

V O L V O



Volvo Compact Excavators 5.6-6.8 t / 12,350-15,020 lb 62 hp

EC65

Volvo Construction Equipment

EC65

The proven success of the previous generation is taken to new heights in the EC65 with a range of impressive performance improvements, new intuitive 8" display and enhanced uptime features. Versatile, robust and high performing – get ready for maximum results.



Compact machine, big performance

The versatile and hard-working EC65 is a compact machine designed to achieve big results. Featuring a range of performance upgrades, including 4% more engine power, improved swing performance, 6% more lifting capacity and 9% more boom lifting force, this Volvo Compact Excavator is ready to deliver across utilities, building, agriculture, landscaping, forestry and more. With a new 8" HD intuitive touchscreen display, enhanced controls and a range of comfort improvements, the EC65 continues the proud Volvo tradition of providing class-leading operator environments to the market. Engineered for maximum uptime, our machines feature easy servicing, longer service intervals, and a larger fuel tank – so you can work harder for longer.



Operator control

- New 8" high-definition touchscreen interface
- Operators can now control all essential machine functions from the display
- Keyless engine start/stop
- Larger right-hand console for improved dozer blade control
- Hydraulic dozer blade lever with integrated high-speed travel and floating mode buttons



Extensive performance upgrades

- 4 % more engine power
- 5 % improved swing performance on the slope
- 5 % increased swing pressure and torque
- 9 % increase in boom lifting force



Operator comfort

- New, wider and height adjustable arm rests
- New tiltable left-hand console for easy entry/exit
- Conveniently located in-cab storage locations, with cupholder, document holder, phone holder and glove compartment
- USB charging sockets



Easy servicing

- Wide opening hood
- Ground level service access
- Grouped filters
- 16-litres less hydraulic oil



Longer service intervals

- DPF cleaning every 8 000 hours (up from 6 000 compared to the previous generation)
- Hydraulic return filter changes every 1 500 hours – 3 times longer than the previous generation
- 3 000-hour suction filter interval (50 % longer than previous generation)
- 6 000-hour long life oil interval (20 % longer than previous generation)



Work for longer

- Larger 120 litre fuel tank capacity (14 % increase compared to previous generation)
- Auto engine shutdown (operator sets pre-set shutdown time between 5-60 mins)
- CareTrack telematics with Active Care
- New software architecture for seamless future updates



Attachment versatility

- Range of Volvo attachments
- 120 l/min hydraulic flow for attachments/accessories (double the previous generation)
- Tiltrotator from the factory



New options

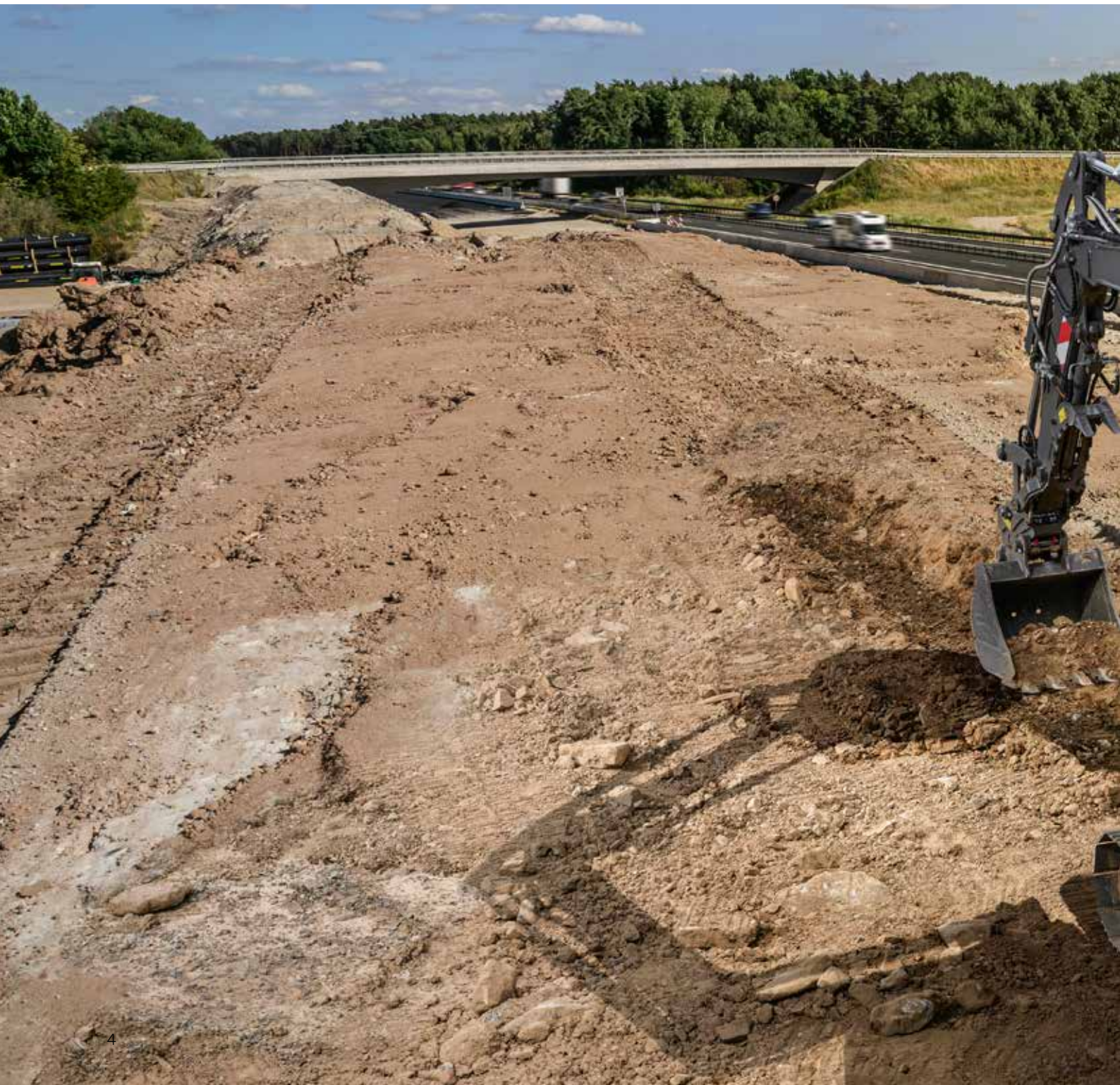
- New sliding air suspension seat, including 3-point seatbelt
- Additional oil drain line
- Engine block heater
- Side view camera
- White noise alarm

More power to perform

- Dig powerfully, load efficiently, swing smoothly and crawl quickly
- 4 % more engine power, 6% more lifting capacity, 9 % increase in boom lifting force
- Improved swing performance on the slope
- 5 % increased swing pressure and torque
- Fast, reliable results across a wide range of applications.

New intuitive display

- Featuring a new 8" high-definition touchscreen interface inherited from larger Volvo Excavators
- Operators can now control all essential machine functions from the convenience of the display and simplified interface
- The easy-to-use menu intuitively guides operators through key machine functions including attachment pre-set and selection, rear and side camera view, mobile phone Bluetooth pairing, and serviceability interval adjustments.



Easy to service

- Servicing is quick and easy
- Wide opening hood
- Safe and easy access
- All service check points are located under the wide-opening engine hood and are accessed from ground level
- Grouped filters ensure regular maintenance is straightforward, helping to maximize uptime.

One machine, many jobsites

- With range of Volvo Attachments, the EC65 can be equipped to take on a wide array of tasks
- With double the auxiliary hydraulic flow compared to the previous generation, the machine can now handle the most powerful attachments
- Whether utilities, building, agriculture, landscaping, forestry and more; Volvo attachments are designed to work in perfect harmony with your Volvo machine to deliver maximum results.



Volvo EC65 in detail

Engine

The new engine which provide excellent performance is equipped with a four-cylinder, vertical, electronic controlled high pressure fuel injectors, in-line turbo charger and water cooled diesel engine type. This engine fully meets the demands of the latest Tier 4f (Stage V) emissions regulations.

Model	Brand	D2.6H
Max. power at	rpm (rps)	2,200 (36.7)
Net (ISO 9249/SAEJ1349)	kW (hp)	45.1 (60.5)
Net (ISO 9249/SAEJ1349)	hp	61.3
Gross (SAE J1995)	kW (hp)	46 (61.7)
Gross (SAE J1995)	hp	62.5
Max. torque	Nm (ft lbf)	225 (166)
at engine speed	rpm	1,500
No. of cylinders		4
Displacement	lit (in ³)	2.62 (160)
Displacement	m ³ (in ³)	(160)
Bore	mm (in)	87 (3.43)
Stroke	mm (in)	110 (4.33)

Electrical System

Voltage	V	12
Battery capacity	Ah	100
Alternator	V/Ah	12/90
Starter motor output	V - kW	12 - 2.5

Undercarriage

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

Track shoes		2 x 39
Link pitch	mm (in)	135 (5.32)
Shoe width - steel	mm (in)	380 / 500 (15 / 20)
Shoe width - rubber	mm (in)	400 (16)
Bottom rollers		2 x 5
Top rollers		2 x 16

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. travel speed low	km/h (mph)	2.4 (1.49)
Max. travel speed high	km/h (mph)	4.4 (2.73)
Max. drawbar pull	kN (lbf)	52.8 (11,870)
Gradeability	°	35

Swing System

-No need for gear oil replacement
The lubricating system uses hydraulic operation oil for the reduction gear, eliminating the need for gear oil replacement.
-Built-in parking brake
Parking brake can be built into the hydraulic motor, enabling safer parking on an incline.
-Shockless function
Shockless relief is standard equipment to enable smooth traversing.

Max. swing speed	rpm	9.1
Max. swing speed	kN/m (lbf ft)	12.9 (9,515)

Service Refill

Fuel tank	lit (gal.)	120 (31.7)
Hydraulic system, total	lit (gal.)	105 (27.7)
Hydraulic tank	lit (gal.)	60 (15.9)
Engine oil	lit (gal.)	11 (2.91)
Engine coolant	lit (gal.)	10 (2.64)

Sound Level

Interior sound level according to ISO 6396

L _{pA}	dB	78
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External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009

L _{WA}	dB	97
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Hydraulic System

Open center, Power Control system providing accurate controllability.

Main pump: Variable-displacement pump

Maximum flow	l/min (gal/min)	2 x 60.5 (2 x 16)
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Swing pump: Dozer blader pump, Gear pump

Maximum flow	l/min (gal/min)	35.6 (2 x 16)
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Maximum flow	gal/min	9.41
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Max. pressure

Implement	MPa (psi)	22.6 (3,278)
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Travel circuit	MPa (psi)	24.5 (3,553)
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Swing circuit	MPa (psi)	20.6 (2,988)
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Pilot circuit	MPa (psi)	3.2 (464)
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Maximum flow for accessories	l/min (gal/min)	120 (31.7)
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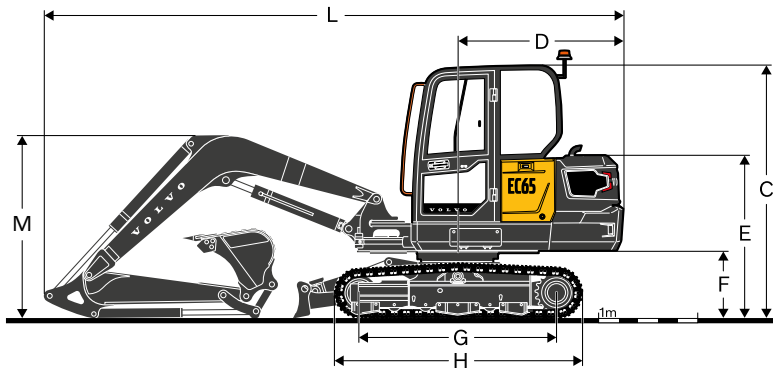
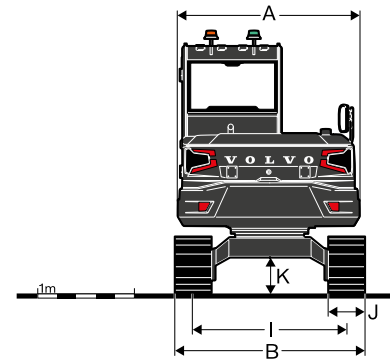
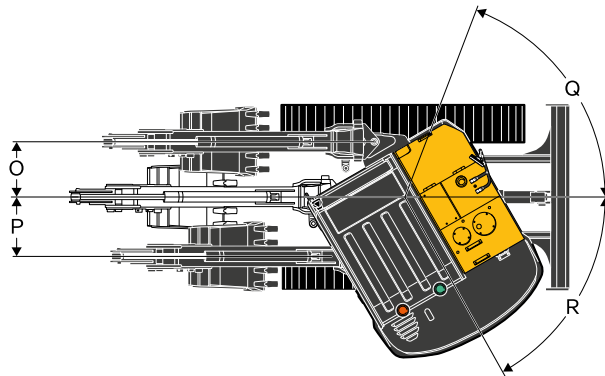
Maximum pressure for accessories	MPa (psi)	22.5 (3,263)
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Maximum flow for 2nd accessory circuit	l/min (gal/min)	28 (7.4)
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Maximum pressure for 2nd accessory circuit	MPa (psi)	15 (2,176)
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Specifications

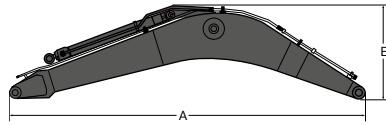
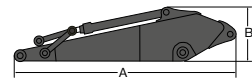


DIMENSIONS

Description		EC65				
Boom		3.0 m (9'10")				
Arm	Unit	1.6 m	5'3"	1.9 m	6'3"	
A Overall width of upper structure	mm ft in	1,880	6'2"	1,880	6'2"	
B Overall width	mm ft in	2,000	6'7"	2,000	6'7"	
C Overall height of cab**	mm ft in	2,584	8'6"	2,584	8'6"	
D Tail swing radius	mm ft in	1,690	5'7"	1,690	5'7"	
E Overall height of engine hood**	mm ft in	1,655	5'5"	1,655	5'5"	
F Counterweight clearance *	mm ft in	680	2'3"	680	2'3"	
G Tumbler length	mm ft in	1,990	6'6"	1,990	6'6"	
H Track length	mm ft in	2,500	8'2"	2,500	8'2"	
I Track gauge	mm ft in	1,600	5'3"	1,600	5'3"	
J Shoe width	mm in	380	15.0	380	15.0	
K Min. ground clearance *	mm in	350	14.0	350	14.0	
L Overall length	mm ft in	5,840	19'2"	5,905	19'4"	
M Overall height of boom	mm ft in	1,854	6'1"	1,978	6'6"	
O Boom swing distance	mm ft in	684	2'3"	684	2'3"	
P Boom swing distance	mm ft in	755	2'6"	755	2'6"	
Q Boom swing angle	°	80		80		
R Boom swing angle	°	50		50		

* Without shoe grouser

** Based on Steel track



DIMENSIONS

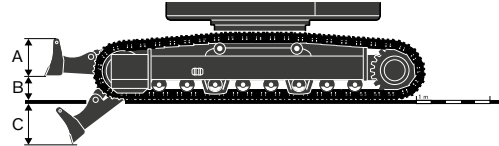
				Boom						Arm	
Description	Unit			3.0 m	9'10"	Description	Unit			1.6 m	5'3"
A Length	mm ft in			3,110	10'2"	A Length	mm ft in			2,102	6'11"
B Height	mm ft in			1,192	3'11"	B Height	mm ft in			488	1'7"
Width	mm in			336	13.23	Width	mm ft in			300	11.8
Weight	kg lb			378	830	Weight	kg lb			168	370

Includes cylinder, piping and pin, excludes boom cyl. Pin

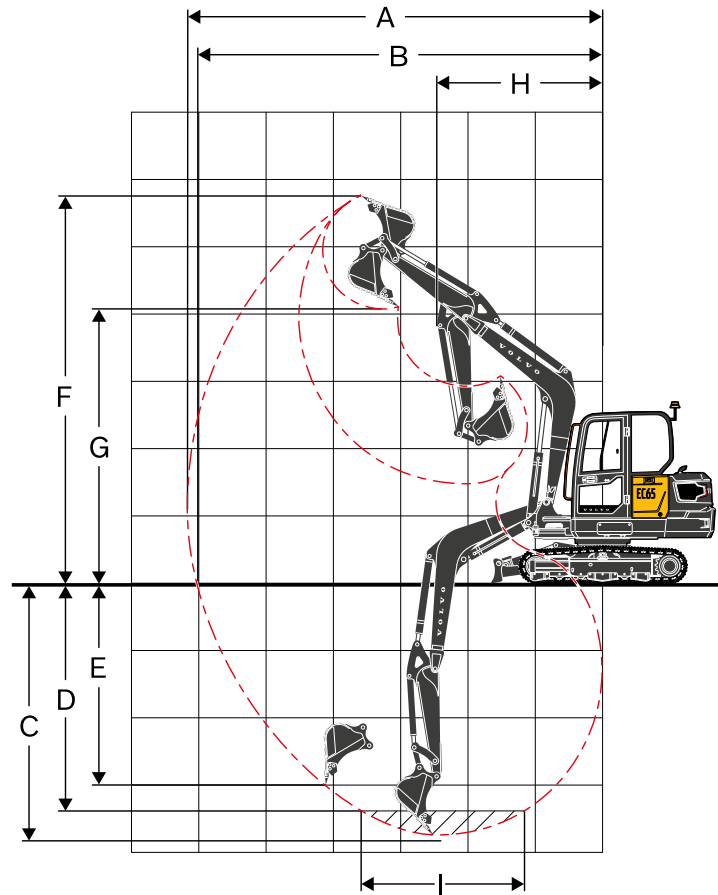
Includes cylinder, linkage and pin

DIMENSIONS

Dozer blade		Unit		Standard Dozer		Longer Dozer	
A	Height	mm	ft in	350	1'2"	350	1'2"
	Width	mm	ft in	2,000	6'7"	2,000	6'7"
B	Lifting height	mm	ft in	351	1'2"	405	1'4"
C	Digging depth	mm	ft in	446	1'6"	919	3'0"



Specifications



WORKING RANGES

Description	Unit		EC65			
Boom	m (ft in)		3.0 m (9'10")			
Arm	m (ft in)		1.6 m (5'3")		1.9 m (6'3")	
A Max. digging reach	mm	ft in	6,105	20'0"	6,395	21'0"
B Max. digging reach on ground	mm	ft in	5,970	19'7"	6,260	20'6"
C Max. digging depth	mm	ft in	3,695	12'1"	3,995	13'1"
D Max. digging depth (l=2 440 mm level)	mm	ft in	3,295	10'10"	3,640	11'11"
E Max. vertical wall digging depth	mm	ft in	2,625	8'7"	2,900	9'6"
F Max. cutting height	mm	ft in	5,695	18'8"	5,885	19'4"
G Max. dumping height	mm	ft in	4,150	13'7"	4,340	14'3"
H Min. front swing radius	mm	ft in	2,465	8'1"	2,470	8'1"

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	SAE J1179	kN	lb	37.7	8,470	37.7	8,470
	ISO 6015	kN	lb	43.3	9,720	43.3	9,720
Tearout force (arm)	SAE J1179	kN	lb	28.2	6,340	25.0	5,630
	ISO 6015	kN	lb	28.8	6,470	25.4	5,710
Rotation angle, bucket			°	196			

MACHINE WEIGHTS AND GROUND PRESSURE - EC65

Description	Shoe width		Operating weight		Ground pressure		Overall width		Operating weight		Ground pressure		Overall width	
	mm	in	kg	lb	kPa	psi	mm	ft in	kg	lb	kPa	psi	mm	ft in
Steel track	380	15	5,950	13,118	35.4	5.1	2,000	6'7"	6,000	13,228	35.7	5.2	2,000	6'7"
	500	20	6,038	13,312	27.3	4.0	2,120	6'11"	6,088	13,422	27.5	4.0	2,120	6'11"
Rubber track	400	16	5,610	12,368	31.7	4.6	2,020	6'8"	5,650	12,456	32.0	4.6	2,020	6'8"
Rubber pad	400	16	6,109	13,468	34.3	5.0	2,020	6'8"	6,159	13,578	34.5	5.0	2,020	6'8"
			3.0 m (9'10") boom, 1.6 m (5'3") arm, 142 L (0.19 yd³) bucket, 470 kg (1,040 lb) counterweight						3.0 m (9'10") boom, 1.9 m (6'3") arm, 142 L (0.19 yd³) bucket, 470 kg (1,040 lb) counterweight					

BUCKETS

Width		Weight		Capacity	
mm	ft in	kg	lb	l	in³
350	1'2"	97	210	70	4,271
450	1'6"	100	220	98	5,980
600	2'0"	129	280	142	8,665
750	2'6"	145	320	187	11,411
900	2'11"	164	360	235	14,340
1,500	4'11"	176	390	265	16,170

Max. permitted buckets

Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.

2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.

3. Bucket widths are less than bucket's tip radius.

BUCKET SELECTION GUIDE

Description			3.0 m (9'10") Boom, Direct Fit							
			1.6 m (5'3") Arm				1.9 m (6'3") Arm			
			Volume		Weight		Volume		Weight	
	t/m³	lb/yd³	L	gal	kg	lb	L	gal	kg	lb
GP Bucket	1.5	2,528	300	79	250	551	275	73	200	441
	1.8	3,034	275	73	200	441	250	66	200	441

Specifications

LIFTING CAPACITY EC65

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		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.9 ft)		4.0 m (13.2 ft)		5.0 m (16.5 ft)		Max reach		
			Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	
Boom: 3.0 m (9'10") Arm: 1.6 m GP (5'3") Shoe: 400 mm (16") Rubber track CWT: 470 kg (1,040 lb) Dozer blade: Down	4.0 m	kg							*1,606	1,220			*1,343	1,066	4.33 m
	13.2 ft	lb							*3,540	2,690			*2,960	2,350	14.2 ft
	3.0 m	kg							*1,656	1,202			*1,238	848	4.94 m
	9.9 ft	lb							*3,650	2,650			*2,730	1,870	16.2 ft
	2.0 m	kg					*2,536	1,778	*1,891	1,152	*1,610	812	*1,229	753	5.24 m
	6.6 ft	lb					*5,590	3,920	*4,170	2,540	*3,550	1,790	*2,710	1,660	17.2 ft
	1.0 m	kg					*3,166	1,642	*2,141	1,093	*1,678	789	*1,293	726	5.33 m
	3.3 ft	lb					*6,980	3,620	*4,720	2,410	*3,700	1,740	*2,850	1,600	17.5 ft
	0 m	kg			*1,388	*1,388	*3,311	1,574	*2,245	1,052	*1,656	771	*1,447	744	5.15 m
	0 ft	lb			*3,060	*3,060	*7,300	3,470	*4,950	2,320	*3,650	1,700	*3,190	1,640	16.9 ft
	-1.0 m	kg	*2,454	*2,454	*3,289	3,048	*3,035	1,560	*2,096	1,039			*1,556	835	4.75 m
	-3.3 ft	lb	*5,410	*5,410	*7,250	6,720	*6,690	3,440	*4,620	2,290			*3,430	1,840	15.6 ft
Boom: 3.0 m (9'10") Arm: 1.6 m GP (5'3") Shoe: 400 mm (16") Rubber track CWT: 470 kg (1,040 lb) Dozer blade: Up	-2.0 m	kg			*3,379	3,112	*2,295	1,592					*1,429	1,084	3.96 m
	-6.6 ft	lb			*7,450	6,860	*5,060	3,510					*3,150	2,390	13.0 ft
	4.0 m	kg							1,538	1,197			*1,343	1,043	4.33 m
	13.2 ft	lb							3,390	2,640			*2,960	2,300	14.2 ft
	3.0 m	kg							1,520	1,179			1,080	835	4.94 m
	9.9 ft	lb							3,350	2,600			2,380	1,840	16.2 ft
	2.0 m	kg					2,295	1,742	1,470	1,129	1,039	798	966	739	5.24 m
	6.6 ft	lb					5,060	3,840	3,240	2,490	2,290	1,760	2,130	1,630	17.2 ft
	1.0 m	kg					2,150	1,606	1,406	1,070	1,012	771	930	708	5.33 m
	3.3 ft	lb					4,740	3,540	3,100	2,360	2,230	1,700	2,050	1,560	17.5 ft
	0 m	kg			*1,388	*1,388	2,077	1,538	1,361	1,030	993	753	962	730	5.15 m
	0 ft	lb			*3,060	*3,060	4,580	3,390	3,000	2,270	2,190	1,660	2,120	1,610	16.9 ft
Boom: 3.0 m (9'10") Arm: 1.6 m GP (5'3") Shoe: 380 mm (15") Steel track CWT: 470 kg (1,040 lb) Dozer blade: Down	-1.0 m	kg	*2,454	*2,454	*3,289	2,971	2,064	1,529	1,347	1,016			1,080	816	4.75 m
	-3.3 ft	lb	*5,410	*5,410	*7,250	6,550	4,550	3,370	2,970	2,240			2,380	1,800	15.6 ft
	-2.0 m	kg			*3,379	3,030	2,096	1,556					1,406	1,066	3.96 m
	-6.6 ft	lb			*7,450	6,680	4,620	3,430					3,100	2,350	13.0 ft
	4.0 m	kg							*1,606	1,256			*1,343	1,102	4.33 m
	13.2 ft	lb							*3,540	2,770			*2,960	2,430	14.2 ft
	3.0 m	kg							*1,656	1,243			*1,238	880	4.94 m
	9.9 ft	lb							*3,650	2,740			*2,730	1,940	16.2 ft
	2.0 m	kg					*2,536	1,837	*1,891	1,193	*1,610	844	*1,229	785	5.24 m
	6.6 ft	lb					*5,590	4,050	*4,170	2,630	*3,550	1,860	*2,710	1,730	17.2 ft
	1.0 m	kg					*3,166	1,701	*2,141	1,134	*1,678	816	*1,293	753	5.33 m
	3.3 ft	lb					*6,980	3,750	*4,720	2,500	*3,700	1,800	*2,850	1,660	17.5 ft
Boom: 3.0 m (9'10") Arm: 1.6 m GP (5'3") Shoe: 380 mm (15") Steel track CWT: 470 kg (1,040 lb) Dozer blade: Up	0 m	kg			*1,388	*1,388	*3,311	1,633	*2,245	1,089	*1,656	798	*1,447	776	5.15 m
	0 ft	lb			*3,060	*3,060	*7,300	3,600	*4,950	2,400	*3,650	1,760	*3,190	1,710	16.9 ft
	-1.0 m	kg	*2,454	*2,454	*3,289	3,157	*3,035	1,619	*2,096	1,075			*1,556	866	4.75 m
	-3.3 ft	lb	*5,410	*5,410	*7,250	6,960	*6,690	3,570	*4,620	2,370			*3,430	1,910	15.6 ft
	-2.0 m	kg			*3,379	3,221	*2,295	1,647					*1,429	1,125	3.96 m
	-6.6 ft	lb			*7,450	7,100	*5,060	3,630					*3,150	2,480	13.0 ft
	4.0 m	kg							1,588	1,234			*1,343	1,080	4.33 m
	13.2 ft	lb							3,500	2,720			*2,960	2,380	14.2 ft
	3.0 m	kg							1,569	1,220			1,120	862	4.94 m
	9.9 ft	lb							3,460	2,690			2,470	1,900	16.2 ft
	2.0 m	kg					2,368	1,801	1,515	1,170	1,075	826	1,002	767	5.24 m
	6.6 ft	lb					5,220	3,970	3,340	2,580	2,370	1,820	2,210	1,690	17.2 ft
	1.0 m	kg					2,223	1,665	1,456	1,111	1,052	803	966	735	5.33 m
	3.3 ft	lb					4,900	3,670	3,210	2,450	2,320	1,770	2,130	1,620	17.5 ft
	0 m	kg			*1,388	*1,388	2,150	1,597	1,411	1,066	1,034	785	998	757	5.15 m
	0 ft	lb			*3,060	*3,060	4,740	3,520	3,110	2,350	2,280	1,730	2,200	1,670	16.9 ft
	-1.0 m	kg	*2,454	*2,454	*3,289	3,080	2,136	1,583	1,397	1,052			1,120	848	4.75 m
	-3.3 ft	lb	*5,410	*5,410	*7,250	6,790	4,710	3,490	3,080	2,320			2,470	1,870	15.6 ft
	-2.0 m	kg			*3,379	3,139	2,168	1,615					*1,429	1,102	3.96 m
	-6.6 ft	lb			*7,450	6,920	4,780	3,560					*3,150	2,430	13.0 ft

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

LIFTING CAPACITY EC65

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		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.9 ft)		4.0 m (13.2 ft)		5.0 m (16.5 ft)		Max reach		
			Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	
Boom: 3.0 m (9'10") Arm: 1.9 m GP (6'3") Shoe: 400 mm (16") Rubber track CWT: 470 kg (1,040 lb) Dozer blade: Down	5.0 m	kg											*1,324	*1,324	3.72 m
	16.5 ft	lb											*2,920	*2,920	12.2 ft
	4.0 m	kg							*1,420	1,238			*1,102	939	4.69 m
	13.2 ft	lb							*3,130	2,730			*2,430	2,070	15.4 ft
	3.0 m	kg							*1,506	1,216	*1,451	835	*1,025	767	5.24 m
	9.9 ft	lb							*3,320	2,680	*3,200	1,840	*2,260	1,690	17.2 ft
	2.0 m	kg			*3,960	3,529	*2,268	1,805	*1,760	1,157	*1,524	812	*1,021	689	5.55 m
	6.6 ft	lb			*8,730	7,780	*5,000	3,980	*3,880	2,550	*3,360	1,790	*2,250	1,520	18.2 ft
	1.0 m	kg					*2,989	1,651	*2,046	1,089	*1,628	785	*1,066	662	5.61 m
	3.3 ft	lb					*6,590	3,640	*4,510	2,400	*3,590	1,730	*2,350	1,460	18.4 ft
	0 m	kg			*1,538	*1,538	*3,284	1,560	*2,214	1,039	*1,669	757	*1,170	676	5.46 m
	0 ft	lb			*3,390	*3,390	*7,240	3,440	*4,880	2,290	*3,680	1,670	*2,580	1,490	17.9 ft
	-1.0 m	kg	*2,087	*2,087	*2,939	*2,939	*3,134	1,533	*2,150	1,016	*1,492	753	*1,397	744	5.06 m
	-3.3 ft	lb	*4,600	*4,600	*6,480	*6,480	*6,910	3,380	*4,740	2,240	*3,290	1,660	*3,080	1,640	16.6 ft
	-2.0 m	kg	*3,461	*3,461	*3,987	3,035	*2,563	1,551	*1,710	1,030			*1,388	930	4.36 m
Boom: 3.0 m (9'10") Arm: 1.9 m GP (6'3") Shoe: 400 mm (16") Rubber track CWT: 470 kg (1,040 lb) Dozer blade: Up	-6.6 ft	lb	*7,630	*7,630	*8,790	6,690	*5,650	3,420	*3,770	2,270			*3,060	2,050	14.3 ft
	-3.0 m	kg			*1,760	*1,760	*1,057	*1,057					*984	*984	3.08 m
	-9.9 ft	lb			*3,880	*3,880	*2,330	*2,330					*2,170	*2,170	10.1 ft
	5.0 m	kg											*1,324	*1,324	3.72 m
	16.5 ft	lb											*2,920	*2,920	12.2 ft
	4.0 m	kg							*1,420	1,216			*1,102	921	4.69 m
	13.2 ft	lb							*3,130	2,680			*2,430	2,030	15.4 ft
	3.0 m	kg							*1,506	1,193	1,061	821	980	753	5.24 m
	9.9 ft	lb							*3,320	2,630	2,340	1,810	2,160	1,660	17.2 ft
	2.0 m	kg			*3,960	3,447	*2,268	1,774	1,474	1,134	1,039	798	885	676	5.55 m
	6.6 ft	lb			*8,730	7,600	*5,000	3,910	3,250	2,500	2,290	1,760	1,950	1,490	18.2 ft
	1.0 m	kg					2,159	1,619	1,406	1,070	1,007	767	853	649	5.61 m
	3.3 ft	lb					4,760	3,570	3,100	2,360	2,220	1,690	1,880	1,430	18.4 ft
	0 m	kg			*1,538	*1,538	2,064	1,529	1,352	1,016	984	744	875	662	5.46 m
	0 ft	lb			*3,390	*3,390	4,550	3,370	2,980	2,240	2,170	1,640	1,930	1,460	17.9 ft
	-1.0 m	kg	*2,087	*2,087	*2,939	2,908	2,037	1,501	1,329	993	975	735	966	730	5.06 m
	-3.3 ft	lb	*4,600	*4,600	*6,480	6,410	4,490	3,310	2,930	2,190	2,150	1,620	2,130	1,610	16.6 ft
	-2.0 m	kg	*3,461	*3,461	*3,987	2,957	2,055	1,515	1,343	1,007			1,202	907	4.36 m
	-6.6 ft	lb	*7,630	*7,630	*8,790	6,520	4,530	3,340	2,960	2,220			2,650	2,000	14.3 ft
	-3.0 m	kg			*1,760	*1,760	*1,057	*1,057					*984	*984	3.08 m
	-9.9 ft	lb			*3,880	*3,880	*2,330	*2,330					*2,170	*2,170	10.1 ft

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

Specifications

LIFTING CAPACITY EC65

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		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.9 ft)		4.0 m (13.2 ft)		5.0 m (16.5 ft)		Max reach		
			Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	Along UC	Accross UC	
Boom: 3.0 m (9'10") Arm: 1.9 m GP (6'3") Shoe: 380 mm (15") Steel track CWT: 470 kg (1,040 lb) Dozer blade: Down	5.0 m	kg											*1,324	*1,324	3.72 m
	16.5 ft	lb											*2,920	*2,920	12.2 ft
	4.0 m	kg							*1,420	1,279			*1,102	971	4.69 m
	13.2 ft	lb							*3,130	2,820			*2,430	2,140	15.4 ft
	3.0 m	kg							*1,506	1,252	*1,451	866	*1,025	798	5.24 m
	9.9 ft	lb							*3,320	2,760	*3,200	1,910	*2,260	1,760	17.2 ft
	2.0 m	kg			*3,960	3,638	*2,268	1,864	*1,760	1,197	*1,524	844	*1,021	717	5.55 m
	6.6 ft	lb			*8,730	8,020	*5,000	4,110	*3,880	2,640	*3,360	1,860	*2,250	1,580	18.2 ft
	1.0 m	kg					*2,989	1,710	*2,046	1,129	*1,628	812	*1,066	689	5.61 m
	3.3 ft	lb					*6,590	3,770	*4,510	2,490	*3,590	1,790	*2,350	1,520	18.4 ft
	0 m	kg			*1,538	*1,538	*3,284	1,619	*2,214	1,080	*1,669	789	*1,170	703	5.46 m
	0 ft	lb			*3,390	*3,390	*7,240	3,570	*4,880	2,380	*3,680	1,740	*2,580	1,550	17.9 ft
	-1.0 m	kg	*2,087	*2,087	*2,939	*2,939	*3,134	1,592	*2,150	1,057	*1,492	785	*1,397	776	5.06 m
	-3.3 ft	lb	*4,600	*4,600	*6,480	*6,480	*6,910	3,510	*4,740	2,330	*3,290	1,730	*3,080	1,710	16.6 ft
	-2.0 m	kg	*3,461	*3,461	*3,987	3,143	*2,563	1,610	*1,710	1,070			*1,388	962	4.36 m
	-6.6 ft	lb	*7,630	*7,630	*8,790	6,930	*5,650	3,550	*3,770	2,360			*3,060	2,120	14.3 ft
	-3.0 m	kg			*1,760	*1,760	*1,057	*1,057					*984	*984	3.08 m
	-9.9 ft	lb			*3,880	*3,880	*2,330	*2,330					*2,170	*2,170	10.1 ft
Boom: 3.0 m (9'10") Arm: 1.9 m GP (6'3") Shoe: 380 mm (15") Steel track CWT: 470 kg (1,040 lb) Dozer blade: Up	5.0 m	kg											*1,324	*1,324	3.72 m
	16.5 ft	lb											*2,920	*2,920	12.2 ft
	4.0 m	kg							*1,420	1,256			*1,102	953	4.69 m
	13.2 ft	lb							*3,130	2,770			*2,430	2,100	15.4 ft
	3.0 m	kg							*1,506	1,229	1,098	848	1,016	780	5.24 m
	9.9 ft	lb							*3,320	2,710	2,420	1,870	2,240	1,720	17.2 ft
	2.0 m	kg			*3,960	3,552	*2,268	1,828	1,524	1,175	1,080	826	921	703	5.55 m
	6.6 ft	lb			*8,730	7,830	*5,000	4,030	3,360	2,590	2,380	1,820	2,030	1,550	18.2 ft
	1.0 m	kg					2,236	1,674	1,456	1,107	1,048	798	889	671	5.61 m
	3.3 ft	lb					4,930	3,690	3,210	2,440	2,310	1,760	1,960	1,480	18.4 ft
	0 m	kg			*1,538	*1,538	2,136	1,583	1,402	1,057	1,021	771	912	689	5.46 m
	0 ft	lb			*3,390	*3,390	4,710	3,490	3,090	2,330	2,250	1,700	2,010	1,520	17.9 ft
	-1.0 m	kg	*2,087	*2,087	*2,939	*2,939	2,109	1,556	1,379	1,034	1,016	767	1,002	757	5.06 m
	-3.3 ft	lb	*4,600	*4,600	*6,480	*6,480	4,650	3,430	3,040	2,280	2,240	1,690	2,210	1,670	16.6 ft
	-2.0 m	kg	*3,461	*3,461	*3,987	3,066	2,127	1,574	1,388	1,048			1,247	943	4.36 m
	-6.6 ft	lb	*7,630	*7,630	*8,790	6,760	4,690	3,470	3,060	2,310			2,750	2,080	14.3 ft
	-3.0 m	kg			*1,760	*1,760	*1,057	*1,057					*984	*984	3.08 m
	-9.9 ft	lb			*3,880	*3,880	*2,330	*2,330					*2,170	*2,170	10.1 ft

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

Equipment

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Engine

Low-emission Volvo Tier4f diesel engine	•
Two-stage air filter	•
Electric engine shutoff	•
Fuel filter and water separator	•
Alternator, 90 A	•
Water separator with heater	o
Block heater	o

Electric/Electronic control system

Safe engine start function	•
Automatic idling system	•
LED working lights;	•
Cab-mounted 2 (Front), Boom-mounted 1 (LH)	•
Extra working lights;	o
Cab-mounted 1 (Rear)	o
Boom-mounted 1 (RH)	o
Travel alarm	•
Travel alarm white noise	o
Master electrical disconnect switch	•
Rear view camera	•
Side view camera	o
Battery, 12 V / 100 Ah	•
Start motor, 12 V / 2.5 kW	•
Fuel filler pump: 35 l/min, with automatic shut-off	o
Caretrack	o
Air compressor	o
Rotating warning beacon	o

Hydraulic system

Automatic two speed travel motors	•
Hammer & shear hydraulic piping	•
Hydraulic piping:	o
Slope & rotator	o
Grapple	o
Quick coupler	o
Hose rupture valve for boom	o
Cylinder cushioning	•
Pilot control change	•
Overload warning device	o
Hydraulic fluid mineral 46	•
Hydraulic oil, ISO VG 32, 68	o
Hydraulic oil, biodegradable 46	o
Hydraulic oil, longlife oil 32, 46, 68	o

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Cab and interior

Canopy	•
ROPS cab with caretrack	o
Adjustable fabric operator seat with suspension	•
PVC operator seat with suspension	o
Delux seat (Fabric, PVC)	o
Seat belt, 2 inch retractable	•
Seat belt, 3 inch retractable	o
Control joystick	•
AM/FM stereo	•
AM/FM stereo with USB input and Bluetooth	o
Master key	•
Hour meter (non analog)	•
Heater and air-conditioner	o
Cab mounted FOG (Falling Object Guard)	o
FOPS (Falling Object Protection Structure)	o
Safety net	o

Frame

470 kg (1,040 lb) counterweight	•
Under cover	•
Dozer blade	•
Dozer blade with floating function	o

Undercarriage

Greased and sealed track link	•
380 mm (15") steel track	•
500 mm (20") steel track	o
400 mm (16") rubber track	o
400 mm (16") rubber pad	o

Digging equipment

Boom: 3.0 m (9'10"), Arm: 1.6 m (5'3")	•
Arm: 1.9 m (6'3") long	o
Linkage with lifting eye	•
Linkage	o

Service

Tool kit-daily maintenance	•
Tool kit, full scale	o
Spare parts	o

V O L V O