LiuGong

956F EXCAVATOR

F-SERIES

Engine	Cummins X12
Power Output	298 kW @ 2,100 rpm
Operating Weight	55,500-56,000 kg
Bucket Capacity	3.2-3.6 m^3

TOUGH WORLD. TOUGH EQUIPMENT.

BUILT FOR THE TOUGHEST APPLICATIONS

For over 65 years, LiuGong has built machines that thrive in the toughest environments. The 956F, part of our advanced F-Series, are engineered for maximum power, precision, and durability.

Designed to excel in urban construction, landscaping, and utility tasks, this machine combines cutting-edge technology with proven reliability to keep you working efficiently in even the harshest conditions.

Since launching our first hydraulic excavator in 1992, we've remained committed to innovation, ensuring every LiuGong machine is built to perform, wherever the job takes you.

YOUR PERFORMANCE DASHBOARD

Research tells us that 5 key performance areas really matter to you. We'd like to use this performance dashboard to present the real, tough facts about our new 956F.

- POWER & EFFICIENCY
- TOUGHNESS & RELIABILITY
- ERGONOMICS & COMFORT
- SAFETY & VISIBILITY
- UPTIME & MAINTENANCE

THIS IS LIUGONG

- 65+ YEARS EST 1958
- 30+ PRODUCT LINES
- 12 GLOBAL R&D CENTERS
- 30+ GLOBAL OFFICES
- 16,000+ EMPLOYEES
- 20+ GLOBAL MANUFACTURING FACILITIES

THE 956F IN ACTION...

LiuGong 956F Excavator is your reliable partner in mining, heavy construction, demolition, and other heavy-duty operations. It not only delivers maximum power and reliability but is also built to help you maximize productivity and minimize operating costs.

LET'S TAKE A CLOSER LOOK...

POWER & EFFICIENCY

- Complying with EU Stage V emission standards, Cummins X12 engine delivers a power of 298 kW. This ensures not only high performance but also environment-friendly operation.
- The 956F provides 15% more power and 21% higher torque, significantly enhancing productivity and efficiency—even under the most demanding heavy-duty conditions.
- Electronically controlled main pump with increased displacement matched with electro-proportional main valve offers greater digging force and faster cycle times.

TOUGHNESS & RELIABILITY

- The 956F features reinforced undercarriage with dual carrier rollers and full length track guides enhance durability and reliability under heavy loads.
- The boom and arm are built with forged supports, high-strength steel castings, and larger pins for superior durability and fatigue resistance in extreme conditions.
- Heavy duty buckets deliver greater durability with reinforced main and side cutters, and impact-resistant teeth to withstand extreme abrasion and impact.

ERGONOMICS & COMFORT

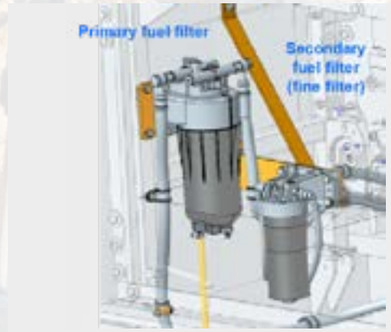
- 10.1-inch touchscreen provides intuitive control over menus, settings, and real-time machine data.
- One-touch attachment control allows easy adjustment of pressure and flow for various attachments.
- Heated and ventilated air suspension seat with electronic lumbar reduces fatigue during long shifts.
- European-standard DAB radio with upgraded speakers enhances the operating experience.

SAFETY & VISIBILITY

- Operator protective guards are designed to protect the cab and the operator in the event of accidents like rollovers, falling objects, or overhead hazards.
- Standard LED lighting package with front and rear light bars, boom lights, and counterweight lights provides 360° illumination.
- 360-degree cameras with side lights enhance jobsite safety during low-light or nightime operations.
- Parallel wipers deliver expanded cleaning coverage, significantly improving visibility in heavy-dust environments, thus increasing operating safety.

UPTIME & MAINTENANCE

- Fuel filter, oil filer, engine oil and air filters are synchronized to be replaced every 500 hours.
- Two-stage filtration system with improved filtration, extending the replacement interval to 500 hours — 50% longer than E series designs.
- Auto-lubrication system eliminates the need for frequent manual greasing, ensures consistent performance under heavy-duty conditions, and extends the service life of critical parts.
- The reversing fan reverses automatically to remove dust and debris from the radiators and coolers wthout the need for manual cleaning, protecting the machine from overheating while reducing downtime.



956F SPECIFICATIONS

Operating weight	55,500-56,000 kg

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

Bucket capacity	3.2-3.6 m³

ENGINE

Cummins EU Stage V, 6-cylinder straight Variable-Geometry Turbocharger (VGT), high pressure common rail, electronically controlled direct injection.
Air cleaner: Cummins direct flow air filter.
Cooling system: Charge air cooler.

Emission rating	EU Stage V
Engine manufacturer	Cummins
Engine model	X12
Aspiration	Variable-Geometry Turbocharger (VGT)
Charged air cooling	Aftercooler
Cooling fan drive	Viscous clutch
Displacement	11.8 L
Engine output - net (SAE J1349 / ISO 9249)	282 kW @ 2,100 rpm
Engine output - rated (SAE J1995 / ISO 14396)	298 kW @ 2,100 rpm
Maximum torque	2,034 N·m @ 1,400 rpm
Bore × Stroke	132 × 144 mm

SWING SYSTEM

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	8.8 rpm
Swing torque	189,600 N·m

HYDRAULIC SYSTEM

Main Pump	
Type	Two variable displacement piston pumps
Maximum flow	2 × 432 L/min
Pilot Pump	
Type	Gear pump
Maximum flow	15 L/min
Relief Valve Setting	
Implement	35 / 37.3 MPa
Travel circuit	35 MPa
Slew circuit	28.5 MPa
Pilot circuit	3.9 MPa
Hydraulic Cylinders	
Boom Bore × Stroke	Φ170 × 1,560 mm
Arm Bore × Stroke	Φ190 × 1,980 mm
Bucket Bore × Stroke	Φ180 × 1,260 mm

UNDERCARRIAGE

Track shoes, each side	53
Link pitch	228 mm
Shoe width, triple grouser	600 mm
Bottom rollers, each side	9
Top rollers, each side	3

DRIVE AND BRAKES

2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.

Max. travel speed	High: 5.4 km/h Low: 3.2 km/h
Gradeability	35°/70%
Max. drawbar pull	410 kN

ELECTRIC SYSTEM

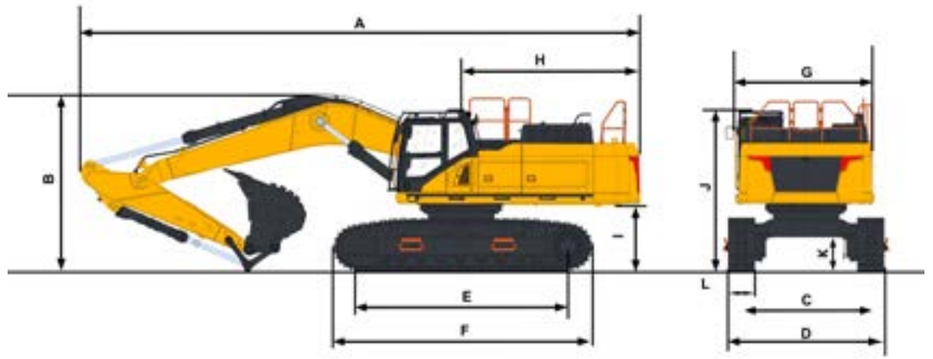
System voltage	24 V
Batteries	2 x 12 V
Alternator	24 V - 70 A
Start motor	24 V - 7.5 kW

SOUND PERFORMANCE

Interior sound level (ISO 6396)	72 dB(A)
Exterior sound level (ISO 6395)	107 dB(A)

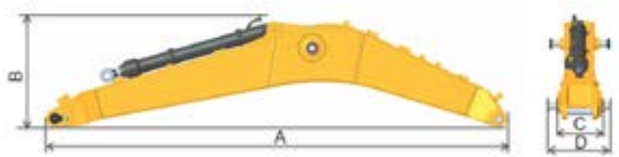
SERVICE CAPACITIES

Fuel tank	700 L
Engine oil	34 L
Final drive (each)	15 L
Swing drive	5.3 × 2 L
Cooling system	50 L
Hydraulic reservoir	230 L
Hydraulic system total	420 L
DEF tank	150 L



DIMENSIONS

Boom	7,060 mm	6,500 mm
Arm options	2,900 mm	2,550 mm
A. Shipping length	12,515 mm	11,900 mm
B. Shipping height – top of boom	4,175 mm (bucket)	3,860 mm (bucket)
C. Track gauge	2,390 mm	2,890 mm
D. Undercarriage width– 600 mm shoes	2,990 mm	3,490 mm
E. Length to center of rollers	4,750 mm	
F. Track length	5,800 mm	
G. Overall width of upper structure	3,462 mm (including protective side beam)	
H. Tail swing radius	4,015 mm	
I. Counterweight ground clearance	1,450 mm	
J. Overall height of cab	3,590 mm (with protective equipment)	
K. Min. ground clearance	510 mm	
L. Track shoe width	600 mm	

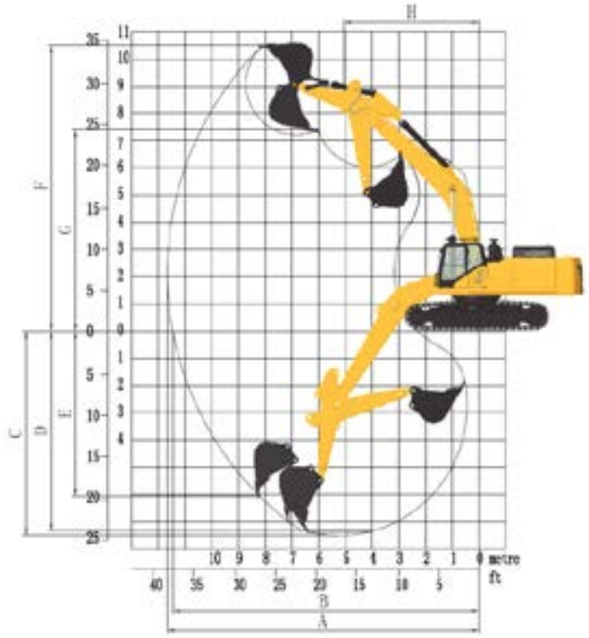


BOOM DIMENSIONS	956F (STANDARD)	956F (SHORT BOOM)
Boom	7,060 mm	6,500 mm
A Length	7,300 mm	6,800 mm
B Height	1,900 mm	2,000 mm
C Width	832 mm	
D Width	1,063 mm (with boom hinge pin 1,110 mm)	
Weight	4,170 kg	4,078 kg

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

ARM DIMENSIONS	956F (STANDARD)	956F (SHORT ARM)
Arm	2,900 mm	2,550 mm
A Length	4,376 mm	3,873 mm
B Height	1,055 mm	1,155 mm
C Width	715 mm (with hinge pin)	
Weight	1,850 kg	1,822 kg

Cylinder, linkage and pin included.



WORKING RANGE

Boom		7,060 mm	6,500 mm
Arm options		2,900 mm	2,550 mm
A. Max. Digging Reach		11,880 mm	11,980 mm
B. Max. Digging Reach on Ground		11,665 mm	10,820 mm
C. Max. Digging Depth		7,530 mm	6,685 mm
D. Max. Digging Depth, 2.5 m Level		7,210 mm	6,585 mm
E. Max. Vertical Wall Digging Depth		5,930 mm	5,080 mm
F. Max. Cutting Height		10,570 mm	10,060 mm
G. Max. Dumping Height		7,150 mm	6,670 mm
H. Min. Front Swing Radius		5,110 mm	4,805 mm
Bucket Digging Force (ISO)	Normal	300 mm	
	Power Boost	320 mm	
Stick Digging Force (ISO)	Normal	245 mm	260 mm
	Power Boost	265 mm	275 mm
Bucket Capacity		3.2 m³	
Bucket Tip Radius		1,752 mm	

MACHINE WEIGHTS AND GROUND PRESSURE

	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
Shoe width	7,060 mm boom, 2,900 mm arm, 3.2 m³ bucket, 12,000 kg counterweight (other systems are standard configuration)			6,500 mm boom, 2,550 mm arm, 3.2 m³ bucket, 12,000 kg counterweight (other systems are standard configuration)		
600 mm	56,000 kg	89.4 kPa	2,990 / 3,490 mm	55,500 kg	88.6 kPa	2,990 / 3,490 mm

BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth pcs	7,060 mm boom 2,900 mm arm	6,500 mm boom 2,550 mm arm
General purpose bucket	3.2 m³	1,850 mm	3,520 kg	5	AB	BC
Heavy duty loading bucket	3.6 m³	2,040 mm	3,540 kg	5	NA	AB

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 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)

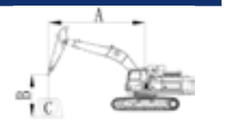
1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. 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

956F with 600 mm Shoes, 6,500 mm Boom, 2,550 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: 6,500 mm
Arm length: 2,550 mm
Bucket: None
counterweight: 12,000 kg
Shoes: 600 mm triple grouser
Unit: kg



A (Unit: m)

B (m)		3		4.5		6		7.5		9		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
7.5	kg									*14,012	*14012	*10,699	*10,699	7.1
6.0	kg					*15,550	*15,550	*13,853	*13,853	*13,534	12,606	*9,249	*9,249	8
4.5	kg			*22,497	*22,497	*17,140	*17,140	*14,468	13,632	*13,305	11,149	*9,653	*9,653	8.6
3.0	kg			*25,935	*25,935	*18,764	18,013	*15,213	13,254	*13,305	10,621	*11,279	9,529	8.8
1.5	kg			*22,791	*22,791	*19,713	17,436	*15,685	12,936	*13,297	10,478	*11,626	9,425	8.8
GROUND LEVEL	kg			*25,493	*25,493	*19,603	17,165	*15533	12,762	*13,329	10,888	*11,565	9,640	8.5
-1.5	kg	*23,814	*2,3814	*23,128	*23,128	*18,293	17,165	*14,319	12,781	*13,235	11,991	*11,433	10,372	7.9
-3.0	kg	*22,170	*22,170	*19,250	*19,250	*15,350	*15,350			*12,426	*12426	*10,924	*10,924	7
-4.5	kg			*12,549	*12,549					*10,094	*10094	*9,742	*9,742	5.5

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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LIFTING CAPACITY

956F with 600 mm Shoes, 7,060 mm Boom, 2,900 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: 7,060 mm
Arm length: 2,900 mm
Bucket: None
counterweight: 12,000 kg
Shoes: 600 mm triple grouser
Unit: kg

A (Unit: m)

B (m)		3		4.5		6		7.5		9		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
9.0	kg											*12741	*12741	7
7.5	kg							*12324	*12324			*12106	*12106	8.2
6.0	kg							*12,814	*12,814			*11,841	10,643	9
4.5	kg					*16,461	*16,461	*13,690	13,632	*12,099	10,497	*11,744	9,682	9.5
3.0	kg					*18,238	17,847	*14,617	13,184	*12,497	10,280	*11,773	9,257	9.7
1.5	kg					*19,310	17,231	*15,275	12,816	*12,761	10,085	*11,815	9,136	9.7
GROUND LEVEL	kg			*21,539	*21,539	*19,396	16,938	*15,410	12,594	*12,637	9,971	*11,951	9,445	9.4
-1.5	kg			*23,295	*23,295	*18,512	16,900	*14,810	12,541			*11,912	10,132	8.9
-3.0	kg	*23,727	*23,727	*20,407	*20,407	*16,538	*16,538	*13,077	12,683			*11,581	11,548	8.1
-4.5	kg			*15,846	*15,846	*12,800	*12,800					*10,765	*10,765	6.8

STANDARD EQUIPMENT

ENGINE
- Cummins X12 engine, EU Stage V, 6-cylinder diesel engine with intercooling, high pressure common rail, electronically controlled direct injection
- Refuelling pump

HYDRAULIC SYSTEM
- Dual-way auxiliary circuit via electronic proportional joystick control
- On-screen auxiliary lines switching, one-way or two-way
- Auxiliary rotation lines with on-screen flow adjustment
- Attachment oil drain line
- Pressure adjustable quick coupler lines
- Hydraulic hammer return oil filtration
- Quick coupler on warning

BOOM & ARM
- 7,060 mm boom
- 2,900 mm arm
- Boom & arm load holding valves
- Boom float function

OPERATOR STATION
- ROPS cab
- Heating and cooling air conditioning
- 10.1-inch touch screen
- Fire extinguisher
- Sun visor
- 12 V power outlet and USB Type-A/C
- DAB radio
- Reversible armrest box with orange handrail
- Parallel windshield wiper
- Heated and ventilated air suspension seat with 3 inch red retractable seatbelt

GUARDS
- Bucket cylinder guard
- Operation protection guard (cab front and top guard, bar)
- Platform side guard
- Upper frame guard

ELECTRICAL
- 4 LED lights on the boom
- 2 LED lights at the counterweight
- LED light bars on the front and rear of the cab
- Rotating beacon
- Travel and swing alarm
- Overload warning
- Seatbelt beacon
- 360-degree cameras with lighting on both sides
- T-BOX

UNDERCARRIAGE
- Retractable undercarriage
- 8 mm under covers
- 600 mm track shoes, triple grouser
- Full length track guard

SERVICE & MAINTENANCE
- Compressed air cleaning kit
- Centralized lubrication system
- Long life hydraulic oil

OTHERS
- Standard counterweight, 12,000kg (available for the 956F)

OPTIONAL EQUIPMENT

ATTACHMENT
- Heavy duty bucket, 3.2 m^3
- Heavy duty bucket, 3.6 m^3
- Hydraulic quick coupler

BOOM & ARM
- 6,500 mm boom
- 2,550 mm arm

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