

VOLVO COMPACT EXCAVATORS EC25, EC30



- **Gross Power :**
EC25 - ISO 9249 : 20 kW / 27.2 hp
EC30 - ISO 9249 : 20 kW / 27.2 hp
- **Net Power :**
EC25 - ISO 9249 : 17.1 kW / 23 hp
EC30 - ISO 9249 : 17.8 kW / 24.2 hp
- **Operating Weight :**
EC25 - 2664 - 2790 kg
EC30 - 2964 - 3151 kg
- **Bucket Capacities :**
35 - 153 l.
- **Maximum Digging Depth :**
EC25 - 2840 - 3140 mm
EC30 - 3030 - 3330 mm
- **Load Sensing Hydraulic System** for very precise controls under all load conditions.
- **Simultaneous digging movements** and **high speed** operations for faster cycle times and increased productivity.
- **ROPS, TOPS** and **FOPS** cab and canopy for a better operator safety.
- **Compact dimensions. Wrap-around counterweight** protects the rear compartment against all impacts.
- **Two travel speeds** for higher mobility on job sites.
- **Excellent serviceability** thanks to easy access to the engine and hydraulics compartments.
- **X-shaped lengthened undercarriage** for better rigidity and stability.

VOLVO

SPECIFICATIONS - EC25, EC30

Engine

Water-cooled Mitsubishi 3-cylinder diesel engine.

Model	S3L2
Gross power, rated	20 kW (27.2 hp) at 2800 r/min
Power, installed (ISO 9249)	EC25 : 17.1 kW (23 hp) at 2200 r/min EC30 : 17.8 kW (24.2 hp) at 2400 r/min
Displacement, total	1318 cc
Maximum torque (ISO 9249)	77 Nm at 1600 r/min
Bore x stroke	78 mm x 92 mm

Electrical system

Rated voltage	12 V
Battery capacity	12 V - 70 Ah
Alternator rating	12 V - 50 A
Starter motor output	12 V - 2 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/min
Maximum operating pressure	EC25 : 23 MPa (230 bars) EC30 : 25 MPa (250 bars)

Gear pump for the power assistance circuit :

Maximum flow	17.6 l/min
Maximum operating pressure	32 MPa (32 bars)

Double-acting hydraulic circuit for accessories :

Maximum flow	45 l/min
Maximum operating pressure	EC25 : 23 MPa (230 bars) EC30 : 25 MPa (250 bars)

End-of-stroke cushions

On boom ram	at the end of the rod extension
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Bucket performance

Breakout force	EC25 : 2180 daN	EC30 : 2420 daN
Tearout force	EC25 : 1490 daN	EC30 : 1720 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	10 r/min
Turntable braking	automatic multi-disc brake
Absorption of hydraulic shocks	Hydrosensor shockless valve

Undercarriage

The undercarriage is made up of an "X" box fabricated 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)	1530 x 340 mm

Drivetrain

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

Max. speed (low/high speed)	2,4~3,7 km/h / 1,5~2,3 mph
Max. tractive force	EC25 : 2530 daN EC30 : 2750 daN

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

Service fill capacities

Fuel tank	49 l
Hydraulic tank	19,5 l
Hydraulic system, total	46,5 l
Engine oil	5,2 l
Cooling system	6 l

Weight

EC25	Rubber Tracks	Steel Tracks
Ground pressure		
Cab version	0,30 kg/cm ²	0,31 kg/cm ²
Canopy version	0,29 kg/cm ²	0,30 kg/cm ²

Operating mass	Rubber Tracks	Steel Tracks
Cab version	2790 kg	2851 kg
Canopy version	2664 kg	2725 kg

Transport mass	Rubber Tracks	Steel Tracks
Cab version	2649 kg	2710 kg
Canopy version	2523 kg	2584 kg

EC30	Rubber Tracks	Steel Tracks
Ground pressure		
Cab version	0,32 kg/cm ²	0,33 kg/cm ²
Canopy version	0,31 kg/cm ²	0,32 kg/cm ²

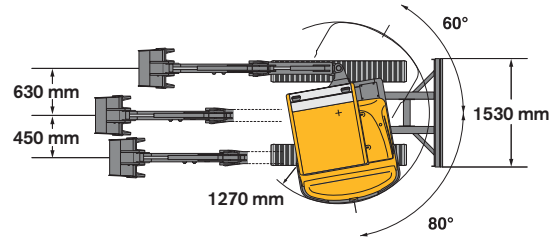
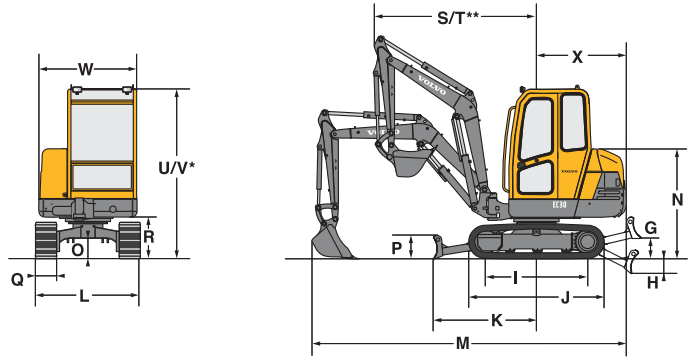
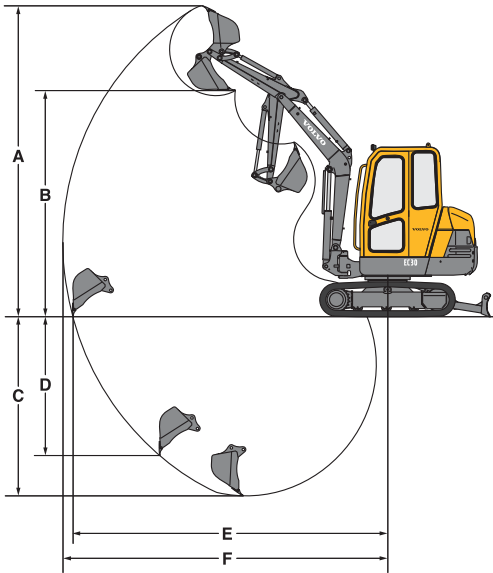
Operating mass	Rubber Tracks	Steel Tracks
Cab version	3090 kg	3151 kg
Canopy version	2964 kg	3025 kg




Noise levels

The EC25 conforms to the 2006 European Machine Directive Noise Level (2000/14/CE) of 94 dB(A) for this class of machine.

The EC30 conforms to the 2006 European Machine Directive Noise Level (2000/14/CE) of 94 dB(A) for this class of machine.

SPECIFICATIONS - EC25



Backhoe buckets			
	Width	Weight	Capacity
Excavator bucket	250 mm	40 kg	35 l
	300 mm	46 kg	37 l
	400 mm	55 kg	55 l
	450 mm	60 kg	65 l
	500 mm	66 kg	73 l
	600 mm	75 kg	91 l
	750 mm	84 kg	119 l
Ditch bucket	1300 mm	125 kg	153

Dipper	A	B	C*	C	D	E	F
1200 mm	4330	3130	2840	2520	2000	4460	4580
1500 mm	4520	3320	3140	2820	2290	4750	4870


* Dig depth with blade down.

G	H	I	J	K	L	M	N	O
390	520	1440	1910	1450	1480	4220	1550	280

P	Q	R	S	T	U	V	W	X
340	300	570	1830	1420	2390	2350	1420	1260

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		1,50 m	2,00 m	2,50 m	3,00 m	3,50 m	3,90 m	4,00 m
	1200 mm	Z2	975	710*	540	430		
		Z1	1470	905	655	515	420	360
		Z3	1490	925	665	520		
	1500 mm	Z2	885*	710*	470*	430		350
		Z1	1015*	900	650	505	410	345
		Z3	1465	910	655	510	415	

* hydraulic limit

