930F

EXCAVATOR

Stage V

LiuGong

SPECIFICATIONS

Operating Weight	29,800 kg (66,222 lb

Operating weight includes coolant, lubricants, full fuel tank, cab, standard Shoes, boom, arm, bucket and operator 75 kg (165 lbs).

Bucket Capacity	1.3 m³(1.7 yd³

ENGINE

Description	
Cummins B6.7	
Emission rating	EU Stage V
Engine manufacturer	Cummins
Engine model	B6.7
Aspiration	Tuibo
Charged air cooling	TBA
Cooling fan drive	Silicon oil clutch, varial speed adjustment
Displacement	TBA
Rated speed	2,000 rpm
Engine output - net (SAE J1349 / ISO 9249)	TBA
Engine output - gross (SAE J1995 / ISO 14396)	173 kW (235.1 hp / TBA ps)
Maximum torque	949 N·m@1,500 rpm
Bore × Stroke	107 × 124 mm

UNDERCARRIAGE

Track shoe each side	51
Link pitch	TBA mm
Shoe width, triple grouser	600 mm (1'12'' in)
Bottom rollers each side	9
Top rollers each side	2

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	TBA rpm
Swing torque	TBA N·m

HYDRAULIC SYSTEM

Main pump	
Type	Load-sensing variable pump
Maximum flow	266 L/min (70 gal/min)
Relief valve setting	
Implement	34.3 MPa (4,975 psi)
Travel circuit	34.3 MPa (4,975 psi)
Slew circuit	32.4 MPa (4,699 psi)
Pilot circuit	3.5-3.9 MPa (508-566 psi)
Hydraulic cylinders	
Boom Cylinder – Bore × Stroke	Φ140 × 1,342 mm
Arm Cylinder – Bore × Stroke	Φ150 ×1,755 mm
Bucket Cylinder – Bore × Stroke	Φ140 × 1,135 mm

ELECTRIC SYSTEM

System Voltage	24 V
Batteries	2 x 12 V
Alternator	24 V - 70 A
Start motor	24 V - 7.8 kW

SERVICE CAPACITIES

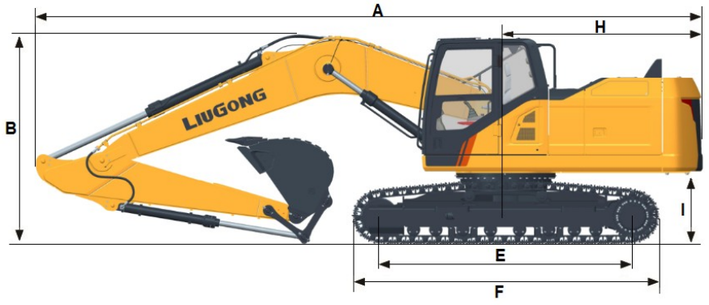
Fuel tank	520 L (137.4 gal)
Engine oil	24 L (6.3 gal)
Final drive (each)	9.5 L (2.5 gal)
Swing drive	10.5 L (2.8 gal)
Cooling system	35 L (9.2 gal)
Hydraulic reservoir	195 L (51.5 gal)
Hydraulic system total	360 L (95.1 gal)

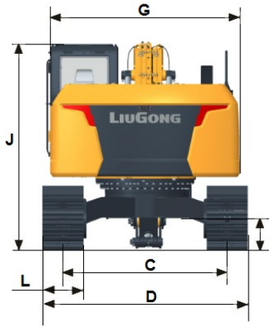
SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396)	69 dB(A)
Exterior Sound Power Level (ISO 6395)	103 dB(A)

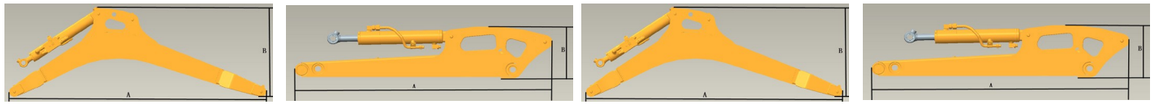
DRIVE AND BRAKES

Description	
Steering controlled by two hand levers with pedals.	
Max. travel speed	High: 5.5 km/h (TBA mph) Low: 3.0 km/h (TBA mph)
Gradeability	35°/70%
Max. drawbar pull	320 kN (71,939 lbf·ft)





DIMENSIONS	
Boom	6,200 mm (20'4")
Arm Length	3,050 mm (10'0")
A Shipping Length	10,650 mm (34'11")
B Shipping Height – Top of Boom	3,525 mm (11'7")
C Track Gauge	2,590 mm (8'6")
D Undercarriage Width– 600 mm shoes	3,190 mm (10'6")
E Length to Center of Rollers	4,010 mm (13'2")
F Track Length	4,935 mm (16'2")
G Track Shoe Width	600 mm (1'12")
H Tail Swing Radius	3,230 mm (10'7")
I Counterweight Ground Clearance	1,250 mm (4'1")
J Overall Height of Cab	3,175 mm (10'5")
K Min. Ground Clearance	535 mm (1'9")
Overall Width of Upper Structure	3,136 mm (10'5")

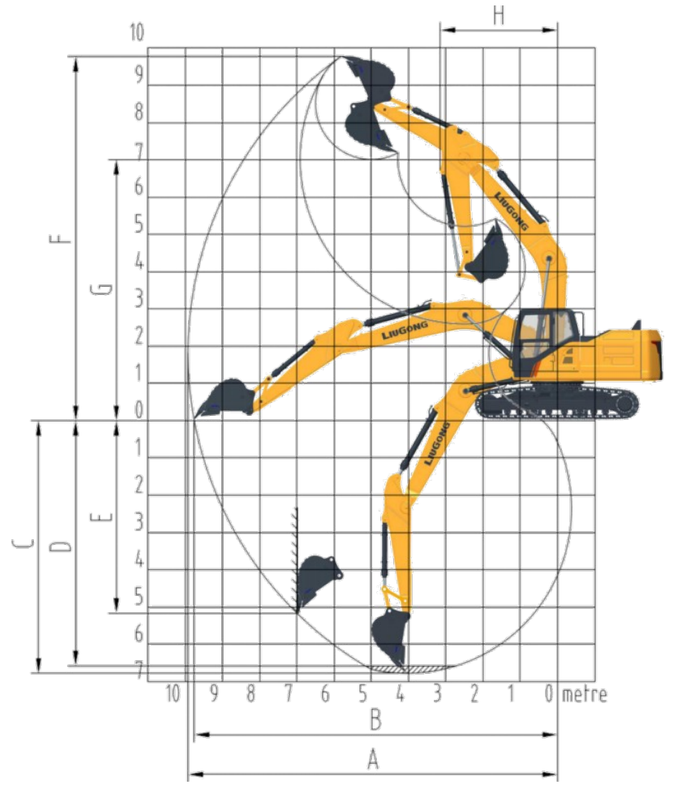


BOOM DIMENSIONS	
Boom	6,200 mm (20'4")
A Length	6,430 mm (21'1")
B Height	1,557 mm (5'1")
C Width	754 mm (2'6'')
Weight	2,345 kg (5,170 lbs)

Includes cylinder, piping and pin, excludes boom cylinder pin.

ARM DIMENSIONS	
Arm	3,050 mm (10'0")
A Length	4,222 mm (13'10")
B Height	1,016 mm (3'4")
C Width	366 mm (1'2")
Weight	1,134 kg (2,500 lbs)

Includes cylinder, linkage and pin.



WORKING RANGE	
	930F
Boom Length	6,200 mm (5'6")
Arm Length	3,050 mm (10'0")
A. Max. Digging Reach	10,653 mm (34'11")
B. Max. Digging Reach on Ground	10,453 mm (34'4")
C. Max. Digging Depth	7,300 mm (23'11")
D. Max. Vertical Wall Digging Depth	6,216 mm (20'5")
E. Max. Cutting Height	10,300 mm (33'10")
F. Max. Dumping Height	7,265 mm (23'10")
G. Min. Front Swing Radius	4,040 mm (13'3")
Bucket Digging Force (ISO)	203 KN (45,636 lbf)
Arm Digging Force (ISO)	149 KN (33,497 lbf)
Bucket Capacity	1.3 m³ (1.7 yd³)
Bucket Tip Radius	1,676 mm (5'6")

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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BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth	6.2 m (20'3") boom 3.05 m (10') arm	/boom	/boom	/boom
Earth type	1.3 m³ (1.70 yd³)	1,490 mm (4'11")	1,197 kg (2,639 lbs)	5 EA	B	/	/	/
General type	/	/	/	/	/	/	/	/

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

MACHINE WEIGHTS AND GROUND PRESSURE

Shoe width	930F		
	Operating weight	Ground pressure	Overall width
	6,200 mm boom, 3,050 mm arm, 1.3 m³ bucket, 4,800 kg counterweight		
600 mm	29,800 kg	55.5 kPa	3,190 mm

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.



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.

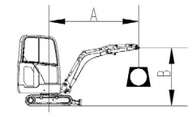
LIFTING CAPACITY (METRIC)

930F with 600 mm Shoes, 6,200 mm Boom, 3,050 mm Arm

A: Load radius
B: Load point height
C: Lifting capacity rating
Cf: Rating loads over front
Cs: Rating loads over side or 360°

Conditions

Boom length: 6,200 mm
Arm length: 3,050 mm
Shoes: 600 mm
Bucket: None
Unit: kg



B (m)		A (blade up) 1.5 Cf	1.5 Cs	3 Cf	3 Cs	4.5 Cf	4.5 Cs	6 Cf	6 Cs	7.5 Cf	7.5 Cs	MAX REACH Cf	MAX REACH Cs	MAX REACH A (m)
6	kg							*6,943	*6,943	*6,817	*6,817	*6,141	6,092	8.1
4.5	kg					*9,557	*9,557	*7,993	*7,993	*7,254	6,732	*6,031	5,414	8.7
3	kg					*12,436	*12,436	*9,356	8,858	*7,940	6,545	*6,183	5,081	9.0
1.5	kg					*14,726	12,491	*10,627	8,515	*8,638	6,364	*6,966	5,007	9.0
Ground Level	kg					*15,729	12,212	*11,460	8,299	*9,140	6,238	*7,489	5,105	8.8
-1.5	kg	*8,639	*8,639	*12,944	*12,944	*15,699	12,176	*11,694	8,225	*9,245	6,197	*8,215	5,486	8.3
-3	kg	*15,048	*15,048	*20,657	*20,657	*14,787	12,299	*11,184	8,284			*8,540	6,286	7.5
-4.5	kg			*17,295	*17,295	*12,655	12,592	*9,302	8,529			*8,834	8,194	6.2

STANDARD EQUIPMENT

ENGINE SYSTEM
- Cummins B6.7 engine, EPA Tier 4F/EU Stage V, turbocharged, 6 cylinder, 4 stroke, water cooled.
- Engine overheat prevention system
- Auto-idle speed control
- Automatic engine shutdown
- Air filter with integrated pre-cleaner
- Fuel pre-filter with water separator and water detection
- Electric fuel lifting pump
- Remote engine oil filter
- Lockable engine oil guage
- Reversible electric cooling fan
- Air conditioner compressor belt automatic tense

HYDRAULIC SYSTEM
- Full electric control hydraulic system
- 3-power modes (Power, Standard, Economy)
- Power boost function
- Automatic swing parking brake
- Swing with anti-reverse function
- Boom and arm regeneration circuits
- Boom and arm holding valves
- Automatic two-speed travel
- Hydraulic oil temperature independent control
- MCV with auxiliary valve
- Automatic hydraulic system warm-up

DIGGING EQUIPMENT
- 6000 mm boom
- 2980 mm arm
- 1.3 ㎥ general type bucket
- Arm front end with guard bars
- Manual centralized lubrication on boom
- Manual centralized lubrication on arm

OPERATOR STATION
- Pressurized and sealed cab with all-around visibility
- ROPS certified cab
- Lower windshield can be removable
- 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
- Fire extinguisher
- Safety hammer for cab evacuation
- Storage box
- Cup holder
- Green safety glass

UPPER STRUCTURE
- Punched metal anti-slip plates
- Foot pedal is in engine room
- Standard frame undercover
- One key for all locks
- Rearview mirror mounted in the RH machine
- Rearview mirror mounted in the LH cab
- 5000kg counterweight

ELECTRICAL SYSTEM
- Monitor: working mode, working hour, water temperature, oil temperature, fuel level, DEF level, fuel consumption, 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.
- Front window wiper with intermittent feature
- AM/FM radio with auxiliary input
- Blue tooth
- Working lights close time delay by program-mable
- Cab interior decoration lights close time delay by programmable
- 2 stereo speakers
- Battery disconnect switch
- Secondary engine shutoff switch
- Left boom working light
- Right platform working light
- Rear vision camera
- Set password for auxiliary hydraulic-flow adjust-ments
- Work tool flow and pressure programmable memories
- Travel alarm
- Control pattern-change valve

UNDERCARRIAGE
- 600mm track-shoes with triple grousers
- Rollers, bottom - 9 each side
- Rollers, top - 2 each side
- 2 piece track guards (each side)
- Centralized lubrication for swing bearing
- Towing eye on base frame

OPTIONAL EQUIPMENT

ENGINE SYSTEM
- Electric refueling pump with auto shutoff

HYDRAULIC SYSTEM
- Foot pedal control auxiliary pipes
- Hand proportional control auxiliary dual way pipes
- Hand proportional control auxiliary swing pipes
- PTO max flow with manual control
- Auxiliary sigle-double hydraulic lines exchange on the monitor
- Auxiliary dual pipe flow & pressure adjustable
- High pressure quick-coupler pipes
- Low pressure quick-coupler pipes
- Attachment oil drain line
- Additional filter for breaker piping
- Boom drift function
- Straight travel with one pedal
- Bucket cylinder rod protect

OPERATOR STATION
- Cab lower window guard
- Cab top guard
- Openable cab front guard
- Cab front guard and top guard (falling object protective structure)
- Openable cab front window mesh guard
- Sunscreen
- Front window rain visor

ELECTRICAL SYSTEM
- Overload warning device
- Rotating beacon
- Quicker-coupler opening warning
- Starting code
- Right boom working light
- 4 boom working lights
- 2 cab mounted working lights
- Side vision camera
- 360° view
- Machine rear lighting
- Work lights: separately installed LED in front and rear cab (4 front and 2 rear)
- Work lights: long strip LED light in front and rear cab

UPPER STRUCTURE
- Guard rails of upper frame sides
- Guard fence of upper frame around
- Assembly Upper frame gurad
- Reinforced frame undercover
- 6100 kg counterweight

UNDERCARRIAGE
- Reinforced track undercover
- 700 mm, 800 mm, 900 mm track-shoes with triple grousers
- Auxiliary tarck footrest
- 3 piece track guards (each side)
- Full length track guiding guard

DIGGING EQUIPMENT
- Bucket linkage with lifting eye
- Bucket lifting hole
- Auto centralized lubrication system
- 2500mm short reach arm
- 3500mm long reach arm
- 18m super long reach boom & arm
- 1.3 m³ rock type bucket
- 1.4 m³ earth type bucket
- Hydraulic quick coupler

DIGGING EQUIPMENT
- E-fence
- 2D Guide system
- Payload system
- Assist control system

LiuGong
TOUGH WORLD. TOUGH EQUIPMENT.

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