

LIUGONG

922F/924F DM EXCAVATOR

ALL NEW
F-SERIES

Engine
Net Power
Operating Weight
Bucket Capacity

Cummins B6.7
116 kW
22,700-25,170 kg
1.4 m³



TOUGH WORLD. TOUGH EQUIPMENT.

SPECIFICATIONS

Operating weight	922F - 22,800 kg
	922FN - 22,700 kg
	924FDM - 24,600 kg
	922FLL - 24,000 kg

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

Bucket capacity	0.9 - 1.4 m ³
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ENGINE

Description

Cummins EU Stage V / EPA Tier 4 final, 6-cylinder straight Variable-Geometry Turbocharger (VGT), high pressure common rail, electronically controlled direct injection. Air cleaner: Cummins direct flow air filter. Cooling system: Air-to-air intercooler

Emission rating	EU Stage V / EPA Tier 4 final,
Engine manufacturer	Cummins
Engine model	B6.7
Aspiration	Variable-Geometry Turbocharger (VGT)
Charged air cooling	Aftercooler
Cooling fan drive	Electric motor
Displacement	6.7 L (6,700 cm ³) 1.8 gal (409 In ³)
Rated speed	2,200 rpm
Engine output - net (SAE J1349 / ISO 9249)	116 kW (156 hp)
Engine output - gross (SAE J1995 / ISO 14396)	116 kW (156 hp)
Maximum torque	746 N·m @1,300 rpm (550 lbf·ft@1,300 rpm)
Bore × Stroke	107 × 124 mm (4.2" × 4.9" in)

UNDERCARRIAGE

Track shoe each side	49
Link pitch	190 mm (7.5")
Shoe width, triple grouser	600/600/700/800 mm (24" / 24" / 28" / 32")
Bottom rollers each side	8
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	10.5 rpm
Swing torque	78,200 N·m (57,680 lbf·ft)

HYDRAULIC SYSTEM

Main pump

Type	Two variable displacement piston pumps
Maximum flow	2 × 228 L/min (2×60.2 gal/mi)

Pilot pump

Type	Gear pump
Maximum flow	17.5 L/min (5 gal/mi)

Relief valve setting

Implement	34.3/37.3 MPa (4,973 / 5,408 psi)
Travel circuit	34.3 MPa (4,974 psi)
Slew circuit	27.6 MPa (4,002 psi)
Pilot circuit	3.9 MPa (566 psi)

Hydraulic cylinders

Boom Cylinder – Bore × Stroke	φ120 × 1,320 mm (φ4.7"×4'4" ft/in)
Arm Cylinder – Bore × Stroke	φ135 × 1,490 mm (φ5.3"×5'4" ft/in)
Bucket Cylinder – Bore × Stroke	922F/922FN/924FDM φ115 × 1,120 mm (φ4.5"×3'6" ft/in) 922FLL φ95 × 885 mm (φ4"×2'11" ft/in)

ELECTRIC SYSTEM

System Voltage	24 V
Batteries	2 × 12 V
Alternator	24 V - 180 A
Starter motor	24 V - 7.8 kW (24 V - 10 hp)

SERVICE CAPACITIES

Fuel tank	400 L (105.7 gal)
Engine oil	25 L (6.6 gal)
Final drive (each)	5.5 L (1.5 gal)
Swing drive	3.4 L (0.9 gal)
Cooling system	25 L (6.6 gal)
Hydraulic reservoir	190 L (50.2 gal)
Hydraulic system total	300 L (79.3 gal)
DEF Tank	44 L (11.6 gal)

SOUND PERFORMANCE

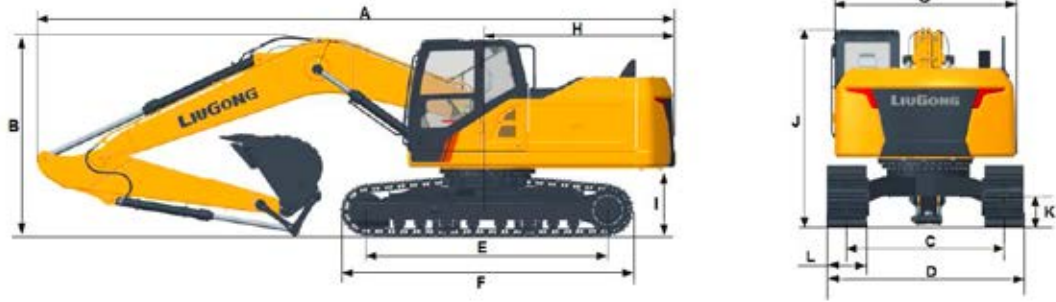
Interior Sound Power Level (ISO 6396)	68 dB(A)
Exterior Sound Power Level (ISO 6395)	99 dB(A)

DRIVE AND BRAKES

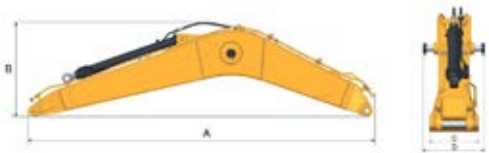
Description

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

Max. travel speed	High: 5.6 km/h (3.5 mph) Low: 3.3 km/h (2.0 mph)
Gradeability	35°/70%
Max. drawbar pull	220 kN (49,458 lbs)



DIMENSIONS (METRIC)	922F	922FN	924FDM	922FLL
Boom Length	5,710 mm	5,710 mm	5,710 mm	8,850 mm
Arm Length	2,915 mm	2,400 mm	3,500 mm	6,250 mm
A Shipping Length	9,620 mm	9,670 mm	9,660 mm	10,210 mm
B Shipping Height (Top of Boom hose)	3,000 mm	3,150 mm	3,250 mm	3,255 mm
C Track Gauge	2,390 mm	2,390 mm	2,390 mm	2,390 mm
D Undercarriage Width- 600 mm (24") shoes	2,990 mm	2,990 mm	2,990 mm	2,990 mm
700 mm (28") shoes	3,090 mm	3,090 mm	3,090 mm	3,090 mm
800 mm (32") shoes	3,190 mm	3,190 mm	3,190 mm	3,190 mm
900 mm (35") shoes	3,290 mm	3,290 mm	3,290 mm	3,290 mm
E Length to Center of Rollers	3,650 mm	3,650 mm	3,650 mm	3,650 mm
F Track Length	4,445 mm	4,445 mm	4,445 mm	4,445 mm
G Overall Width of Upper Structure	2,760 mm	2,760 mm	2,760 mm	2,760 mm
G(i) Width of Upper Including SIPS	2,875 mm	2,875 mm	2,875 mm	2,875 mm
H Tail Swing Radius	2,850 mm	2,850 mm	2,850 mm	2,850 mm
I Counterweight Ground Clearance	1,060 mm	1,060 mm	1,060 mm	1,060 mm
J Overall Height of Cab	2,980 mm	2,980 mm	2,980 mm	2,980 mm
J (i) Height of Cab Including Lighting Halo	3,065 mm	3,065 mm	3,065 mm	3,065 mm
J (ii) Height of Cab Including FOPS Guard	3,130 mm	3,130 mm	3,130 mm	3,130 mm
K Min. Ground Clearance	470 mm	470 mm	470 mm	470 mm
L Track Shoe Width	600 mm	600 mm	600 mm	700 mm



BOOM DIMENSIONS		
Boom	5,710 mm	8,850 mm
Length A	5,898 mm	9,080 mm
Height B	1,690 mm	1,460 mm
Width C	622 mm	622 mm
Width D	788 mm	788 mm
Weight	2,070 kg	2,815 kg

Includes arm cylinder, piping and pin.

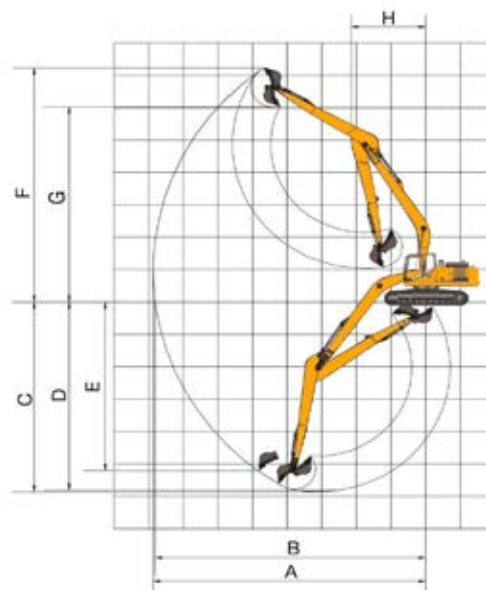
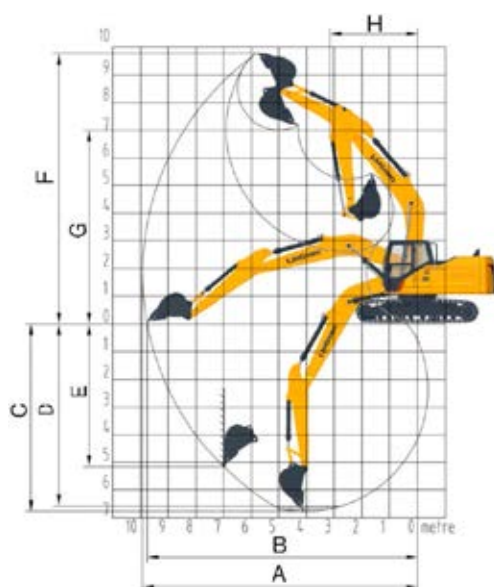


ARM DIMENSIONS				
Arm	2,915 mm	2,400 mm	3,500 mm	6,250 mm
Length A	3,918 mm	3,375 mm	4,492 mm	7,350 mm
Height B	826 mm	820 mm	825 mm	830 mm
Width C	476 mm	476 mm	476 mm	368 mm
Weight	1,115 kg	1,030 kg	1,265 kg	1,385 kg

Includes bucket cylinder, linkage and pin.

MACHINE WEIGHTS AND GROUND PRESSURE

	922F			922FN			924FDM			922FLL		
Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	5.71 m boom, 2.915 m arm, 1.1 m³ bucket, 4,000 kg counterweight						5.71 m boom, 2.915 m arm, 1.0 m³ bucket, 5,000 kg counterweight			8.85 m boom, 6.25 m arm, 0.45 m³ bucket, 5,000 kg counterweight		
600 mm	22,800 kg	47.5 kPa	2,990 mm	22,700 kg	47.2 kPa	2,800 mm	24,320 kg	43.4 kPa	2,990 mm	23,435 kg	36.6 kPa	2,990 mm
700 mm	23,080 kg	41.2 kPa	3,090 mm	22,980 kg	41.0 kPa	3,090 mm	24,600 kg	43.9 kPa	3,090 mm	23,715 kg	37 kPa	3,090 mm
800 mm	23,365 kg	36.5 kPa	3,190 mm	23,265 kg	36.3 kPa	3,190 mm	24,885 kg	44.4 kPa	3,190 mm	24,000 kg	37.5 kPa	3,190 mm
900 mm	23,650 kg	32.8 kPa	3,290 mm	23,550 kg	32.7 kPa	3,290 mm	25,170 kg	44.9 kPa	3,290 mm	24,285 kg	37.9 kPa	3,290 mm



WORKING RANGE		922F	922F	922F	922FN	924FDM	922FLL
Boom Length		5,710 mm	5,710 mm	5,710 mm	5,710 mm	5,710 mm	8,850 mm
Arm Length		2,915 mm	2,400 mm	3,500 mm	2,915 mm	2,915 mm	6,250 mm
A. Max. Digging Reach		9,870 mm	9,530 mm	10,485 mm	9,870 mm	9,870 mm	15,635 mm
B. Max. Digging Reach on Ground		9,720 mm	9,360 mm	10,325 mm	9,720 mm	9,720 mm	15,530 mm
C. Max. Digging Depth		6,700 mm	6,250 mm	7,345 mm	6,700 mm	6,700 mm	12,170 mm
D. Max. Digging Depth, 2.44 m (8') level		6,540 mm	6,050 mm	7,185 mm	6,540 mm	6,540 mm	12,070 mm
E. Max. Vertical Wall Digging Depth		4,820 mm	5,175 mm	5,920 mm	4,820 mm	4,820 mm	9,950 mm
F. Max. Cutting Height		9,740 mm	9,810 mm	10,200 mm	9,740 mm	9,740 mm	13,730 mm
G. Max. Dumping Height		7,000 mm	7,010 mm	7,455 mm	7,000 mm	7,000 mm	11,340 mm
H. Min. Front Swing Radius		3,135 mm	3,210 mm	3,170 mm	3,135 mm	3,135 mm	4,410 mm
Bucket Digging Force (ISO)	Normal	97 KN	116 KN	88 KN	97 KN	97 KN	53 KN
	Power Boost	105 KN	126 KN	96 KN	105 KN	105 KN	-
Arm Digging Force (ISO)	Normal	140 KN	140 KN	140 KN	140 KN	140 KN	69 KN
	Power Boost	152.5 KN	152.5 KN	152.5 KN	152.5 KN	152.5 KN	-
Bucket Capacity		1.1 m ³	1.1 m ³	1.0 m ³	1.1 m ³	1.0 m ³	0.45 m ³
Bucket Tip Radius		1,478 mm	1,478 mm	1,478 mm	1,478 mm	1,478 mm	1,260 mm



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