380 kg	43.5 kPa	3,090 mm	25,180 kg	44.9 kPa	3,090 mm	-	-	-
800 mm	24,665 kg	38.5 kPa	3,190 mm	25,465 kg	39.8 kPa	3,190 mm	25,600 kg	40.0 kPa	3,190 mm

BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth	Work implement type			
					5,710 mm Boom			8,850 mm Boom
	m³ (yd³)	mm (ft)	kg (lbs)	EA	2,400 mm Arm	2,915 mm Arm	3,500 mm Arm	6,400 mm Arm
General type	0.45 (0.59)	865 (2'10")	380 (838)	4	NA	NA	NA	B
Earth type	0.9 (1.18)	1,200 (3'11")	737 (1,625)	5	B	B	B	NA
Earth type	1.0 (1.31)	1,260 (4'2")	779 (1,717)	5	B	B	B	NA
Earth type	1.1 (1.44)	1,330 (4'4")	805 (1,775)	5	B	B	B	NA
Earth type	1.2 (1.57)	1,390 (4'7")	835 (1,841)	5	B	B	NA	NA
General type	1.0 (1.31)	1,260 (4'2")	988 (2,178)	5	C	C	C	NA
General type	1.1 (1.44)	1,330 (4'4")	1,025 (2,260)	5	C	C	NA	NA
Rock type	1.0 (1.31)	1,300 (4'3")	1,019 (2,247)	5	D	D	NA	NA
Rock type	1.1 (1.44)	1,370 (4'6")	1,064 (2,346)	5	D	D	NA	NA

The recommendations are given as a guide only, based on typical operation conditions.
Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density:
A 1,200 - 1,300 kg/m³ : Coal, Caliche, Shale
B 1,400 - 1,600 kg/m³ : Wet earth and clay, limestone, sandstone
C 1,700 - 1,800 kg/m³ : Granite, wet sand, well blasted rock
D 1,900 kg/m³ : Wet mud, Iron ore
NA. Not applicable

LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.



Rating over-front (Cf) Rating over-side (Cs)

1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
5. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
6. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

LIFTING CAPACITY (METRIC)

922FE with 2,915 mm Arm & 800 mm shoes

A: Load radius
B: Load point height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

Conditions:

Boom length: 5,710mm
Arm length: 2,915mm
Bucket: None
Counterweight: 4,000Kg
Track gauge: 2,390mm
Shoes: 800 mm triple grouser
Unit: Kg



A (Unit:m)

B (m)	3		4.5		6		7.5		8		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A
7.5					*4,260	*4,260					*3,916	*3,916	6.1
6.0					*4,592	*4,592					*3,858	*3,858	7.2
4.5			*5,783	*5,783	*5,079	*5,079	*4,774	3,943			*3,843	3,619	7.9
3.0			*7,458	*7,458	*5,852	5,277	*5,109	3,824	*4,970	3,469	*3,791	3,274	8.3
1.5			*9,033	7,330	*6,655	4,994	*5,511	3,686	*5,265	3,366	*3,935	3,137	8.4
0	*6,062	*6,062	*9,906	6,995	*7,236	4,787	*5,813	3,577	5,372	3,285	*4,467	3,180	8.2
-1.5	*10,205	*10,205	*10,033	6,888	*7,426	4,691	*5,824	3,534			*5,446	3,423	7.7
-3.0	*13,437	13,043	*9,457	6,941	*7,045	4,715					*6,012	4,040	6.8
-4.5	*10,917	*10,917	*7,823	7,165							*6,316	5,615	5.4

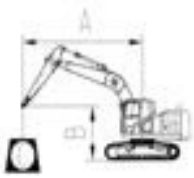
LIFTING CAPACITY (METRIC)

922FE with 2,915 mm Arm & 700 mm shoes

A: Load radius
B: Load point height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

Conditions:

Boom length: 5,710mm
Arm length: 2,915mm
Bucket: None
Counterweight: 4,000Kg
Track gauge: 2,200mm
Shoes: 700 mm triple grouser
Unit: Kg



A (Unit:m)

B (m)	3		4.5		6		7.5		8		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A
7.5					*4,260	*4,260					*3,916	*3,916	6.1
6.0					*4,592	*4,592					*3,858	3,844	7.2
4.5			*5,783	*5,783	*5,079	5,010	*4,774	3,548			*3,843	3,252	7.9
3.0			*7,458	7,070	*5,852	4,736	*5,109	3,431	*4,970	3,109	*3,791	2,932	8.3
1.5			*9,033	6,492	*6,655	4,458	*5,511	3,295	*5,265	3,008	*3,935	2,802	8.4
0	*6,062	*6,062	*9,906	6,167	*7,236	4,255	5,781	3,188	5,256	2,928	*4,467	2,834	8.2
-1.5	*10,205	*10,205	*10,033	6,063	*7,426	4,160	5,733	3,146			*5,446	3,048	7.7
-3.0	*13,437	11,259	*9,457	6,115	*7,045	4,184					*6,012	3,595	6.8
-4.5	*10,917	*10,917	*7,823	6,332							*6,316	4,990	5.4

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.



Rating over-front (Cf) Rating over-side (Cs)

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2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
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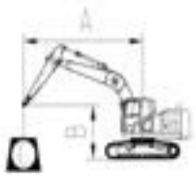
LIFTING CAPACITY (METRIC)

922FELL with 6,250 mm Arm & 800 mm shoes

A: Load radius
B: Load point height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

Conditions:

Boom length: 8,850mm
Arm length: 6,250mm
Bucket: None
Counterweight: 4,000Kg
Track gauge: 2,390mm
Shoes: 800 mm triple grouser
Unit: Kg



A (Unit:m)

B (m)	3		4.5		6		7.5		8		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A
7.5											*1,884	1,717	13.1
6.0											*1,842	1,529	13.7
4.5							*2,634	*2,634	*2,536	*2,536	*1,842	1,399	14.1
3.0			*5,181	*5,181	*3,805	*3,805	*3,098	*3,098	*2,935	*2,935	*1,919	1,315	14.3
1.5			*6,576	*6,576	*4,572	*4,572	*3,572	3,474	*3,345	3,184	*2,102	1,271	14.3
0	*2,697	*2,697	*6,259	5,898	*5,197	4,170	*3,993	3,168	*3,716	2,918	*2,206	1,245	14.2
-1.5	*3,762	*3,762	*6,393	5,589	*5,617	3,880	*4,318	2,948	*4,012	2,719	2,278	1,255	13.9
-3.0	*4,971	*4,971	*7,305	5,491	*5,839	3,734	*4,529	2,814	*4,210	2,594	2,350	1,291	13.5
-4.5	*6,317	*6,317	*7,940	5,514	*5,885	3,691	*4,615	2,755	*4,298	2,536	2,517	1,385	12.8

LIFTING CAPACITY (METRIC)

922FE with 2,400 mm Arm & 600 mm shoes

A: Load radius
B: Load point height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

Conditions:

Boom length: 5,710mm
Arm length: 2,400mm
Bucket: None
Counterweight: 4,000Kg
Track gauge: 2,390mm
Shoes: 800 mm triple grouser
Unit: Kg



A (Unit:m)

B (m)	3		4.5		6		7.5		8		Max Reach		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A
7.5											*5,316	*5,316	5.6
6.0					*5,114	*5,114					*5,170	4,453	6.8
4.5	*8,953	*8,953	*6,487	*6,487	*5,542	5,315					*5,218	3,763	7.5
3.0			*8,160	7,520	*6,272	5,058	*5,448	3,679			*5,344	3,398	7.9
1.5			*9,574	7,005	*6,999	4,808	*5,774	3,566			5,291	3,258	8.0
0			*10,163	6,767	*7,459	4,642	5,722	3,485			5,422	3,315	7.8
-1.5	*9,608	*9,608	*10,022	6,726	*7,481	4,585					5,930	3,598	7.3
-3.0	*12,578	*12,578	*9,152	6,826	*6,776	4,658					*6,145	4,317	6.4
-4.5	*9,532	*9,532	*6,836	*6,836							*6,031	*6,031	4.9

STANDARD EQUIPMENT

BATTERY
- High energy density lithium iron phosphate lithium battery
- Battery heating function
- Forced Liquid cooling

MOTOR
- High performance original imported synchronous reluctance motor
- Forced cooled motor
- Intelligent protection function
- Automatic idle function

CHARGE
- Equipped with fast charging interface(CCS2)
- Electronic lock: Standard charging anti-theft feature
- Charging protection function

ELECTRICAL SYSTEM
- 8inch Monitor: working mode, working hour, water temperature, oil temperature, SOC, rear vision, fault code, work condition etc. machine information.
- Warn: low engine oil pressure, low fuel level, air filter clog, machine overheat, maintenance remind etc.
- Wiper intermittent time adjustable
- Bluetooh/ AM/FM radio with auxiliary input
- Work lights shut off delay timer
- Cab light shut off delay timer
- 2 stereo speakers
- 2 signaling/warning horn
- Battery disconnect switch
- Emergency stop on ground
- Left boom working light
- Right platform working light
- Rear vision camera
- Set password for auxiliary hydraulic-flow adjustments
- Work tool flow and pressure programmable memories
- 12V power interface (with cover)
- Two maintenance free battery
- Emergency stop
- Travel alarm
- Swing alarm
- Rotating beacon
- Quicker-coupler opening warning
- Seatbelt connect with warning beacon
- One click start
- “Muti-language display (full graphic and
- full color display)”

- 4 boom working lights
- Work lights: separately installed LED in front and rear cab (4 front and 2 rear)
- 360° view
- Overload warning device

HYDRAULIC SYSTEM
- Full electric control hydraulic system
- 3-power modes (Power, Standard, Economy)
- Automatic power boost function
- Pilot control shut-off lever
- Pilot accumulator
- Automatic swing parking brake
- Swing with anti-reverse function
- Boom and arm regeneration circuits
- Boom lowering device for back-up
- Boom and arm load holding valve
- Automatic two-speed travel
- Automatic travel parking brake
- Hydraulic oil temperature independent control
- Pressure checking port for main pump
- Dual way auxiliary lines with proportional joystick control
- Auxiliary dual swing pipe flow & pressure adjustable
- High pressure quick-coupler pipes
- Attachment oil drain line

OPERATOR STATION
- Pressurized and sealed cab with all-around visibility
- ROPS certified cab
- Removeble front-top window
- Large roof window with slide sliding sun visor
- Air suspension deluxe seat (with heater and head rest) +retractable seat belt (75 mm [3 in] width, red colour, with green alarm lamp)
- Consoles and seat height adjustable follow-up
- 8 inches high resolution LCD touch screen + integrated control panel
- Automatic air conditioner, heater, defroster
- Washable floor mat
- Place for shoes
- Fire extinguisher
- Safety hammer for cab evacuation
- Storage box
- Cup holder
- Document holding space
- Green safety glass
- Sliding window positioning
- Cab interior lighting
- AM/FM Radio with MP3 audio jack
- Rear view mirror, mounted in the LH cab

FRONT EQUIPMENT
- 5710 mm boom
- 2915 mm arm
- 1.0 m3 general type bucket
- Manual centralized lubrication on boom and arm

UPPER STRUCTURE
- Frame handrail
- Punched metal anti-slip plates
- 1400kg Counterweight
- Standard undercover belly plates（2mm（
- Side door brace automatically lock
- One key for all locks
- Rearview mirror mounted in the RH machine
- Rearview mirror mounted in the LH cab
- Guard fence of upper frame around

UNDERCARRIAGE
- Standard track beam
- 600mm track-shoes with triple grousers
- Rollers, bottom - 8 each side
- Rollers, top - 2 each side
- 2 piece track guards (each side)
- Centralized lubrication for swing bearing
- Towing eye on base frame
- Traction hole

SERVICE & MAINTENANCE
- Maintenance tool kit
- Maintenance parts package
- Telematics system
- Remote program update
- Data diagnostic port
- Self-diagnostic system

LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.



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