

LIUGONG

9135F EXCAVATOR

ALL NEW
F-SERIES

Engine
Net Power
Operating Weight
Bucket Capacity

Cummins QSK23
567 kW
122,000-124,000kg
5.2-9.0 m³



TOUGH WORLD. TOUGH EQUIPMENT.

SPECIFICATIONS

OPERATING WEIGHT

122,000-124,000kg

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

Bucket Capacity 5.2-9.0 m³

ENGINE

Description

Cummins EU Stage V, 6-cylinder straight electronically controlled direct injection. Air cleaner: Oil bath type air prefilter. Cooling system: Charge air cooler.

Emission rating EU Stage V

Engine manufacturer Cummins

Engine model QSK23

Charged air cooling Aftercooler

Cooling fan drive Hydraulic fan

Displacement 23 L

Engine output - gross (SAE J1995 / ISO 14396) 567 kW@1,800 rpm

Maximum torque 3,468 N·m @ 1,800 rpm

Bore x Stroke 170 x 170 mm

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: 3.5 km/h
Low: 2.6 km/h

Gradeability 33%/65%

Max. drawbar pull 796.4 kN

HYDRAULIC SYSTEM

Main pump

Type Four axial variable piston pump

Maximum flow 2 - 2 x 510 L/min

Pilot pump

Type Gear pump

Maximum flow 49 L/min

Relief valve setting

Implement 35/37 MPa

Travel circuit 35 MPa

Slew circuit 26.9 MPa

Pilot circuit 3.9 MPa

Hydraulic cylinders

Boom cylinder - bore x stroke $\phi 230 \times 2,210$ mm

Stick cylinder - bore x stroke $\phi 240 \times 2,357$ mm

Bucket cylinder - bore x stroke $\phi 210 \times 2,971$ mm

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 6.2 rpm

Swing torque 420,000 N·m

ELECTRIC SYSTEM

System voltage 24 V

Batteries 4 x 12 V

Alternator 24 V - 140 A

Start motor 24 V - 7.5 kW

UNDERCARRIAGE

Track shoe each side 50

Link pitch 280 mm

Shoe width, triple grouser 700 / 800 / 900 / 1,000 mm

Bottom rollers each side 8

Top rollers each side 3

SERVICE CAPACITIES

Fuel tank 1,520 L

Engine oil 70 L

Final drive (each) 25 L

Swing drive (each) 14 L

Cooling system 106.6 L

Hydraulic reservoir 750 L

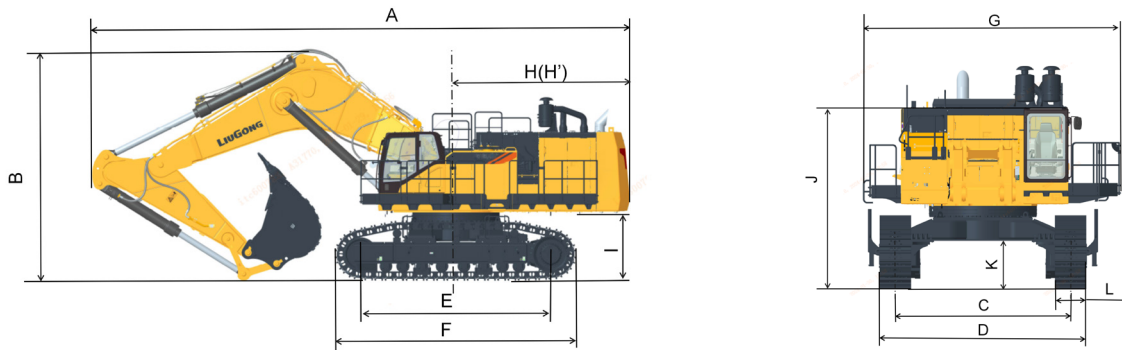
Hydraulic system total 1,150 L

DEF tank 80 L

SOUND PERFORMANCE

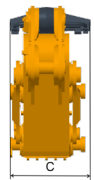
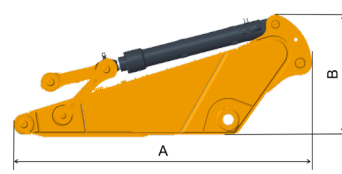
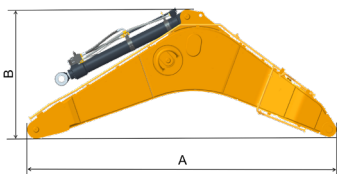
Interior sound power level (ISO 6396) 72 dB(A)

Exterior sound power level (ISO 6395) 112 dB(A)



DIMENSIONS

Boom	9,100 mm	7,550 mm	7,550 mm
Arm Options	3,400 mm	3,400 mm	3,200 mm
A Shipping Length	16,297 mm	14,755 mm	14,872 mm
B Shipping Height – Top of Boom	6,229 mm (bucket)	6,364 mm (bucket)	5,962 mm (bucket)
C Track Gauge		3,900 mm	3,900 mm
D Undercarriage Width – 700 mm shoes		4,600 mm	4,600 mm
		800 mm shoes	4,700 mm
		900 mm shoes	4,800 mm
		1,000 mm shoes	4,900 mm
E Length to Center of Rollers		5,220 mm	5,220 mm
F Track Length		6,624 mm	6,624 mm
G Overall Width of Upper Structure		5,743 mm (including access plate)	5,743 mm (including access plate)
H Tail Swing Radius		4,900 mm	4,900 mm
I Counterweight Ground Clearance		1,851 mm	1,325 mm
J Overall Height of Cab		4,253 mm (with protective equipment)	4,253 mm (with protective equipment)
K Min. Ground Clearance		1,084 mm	1,084 mm
L Track Shoe Width		700 mm	700 mm

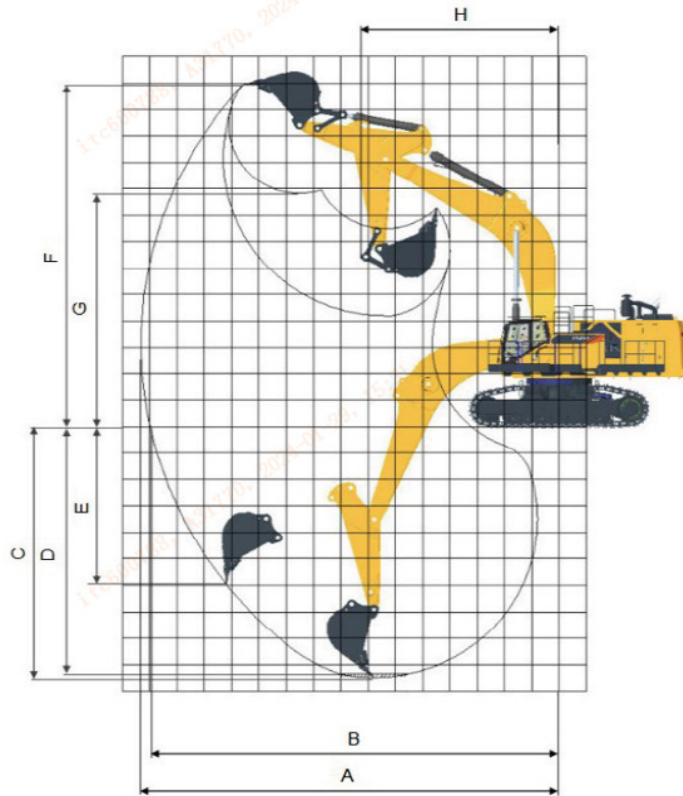


BOOM DIMENSIONS	STANDARD	LONG
Boom	7,550 mm	9,100 mm
A Length	7,965 mm	9,515 mm
B Height	3,038 mm	3,108 mm
C Width	1,662 mm (with boom hinge pin)	1,662 mm (with boom hinge pin)
Weight	12,937 kg	13,684 kg

Cylinder, piping and pin included. Boom cylinder pin excluded.

ARM DIMENSIONS		
Arm	3,400 mm	3,200 mm
A Length	4,930 mm	4,850 mm
B Height	2,010 mm	2,190 mm
C Width	990 mm (with hinge pin)	990 mm (with hinge pin)
Weight	6,420 kg	6,480 kg

Cylinder, linkage and pin included.



WORKING RANGE

Boom Length	9,100 mm	7,550 mm	
Arm Length	3,400 mm	3,400 mm	3,200 mm
A Max. Digging Reach	15,330 mm	13,997 mm	13,876 mm
B Max. Digging Reach on Ground	14,996 mm	13,628 mm	13,505 mm
C Max. Digging Depth	9,499 mm	8,162 mm	8,059 mm
D Max. Digging Depth, 2.5 m (8') Level	9,366 mm	7,879 mm	7,897 mm
E Max. Vertical Wall Digging Depth	5,938 mm	5,832 mm	6,634 mm
F Max. Cutting Height	12,944 mm	12,595 mm	12,508 mm
G Max. Dumping Height	8,815 mm	8,050 mm	7,775 mm
H Min. Front Swing Radius	7,994 mm	6,489 mm	6,628 mm
Bucket Digging Force (ISO)	497 kN	610 kN	648 kN
Stick Digging Force (ISO)	443 kN	491 kN	550 kN
Bucket Capacity	5.2 m ³	8.0 m ³	9.0 m ³
Bucket Tip Radius	2,318 mm	2,388 mm	2,388 mm

MACHINE WEIGHTS AND GROUND PRESSURE

	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
Shoe width	7.55 m boom, 3.4 m arm, 8.0 m ³ bucket, 122,000 kg counterweight (other systems are standard configuration)			7.55 m boom, 3.4 m arm, 8.0 m ³ bucket, 124,000 kg counterweight (other systems are standard configuration)		
700 mm	122,000 kg	147.0 kPa	5,743 mm	124,000 kg	149.4 kPa	5,743 mm
800 mm	122,800 kg	132.0 kPa	5,743 mm	124,800 kg	134.1 kPa	5,743 mm
900 mm	123,600 kg	114.5 kPa	5,743 mm	125,600 kg	116.4 kPa	5,743 mm
1,000 mm	124,400 kg	103.0 kPa	5,743 mm	126,400 kg	104.7 kPa	5,743 mm

BUCKET SELECTION GUIDE

Bucket Type	Capacity	Cutting Width	Weight	Teeth	9.1 m Boom	7.55 m Boom	7.55 m Boom
					3.4 m Arm	3.4 m Arm	3.2 m Arm
Common Bucket	5.2 m ³	1,854 mm	5,397 kg	5	AB	NA	NA
Heavy Digging Bucket	7.0 m ³	2,470 mm	7,099 kg	5	NA	CD	CD
Heavy Loading Bucket	8.0 m ³	2,786 mm	8,242 kg	5	NA	B	B
Loading Bucket	9.0 m ³	2,862 mm	8,995 kg	5	NA	NA	A

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

Lifting capacity at the arm end without attachment.
For lifting capacity including attachment, weight of the attachment must be deducted from the lifting capacities.



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. Lifting capacities are based on machine standing on level, firm and uniform ground.
4. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
5. 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.

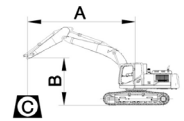
LIFTING CAPACITY

9135F with 700 mm Shoes, 9,100 mm Boom, 3,400 mm Arm

A: Load radius
B: Load point height
C: Lifting capacity rating
Cf: Rated loads over front
Cs: Rated loads over side

Conditions

Boom length: 9,100 mm
Arm length: 3,400 mm
Attachment: None
Counterweight: 122,000 kg
Shoes: 700 mm double grouser
Unit: kg



B (m)		A (Unit: m)														A (m)
		4.5		6		7.5		9		10.5		12		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
10.5	kg													*20,847	*20,847	10.2
9.0	kg									*21,275	*21,275			*19,799	19,077	11.2
7.5	kg							*23,959	*23,959	*21,797	21,083			*19,549	16,804	11.9
6.0	kg					*30,708	*30,708	*25,740	*25,740	*22,755	20,277	*20,956	16,231	*20,744	15,510	12.3
4.5	kg							*27,634	24,268	*23,865	19,385	21,233	15,750	19,592	14,502	12.6
3.0	kg							*29,262	22,982	*24,887	18,552	20,709	15,253	18,976	13,963	12.7
1.5	kg					*37,527	28,140	*30,321	22,036	24,546	17,885	20,275	14,841	18,898	13,841	12.6
GROUND LEVEL	kg					*37,469	27,609	29,974	21,465	24,079	17,446	20,015	14,595	19,364	14,136	12.3
-1.5	kg			*35,381	*35,381	*36,395	27,498	29,732	21,240	23,895	17,273			20,467	14,912	11.8
-3.0	kg	*34,160	*34,160	*41,055	39,524	*34,255	27,724	*28,544	21,349	*23,690	17,428			*21,986	16,498	36
-4.5	kg	*42,188	*42,188	*36,437	*36,437	*30,666	28,314	*25,362	21,857					*21,554	19,170	10
-6.0	kg	*33,404	*33,404	*29,337	*29,337	*24,474	*24,474							*19,987	*19,987	8.6

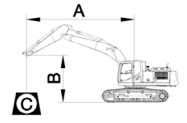
LIFTING CAPACITY

9135F with 700 mm Shoes, 7,550 mm Boom, 3,400 mm Arm

A: Load radius
 B: Load point height
 C: Lifting capacity rating
 Cf: Rated loads over front
 Cs: Rated loads over side

Conditions

Boom length: 7,500 mm
 Arm length: 3,400 mm
 Bucket: None
 Counterweight: 122,000 kg
 Shoes: 700 mm double grouser
 Unit: kg



A (Unit: m)

B (m)	A (Unit: m)										MAX REACH		A (m)	
	4.5		6		7.5		9		10.5		Cf	Cs		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
10.5	kg										*26,602	*26,602	8.2	
9.0	kg						*27,283	*27,283			*24,998	*24,998	9.4	
7.5	kg						*27,496	*27,496			*25,098	22,203	10.2	
6.0	kg			*39,727	*39,727	*32,708	*32,708	*28,593	26,943	*26,091	20,683	*23,587	19,602	10.8
4.5	kg					*35,480	33,920	*30,029	25,662	*26,596	20,058	*24,329	18,215	11.1
3.0	kg					*37,866	31,771	*31,344	24,392	26,116	19,350	23,567	17,463	11.2
1.5	kg			*50,565	41,543	*39,186	30,158	32,017	23,346	25,467	18,739	23,453	17,288	11.1
GROUND LEVEL	kg			*49,521	40,548	*39,068	29,189	31,268	22,652	25,076	18,373	24,436	17,926	10.7
-1.5	kg	*53,006	*53,006	*46,456	40,342	*37,274	28,817	*30,289	22,386			*25,462	19,310	10.1
-3.0	kg	*50,209	*50,209	*41,119	40,764	*33,266	29,026	*25,970	22,708			*24,136	21,860	9.3
-4.5	kg	*38,524	*38,524	*32,282	*32,282	*25,111	*25,111					*21,912	*21,912	8.0

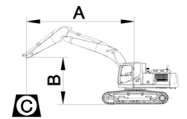
LIFTING CAPACITY

9135F with 700 mm Shoes, 7,550 mm Boom, 3,400 mm Arm

A: Load radius
 B: Load point height
 C: Lifting capacity rating
 Cf: Rated loads over front
 Cs: Rated loads over side

Conditions

Boom length: 7,500 mm
 Arm length: 3,400 mm
 Bucket: None
 Counterweight: 124,000 kg
 Shoes: 700 mm double grouser
 Unit: kg



A (Unit: m)

B (m)	A (Unit: m)										MAX REACH		A (m)	
	4.5		6		7.5		9		10.5		Cf	Cs		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
10.5	kg										*27,220	*27,220	8.0	
9.0	kg						*29,207	28,289			*26,276	*26,276	9.2	
7.5	kg					*32,223	*32,223	*29,283	27,987			*26,966	23,173	10.0
6.0	kg			*42,179	*42,179	*34,703	*34,703	*30,385	27,069	27,592	20,906	*25,662	20,539	10.6
4.5	kg					*37,560	33,997	*31,841	25,905	27,038	20,385	25,398	19,143	10.9
3.0	kg					*39,948	32,035	*33,146	24,748	26,370	19,758	24,527	18,391	11.0
1.5	kg					*41,168	30,579	32,284	23,799	25,793	19,216	24,429	18,229	10.9
GROUND LEVEL	kg			*51,402	41,102	*40,864	29,718	31,613	23,178			25,468	18,911	10.5
-1.5	kg	*55,198	*55,198	*47,991	40,958	*38,796	29,403	31,377	22,959			*27,318	20,372	9.9
-3.0	kg	*50,832	*50,832	*42,224	41,380	*34,342	29,630					*26,382	23,345	9.0
-4.5	kg	*38,538	*38,538	*32,644	*32,644	*24,963	*24,963					*23,526	*23,526	7.7

STANDARD EQUIPMENT

ENGINE SYSTEM

Cummins QSK23 engine, rated power 567 kW, EU Stage V, turbocharged, 6 cylinder, 4 stroke, water cooled.

Engine overheat prevention system

Auto-idle speed control

Oil bath air precleaner

Radial seal air filters (primary and secondary filter)

Variable fan with viscous clutch

HYDRAULIC SYSTEM

Full electric control hydraulic system

Hydraulic fan system

Boom and arm regeneration circuits

Boom and arm holding valves

Automatic two-speed travel

OPERATOR STATION

Pressurized and sealed cab with all-around visibility

Roof window withsliding sun visor

Deluxe heated air suspension seat

Consoles and seat height adjustable follow-up

8 inches high resolution LCD touch screen + integrated control panel

Automatic air conditioner, heater, defroster

Storage box

Cup holder

Document holding space

Green safety glass

Cab lower window guard

Cab top guard

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

Warning: low engine oil pressure, low fuel level, air filter clogging, machine overheat, maintenance reminder, low coolant level, low DEF level, etc.

Front window wiper with intermittent feature

AM FM radio with Bluetooth and USB

Working lights delay-off

Cab interior lights delay-off

2 stereo speakers

3 signaling / warning horn

Battery disconnect switch

Secondary emergency stop button

Work tool flow and pressure programmable memories

Starting code

Working lights: 4 boom working light, 2 cab mounted working lights, Right platform working light etc.

Rear-view camera

Rear lighting

Plateau mode (plateau adaptive function)

Travel alarm

Auto power boost

Overload warning

One-push start

UNDERCARRIAGE

Reinforced undercovers

Heavy duty undercarriage

UPPER STRUCTURE

Handrails

Punched metal anti-slip plates

One key for all locks

Lockable tool box

DIGGING EQUIPMENT

7,550 mm boom

3,400 mm arm

SERVICE AND MAINTENANCE

Maintenance tool kit

Maintenance parts package

Data diagnostic port

Self-diagnostic system

OPTIONAL EQUIPMENT

ENGINE SYSTEM

- Engine oil heater
- 40° C cold starting kit
- Self-cleaning dust prefilter

HYDRAULIC SYSTEM

- Dual way auxiliary lines via proportional joystick control
- Attachment rotating lines via proportional joystick control
- On-screen single-dual way flow switch
- On-screen auxiliary flow & pressure adjustment
- Quick-coupler pipes

OPERATOR STATION

- Operator Protective Guards
- Openable cab front window mesh guard
- 10 inches high resolution LCD touch screen + integrated control panel
- Transparent cab skylight

ELECTRICAL SYSTEM

- 360° view
- Work lights: separately installed LED in front and rear cab (4 front and 2 rear)
- 12 V power supply

UNDERCARRIAGE

- 800mm triple grousers track shoes
- 900mm triple grousers track shoes
- 1,000mm triple grousers track shoes
- Full length track guard

UPPER STRUCTURE

- Companionway

DIGGING EQUIPMENT

9,100 mm boom

3,200 mm short reach arm

Bucket cylinder guard

Arm cylinder guard

Boom cylinder guard

5.2 m³ general purpose bucket

7.0 m³ digging bucket

8.0 m³ loading bucket

9.0 m³ loading bucket

SERVICE & MAINTENANCE

iLink



Guangxi LiuGong Machinery Co., Ltd.
No. 1 Liutai Road, Liuzhou, Guangxi 545007, PR China
T: +86 772 388 6124 E: overseas@liugong.com
www.liugong.com

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