

VOLVO EXCAVATOR EC280



• Engine power, gross
134 kW (181 hp)

• Operating weight
27.4 - 30.2 t

• Buckets
800 - 1000 l

• Low emission, turbocharged
Volvo Inver engine with Inver
torque and Inverterstar

• Wide selector and
electronically controlled Speed
Sensing Control (SSC)

• 3 pumps in 3 circuits.
Each movement of the digging
equipment is prioritized by its
own circuit, ensuring independent
movements and good
position

• Care-Cab
- computerized monitoring
system, CareSense E
- ergonomic environment
- low sound level
- Morest air

• Rugged digging equipment
with replaceable wear bearings

• High lifting, breakout and
thermal forces for tough
digging conditions

• Long undercarriage for great
stability

• Slow circuit in all booms

• Prepared for a number of
optional items of equipment

• Low transport dimensions

• High travel speed - 5.2 km/h

VOLVO



ENGINE

The engine is a four-cylinder, turbocharged, 4 stroke diesel engine with electronic speedly controlled for maximum use. The machine can work at low engine speeds, contributing to great fuel economy. The sound level has been lowered by the daily changing of oil and coolant levels etc. is done directly from the cab.

Auto Throttle 3 range

Auto Throttle 3 range. Reduces the engine speed to an idling speed when booms and pistons are not activated.

Model	EC280
Motor	TD 28 020
Power output at	134 kW (181 hp) at 2200 rpm
Net ISO 9245 / EN 60721	140 kW (187 hp)
Power (ISO) at 2200	140 kW (187 hp)
No. of cylinders	4
Displacement, cm ³	6211
Rev.	1800 / min
Stroke	130 mm



ELECTRICAL SYSTEM

Well-protected electrical system with high capacity. Electrical distribution box based on protected circuit boards contains relays arranged in two rows. The distribution box is prepared for connection of optional equipment. Battery disconnecter is standard.

Advanced CareSense E monitoring system, offering diagnostic information on machine status and enabling the operator to seek specific information and make the most adjustments, is standard. Alerts are indicated on the display in the form of warning lights, with supplementary information in green text.

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	140 Ah
Alternator	28 V / 30 A
Maximum wiring	1.5 sq. mm



SLEW SYSTEM

The superstructure is steered by means of an axial piston motor and a planetary gearbox. Slow priority with 3 pump position. Automatic slow loading mode. The slow dig works in all set booms.

Slow, 1st to 2nd	
90°/min	0.5 s
180°/min	1.3 s
Slow speed	0.2 km/h

*Slow loader - standard equipment



SERVICE REFILL CAPACITIES

Fuel tank	800 l
Hydraulic system, total	400 l
Swing engine oil	30 l
Cooling system total, gross	44 l
Slow dig	34 l



UNDERCARRIAGE

Undercarriage with ultra heavy construction. Permanently lubricated pins and roller shoes. These sliding shoes are standard. The undercarriage is operated by means of roller pins. Undercarriage alternative replacement on working.

Track shoe size	6000
No. of track shoes	
Standard undercarriage	2 x 44
Working undercarriage	2 x 44
Track gauge	400 mm
at	400 mm (standard)
No. of roller shoes	2 x 8
No. of sprocket	2 x 2
at, and sprocket	2 x 1



DRIVE

Each track is powered by an axial piston motor. The track tensioning system is spring assisted and automatically released. Track shoes, rollers and sprockets pins are well protected in the track frame.

Max. track force	70	107 kN	1000 ¹
Max. track force	50	107 kN	1000 ¹
Max. track speed	5.2	km/h	
Gradeability	30	40.2° (100%)	
Gradeability	20	30.2° (50%)	

¹ In the standard undercarriage
on working undercarriage



CARE CAB

Easy accessible cab with wide door opening. Cooled with sound absorbent material. The cab door hinges are vibration resistant. Large glazed surfaces of around. The upper windbreak pane can be slid up into the ceiling and the lower one can be removed. Sliding side windows in the cab door. Cab heater and defroster. Pressurized and filtered air is supplied by a 3 speed fan underneath the operator's seat. The air passes through the cab heater and can be distributed via 14 nozzles. Prepared for air conditioning.

Experienced operator's seat. Fully adjustable operator's seat with leg rest, adjustable suspension and headrest. The frontal position, height and angle of the seat are adjustable, as is the lumbar support. Individually adjustable armrests and control levers.

Sound level: Approved according to Directive 90/269/EEC.

Sound power (ISO 9245)	
Mean value of $P_{A,eq}$ sound power level	107 dB(A)
Operator's position (ISO 9245)	
with the door closed	
mean value of $P_{A,eq}$ sound power level	94 dB(A)



GROUND PRESSURE

Machines with standard undercarriage and 1.300 kg track shoe, 2.200 kg roller pin, 1.300 kg sprocket and 1.300 kg undercarriage

Track gauge	Operating weight	Ground pressure
400 mm	27 000 / 28 000 ¹ kg	55.2 / 58.2 ¹ kPa
600 mm	27 000 / 28 000 ¹ kg	55.2 / 58.2 ¹ kPa
700 mm	28 000 / 28 000 ¹ kg	40.0 / 40.0 ¹ kPa
800 mm	28 000 / 28 000 ¹ kg	33.3 / 33.3 ¹ kPa
900 mm	28 000 / 28 000 ¹ kg	30.0 / 30.0 ¹ kPa

¹ Machines with working undercarriage

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