

LIUGONG

PMG
PACIFIC MACHINERY
GROUP

915F_{CR} EXCAVATOR

ALL NEW
F SERIES

Engine	Cummins F3.8
Net Power	84.5 kW
Operating Weight	15,400-17,200 kg
Bucket Capacity	0.77 m ³ (1.01 yd ³)



TOUGH WORLD. TOUGH EQUIPMENT.

SPECIFICATIONS

Operating weight 15,400-17,200 kg (33,951-37,920 lbs)

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

Bucket capacity 0.77 m³ (1.01 yd³)

ENGINE

Description

Cummins EU Stage V, turbocharged, 4 cylinder, 4 stroke, water cooled.

Emission rating	Stage V
Engine manufacturer	Cummins
Engine model	F3.8
Aspiration	Turbocharged
Charged air cooling	Aftercooler
Cooling fan drive	Direct
Displacement	3.8 L (1 gal)
Rated speed	2,200 rpm
Engine Output - Gross (SAE J1349 / ISO 9249)	90 kW (120.7 hp)
Engine Output - Net (SAE J1995 / ISO 14396)	84.5 kW (113.3 hp)
Maximum torque	500 N-m (369 lbf-ft) @1,500 rpm
Bore x Stroke	102 x 115 mm (4" x 4.5")

UNDERCARRIAGE

Track shoe each side	44 (1.7")
Link pitch	175 mm (6.9" metal)
Shoe width, triple grouser	500 mm (20")
Bottom rollers each side	7
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	11.3 rpm
Swing torque	36,790 N-m (27,135 lbf-ft)

HYDRAULIC SYSTEM

Main pump

Type	Two variable displacement
Maximum flow	2 x 117 L/min (2 x 30.9 gal/min)

Relief valve setting

Implement	34.3 / 37 MPa (4,975 / 5,410 psi)
Travel circuit	34.3 MPa (4,975 psi)
Slew circuit	26.5 MPa (3,843 psi)
Pilot circuitw	3.9 MPa (566 psi)

Hydraulic cylinders

Boom Cylinder – Bore x Stroke	Φ105 x 1,000 mm (4.1" x 3'3")
Arm Cylinder – Bore x Stroke	Φ115 x 1,175 mm (4.5" x 3'10")
Bucket Cylinder – Bore x Stroke	Φ95 x 885 mm (3.7" x 2'11")

ELECTRIC SYSTEM

System voltage	12 V
Batteries	24 V
Alternator	24 V - 70 A
Starter	24 V - 4.8 kW (24 V - 6.4 hp)

SERVICE CAPACITIES

Fuel tank	200 L (52.8 gal)
Engine oil	12 L (3.2 gal)
Final drive (each)	2.5 L (0.7 gal)
Swing drive	3 L (0.8 gal)
Cooling system	20 L (5.3 gal)
Hydraulic reservoir	100 L (26.4 gal)
Hydraulic system total	160 L (42.3 gal)
DEF tank	25 L (6.6 gal)

SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396)	72 dB(A)
Exterior Sound Power Level (ISO 6395)	99 dB(A)

DRIVE AND BRAKES

Description

Steering controlled by two hand levers with pedals.

Max. travel speed	High: 4.9 km/h (3 mph) Low: 2.9 km/h (1.8 mph)
Gradeability	35%/70%
Max. drawbar pull	122 kN (27,427 lbf)



DIMENSIONS	MONO BOOM	MONO BOOM	TWO-PIECE BOOM
Boom	4,600 mm		5,050 mm
Arm Options	2,500 mm	2,900 mm	2,500 mm
A Shipping Length	7,335 mm	7,290 mm	7,590 mm
B Shipping Height – Top of Boom	2,980 mm	3,255 mm	3,115 mm
C Undercarriage Width - 500 mm (20") shoes	2,490 mm		2,490 mm
- 600 mm (24") shoes	2,590 mm		2,590 mm
- 700 mm (28") shoes	2,690 mm		2,690 mm
D Shipping length on ground	4,470 mm	4,410 mm	4,965 mm
E Track Gauge	1,990 mm		1,990 mm
F Length to Center of Rollers	3,010 mm		3,010 mm
G Track Length	3,745 mm		3,745 mm
H Overall Width of Upper Structure	2,490 mm		2,490 mm
J Overall Width of Upper Structure including cab handrail	2,570 mm		2,570 mm
K Overall Width of Upper Structure including cab rearview mirror	2,790 mm		2,790 mm
L Tail Swing Radius	1,525 mm		1,525 mm
M Distance of swing center to blade	2,800 mm		2,800 mm
N Counterweight Ground Clearance	935 mm		935 mm
P Overall Height of Counterweight	2,215 mm		2,215 mm
Q Overall Height of Cab	2,885 mm		2,885 mm
Overall Height of Cab including Halo	3,025 mm		3,025 mm
Overall Height of Cab including FOP's Guard	3,015 mm		3,015 mm
R Overall Height of Platform handrail	2,935 mm		2,935 mm
S Min. Ground Clearance	450 mm		450 mm
T Track Shoe Width	500 mm		500 mm
U Blade, max. lifting height	540 mm		540 mm
V Blade, max. digging depth	540 mm		540 mm
Blade width (with 500 mm shoes)	2,490 mm		2,490 mm
Blade width (with 600 mm shoes)	2,590 mm		2,590 mm
Blade width (with 700 mm shoes)	2,690 mm		2,690 mm

MACHINE WEIGHTS & GROUND PRESSURE

Shoe width	MONO BOOM		TWO-PIECE BOOM	
	Operating weight	Ground pressure	Operating weight	Ground pressure
500 mm	15,400 kg	45.8 kPa	15,900 kg	47.3 kPa
600 mm	15,600 kg	38.7 kPa	16,100 kg	39.9 kPa
700 mm	15,800 kg	33.6 kPa	16,300 kg	34.6 kPa
500 mm rubber crawler pads	15,400 kg	45.6 kPa	15,900 kg	47.0 kPa

Operating weight, including 2,500 mm arm, 480 kg bucket, operator, lubricant, coolant, full fuel tank and the standard equipment. Additional weight with blade: +1,000 kg

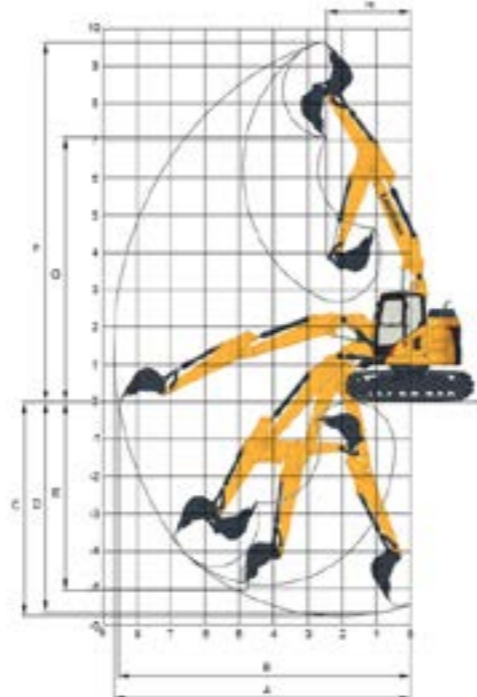
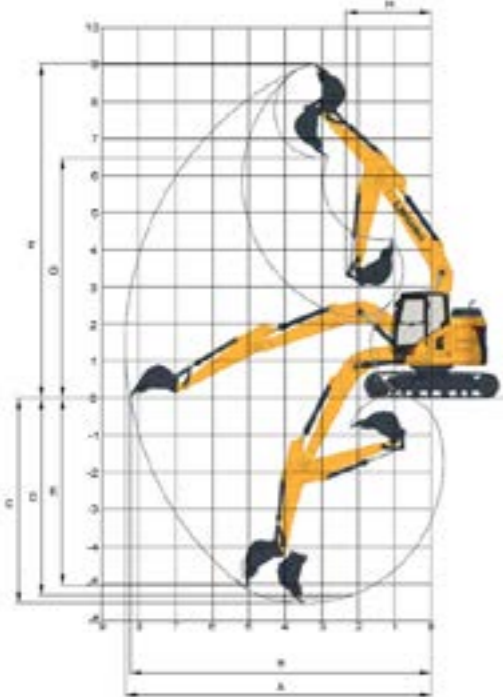


BOOM DIMENSIONS		
Boom	Monoboom	2 Piece Boom
A Length	4,800 mm	5,050 mm
B Height	1,500 mm	1,600 mm
C Width	750 mm	750 mm
Weight	1,170 kg	1,460 kg

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

ARM DIMENSIONS		
Arm	2,500 mm	2,900 mm
A Length	3,300 mm	3,700 mm
B Height	650 mm	700 mm
C Width	450 mm	450 mm
Weight	640 kg	670 kg

Cylinder, linkage and pin included.



WORKING RANGE		MONO BOOM	TWO-PIECE BOOM
Boom Length		4,800 mm	5,050 mm
Arm Options		2,500 mm	2,900 mm
A. Max. Digging Reach		8,365 mm	8,670 mm
B. Max. Digging Reach on Ground		8,235 mm	8,535 mm
C. Max. Digging Depth		5,515 mm	5,745 mm
D. Max. Digging Depth, 2.5m (8') level		5,300 mm	5,630 mm
E. Max. Vertical Wall Digging Depth		5,030 mm	5,060 mm
F. Max. Cutting Height		9,040 mm	9,640 mm
G. Max. Dumping Height		6,510 mm	7,090 mm
H. Min. Front Swing Radius		2,325 mm	2,435 mm
Bucket Digging Force (ISO)	Normal	89.8 kN	89.8 kN
	Power Boost	96.9 kN	96.9 kN
Arm Digging Force (ISO)	Normal	64.9 kN	58 kN
	Power Boost	70 kN	63.5 kN
Bucket Capacity (Standard)		0.55 m ³	0.55 m ³
Bucket Tip Radius		1,085 mm	1,085 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.



- 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.
- 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.
- Ratings at bucket lift hook.
- Lifting capacities are based on machine standing on level, firm and uniform ground.
- *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
- 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)

915FCR with 500 mm Shoes, MONO Boom, 2,500 mm Arm		Conditions										
		Boom length: 4,800 mm Arm length: 2,500 mm Shoes: 500 mm triple grouser shoes Bucket: None Counterweight: 3,500 kg Blade: None										
B/A (m)		1.5		3.0		4.5		6		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
6	kg					*3,600	*3,600			*2,050	*2,050	5.4
4.5	kg					*3,800	*3,800	*3,350	2,500	*2,350	2,300	6.3
3	kg			*6,150	*6,150	*4,500	3,750	*3,800	2,450	*2,000	1,950	6.9
1.5	kg			*8,450	6,100	*5,350	3,500	3,900	2,350	*2,550	1,850	7.0
0	kg			*7,200	5,750	5,800	3,300	3,800	2,250	*2,400	1,850	6.9
-1.5	kg	*5,150	*5,150	*8,600	5,700	5,700	3,200	3,800	2,200	*2,800	2,050	6.4
-3	kg	**9,150	**9,150	*7,150	5,800	*4,900	*3,250			*3,750	2,600	5.4

LIFTING CAPACITY (METRIC)

915FCR with 600 mm Shoes, MONO Boom, 2,500 mm Arm		Conditions										
		Boom length: 4,800 mm Arm length: 2,500 mm Shoes: 600 mm triple grouser shoes Bucket: None Counterweight: 3,500 kg Blade: None										
B/A (m)		1.5		3.0		4.5		6		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
6	kg					*3,600	*3,600			*2,050	*2,050	5.4
4.5	kg					*3,800	*3,800	*3,350	2,550	*2,350	2,350	6.3
3	kg			*6,150	*6,150	*4,500	3,800	*3,800	2,500	*2,000	*2,000	6.9
1.5	kg			*8,450	6,200	*5,350	3,550	4,000	2,400	*2,550	1,900	7.0
0	kg			*7,200	5,850	*5,850	3,350	3,900	2,300	*2,400	1,900	6.9
-1.5	kg	*5,150	*5,150	*8,600	5,800	*5,800	3,250	3,850	*2,250	*2,800	2,100	6.4
-3	kg	*9,150	*9,150	*7,150	*5,900	*4,900	*3,300			*3,750	*2,650	5.4