

936F

EXCAVATOR



ENGINE	OPERATING WEIGHT	GROSS POWER	BUCKET CAPACITY	MAX. DIGGING DEPTH
Cummins L9	85,538 lb (38,800 kg)	314 hp (231 kW)	2.3 yd ³ (1.8 m ³)	24 ft 1 in (7,340 mm)



SPECIFICATIONS

ENGINE

High-pressure common rail, electronically controlled direct injection fuel system with 3 power modes, auto-idle and auto-shutdown features.

Emissions rating	EPA Tier 4 Final/EU Stage V
Make	Cummins
Model	L9
Aspiration	Wastegate turbocharged, EGR-free
Charged air cooling	Aftercooler
Cooling fan drive	Silicone oil clutch, variable speed fan
Displacement	542 in ³ (8.9 L)
Gross power	314 hp (231 kW) @ 2,100 rpm
Net power	298 hp (219 kW) @ 2,100 rpm
Peak torque	1,125 lbf-ft (1,526 N·m) @1,400 rpm
Cylinders	6-cylinder, in-line, water-cooled
Bore × Stroke	4.5 in x 5.7 in (114 mm × 145 mm)

HYDRAULIC SYSTEM

Main pump, type	Load-sensing variable pump
Main pump, maximum flow	2x88 gpm (2x333 L/min)
Implement	Normal: 4,975 psi (34.3 MPa) Power boost: 5,410 psi (37.3 MPa)
Auxiliary 1, one-way pressure	4,350 psi (30 MPa)
Auxiliary 1, two-way pressure	5,075 psi (35 MPa)
Auxiliary 1, maximum flow	71 gpm (270 L/min)
Auxiliary 2, two-way pressure	3,045 psi (21 MPa)
Auxiliary 2, maximum flow	13 gpm (50 L/min)
Slew circuit	4,700 psi (32.4 MPa)
Travel circuit	4,975 psi (34.3 MPa)
Pilot pump, type	Gear pump
Pilot circuit	508-566 psi (3.5-3.9 MPa)
Pilot pump, maximum flow	8.3 gpm (31.5 L/min)

OPERATING WEIGHT

Operating weight, typical	85,538 lb (38,800 kg)
Operating weight, maximum	108,025 lb (49,000 kg)

SERVICE CAPACITIES

Fuel tank	163.8 gal (620 L)
Engine oil	7.9 gal (30 L)
Final drive, each	2.5 gal (9.5 L)
Swing drive	2.8 gal (10.5 L)
Cooling system	9.8 gal (37 L)
Hydraulic reservoir	63.4 gal (240 L)
Hydraulic system total	118 gal (450 L)
DEF tank	17.1 gal (65 L)

UNDERCARRIAGE

Track shoe, each side	49
Link pitch	9 in (216 mm)
Shoe width, typical	24 in (600 mm)
Bottom rollers, each side	9
Top rollers, each side	2

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 controls return to neutral.

Swing speed	10 rpm
Swing torque	104,728 lbf-ft (142,000 N·m)

DRIVE & BRAKES

Steering controlled by two hand levers with pedals.

Max. travel speed	High: 3.4 mph (5.5 km/h) Low: 2.1 mph (3.4 km/h)
Gradeability	35°/70%
Max. drawbar pull	71,939 lbf (320 kN)

ELECTRIC SYSTEM

System voltage	24 V
Battery	2 x 12 V, in series
Alternator	24 V - 70 A
Starter motor	24 V - 10.7 hp (24 V - 8.0 kW)

SOUND PERFORMANCE

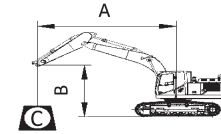
Interior sound level (ISO 6396)	69 dB(A)
Exterior sound level (ISO 6395)	105 dB(A)

SPECIFICATIONS

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



Conditions:
 Boom length: 21 ft 0 in (6,400 mm)
 Arm length: As specified
 Counterweight: 17,000 lb (7,700 kg)
 Shoes: 28 in (700 mm)
 Bucket: None



1. *Indicates the load is limited by hydraulic capacity rather than the tipping capacity.
2. The below loads are in compliance with the ISO 10567 lift capacity rating standard and do not exceed 87% of the hydraulic lifting capacity or 75% of the tipping load.
3. Rating at bucket lift point.

936F WITH 8 FT 6 IN (2,600 MM) ARM

A Reach: ft (m)

B: Height ft (m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		24 ft (7.5 m)		29 ft (9 m)		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Distance
20 ft 0 in 6 m	lb kg					*21,042 *9,545	*21,042 *9,545	*19,494 *8,842	6,829 15,055			*19,377 *8,789	13,821 6,269	25 ft 11 in 7.9 m
15 ft 0 in 4.5 m	lb kg			*29,835 *13,533	*29,835 *13,533	*23,465 *10,644	20,185 9,156	*20,391 *9,249	14,654 6,647			*19,347 *8,775	12,119 5,497	27 ft 11 in 8.5 m
10 ft 0 in 3 m	lb kg			*36,252 *16,443	27,665 12,549	*26,359 *11,956	18,999 8,618	*21,758 *9,869	14,092 6,392			19,126 8,675	11,263 5,109	28 ft 10 in 8.8 m
5 ft 0 in 1.5 m	lb kg			*39,699 *18,007	26,109 11,843	*28,650 *12,995	18,054 8,189	*22,973 *10,420	13,585 6,162			18,873 8,561	11,037 5,006	28 ft 10 in 8.8 m
Ground Level	lb kg			*39,656 *17,988	25,743 11,677	*29,585 *13,419	17,550 7,960	*23,303 *10,570	13,272 6,020			19,335 8,770	11,235 5,096	28 ft 3 in 8.6 m
-5 ft 0 in -1.5 m	lb kg	*34,953 *15,854	*34,953 *15,854	*37,605 *17,057	25,894 11,746	*28,888 *13,103	17,466 7,922	*22,792 *10,338	13,236 6,004			*20,582 *9,336	12,122 5,498	26 ft 7 in 8.1 m
-10 ft 0 in -3 m	lb kg	*42,357 *19,213	*42,357 *19,213	*33,497 *15,194	26,419 11,983	*26,104 *11,840	17,775 8,063					*20,787 *9,429	14,259 6,468	23 ft 7 in 7.2 m
-15 ft 0 in -4.5 m	lb kg			*25,865 *11,732	*25,865 11,732							*19,796 *8,979	19,512 8,851	19 ft 0 in 5.8 m

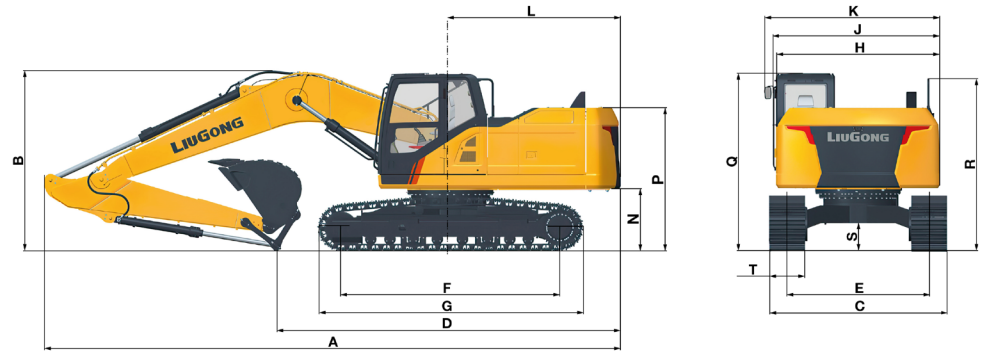
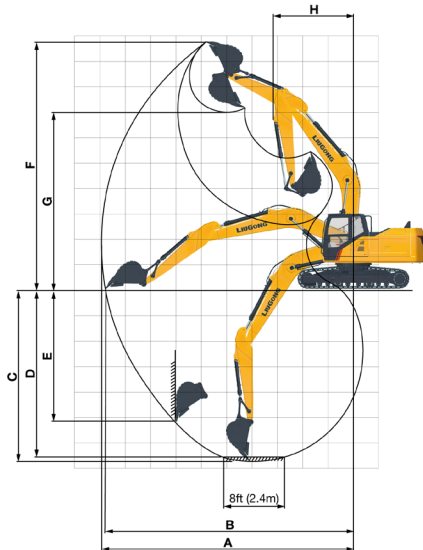
936F WITH 9 FT 6 IN (2,900 MM) ARM

A Reach: ft (m)

B: Height ft (m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		24 ft (7.5 m)		29 ft (9 m)		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Distance
20 ft 0 in 6 m	lb kg							*18,740 *8,501	15,178 6,885			*17,981 *8,156	13,118 5,950	26 ft 11 in 8.2 m
15 ft 0 in 4.5 m	lb kg			*28,464 *12,911	*28,464 *12,911	*22,686 *10,290	20,383 9,246	*19,802 *8,982	14,745 6,688			*17,465 *7,922	11,544 5,236	28 ft 10 in 8.8 m
10 ft 0 in 3 m	lb kg			*35,077 *15,911	28,258 12,817	*25,743 *11,677	19,203 8,710	*21,306 *9,664	14,169 6,427	18,530 8,405	10,932 4,959	*17,748 *8,051	10,752 4,877	29 ft 10 in 9.1 m
5 ft 0 in 1.5 m	lb kg			*39,304 *17,828	26,500 12,020	*28,292 *12,833	18,217 8,263	*22,685 *10,290	13,636 6,185	18,274 8,289	10,702 4,854	17,990 8,160	10,543 4,782	29 ft 10 in 9.1 m
Ground level	lb kg			*40,052 *18,167	25,914 11,754	*29,548 *13,403	17,642 8,002	*23,313 *10,574	13,280 6,024			18,406 8,349	10,721 4,863	29 ft 2 in 8.9 m
-5 ft 0 in -1.5 m	lb kg	*34,188 *15,508	*34,188 *15,508	*38,487 *17,457	25,940 11,766	*29,203 *13,246	17,478 7,928	*23,048 *10,454	13,178 5,977			19,913 9,032	11,522 5,226	27 ft 7 in 8.4 m
-10 ft 0 in -3 m	lb kg	*45,612 *20,689	*45,612 *20,689	*34,823 *15,796	26,358 11,956	*26,895 *12,199	17,688 8,023					*20,471 *9,285	13,437 6,095	24 ft 7 in 7.5 m
-15 ft 0 in -4.5 m	lb kg	*35,650 *16,171	*35,650 *16,171	*27,984 *12,694	27,236 12,354	*20,960 *9,507	18,405 8,348					*19,313 *8,760	17,359 7,874	20 ft 8 in 6.3 m

SPECIFICATIONS

EXCLUSIVELY FOR DEALER



WORKING RANGES

Description		Short Arm	Long Arm
Boom		21 ft 0 in (6,400 mm)	
Arm options		8 ft 6 in (2,600 mm)	9 ft 6 in (2,900 mm)
A	Max. digging reach	34 ft 8 in (10,560 mm)	35 ft 2 in (10,728 mm)
B	Max. digging reach at ground level	33 ft 11 in (10,350 mm)	34 ft 6 in (10,527 mm)
C	Max. digging depth	22 ft 1 in (6,730 mm)	22 ft 7 in (6,890 mm)
D	Max. digging depth 8 ft (2.4m) level	21 ft 5 in (6,530 mm)	22 ft 0 in (6,710 mm)
E	Max. vertical wall digging depth	14 ft 6 in (4,430 mm)	16 ft 8 in (5,085 mm)
F	Max. digging height	32 ft 3 in (9,818 mm)	32 ft 3 in (9,830 mm)
G	Max. dumping height	22 ft 8 in (6,900 mm)	21 ft 10 in (6,655 mm)
H	Min. swing radius	14 ft 5 in (4,385 mm)	14 ft 8 in (4,465 mm)
Arm digging force (ISO)	Normal	54,630 (243 kN)	51,030 lbf (227 kN)
	Power Boost	59,410 lbf (264 kN)	55,500 lbf (247 kN)
Bucket digging force (ISO)	Normal	65,195 lbf (290 kN)	
	Power Boost	70,900 lbf (315 kN)	
Bucket capacity *		2.4 yd ³ (1.8 m ³)	
Bucket tip radius *		5 ft 10 in (1,785 mm)	
Bucket width *		61 in (1,540 mm)	

* Factory standard

DIMENSIONS

Description	Short Arm	Long Arm
Boom	21 ft 0 in (6,400 mm)	
Arm options	8 ft 6 in (2,600 mm)	9 ft 6 in (2,900 mm)
A Shipping length	37 ft 1 in (11,300 mm)	
B Shipping height top of boom	12 ft 6 in (3,800 mm)	
C Undercarriage width, with 24 in (600 mm) shoes	10 ft 6 in (3,190 mm)	
D Shipping length on ground	26 ft 3 in (7,993 mm)	25 ft 4 in (7,733 mm)
E Track gauge	8 ft 6 in (2,590 mm)	
F Length to center of rollers	13 ft 7 in (4,140 mm)	
G Track length	16 ft 8 in (5,075 mm)	
H Overall width of upper structure	10 ft 6 in (3,190 mm)	
J Overall width including handrail	10 ft 9 in (3,265 mm)	
K Overall width including cab rearview mirror	11 ft 5 in (3,490 mm)	
L Tail swing radius	11 ft 9 in (3,593 mm)	
N Counterweight ground clearance	4 ft 1 in (1,250 mm)	
P Overall height of counterweight	8 ft 7 in (2,616 mm)	
Q Overall height of cab	10 ft 5 in (3,188 mm)	
R Overall height of platform handrail	11 ft 1 in (3,366 mm)	
S Minimum ground clearance	21 in (545 mm)	
T Track shoe width	24 in (600 mm)	
	28 in (700 mm)	
	32 in (800 mm)	
	36 in (900 mm)	

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Specifications and designs are subject to change without notice.
Machines shown may include optional equipment.

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