



## ENGINE

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver low emissions, superior performance and fuel efficiency. The engine uses precise, high-pressure fuel injectors, a turbocharger and intercooler, and electronic engine controls to optimize machine performance.

**Air Filter:** 3-stage, and pre-cleaner

**Automatic Idling System:** Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

### Low-Emission Engine:

Maker	VOLVO
Model	D12D
Power output at	30 r/s (1,800 rpm)
Net (ISO 9249/ SAE J1349)	235 kW (320 ps / 316 hp)
Gross (SAE J1995)	245 kW (333 ps / 329 hp)
Max. torque	1,720 N·m at 1,350 rpm
No. of cylinders	6
Displacement	12.1 l
Bore	131 mm
Stroke	150 mm



## ELECTRICAL SYSTEM

High capacity electrical system that is well-protected. Waterproof double-lock harness plugs are used to secure corrosion free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

**Contronics**, provides advanced monitoring of machine functions and important diagnostic information.

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	200 Ah
Alternator	28 V / 80 A



## SERVICE REFILL CAPACITIES

Fuel tank	685 l
Hydraulic system, total	525 l
Hydraulic tank	270 l
Engine oil	42 l
Engine coolant	60 l
Swing reduction unit	2 x 6.0 l
Travel reduction unit	2 x 5.5 l



## SWING SYSTEM

The swing system uses 2 axial piston motors, driving 2 planetary gearboxes for maximum torque. An automatic holding brake and anti-rebound valves are standard.

Max. swing speed ..... 8.5 rpm



## DRIVE

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. tractive effort	324.6 kN (33,100 kg)
Max. travel speed	2.9 / 4.8 km/h
Gradeability	35° (70%)



## UNDERCARRIAGE

The undercarriage has a robust X-shaped frame, greased and sealed track chains are standard.

### Fixed undercarriage (Std.):

No. of track pads	2 x 52
Link pitch	216 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
Shoe width, double grouser	600 mm
No. of bottom rollers	2 x 9
No. of top rollers	2 x 2

### Mechanically retractable undercarriage (Opt.):

No. of track pads	2 x 52
Link pitch	216 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
Shoe width, double grouser	600 mm
No. of bottom rollers	2 x 9
No. of top rollers	2 x 3