

# VOLVO EXCAVATOR

## EC160



- Engine Power: 90 kW (123 hp)
- Operating Weight: 15,0 - 16,0 t
- Hydraulic: 180 - 200 l
- Low emissions, turbocharged, diesel engine with start system
- Load sensing hydraulic system
- Case roll
- Independent control and steering system
- Operator's environment
- New sound level
- Start up
- Long undercarriage for high stability
- Highest versatility for extra equipment / hydraulics
- High travel speed - 1.6 km/h

**VOLVO**



### ENGINE

The engine is a low emissions, turbocharged, 6-cylinder diesel engine with water cooling and start system.

Model	EC 160
Volume of fuel tank	260 l (69.1 US gal)
Rated power (kW)	90 (123 hp)
Rated power (hp)	123
No. of cylinders	6
Displacement (cm³)	6,000
Max. torque	1,000 Nm
Stroke	120 mm



### ELECTRICAL SYSTEM

Microprocessor for monitoring of engine/hydraulic system. High capacity and well protected electrical system. Primary circuit board based electronic control with clearly arranged fuses and wires. Control equipment for connecting external equipment. Battery disconnect switch.

Voltage	24 V
Current	2 x 100 A
Battery capacity	150 Ah
A/C generator	20 A (100 W)
Maximum rating	1.5 kW



### SLEWING SYSTEM

The superstructure is steered by a direct acting, solid pump, drive with integrated roller bearing track.

Max. speed	1.6 km/h
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### CAB

Operator's cab with a supporting frame structure. Large glass for good all round visibility. The upper body part can be swivel up into the ceiling. Sliding side window in the cab door.

Roof and deflector: A for protection from rain and efficient heating. Protected for fire conditioning.

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

Exhausted water volume: 14.4 L/min, approved according to European Machinery Directive.



### UNDERCARRIAGE

Heavy duty two designed body. Lubrication automatic system and track shoes.

Track shoe size	300
No. of track shoes	2 x 100
Track width	1,600 mm
AT	800 / 1,600 / 1,600 mm
No. of rollers	2 x 10
No. of guide rollers	2 x 10
AT	1,600 mm



### DRIVE TRAIN

Each track is powered by a hydraulic wheel pump motor. The track system can switch to two modes: long operation and hydraulic release. Motors, brakes and planetary gears are fully enclosed in the motor frame.

Max. track force (kN)	100 kN
Max. track force (hp)	100 hp
Max. track speed	1.6 km/h
Efficiency	80 %
System pressure	20 MPa



### WEIGHT AND GROUND PRESSURE

The following data refer to machines with 1,600 mm track shoe. 1.7 m between tracks, 1,600 mm between rollers. 100, 100 kg track shoe and 1,000 kg counterweight.

Machines with narrow undercarriage

Track gauge	Operating weight with track	Operating weight with counterweight	Ground pressure
1,600 mm	15,000 kg	15,000 kg	0.04 MPa
1,600 mm	15,000 kg	15,000 kg	0.04 MPa
1,600 mm	15,000 kg	15,000 kg	0.04 MPa

Machines with wide undercarriage

Track gauge	Operating weight with track	Operating weight with counterweight	Ground pressure
1,600 mm	15,000 kg	15,000 kg	0.04 MPa
1,600 mm	15,000 kg	15,000 kg	0.04 MPa
1,600 mm	15,000 kg	15,000 kg	0.04 MPa



### SERVICE REFILL CAPACITIES

Fuel tank	260 l
Hydraulic system and	200 l
Water pump and	10 l
Working system (incl. pump)	10 l

# Volvo Ec160 Excavator Service Repair Manual

The Volvo logo is a horizontal light blue bar with a rounded right end. To the right of the bar is a red circular graphic with a white center, resembling a stylized wheel or a target.

**Volvo**

## **Volvo Ec160 Excavator Service Repair Manual:**

Volvo 850 Service and Repair Manual John S. Mead,1996 Saloon Estate inc T5 versions special limited editions Petrol 2 0 litre 1984cc 2 3 litre 2319cc 2 5 litre 2435cc      **Volvo 160 Series, 1968-75** R. M. Clarke,1998-09 Includes Engine fuel cooling systems ignition clutch gearbox overdrive automatic transmission suspension hubs steering gear brakes electrics bodywork plus buyers guide Covers models 164 164E 164TE      **Volvo 300 Series** Colin Brown,1996      **Volvo S70, V70 & C70 Service and Repair Manual** Jex RM,2014      **Volvo 740 & 760 Owner's Workshop Manual** Haynes Publishing,Matthew Minter,John S. Mead,2014 This guide provides all that the Volvo 740 or 760 owner needs to know to service and maintain their vehicle      *Service Manual Repairs and Maintenance* Volvo,      **Volvo S40 and V50 Diesel (07-13) 07 to 62** Chris Randall,2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013      *Volvo 400 Series Service and Repair Manual* A. K. Legg,1999 Hatchback Saloon Coupe inc Turbo special limited editions Petrol 1 6 litre 1596cc 1 7 litre 1721cc 1 8 litre 1794cc 2 0 litre 1998cc      *Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13* Chris Randall,2016-10      Volvo S70, C70 & V40 Service and Repair Manual Robert Jex,1999      **Volvo Service Manual Repair Instructions** ,1975      Volvo 240 Series Owners Workshop Manual Robert Phillip Maddox,Steve Churchill,2015-08 This Volvo 240 series owner s manual illustrated with drawings and photographs provides comprehensive advice on routine maintenance fault diagnosis and wiring using common tools      *Volvo 240 Series Service and Repair Manual* Steve J. Maddox,Steve Churchill,2014 This Volvo 240 series owner s manual illustrated with drawings and photographs provides comprehensive advice on routine maintenance fault diagnosis and wiring using common tools      Volvo 240 Series Service and Repair Manual Robert Maddox,Steve Churchill,1996 240 242 244 245 inc special limited editions Petrol 2 0 litre 1986cc 2 1 litre 2127cc 2 3 litre 2316cc OHC Does NOT cover OHV engines      **Volvo 400 Series** A. K. Legg,2003      **Volvo Service Manual - Repairs and Maintenance ,**      **Volvo 940 Service and Repair Manual** John S. Mead,1996      **Volvo 240 Series Service and Repair Manual** Robert Phillip Maddox,1996      **Volvo 142, 144 and 145 Owner Workshop Manual** John Harold Haynes,2012-10-01 An owners workshop manual for the Volvo 142 144 and 145      *Volvo 240 Service Manual* Bentley Publishers,2011-04 The Volvo 240 Service Manual 1983 1993 is a comprehensive source of service information and specifications for Volvo 240 and other Volvo 200 series cars built from model years 1983 through 1993 Whether you re a professional technician or a do it yourself Volvo owner this manual will help you understand maintain and repair systems on the Volvo 240 Volvo 200 series and 240 models covered in this repair manual 1983 1985 DL GL 1983 1985 Turbo 1986 1993 240 240 DL Volvo 200 series and 240 gasoline engines covered in this repair manual B21F B21F T Turbo B23F B230F

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