

VOLVO EXCAVATOR

EC160



- Engine Power: gross 80 kW (107 hp)
- Operating Weight 16,0 - 16,5 t
- Buckle 100 - 100 t
- Low emissions, turbocharged, diesel engine with direct injection
- Low-leaking hydraulic system
- Easy use
 - computerized control and steering system
 - ergonomic environment
 - low ground level
 - Steered or
- Long undercarriage for high stability
- High versatility for extra equipment / hydraulic
- High travel speed - 6.0 km/h

VOLVO



ENGINE

The engine is a low emissions, turbocharged, 4-stroke diesel engine with water cooling and direct injection.

Model	TD 4000
Cylinder	40.7 cm (16 inch)
Two-stroke cylinders	40.7 cm (16 inch)
Stroke (mm)	100 mm (4 inch)
No. of cylinders	4
Displacement (cm³)	4,000
Rated	100 kW
Stroke	100 mm



ELECTRICAL SYSTEM

High precision for monitoring of engine/hydraulic system. High capacity and well protected electrical system. Personal, dual board based electric control with clearly arranged fuses and wires. Control prepared for connecting optional equipment. Rating according to standard.

Voltage	24 V
Current	2 x 70 A
Battery capacity	100 Ah
A.C. Converter	220 V / 100 W
Alternator rating	1 kW / 10 A



SLEWING SYSTEM

The superstructure is steered by a direct steering, solid power motor with integrated slow holding brake.

Travel speed	6.0 km/h
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CAB

Operator's cab with a supporting frame structure. Large glass for great all-round visibility. The upper front panel can be pushed up into the ceiling. Sliding side window in the cab door.

Noise and vibration: A for product. Detailed and efficient testing. Prepared for Air Conditioning.

Operator's seat: Independent suspension, operator's seat and individually adjustable armrest.

Estimated water intake: 14 (liters) approved according to (European Machinery Directive).



UNDERCARRIAGE

Heavy duty low designed body. Lifetime lubricated rollers and track shoes.

Track chain size	160
No. of track shoes	2 x 40
Track width	600 mm
SA	600 (160) 600 mm
No. of bottom rollers	2 x 10
No. of guide rollers	2 x 10
SA	2 x 10



DRIVE TRAIN

Each track is powered by a two-way swing piston motor. The track tension is automatic. Suspension spring applied and hydrostatic released. Motors, bearings and planetary gears are fully enclosed in the crawler frame.

Max. track force (gross)	140 kN
Max. track force (net)	120 kN
Max. travel speed	6.0 km/h
Capacity	100 t
System pressure	20 MPa



WEIGHT AND GROUND PRESSURE

The following data refer to machines with 6.0 m boom step 6.7 m. System boom, 5.00 m dipper with spread 50, 500 kg bucket with 1,200 kg counterweight.

Machines with narrow undercarriage

Track gauge	Operating weight with boom	Operating weight with system boom	Ground pressure
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa

Machines with wide undercarriage

Track gauge	Operating weight with boom	Operating weight with system boom	Ground pressure
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa
600 mm	16,000 kg	16,500 kg	20 MPa



SERVICE REFILL CAPACITIES

Fuel tank	200 l
Hydraulic system, total	220 l
Water engine oil	5.1 l
Cooling system (incl. pump)	30 l

Repair Manual Volvo Ec

E Durkheim



Repair Manual Volvo Ec:

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