

SPECIFICATIONS

Engine

Low emission, water-cooled, direct injection Volvo 3-cylinder diesel engine, meeting EPA Tier 3 / EU Stage IIIA environmental regulations and equipped with optional automatic return to idling system.

Model	D1.6DCAE4
Gross power, rated (ISO 9249)	20.4 kW +/- 3% @ 2200 rpm
Power, installed (ISO 9249)	19.7 kW +/- 3% @ 2200 rpm
Displacement, total	1640 cc
Maximum torque	103.2 Nm +/- 5% @ 1320 +/- 100 rpm
Bore x stroke	88 mm x 90 mm
Gas emission (g/kwh)	CO: 5.5 / Nox + HC: 7.5 / PM: 0.3

Electrical system

Rated voltage	12 V
Battery capacity	12 V - 65 Ah
Alternator rating	12 V - 40 A
Starter motor output	12 V - 1.7 kW

Hydraulic system

Closed centre Load Sensing hydraulic system providing total independence of each movement.

Control	power-assisted hydraulic controls
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Variable displacement Load Sensing pump for all the equipment and travel circuits:

Maximum flow	62 l/m
Maximum operating pressure	25 MPa (250 bars)

Finger-tip controlled double-acting hydraulic circuit for accessories :

Maximum adjustable flow	45 l/min
Maximum operating pressure	25 MPa (250 bars)

Second hydraulic circuit for attachments (optional) :

Maximum adjustable flow	23 l/min
Maximum operating pressure	25 MPa (250 bars)

End-of-stroke cushions :

On boom ram	at the end of the rod extension
On dipper ram	at the end of the rod retraction
On offset ram	on both sides

Bucket performance

Breakout force	2459 daN
Tearout force	1802 daN

Slewing system

Turntable slewing is provided by a radial piston hydraulic motor which drives directly (without a reduction gear) a ball internal crown wheel with remote lubrication :

Slewing speed	9.5 rpm
Turntable braking	automatic multi-disc brake
Absorption of hydraulic shocks	Shockless valve

Undercarriage

The undercarriage is made up of an "X" box centre part for more rigidity and of sloping side members for a better clearance of materials. The rollers and the tensioning wheels are lubricated for life.

Bottom/top rollers per side	3/1
Track width	300 mm
Track tension	by grease piston
Blade (width x height)	1550 x 335 mm

Drivetrain

Each track is driven by an axial piston hydraulic motor equipped with two speeds and an epicyclic reduction gear.

Max. speed (low speed/ high speed)	2.6 km/h - 4.9 km/h
Max. tractive force	2550 daN

The travel control is automatically locked when the operator raises the left console.

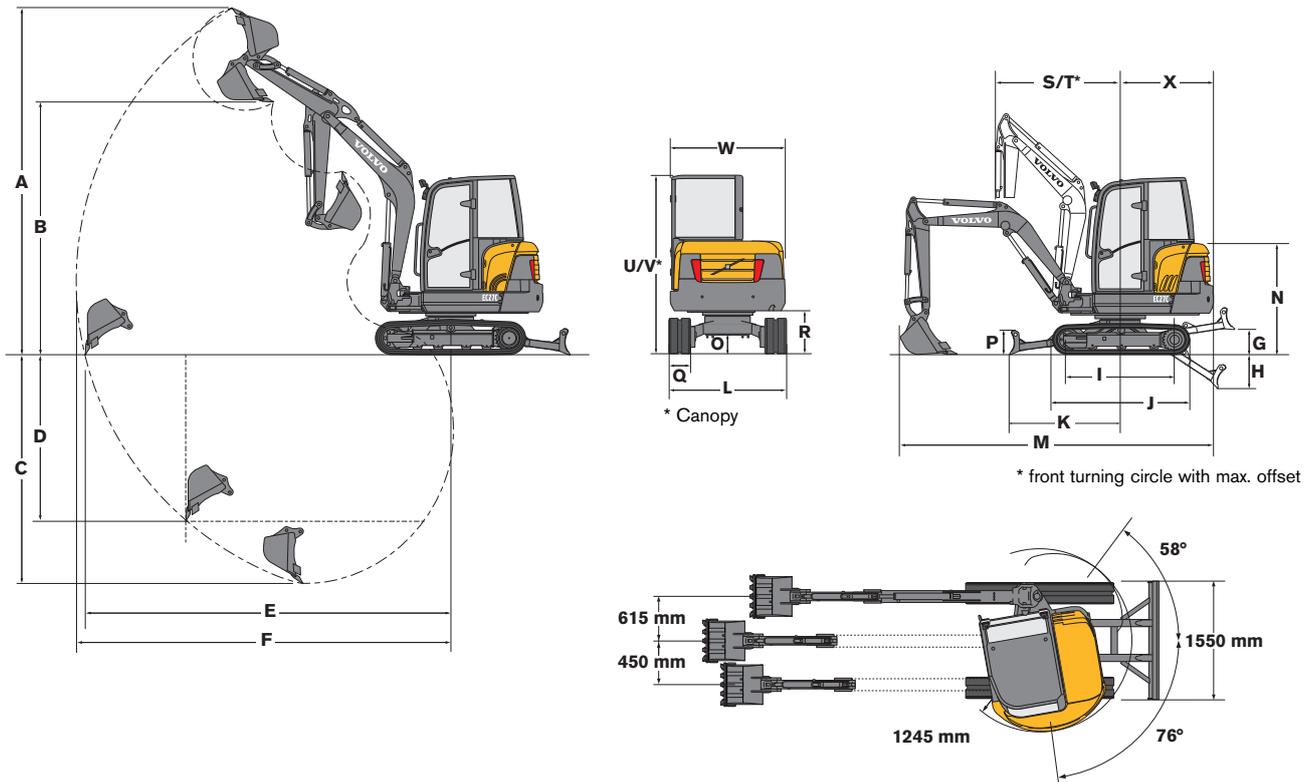
Service fill capacities

Fuel tank	59 l
Hydraulic system, total	47 l
Hydraulic tank	20 l
Engine oil	6.7 l
Cooling system	5 l

Weight

Weight and ground pressure with 300 mm rubber tracks and standard bucket :

	Weight	Ground pressure
Cab version	2790 Kg	0.29 kg/cm ²
Canopy version	2660 Kg	0.27 kg/cm ²



Dipper	A	B	C*	C	D	E	F
1200 mm	4362	3165	2802	2509	2072	4422	4553
1500 mm	4550	3343	3100	2810	2366	4717	4838

* Dig depth with the blade down

G	H	I	J	K	L	M	N	O
430	498	1440	1890	1509	1500	4406	1549	296

P	Q	R	S	T*	U	V*	W	X
335	300	563	1805	1422	2457	2425	1482	1245

mm

Lifting capacity

These capacities are given for a machine without a bucket or quick-release coupling and fitted with rubber tracks for a 360° total rotation lifted load.

The handling capacity is 75% of the tipping load or 87% of the hydraulic limit.

Caution : In accordance with standard EN 474-5, the machine must be equipped with a safety valve on the boom ram and an overload indicator (available as options) to carry out handling operations.

Outreach	(kg)	1,00 m	1,50 m	2,00 m	2,50 m	3,00 m	3,50 m	4,00 m	Max
 1200 mm	Z2	-	-	1049	732	585	470	-	408
	Z1	1387*	1111*	956	690	528	450	-	397
	Z3	2003*	1599	956	707	528	-	-	-
 1500 mm	Z2	-	-	934*	790	504*	479	392	370
	Z1	1151*	1099*	934*	504*	479	392	376	360
	Z3	1610*	1580	978	704	548	447	-	-

* hydraulic limit
kg

