

V O L V O



Volvo Excavators 20.5-24.0 t / 45,220-52,945 lb 154 hp

EC210

Volvo Construction Equipment

EC210

**A great partner for those important supporting jobs.
Light enough to move and maneuver easily.
Strong enough to get the job done.**



Light support

Volvo EC210 is a lighter machine that will be your perfect partner in agricultural applications and supporting work. But it is also popular to use for building, road work or utilities. With improved fuel efficiency and longer service intervals, EC210 will lower the Total Cost of Ownership while still being able to punch above its weight in performance.



Operator comfort

- More precise controls
- Quieter cab
- Personalized settings for greater comfort
- ROPS cab as standard



Smart View with Obstacle Detection

- Increased safety onsite and for the operator
- Radar warns for items outside the screen
- HD screen
- Human identifying alarm separate from other obstacles



Serviceability

- Ground level access for service
- Long service intervals
- Grouped filters and lubrication points
- Quick and easy oil changes



Fuel Efficiency

- Up to 10% improvement
- Engine pump optimization with engine speeds as low as 1,600 rpm
- Smart MCV



Productivity

- Volvo Active Control
- Dig Assist with On-Board Weighing
- Electro-hydraulic system
- Boom/Swing functions

Volvo EC210 in detail

Engine

The latest generation, Volvo engine Tier 4f emissions compliant diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, high pressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance.

- **Air Filter:** 3-stage with precleaner

- **Automatic Idling System:** Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Volvo	D4J
Max power at	r/min (r/s)	2,000 (33.3)
Net, ISO 9249/SAE J1349	kW (hp)	114 (153)
Gross, ISO 14396/SAE J1995	kW (hp)	115 (154)
Power output at		
Operating max	r/min (r/s)	1,800 (30)
Travel max	r/min (r/s)	2,000 (33.3)
Max torque	Nm (ft lbf)	618 (456)
at engine speed	r/min (r/s)	1,700 (28)
No. of cylinders		4
Displacement	l (in ³)	4 (246)
Bore	mm (in)	101 (3.98)
Stroke	mm (in)	126 (4.96)

Electrical System

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard. Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	100
Alternator	V/A	28 / 130
Start motor	V - kW	24 / 5.5

Undercarriage and structures

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

Track shoes		2 x 49
Link pitch	mm (in)	190 (7.5)
Shoe width, triple grouser	mm (in)	500/600/700 /800/900 (20/24/28/32/36)
Bottom rollers		2 x 8
Top rollers		2 x 2

Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and antirebound valve are standard.

Max. slew speed	r/min	12
Max. slew torque	kNm (ft lbf)	76.6 (56,520)

Travel System

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. drawbar pull	kN (lbf)	178 (40,016)
Max. travel speed (low)	km/h (mi/h)	3.4 (2.1)
Max. travel speed (high)	km/h (mi/h)	5.4 (3.4)
Gradeability	°	35



Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 14 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to ISO 6396

L _{pA}	dB	70
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External sound level according to ISO 6395, EU Noise Directive (2000/14/EC)

L _{WA}	dB	102
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Service Refill

Fuel tank	l (gal)	295 (78)
DEF/AdBlue® tank	l (gal)	17.9 (5)
Hydraulic system, total	l (gal)	215 (57)
Hydraulic tank	l (gal)	98 (26)
Engine oil	l (gal)	16 (4)
Engine coolant	l (gal)	14 (4)
Slew reduction unit	l (gal)	5.4 (1)
Travel reduction unit	l (gal)	2 x 3.5 (2 x 1)



Hydraulic system

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high productivity, high digging capacity and excellent fuel consumption.

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity

Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump: 2 x Variable displacement axial piston pumps

Maximum flow	l/min (gal/min)	2 x 200 (2 x 53)
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Pilot pump: Gear pump

Maximum flow	l/min (gal/min)	1 x 18 (1 x 5)
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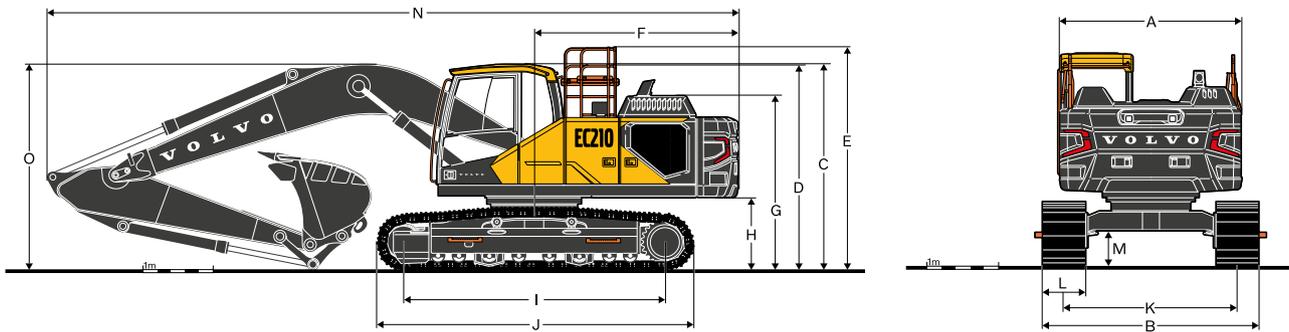
Max. pressure

Implement	MPa (psi)	34.3 / 36.3 (4,975 / 5,265)
Travel circuit	MPa (psi)	34.3 (4,975)
Slew circuit	MPa (psi)	27.9 (4,047)
Pilot circuit	MPa (psi)	3.9 (566)

Hydraulic Cylinders

Boom		2
Bore x Stroke	ø x mm (ø x in)	125 x 1,235 (4.9 x 48.6)
2 piece boom		1
Bore x Stroke	ø x mm (ø x in)	160 x 1,070 (6.3 x 42.1)
Arm		1
Bore x Stroke	ø x mm (ø x in)	135 x 1,540 (5.3 x 60.6)
Bucket		1
Bore x Stroke	ø x mm (ø x in)	120 x 1,065 (4.7 x 41.9)

Specifications

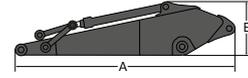
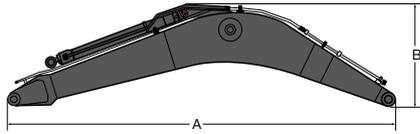


DIMENSIONS

	Unit		EC210F L	
Boom	m / ft in		5.7 m / 18'8"	
Arm	m	ft in	2.9 m	9'6"
A. Overall width of upper structure	mm	ft in	2,500	8'2"
B. Overall width**	mm	ft in	3,190	10'6"
C. Overall height of cab	mm	ft in	2,900	9'6"
D. Overall height of handrail	mm	ft in	2,875	9'5"
E. Overall height of guardrail	mm	ft in	3,120	10'3"
F. Tail swing radius	mm	ft in	2,870	9'5"
G. Overall height of engine hood	mm	ft in	2,450	8'0"
H. Counterweight clearance *	mm	ft in	1,005	3'4"
I. Tumbler length	mm	ft in	3,660	12'0"
J. Track length	mm	ft in	4,455	14'7"
K. Track gauge	mm	ft in	2,390	7'10"
L. Shoe width	mm	ft in	800	2'7"
M. Min. ground clearance *	mm	ft in	455	1'6"
N. Overall length of boom	mm	ft in	9,715	31'10"
O. Overall height of boom	mm	ft in	3,035	9'11"

* Without shoe grouser

** Shoe end to end



DIMENSIONS

Description	Unit		Boom		Description	Unit		Arm	
	m	ft in	5.7 m	18'8"		m	ft in	2.9 m	9'6"
A. Length	mm	ft in	5,915	19'5"	A. Length	mm	ft in	3,895	12'9"
B. Height	mm	ft in	1,600	5'3"	B. Height	mm	ft in	865	2'10"
Width	mm	ft in	670	2'2"	Width	mm	ft in	440	1'5"
Weight	kg	lb	2,010	4,430	Weight	kg	lb	1,140	3'9"

* Includes arm cylinder, piping and pin

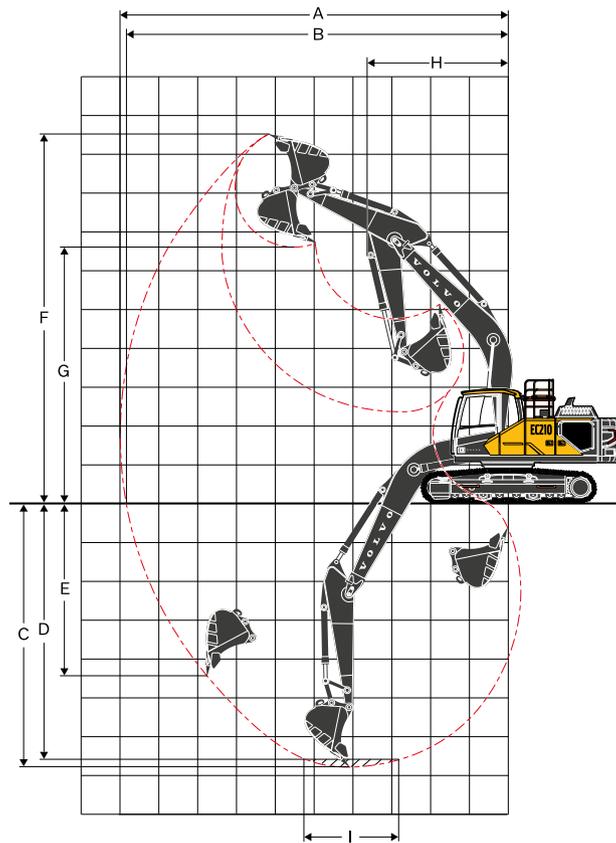
GROUND PRESSURE

EC210F L

Description	Shoe width		Operating weight		Ground pressure		Overall width	
	mm	in	kg	lb	kPa	psi	mm	ft in
Triple grouser	600	24	22,150	48,830	46.8	6.8	2,990	9'10"
	700	28	22,570	49,760	40.9	5.9	3,090	10'2"
	800	32	22,840	50,350	36.2	5.3	3,190	10'6"
	900	36	23,120	50,970	32.6	4.7	3,290	10'10"

EC210F L, 5.7 m (18'8") boom, 2.9 m (9'6") arm, 853 kg (1,880 lb) bucket, 4,500 kg (9,920 lb) counterweight

Specifications



WORKING RANGES WITH DIRECT FIT BUCKET

Description	Unit		EC210F L	
Boom	m / ft in		5.7 m / 18'8"	
Arm	m	ft in	2.9 m	9'6"
A. Max. digging reach	mm	ft in	9,995	32'10"
B. Max. digging reach on ground	mm	ft in	9,835	32'3"
C. Max. digging depth	mm	ft in	6,825	22'5"
D. Max. digging depth (l=2.44 m / 8'0" level)	mm	ft in	6,635	21'9"
E. Max. vertical wall digging depth	mm	ft in	5,535	18'2"
F. Max. cutting height	mm	ft in	9,445	31'0"
G. Max. dumping height	mm	ft in	6,555	21'6"
H. Min. front swing radius	mm	ft in	3,645	12'0"

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	Normal	SAE J1179	kN	lbf	125	28,100
	Power boost	SAE J1179	kN	lbf	132	29,670
	Normal	ISO 6015	kN	lbf	141	31,700
	Power boost	ISO 6015	kN	lbf	149	33,500
Tearout force (arm)	Normal	SAE J1179	kN	lbf	101	22,710
	Power boost	SAE J1179	kN	lbf	107	24,050
	Normal	ISO 6015	kN	lbf	104	23,380
	Power boost	ISO 6015	kN	lbf	110	24,730
Rotation angle, bucket				°	179	

*Machine with pin-on bucket

BUCKET SELECTION GUIDE

Bucket Type				Capacity		Cutting width		Weight		Teeth	Recommended maximum material density (kg/m ³)	
											EC210F L, 4,500 kg (9,920 lb) counterweight	
				L	yd ³	mm	in	kg	lb	EA	5.7 m (18'8") GP Boom	
										G2.9 m (9'6") Arm		
DF Buckets	Without Quick Coupler	V4	GP	480	0.63	600	23.6	623	1,373	3	C	
				480	0.63	600	23.6	666	1,467	3	C	
				590	0.77	750	29.5	712	1,569	3	C	
				630	0.82	800	31.5	703	1,550	4	C	
				750	0.98	900	35.4	749	1,652	4	C	
				750	0.98	900	35.4	792	1,747	4	C	
				920	1.2	1,050	41.3	819	1,806	4	C	
				920	1.2	1,050	41.3	862	1,901	4	C	
				1,090	1.43	1,200	47.2	908	2,001	5	C	
			1,090	1.43	1,200	47.2	951	2,098	5	C		
			1,270	1.66	1,350	53.1	995	2,194	5	C		
			1,270	1.66	1,350	53.1	1,036	2,391	5	C		
			1,440	1.88	1,500	59.1	1,085	1,628	6	B		
			HD	480	0.63	600	23.6	738	1,488	3	D	
				480	0.63	600	23.6	675	1,922	3	D	
				750	0.98	900	35.4	872	1,783	4	D	
				750	0.98	900	35.4	809	2,098	4	D	
				920	1.2	1,050	41.3	952	1,959	4	D	
920	1.2	1,050		41.3	889	2,308	4	D				
1,090	1.43	1,200		47.2	1,047	2,308	5	D				
1,090	1.43	1,200		47.2	984	2,169	5	D				
Quick Coupler Buckets	U type quick coupler	V4		GP	480	0.63	600	23.6	623	1,373	3	C
			480		0.63	600	23.6	666	1,467	3	C	
			590		0.77	750	29.5	712	1,569	3	C	
			630		0.82	800	31.5	703	1,550	4	C	
			750		0.98	900	35.4	749	1,652	4	C	
			750		0.98	900	35.4	792	1,747	4	C	
			920		1.2	1,050	41.3	819	1,806	4	C	
			920		1.2	1,050	41.3	862	1,901	4	C	
			1,090		1.43	1,200	47.2	908	2,001	5	C	
			1,090	1.43	1,200	47.2	951	2,098	5	C		
			1,270	1.66	1,350	53.1	995	2,194	5	B		
			1,270	1.66	1,350	53.1	1,036	2,391	5	B		
			1,440	1.88	1,500	59.1	1,085	1,628	6	A		
			HD	480	0.63	600	23.6	738	1,488	3	D	
				480	0.63	600	23.6	675	1,922	3	D	
				750	0.98	900	35.4	872	1,783	4	D	
				750	0.98	900	35.4	809	2,098	4	D	
				920	1.2	1,050	41.3	952	1,959	4	D	
920	1.2	1,050		41.3	889	2,308	4	D				
1,090	1.43	1,200		47.2	1,047	2,308	5	C				
1,090	1.43	1,200		47.2	984	2,169	5	C				

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. 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
D: 2,100 kg/m³ (3,500 lb/yd³)
C: 1,800 kg/m³ (3,100 lb/yd³)
B: 1,500 kg/m³ (2,500 lb/yd³)
A: 1,200 kg/m³ (2,000 lb/yd³)
X : Not recommended

Specifications

BUCKET SELECTION GUIDE

Bucket Type				Capacity		Cutting width		Weight		Teeth	Recommended maximum material density (kg/m ³)
											EC210F L, 4,500 kg (9,920 lb) counterweight
				L	yd ³	mm	in	kg	lb	EA	5.7 m (18'8") GP Boom
											G2.9 m (9'6") Arm
Quick Coupler Buckets	S1 type quick coupler	V4	GP	480	0.63	600	23.6	609	1,342	3	C
				480	0.63	600	23.6	642	1,414	3	C
				630	0.82	800	31.5	689	1,520	4	C
				750	0.98	900	35.4	735	1,621	4	C
				750	0.98	900	35.4	768	1,693	4	C
				920	1.2	1,050	41.3	805	1,775	4	C
				920	1.2	1,050	41.3	838	1,847	4	C
				1,090	1.43	1,200	47.2	894	1,971	5	C
				1,090	1.43	1,200	47.2	927	2,043	5	C
				1,270	1.66	1,350	53.1	970	2,138	5	B
				1,270	1.66	1,350	53.1	1,003	2,210	5	B
	1,440	1.88	1,500	59.1	1,057	2,331	6	A			

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.

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

D: 2,100 kg/m³ (3,500 lb/yd³)

C: 1,800 kg/m³ (3,100 lb/yd³)

B: 1,500 kg/m³ (2,500 lb/yd³)

A: 1,200 kg/m³ (2,000 lb/yd³)

X : Not recommended

LIFTING CAPACITY EC210F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		1.5 m / 5 ft		3.0 m / 10 ft		4.5 m / 15 ft		6.0 m / 20 ft		7.5 m / 25 ft		Max. reach		Max. m
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom : 5.7 m (18'8") Arm : 2.9 m (9'6") Shoe : 500 mm (20") CWT : 4,500 kg (9,920 lb)	7.5 m	kg							*5,210	*5,210			*4,970	*4,970	6.2 m
	25 ft	lb											*11,060	*11,060	19.8 ft
	6 m	kg							*5,100	*5,100			*4,630	4,040	7.3 m
	20 ft	lb							*11,220	*11,220			*10,250	9,030	23.8 ft
	4.5 m	kg							*5,670	5,440	*5,360	3,830	*4,580	3,430	8.0 m
	15 ft	lb							*12,360	11,740	*11,800	8,230	*10,080	7,610	26.2 ft
	3 m	kg					*8,430	7,910	*6,590	5,180	5,680	3,720	*4,700	3,120	8.4 m
	10 ft	lb					*18,150	17,080	*14,310	11,190	12,230	8,010	*10,350	6,910	27.4 ft
	1.5 m	kg					*10,340	7,360	*7,560	4,920	5,540	3,590	4,630	3,010	8.5 m
	5 ft	lb					*22,320	15,890	*16,400	10,630	11,940	7,750	10,210	6,640	27.8 ft
	0 m	kg			*5,430	*5,430	*11,400	7,070	7,540	4,740	5,440	3,500	4,730	3,060	8.3 m
	0 ft	lb			*12,580	*12,580	*24,680	15,230	16,240	10,230	11,720	7,550	10,430	6,750	27.1 ft
	-1.5 m	kg	*6,280	*6,280	*10,320	*10,320	*11,570	6,990	7,460	4,660	5,400	3,470	5,130	3,300	7.8 m
	-5 ft	lb	*14,080	*14,080	*23,480	*23,480	*25,080	15,060	16,060	10,070	11,670	7,500	11,340	7,300	25.5 ft
	-3 m	kg	*11,380	*11,380	*15,630	13,730	*10,920	7,060	7,500	4,700			6,080	3,890	7.0 m
	-10 ft	lb	*25,580	*25,580	*33,880	29,420	*23,640	15,210	16,160	10,160			13,510	8,640	22.7 ft
	-4.5 m	kg			*12,740	*12,740	*9,070	7,290					*6,930	5,390	5.6 m
-15 ft	lb			*27,350	*27,350	*19,370	15,740					*15,290	12,160	18.1 ft	
Boom : 5.7 m (18'8") Arm : 2.9 m (9'6") Shoe : 600 mm (24") CWT : 4,500 kg (9,920 lb)	7.5 m	kg							*5,210	*5,210			*4,970	*4,970	6.2 m
	25 ft	lb											*11,060	*11,060	19.8 ft
	6 m	kg							*5,100	*5,100			*4,630	4,080	7.3 m
	20 ft	lb							*11,220	*11,220			*10,250	9,130	23.8 ft
	4.5 m	kg							*5,670	5,500	*5,360	3,870	*4,580	3,470	8.0 m
	15 ft	lb							*12,360	11,850	*11,800	8,320	*10,080	7,690	26.2 ft
	3 m	kg					*8,430	7,990	*6,590	5,240	5,740	3,760	*4,700	3,160	8.4 m
	10 ft	lb					*18,150	17,250	*14,310	11,300	12,360	8,100	*10,350	6,980	27.4 ft
	1.5 m	kg					*10,340	7,440	*7,560	4,980	5,600	3,630	4,680	3,040	8.5 m
	5 ft	lb					*22,320	16,050	*16,400	10,740	12,080	7,830	10,330	6,720	27.8 ft
	0 m	kg			*5,430	*5,430	*11,400	7,140	7,630	4,790	5,500	3,540	4,780	3,090	8.3 m
	0 ft	lb			*12,580	*12,580	*24,680	15,400	16,430	10,350	11,860	7,630	10,550	6,820	27.1 ft
	-1.5 m	kg	*6,280	*6,280	*10,320	*10,320	*11,570	7,060	7,540	4,720	5,470	3,510	5,190	3,340	7.8 m
	-5 ft	lb	*14,080	*14,080	*23,480	*23,480	*25,080	15,220	16,240	10,180	11,800	7,580	11,470	7,390	25.5 ft
	-3 m	kg	*11,380	*11,380	*15,630	13,870	*10,920	7,130	7,580	4,750			6,150	3,930	7.0 m
	-10 ft	lb	*25,580	*25,580	*33,880	29,730	*23,640	15,380	16,340	10,270			13,660	8,740	22.7 ft
	-4.5 m	kg			*12,740	*12,740	*9,070	7,360					*6,930	5,440	5.6 m
-15 ft	lb			*27,350	*27,350	*19,370	15,910					*15,290	12,290	18.1 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY EC210F L

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		1.5 m / 5 ft		3.0 m / 10 ft		4.5 m / 15 ft		6.0 m / 20 ft		7.5 m / 25 ft		Max. reach		Max. m
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom : 5.7 m (18'8") Arm : 2.9 m (9'6") Shoe : 700 mm (28") CWT : 4,500 kg (9,920 lb)	7.5 m	kg							*5,210	*5,210			*4,970	*4,970	6.2 m
	25 ft	lb											*11,060	*11,060	19.8 ft
	6 m	kg							*5,100	*5,100			*4,630	4,150	7.3 m
	20 ft	lb							*11,220	*11,220			*10,250	9,270	23.8 ft
	4.5 m	kg							*5,670	5,580	*5,360	3,930	*4,580	3,530	8.0 m
	15 ft	lb							*12,360	12,040	*11,800	8,460	*10,080	7,820	26.2 ft
	3 m	kg					*8,430	8,110	*6,590	5,320	*5,760	3,820	*4,700	3,220	8.4 m
	10 ft	lb					*18,150	17,520	*14,310	11,490	12,580	8,240	*10,350	7,110	27.4 ft
	1.5 m	kg					*10,340	7,560	*7,560	5,060	5,710	3,700	4,770	3,100	8.5 m
	5 ft	lb					*22,320	16,330	*16,400	10,930	12,300	7,970	10,520	6,840	27.8 ft
	0 m	kg			*5,430	*5,430	*11,400	7,270	7,770	4,880	5,600	3,600	4,870	3,150	8.3 m
	0 ft	lb			*12,580	*12,580	*24,680	15,670	16,730	10,530	12,080	7,770	10,750	6,950	27.1 ft
	-1.5 m	kg	*6,280	*6,280	*10,320	*10,320	*11,570	7,190	7,680	4,800	5,570	3,570	5,290	3,400	7.8 m
	-5 ft	lb	*14,080	*14,080	*23,480	*23,480	*25,080	15,490	16,540	10,360	12,020	7,720	11,690	7,520	25.5 ft
	-3 m	kg	*11,380	*11,380	*15,630	14,110	*10,920	7,260	7,720	4,840			6,260	4,000	7.0 m
	-10 ft	lb	*25,580	*25,580	*33,880	30,240	*23,640	15,650	16,640	10,460			13,910	8,900	22.7 ft
	-4.5 m	kg			*12,740	*12,740	*9,070	7,490					*6,930	5,540	5.6 m
-15 ft	lb			*27,350	*27,350	*19,370	16,180					*15,290	12,500	18.1 ft	
Boom : 5.7 m (18'8") Arm : 2.9 m (9'6") Shoe : 800 mm (32") CWT : 4,500 kg (9,920 lb)	7.5 m	kg							*5,210	*5,210			*4,970	*4,970	6.2 m
	25 ft	lb											*11,060	*11,060	19.8 ft
	6 m	kg							*5,100	*5,100			*4,630	4,190	7.3 m
	20 ft	lb							*11,220	*11,220			*10,250	9,380	23.8 ft
	4.5 m	kg							*5,670	5,640	*5,360	3,970	*4,580	3,570	8.0 m
	15 ft	lb							*12,360	12,160	*11,800	8,550	*10,080	7,920	26.2 ft
	3 m	kg					*8,430	8,200	*6,590	5,380	*5,760	3,860	*4,700	3,250	8.4 m
	10 ft	lb					*18,150	17,700	*14,310	11,610	*12,580	8,330	*10,350	7,190	27.4 ft
	1.5 m	kg					*10,340	7,650	*7,560	5,120	5,770	3,740	4,830	3,140	8.5 m
	5 ft	lb					*22,320	16,510	*16,400	11,050	12,440	8,070	10,650	6,920	27.8 ft
	0 m	kg			*5,430	*5,430	*11,400	7,350	7,860	4,940	5,670	3,640	4,930	3,190	8.3 m
	0 ft	lb			*12,580	*12,580	*24,680	15,860	16,930	10,660	12,230	7,870	10,880	7,040	27.1 ft
	-1.5 m	kg	*6,280	*6,280	*10,320	*10,320	*11,570	7,270	7,770	4,860	5,640	3,620	5,350	3,450	7.8 m
	-5 ft	lb	*14,080	*14,080	*23,480	*23,480	*25,080	15,680	16,740	10,490	12,170	7,820	11,830	7,610	25.5 ft
	-3 m	kg	*11,380	*11,380	*15,630	14,270	*10,920	7,340	7,820	4,900			6,340	4,050	7.0 m
	-10 ft	lb	*25,580	*25,580	*33,880	30,580	*23,640	15,830	16,840	10,580			14,080	9,000	22.7 ft
	-4.5 m	kg			*12,740	*12,740	*9,070	7,580					*6,930	5,600	5.6 m
-15 ft	lb			*27,350	*27,350	*19,370	16,360					*15,290	12,640	18.1 ft	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.



Equipment

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets NA T4f requirements	•
Dual cooling fan system including electric driven for CAC	•
Cyclone pre-cleaner	•
Fuel shut off valve	•
Engine block heater	o
Coolant heater by diesel	o
Air filter, High efficiency	o
Delayed engine Shutdown	•
Automatic engine shutdown	o
Water separator with heater	o
Arctic regeneration	o
Regeneration control	o

Electric / Electronic control system

Anti-theft with code lock system	•
Alternator, 130 A	•
Automatic idling system	•
Lock Out / Tag Out function on main battery switch	•
Standard light	•
Basic light package	•
Advanced light package	o
Deluxe light package	o
Arm light	o
LH light	o

Undercarriage and structures

3-point side access	•
Direct filling DEF(AdBlue) / Sight gauge and splash guard	•
Openable 1 piece hood	•
Guardrail, fixed/foldable	•
Inner rail	•
Link 600/700/800/900 mm (24/28/32/36 in) triple grouser shoe	o
Link 600 mm (24 in) triple grouser shoe, HD	o
Link 600 mm (24 in) single grouser shoe	o
Link 700 mm (28 in) double grouser shoe	o

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Hydraulic system

EH(Electro-Hydraulic) control system	•
New work mode with 10 steps	•
Auto power boost	•
One touch power boost	•
Priority Adjustment	•
Boom down speed control	•
Shock reduction function	•
Joystick / 4 switch / 4 switch & 1 proportional / Simple L8 / L8	o
Hydraulic oil mineral 32 / 46 / 68	o
Longlife hyd oil mineral 32 / 46 / 68	o
Hydraulic oil bio 46	o
Pattern change	o
Boom float function	o
Straight travel pedal	o
Comfort driving control	o
Creep mode	•
Variable X3 P-Q control	o

Cab and interior

Keyless engine start and stop	•
8" HD display	•
ROPS certified cab	•
Tiltable left console	•
Digital hour meter	•
Wireless mobile charger with Kinematic sensor package option	o
Various storage space with cool/heated	•
Cabin large mirror, Heated	o
Cabin large mirror	•
Basic / Premium seat	o
Seat belt, 2 inch 2 point / 3 inch 2 point / 3 inch 3 point	o
Climate control-HEPA filter	o
Radio with MP3/USB/Bluetooth	o
Front rain shield	o
Sun screen	•
Lower wiper	o
Sun shield, roof hatch	o
Foot rest, High mount	•
FOG (Falling Object Guard)	o
FOPS (Falling Object Protection Structure)	o
Safety net	o

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Digging equipment

Boom: 5.7 m (18'8") monoblock	•
Arm: 2.9 m (9'6")	•

Machine controls

Kinematic sensor package	o
Volvo Co-Pilot 2nd display, 12.8" touchable Full HD	o
Dig Assist, Start	o
Dig Assist, 2D	o
Dig Assist, In-Field Design	o
Dig Assist, Topcon 3D-MC	o
Dig Assist, Infield-Design Advanced	o
Dig Assist, On-Board Weighing	o
Dig Assist, Laser Receiver	o
Volvo Active Control	o
Dig Assist, Boundary Limit	o

Service and maintenance

Fuel level gauge	•
Swing out A/C condenser	•
Fuel filler pump	o
Quick Hydraulic Oil Fill connection	•
Jump start connector	o
Tool kit	o

Safety and security

Travel alarm, beep / white noise	o
Flashing beacon, LED	o
Green light beacon	o
Rear view camera	o
Side view camera	o
HD VSV(Volvo Smart View)	•
HD VSV with obstacle detection	o
Provision, HD VSV with obstacle detection	o

V O L V O