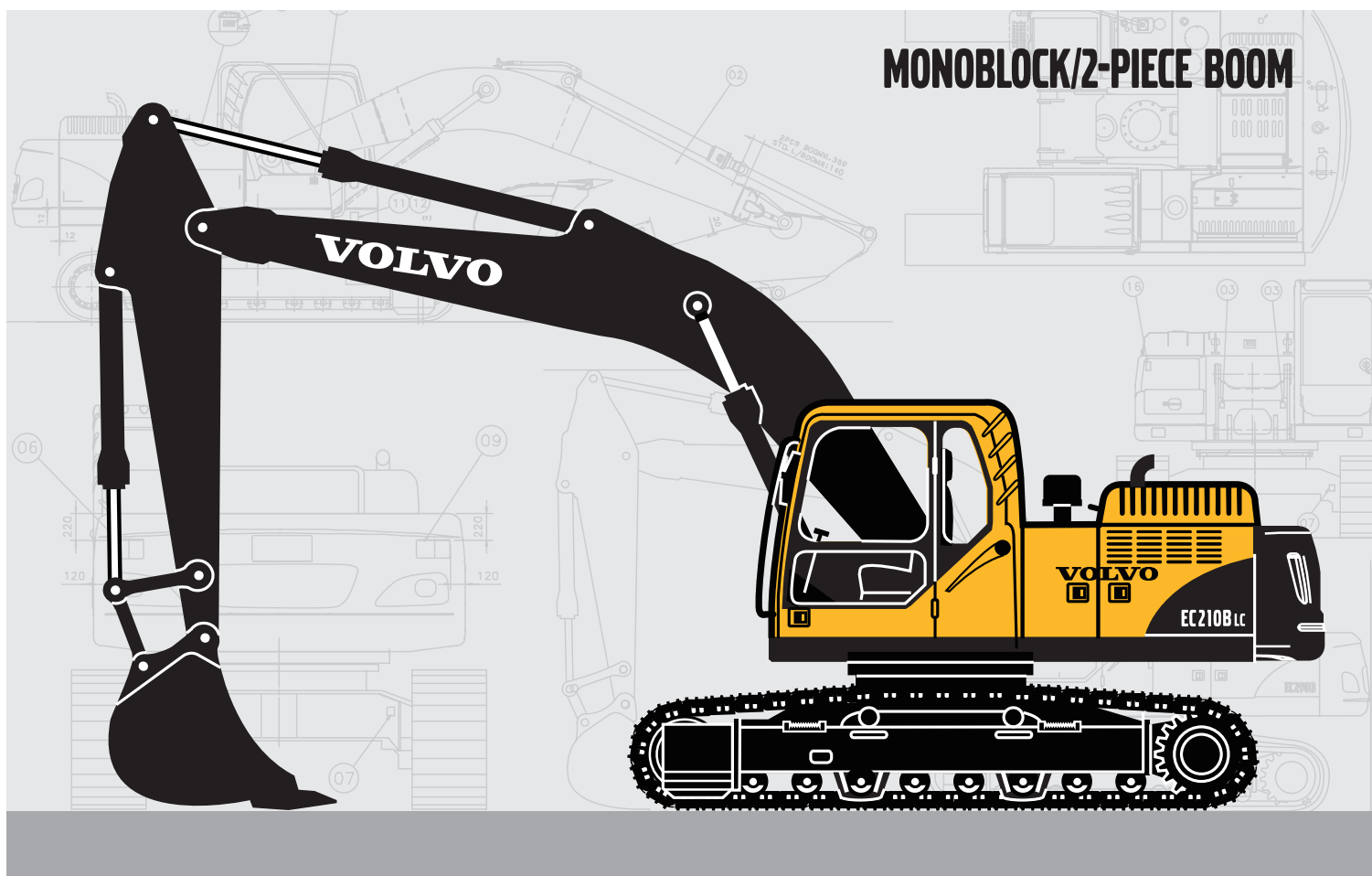


VOLVO EXCAVATOR

EC210B LC



MONOBLOCK/2-PIECE BOOM

- **Engine power, gross:**
119 kW (159 hp)
- **Operating weight:**
20.8 ~ 22.3 t
- Turbocharged VOLVO diesel engine with water cooling, direct injection and charged air cooler
- Contronics, Volvo's advanced mode selection system and electronically controlled system
- 2 variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by "Integrated Work Mode System"
- Cab
 - Ergonomic environment for easier operator use
 - Low sound level
 - Filtered air
 - Hydraulic dampening mounts
- Strong digging equipment, produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for excellent stability
- Auxiliary hydraulic valve is standard
- Prepared for a number of optional items

MORE CARE. BUILT IN.





ENGINE

The engine is a turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler. This engine has been specifically designed for excavators giving you good fuel economy, low noise emission levels, and a long service life.

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:

| | |
|-------------------|--------------------------|
| Make | VOLVO |
| Model | D6D |
| Power output at | 32 r/s (1,900 rpm) |
| Net (ISO 9249/ | |
| SAE J1349) | 107 kW (145 ps / 143 hp) |
| Gross (SAE J1995) | 119 kW (162 ps / 159 hp) |
| Max. torque | 647 N·m at 1,425 rpm |
| No. of cylinders | 6 |
| Displacement | 5.7 l |
| Bore | 98 mm |
| Stroke | 126 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.

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

| | |
|------------------|-------------|
| Voltage | 24 V |
| Batteries | 2 x 12 V |
| Battery capacity | 150 Ah |
| Alternator | 28 V / 80 A |



UNDERCARRIAGE

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

| | |
|----------------------------|--------------------------|
| No. of track pads | 2 x 49 |
| Link pitch | 190 mm |
| Shoe width, triple grouser | 600 / 700 / 800 / 900 mm |
| Shoe width, double grouser | 700 mm |
| No. of bottom rollers | 2 x 8 |
| No. of top rollers | 2 x 2 |



HYDRAULIC SYSTEM

The hydraulic system, also known as the "Integrated Work Mode System", is designed for high-productivity, high-digging capacity, high-maneuvering precision and good fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provide optimum performance.

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Power Max: All function speeds are increased.

Main pump:

| | |
|--------------|--|
| Type | 2 x variable displacement axial piston pumps |
| Maximum flow | 2 x 200 l/min |

Pilot pump:

| | |
|--------------|--------------|
| Type | Gear pump |
| Maximum flow | 1 x 19 l/min |

Hydraulic motors:

| | |
|--------|---|
| Travel | Variable displacement axial piston motors |
| Swing | Fixed displacement axial piston motor with mechanical brake |

Relief valve setting:

| | |
|----------------|---|
| Implement | 32.4 / 34.3 Mpa (330 / 350 kg/cm ²) |
| Travel circuit | 34.3 Mpa (350 kg/cm ²) |
| Swing circuit | 26.5 Mpa (270 kg/cm ²) |
| Pilot circuit | 3.9 Mpa (40 kg/cm ²) |

Hydraulic cylinders:

| | |
|--------------------------|------------------|
| Monoblock boom | 2 |
| Bore x Stroke | ø 125 x 1,235 mm |
| 1st boom of 2-piece boom | 2 |
| Bore x Stroke | ø 125 x 1,235 mm |
| 2nd boom of 2-piece boom | 1 |
| Bore x Stroke | ø 160 x 1,070 mm |
| Arm | 1 |
| Bore x Stroke | ø 135 x 1,540 mm |
| Bucket | 1 |
| Bore x Stroke | ø 120 x 1,065 mm |



SERVICE REFILL CAPACITIES

| | |
|-------------------------|-----------|
| Fuel tank | 350 l |
| Hydraulic system, total | 295 l |
| Hydraulic tank | 160 l |
| Engine oil | 25 l |
| Engine coolant | 27.5 l |
| Swing reduction unit | 6 l |
| Travel reduction unit | 2 x 5.8 l |



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 183 kN (18,700 kg)
Max. travel speed 3.2 / 5.5 km/h
Gradeability 35° (70%)



SWING SYSTEM

The superstructure is swung by the means of an axial piston motor and a planetary reduction gear. Automatic swing holding brake and anti-rebound valve are standard.

Max. swing speed 11.6 rpm



CAB

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling and the lower front glass can be removed and stored in the side door.

Integrated air conditioning and heating system:

The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 13 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt to for the operator's comfort and safety.

Sound Level:

Sound level in cab
according to ISO 6396 LpA 72 dB(A)
External sound level
according to ISO 6395
and EU Directive 2000/14/EC LwA 102 dB(A)



GROUND PRESSURE

- Long crawler machine with 5.7 m monoblock boom, 2.9 m arm, 920 l (740 kg) bucket and 3,700 kg counterweight.

| Description | Shoe width | Operating weight | Ground pressure | Overall width |
|----------------|------------|------------------|-------------------------------------|---------------|
| Triple grouser | 600 mm | 20,840 kg | 43.2 kPa (0.44 kg/cm ²) | 2,990 mm |
| | 700 mm | 21,290 kg | 37.8 kPa (0.39 kg/cm ²) | 3,090 mm |
| | 800 mm | 21,560 kg | 33.5 kPa (0.34 kg/cm ²) | 3,190 mm |
| | 900 mm | 21,840 kg | 30.2 kPa (0.31 kg/cm ²) | 3,290 mm |
| Double grouser | 700 mm | 21,590 kg | 38.4 kPa (0.39 kg/cm ²) | 3,090 mm |

- Long crawler machine with 5.7 m monoblock boom, 2.9 m arm, 920 l (740 kg) bucket and 4,200 kg counterweight.

| Description | Shoe width | Operating weight | Ground pressure | Overall width |
|----------------|------------|------------------|-------------------------------------|---------------|
| Triple grouser | 600 mm | 21,340 kg | 44.3 kPa (0.45 kg/cm ²) | 2,990 mm |
| | 700 mm | 21,790 kg | 38.7 kPa (0.39 kg/cm ²) | 3,090 mm |
| | 800 mm | 22,060 kg | 34.3 kPa (0.35 kg/cm ²) | 3,190 mm |
| | 900 mm | 22,340 kg | 30.9 kPa (0.31 kg/cm ²) | 3,290 mm |
| Double grouser | 700 mm | 22,090 kg | 39.3 kPa (0.40 kg/cm ²) | 3,090 mm |

BUCKET & ARM COMBINATION

Volvo K-GP bucket (straight side)

| Description | | | Standard bucket | Reinforced bucket | Wide bucket |
|---------------------------|------------------------------------|-------|-----------------|-------------------|-----------------|
| Bucket capacity | SAE | | 920 l | 920 l | 1,220 l |
| | CECE | | 800 l | 800 l | 1,000 l |
| Bucket width | with side cutter | | 1,235 mm | 1,235 mm | 1,510 mm |
| | without side cutter | | 1,125 mm | 1,125 mm | 1,400 mm |
| Weight (with side cutter) | | | 680 kg | 740 kg | 780 kg |
| No. of teeth | | | 5 | 5 | 6 |
| Application | | | Trenching | General purpose | Extreme service |
| 3,700 kg counterweight | Monoblock boom 5.7 m + arm options | 2.5 m | A | A | B |
| | | 2.9 m | A | A | C |
| | | 3.9 m | C | C | D |
| 4,200 kg counterweight | Monoblock boom 5.7 m + arm options | 2.5 m | A | A | A |
| | | 2.9 m | A | A | C |
| | | 3.9 m | B | B | D |

Volvo HARDOX 400[®] bucket (curved side)

| Description | | | Direct fit - GP bucket | | | Quick fit -GP bucket | |
|------------------------|------------------------------------|-------|------------------------|-----------------|-----------------|----------------------|-----------------|
| Bucket capacity | SAE | | 950 l | 1,100 l | 1,250 l | 950 l | 1,100 l |
| | CECE | | 860 l | 990 l | 1,120 l | 860 l | 990 l |
| Bucket width | | | 1,050 mm | 1,180 mm | 1,310 mm | 1,050 mm | 1,180 mm |
| Weight | | | 765 kg | 815 kg | 880 kg | 715 kg | 762 kg |
| No. of teeth | | | 4 | 4 | 5 | 4 | 4 |
| Application | | | Tough condition | Tough condition | Tough condition | Tough condition | Tough condition |
| 3,700 kg counterweight | Monoblock boom 5.7 m + arm options | 2.5 m | A | B | C | B | C |
| | | 2.9 m | A | C | D | A | C |
| | | 3.9 m | C | D | D | D | D |
| 4,200 kg counterweight | Monoblock boom 5.7 m + arm options | 2.5 m | A | A | C | A | B |
| | | 2.9 m | A | C | C | A | C |
| | | 3.9 m | C | D | D | C | D |

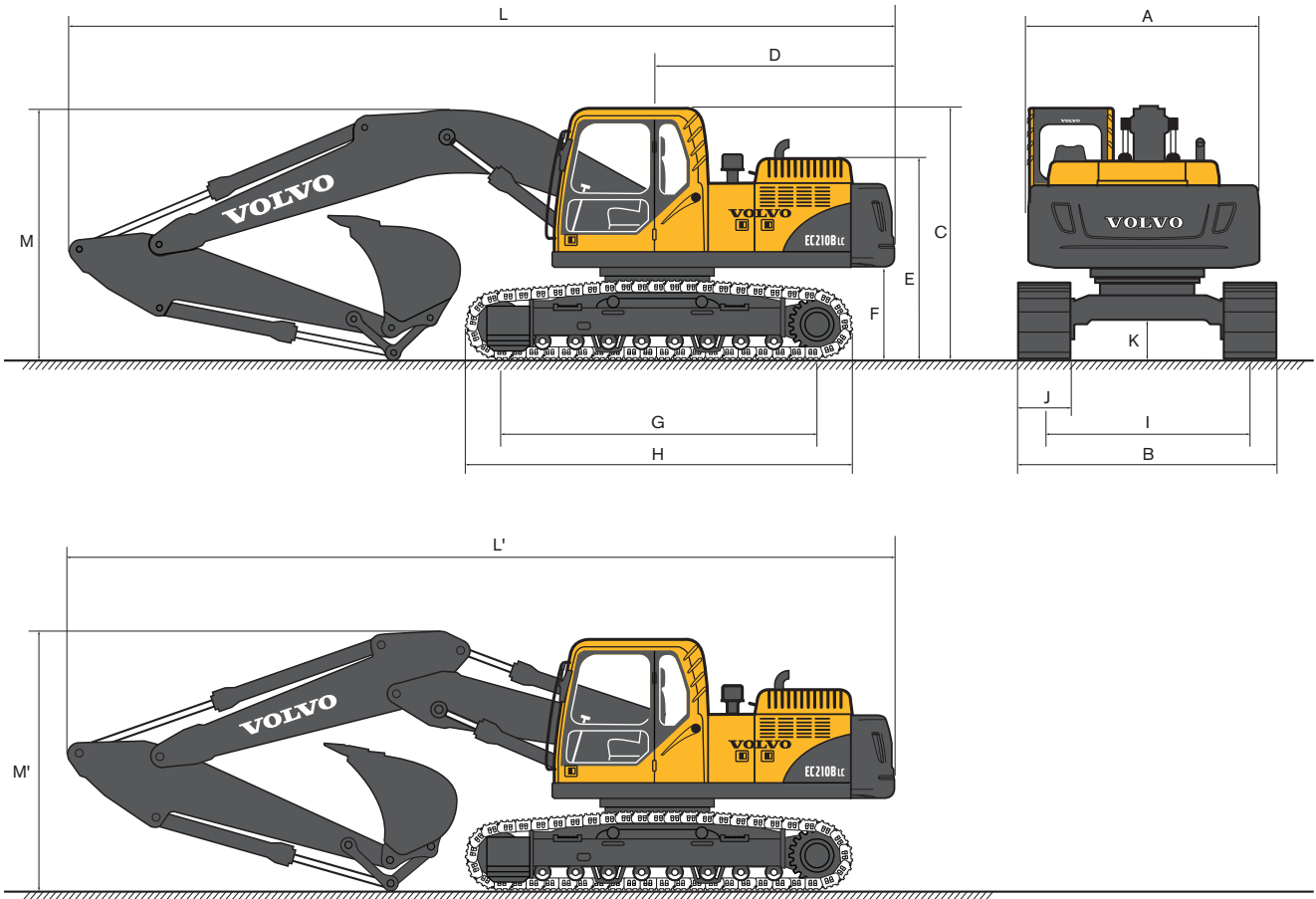
A: Applicable for general purpose up to 2,000 kg/m³

B: Applicable for general purpose up to 1,800 kg/m³

C: Applicable for general purpose up to 1,500 kg/m³

D: Applicable for general purpose up to 1,200 kg/m³

DIMENSIONS



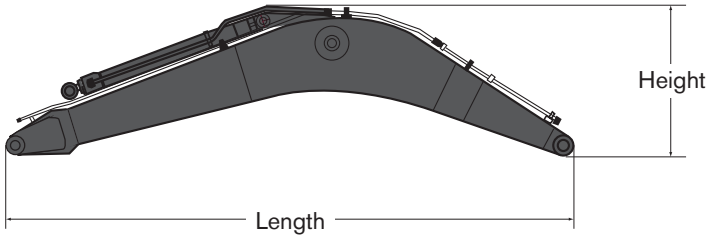
• Long crawler machine

| Description | Unit | 5.7 m Boom | | |
|------------------------------------|------|------------|-----------|-----------|
| | | 2.5 m Arm | 2.9 m Arm | 3.9 m Arm |
| A. Overall width of superstructure | mm | 2,700 | 2,700 | 2,700 |
| B. Overall width | mm | 2,990 | 2,990 | 2,990 |
| C. Overall height of cab | mm | 2,930 | 2,930 | 2,930 |
| D. Tail swing radius | mm | 2,850 | 2,850 | 2,850 |
| E. Overall height of engine hood | mm | 2,330 | 2,330 | 2,330 |
| F. Counterweight clearance * | mm | 1,025 | 1,025 | 1,025 |
| G. Tumbler length | mm | 3,660 | 3,660 | 3,660 |
| H. Track length | mm | 4,460 | 4,460 | 4,460 |
| I. Track gauge | mm | 2,390 | 2,390 | 2,390 |
| J. Shoe width | mm | 600 | 600 | 600 |
| K. Min. ground clearance * | mm | 460 | 460 | 460 |
| L. Overall length | mm | 9,750 | 9,690 | 9,670 |
| L'. Overall length | mm | 9,510 | 9,470 | 9,370 |
| M. Overall height of boom | mm | 3,120 | 3,000 | 3,550 |
| M'. Overall height of boom | mm | 3,040 | 2,960 | 3,630 |

* Without shoe grouser

DIMENSIONS

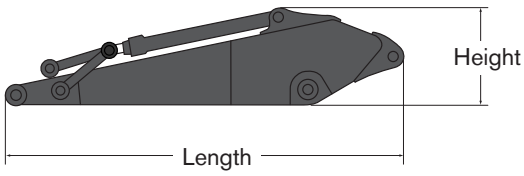
• **Boom**



| Description | 5.7 m | 5.7 m HD | 5.57 m 2-piece |
|-------------|----------|----------|----------------|
| Length | 5,910 mm | 5,910 mm | 5,780 mm |
| Height | 1,585 mm | 1,585 mm | 1,570 mm |
| Width | 670 mm | 670 mm | 670 mm |
| Weight | 1,785 kg | 1,890 kg | 2,090 kg |

* Includes cylinder, pin and piping

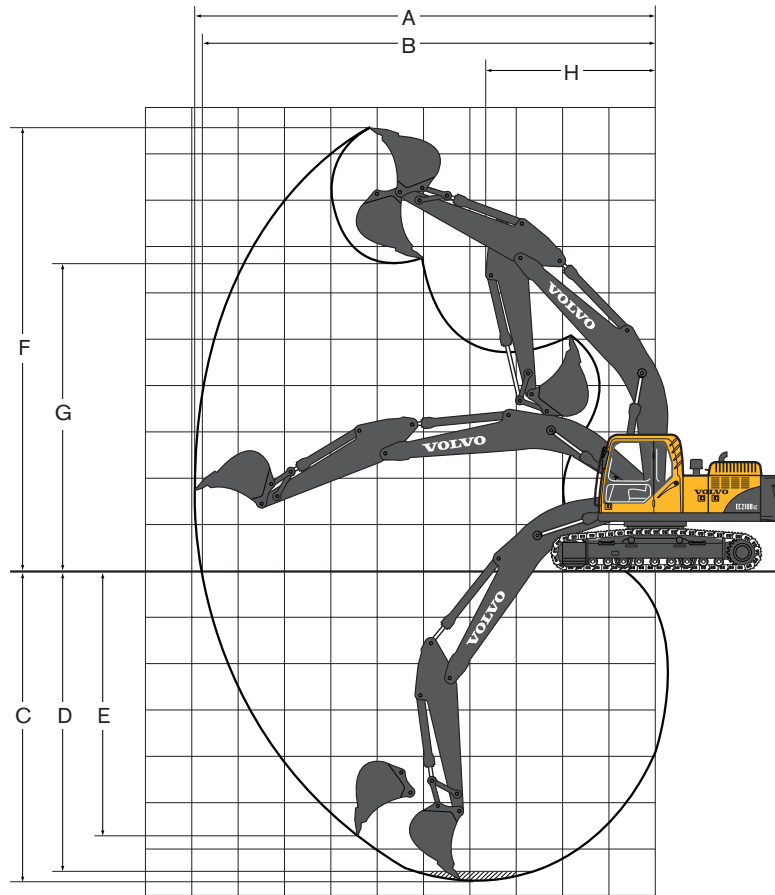
• **Arm**



| Description | 2.5 m | 2.9 m | 2.9 m HD | 3.9 m |
|-------------|----------|----------|----------|----------|
| Length | 3,530 mm | 3,900 mm | 3,900 mm | 4,940 mm |
| Height | 880 mm | 880 mm | 880 mm | 820 mm |
| Width | 440 mm | 440 mm | 440 mm | 440 mm |
| Weight | 975 kg | 1,000 kg | 1,085 kg | 1,135 kg |

* Includes cylinder, piping and linkage

WORKING RANGES & DIGGING FORCES



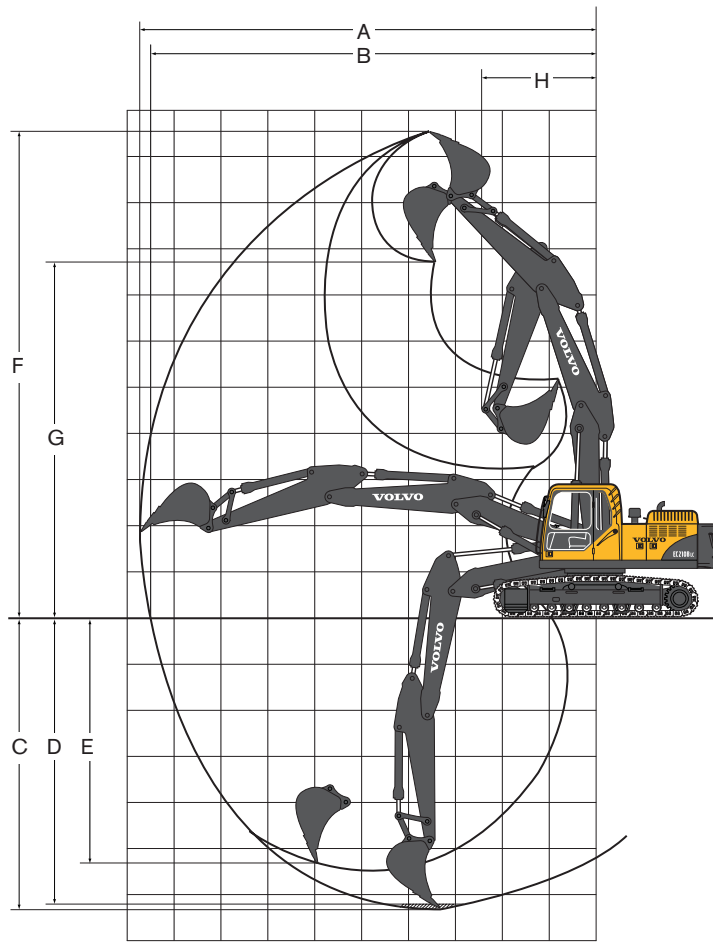
• 5.7 m monoblock boom with direct fit bucket

| Description | Unit | 5.7 m Boom | | |
|-------------------------------------|------|------------|-----------|-----------|
| | | 2.5 m Arm | 2.9 m Arm | 3.9 m Arm |
| A. Max. digging reach | mm | 9,540 | 9,940 | 10,760 |
| B. Max. digging reach on ground | mm | 9,350 | 9,750 | 10,610 |
| C. Max. digging depth | mm | 6,330 | 6,730 | 7,730 |
| D. Max. digging depth (8° level) | mm | 6,110 | 6,510 | 7,550 |
| E. Max. vertical wall digging depth | mm | 5,520 | 5,830 | 6,570 |
| F. Max. cutting height | mm | 9,220 | 9,450 | 9,620 |
| G. Max. dumping height | mm | 6,430 | 6,650 | 6,850 |
| H. Min. front swing radius | mm | 3,670 | 3,650 | 3,640 |

• Digging forces with direct fit bucket

| Description | | Unit | 5.7 m Boom | | |
|---|-----|------|-----------------|-----------------|-----------------|
| | | | 2.5 m Arm | 2.9 m Arm | 3.9 m Arm |
| Bucket radius | | mm | 1,470 | 1,470 | 1,470 |
| Breakout force – bucket (Normal / Power boost) | SAE | kN | 122.6 / 130.4 | 122.6 / 130.4 | 122.6 / 130.4 |
| | | kg | 12,500 / 13,300 | 12,500 / 13,300 | 12,500 / 13,300 |
| Breakout force – bucket (Normal / Power boost) | ISO | kN | 136.3 / 147.1 | 136.3 / 147.1 | 136.3 / 147.1 |
| | | kg | 13,900 / 15,000 | 13,900 / 15,000 | 13,900 / 15,000 |
| Tearout force – arm (Normal / Power boost) | SAE | kN | 110.4 / 117.2 | 95.6 / 103.0 | 80.2 / 86.3 |
| | | kg | 11,260 / 11,950 | 9,750 / 10,500 | 8,180 / 8,800 |
| Tearout force – arm (Normal / Power boost) | ISO | kN | 113.7 / 120.7 | 98.2 / 104.9 | 81.9 / 88.3 |
| | | kg | 11,600 / 12,310 | 10,010 / 10,700 | 8,350 / 9,000 |
| Rotation angle, bucket | | deg | 175 | 175 | 174 |

WORKING RANGES & DIGGING FORCES



• 5.57 m 2-piece boom with direct fit bucket

| Description | Unit | 5.57 m 2-piece boom | | |
|-------------------------------------|------|---------------------|-----------|-----------|
| | | 2.5 m Arm | 2.9 m Arm | 3.9 m Arm |
| A. Max. digging reach | mm | 9,450 | 9,840 | 10,680 |
| B. Max. digging reach on ground | mm | 9,280 | 9,680 | 10,530 |
| C. Max. digging depth | mm | 5,930 | 6,300 | 7,240 |
| D. Max. digging depth (8' level) | mm | 5,820 | 6,200 | 7,150 |
| E. Max. vertical wall digging depth | mm | 4,910 | 5,320 | 6,180 |
| F. Max. cutting height | mm | 10,390 | 10,710 | 11,180 |
| G. Max. dumping height | mm | 7,470 | 7,780 | 8,270 |
| H. Min. front swing radius | mm | 2,740 | 2,440 | 2,840 |

• Digging forces with direct fit bucket

| Description | Unit | 5.57 m 2-piece boom | | | |
|---|------|---------------------|-----------------|-----------------|-----------------|
| | | 2.5 m Arm | 2.9 m Arm | 3.9 m Arm | |
| Bucket radius | mm | 1,470 | 1,470 | 1,470 | |
| Breakout force – bucket (Normal / Power boost) | SAE | kN | 122.6 / 130.4 | 122.6 / 130.4 | 122.6 / 130.4 |
| | | kg | 12,500 / 13,300 | 12,500 / 13,300 | 12,500 / 13,300 |
| Breakout force – bucket (Normal / Power boost) | ISO | kN | 136.3 / 147.1 | 136.3 / 147.1 | 136.3 / 147.1 |
| | | kg | 13,900 / 15,000 | 13,900 / 15,000 | 13,900 / 15,000 |
| Tearout force – arm (Normal / Power boost) | SAE | kN | 110.4 / 117.2 | 95.6 / 103.0 | 80.2 / 86.3 |
| | | kg | 11,260 / 11,950 | 9,750 / 10,500 | 8,180 / 8,800 |
| Tearout force – arm (Normal / Power boost) | ISO | kN | 113.7 / 120.7 | 98.2 / 104.9 | 81.9 / 88.3 |
| | | kg | 11,600 / 12,310 | 10,010 / 10,700 | 8,350 / 9,000 |
| Rotation angle, bucket | deg | 175 | 175 | 174 | |

LIFTING CAPACITY (At the arm and without bucket)

Note: For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

EC210B LC
















| | Lifting hook related to ground level | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | Max. reach | | |
|---|--------------------------------------|---------|---------|---------|--------|--------|--------|--------|-------|--------|-------|------------|--------|---------|
| | | | | | | | | | | | | | | Max. mm |
| with 600 mm shoe 3,700 kg CWT monoblock boom 5.7 m + arm 2.5 m | 6.0 m kg | | | | | *5,190 | 4,990 | | | | | *5,280 | *3,970 | 6,850 |
| | 4.5 m kg | | | *6,610 | *6,610 | *5,680 | 4,830 | 5,230 | 3,370 | | | 5,120 | 3,290 | 7,590 |
| | 3.0 m kg | | | *8,500 | 6,980 | *6,510 | 4,590 | 5,130 | 3,280 | | | 4,650 | 2,970 | 7,980 |
| | 1.5 m kg | | | *10,140 | 6,510 | 7,020 | 4,360 | 5,020 | 3,170 | | | 4,490 | 2,850 | 8,070 |
| | 0 m kg | | | 10,840 | 6,290 | 6,850 | 4,210 | 4,930 | 3,100 | | | 4,600 | 2,900 | 7,870 |
| | -1.5 m kg | *9,840 | *9,840 | 10,800 | 6,260 | 6,790 | 4,160 | | | | | 5,060 | 3,170 | 7,360 |
| | -3.0 m kg | *13,870 | 12,450 | *9,930 | 6,350 | 6,870 | 4,230 | | | | | 6,170 | 3,840 | 6,460 |
| | -4.5 m kg | *10,700 | *10,700 | *7,650 | 6,630 | | | | | | | *6,720 | 5,770 | 4,960 |
| with 600 mm shoe 3,700 kg CWT monoblock boom 5.7 m + arm 2.9 m | 6.0 m kg | | | | | *4,800 | *4,800 | | | | | *4,160 | 3,620 | 7,300 |
| | 4.5 m kg | | | | | *5,340 | 4,900 | *5,040 | 3,420 | | | *4,110 | 3,060 | 8,000 |
| | 3.0 m kg | | | *7,950 | 7,130 | *6,210 | 4,650 | 5,170 | 3,320 | | | *4,220 | 2,780 | 8,370 |
| | 1.5 m kg | | | *9,750 | 6,600 | 7,070 | 4,400 | 5,040 | 3,190 | | | 4,200 | 2,670 | 8,460 |
| | 0 m kg | *4,920 | *4,920 | *10,740 | 6,320 | 6,870 | 4,220 | 4,940 | 3,100 | | | 4,290 | 2,710 | 8,270 |
| | -1.5 m kg | *9,380 | *9,380 | 10,780 | 6,240 | 6,780 | 4,150 | 4,900 | 3,070 | | | 4,660 | 2,930 | 7,780 |
| | -3.0 m kg | *14,700 | 12,320 | *10,260 | 6,300 | 6,820 | 4,180 | | | | | 5,530 | 3,460 | 6,940 |
| | -4.5 m kg | *11,950 | *11,950 | *8,490 | 6,520 | | | | | | | *6,490 | 4,820 | 5,570 |
| with 600 mm shoe 3,700 kg CWT monoblock boom 5.7 m + arm 3.9 m | 6.0 m kg | | | | | | | *4,010 | 3,600 | | | *3,230 | 3,010 | 8,250 |
| | 4.5 m kg | | | | | | | *4,270 | 3,510 | | | *3,220 | 2,610 | 8,870 |
| | 3.0 m kg | | | *6,410 | *6,410 | *5,300 | 4,780 | *4,750 | 3,370 | 3,900 | 2,490 | *3,320 | 2,390 | 9,210 |
| | 1.5 m kg | *8,150 | *8,150 | *8,470 | 6,810 | *6,350 | 4,470 | 5,070 | 3,210 | 3,820 | 2,410 | *3,530 | 2,290 | 9,280 |
| | 0 m kg | *6,940 | *6,940 | *9,990 | 6,350 | 6,880 | 4,220 | 4,920 | 3,070 | 3,750 | 2,350 | 3,680 | 2,300 | 9,110 |
| | -1.5 m kg | *9,110 | *9,110 | 10,680 | 6,140 | 6,710 | 4,070 | 4,820 | 2,980 | | | 3,910 | 2,440 | 8,680 |
| | -3.0 m kg | *12,770 | 11,880 | 10,640 | 6,100 | 6,670 | 4,030 | 4,810 | 2,970 | | | 4,450 | 2,770 | 7,930 |
| | -4.5 m kg | *14,180 | *12,160 | *9,720 | 6,210 | 6,760 | 4,110 | | | | | 5,660 | 3,500 | 6,770 |
| with 600 mm shoe 4,200 kg CWT monoblock boom 5.7 m + arm 2.5 m | 6.0 m kg | | | | | *5,190 | *5,190 | | | | | *5,280 | 4,220 | 6,850 |
| | 4.5 m kg | | | *6,610 | *6,610 | *5,680 | 5,130 | *5,360 | 3,590 | | | *5,360 | 3,520 | 7,590 |
| | 3.0 m kg | | | *8,500 | 7,420 | *6,510 | 4,890 | 5,420 | 3,500 | | | 4,910 | 3,180 | 7,980 |
| | 1.5 m kg | | | *10,140 | 6,940 | 7,350 | 4,660 | 5,300 | 3,400 | | | 4,750 | 3,050 | 8,070 |
| | 0 m kg | | | *10,880 | 6,730 | 7,230 | 4,500 | 5,220 | 3,320 | | | 4,870 | 3,110 | 7,870 |
| | -1.5 m kg | *9,840 | *9,840 | *10,800 | 6,690 | 7,180 | 4,460 | | | | | 5,350 | 3,400 | 7,360 |
| | -3.0 m kg | *13,870 | 13,270 | *9,930 | 6,790 | 7,260 | 4,520 | | | | | *6,520 | 4,110 | 6,460 |
| | -4.5 m kg | *10,700 | *10,700 | *7,650 | 7,070 | | | | | | | *6,720 | 6,150 | 4,960 |
| with 600 mm shoe 4,200 kg CWT monoblock boom 5.7 m + arm 2.9 m | 6.0 m kg | | | | | *4,800 | *4,800 | | | | | *4,160 | 3,850 | 7,300 |
| | 4.5 m kg | | | | | *5,340 | 5,200 | *5,040 | 3,650 | | | *4,110 | 3,270 | 8,000 |
| | 3.0 m kg | | | *7,950 | 7,570 | *6,210 | 4,950 | *5,420 | 3,540 | | | *4,220 | 2,970 | 8,370 |
| | 1.5 m kg | | | *9,750 | 7,040 | *7,120 | 4,700 | 5,320 | 3,420 | | | 4,440 | 2,860 | 8,460 |
| | 0 m kg | *4,920 | *4,920 | *10,740 | 6,760 | 7,260 | 4,520 | 5,220 | 3,330 | | | 4,540 | 2,910 | 8,270 |
| | -1.5 m kg | *9,380 | *9,380 | *10,890 | 6,680 | 7,170 | 4,450 | 5,190 | 3,300 | | | 4,930 | 3,140 | 7,780 |
| | -3.0 m kg | *14,700 | 13,140 | *10,260 | 6,740 | 7,210 | 4,480 | | | | | 5,850 | 3,710 | 6,940 |
| | -4.5 m kg | *11,950 | *11,950 | *8,490 | 6,950 | | | | | | | *6,490 | 5,150 | 5,570 |
| with 600 mm shoe 4,200 kg CWT monoblock boom 5.7 m + arm 3.9 m | 6.0 m kg | | | | | | | *4,010 | 3,820 | | | *3,230 | 3,210 | 8,250 |
| | 4.5 m kg | | | | | | | *4,270 | 3,740 | | | *3,220 | 2,790 | 8,870 |
| | 3.0 m kg | | | *6,410 | *6,410 | *5,300 | 5,080 | *4,750 | 3,600 | *3,980 | 2,670 | *3,320 | 2,560 | 9,210 |
| | 1.5 m kg | *8,150 | *8,150 | *8,470 | 7,250 | *6,350 | 4,770 | *5,320 | 3,440 | 4,040 | 2,590 | *3,530 | 2,460 | 9,280 |
| | 0 m kg | *6,940 | *6,940 | *9,990 | 6,790 | *7,240 | 4,520 | 5,200 | 3,300 | 3,970 | 2,530 | 3,900 | 2,480 | 9,110 |
| | -1.5 m kg | *9,110 | *9,110 | *10,700 | 6,570 | 7,100 | 4,370 | 5,100 | 3,210 | | | 4,150 | 2,630 | 8,680 |
| | -3.0 m kg | *12,770 | 12,700 | *10,640 | 6,540 | 7,050 | 4,330 | 5,090 | 3,200 | | | 4,710 | 2,980 | 7,930 |
| | -4.5 m kg | *14,180 | 12,980 | *9,720 | 6,650 | *7,120 | 4,410 | | | | | 5,990 | 3,760 | 6,770 |

- Notes:
- Machine in "Fine Mode-F" (Power Boost), for lifting capacities.
 - The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
 - Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 - Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY (At the arm and without bucket)

Note: For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

EC210B LC

|  Across undercarriage  Along undercarriage | Lifting hook related to ground level | 3.0 m | | 4.5 m | | 6.0 m | | 7.5 m | | 9.0 m | | Max. reach | | | |
|---|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | |  |  |  |  |  |  |  |  |  |  |  |  |  | Max. mm |
| with 600 mm shoe 4,200 kg CWT 2-piece boom 5.57 m + arm 2.5 m | 6.0 m kg | | | *7,590 | *7,590 | *6,670 | 5,260 | | | | | | *5,660 | 4,300 | 6,740 |
| | 4.5 m kg | *12,070 | *12,070 | *8,580 | 8,020 | *6,990 | 5,100 | | | | | | 5,500 | 3,550 | 7,490 |
| | 3.0 m kg | | | *9,960 | 7,410 | *7,530 | 4,860 | 5,400 | 3,470 | | | | 4,980 | 3,200 | 7,880 |
| | 1.5 m kg | | | *10,850 | 6,900 | 7,400 | 4,620 | 5,280 | 3,360 | | | | 4,820 | 3,070 | 7,970 |
| | 0 m kg | | | *10,690 | 6,670 | 7,220 | 4,460 | 5,210 | 3,290 | | | | 4,950 | 3,140 | 7,770 |
| | -1.5 m kg | *10,430 | *10,430 | *9,580 | 6,630 | 7,170 | 4,420 | | | | | | *5,420 | 3,440 | 7,250 |
| | -3.0 m kg | | | *7,450 | 6,750 | *5,400 | 4,510 | | | | | | *4,770 | 4,210 | 6,340 |
| | -4.5 m kg | | | | | | | | | | | | | | |
| with 600 mm shoe 4,200 kg CWT 2-piece boom 5.57 m + arm 2.9 m | 6.0 m kg | | | *6,440 | *6,440 | *6,350 | 5,350 | | | | | | *4,140 | 3,910 | 7,200 |
| | 4.5 m kg | *8,270 | *8,270 | *8,130 | *8,130 | *6,730 | 5,190 | 5,560 | 3,610 | | | | *4,050 | 3,290 | 7,900 |
| | 3.0 m kg | | | *9,570 | 7,570 | *7,330 | 4,930 | 5,450 | 3,510 | | | | *4,140 | 2,990 | 8,280 |
| | 1.5 m kg | | | *10,690 | 7,010 | 7,450 | 4,660 | 5,310 | 3,380 | | | | *4,400 | 2,870 | 8,360 |
| | 0 m kg | *5,400 | *5,400 | *10,830 | 6,700 | 7,240 | 4,480 | 5,210 | 3,290 | | | | 4,610 | 2,920 | 8,170 |
| | -1.5 m kg | *9,860 | *9,860 | *9,990 | 6,620 | 7,160 | 4,400 | 5,190 | 3,270 | | | | 5,020 | 3,170 | 7,680 |
| | -3.0 m kg | *10,440 | *10,440 | *8,170 | 6,690 | *6,060 | 4,450 | | | | | | *4,740 | 3,770 | 6,820 |
| | -4.5 m kg | | | | | | | | | | | | | | |
| with 600 mm shoe 4,200 kg CWT 2-piece boom 5.57 m + arm 3.9 m | 6.0 m kg | | | | | *4,850 | *4,850 | *4,350 | 3,800 | | | | *3,210 | *3,210 | 8,160 |
| | 4.5 m kg | | | *5,070 | *5,070 | *5,430 | 5,370 | *5,090 | 3,720 | | | | *3,180 | 2,800 | 8,790 |
| | 3.0 m kg | *12,130 | *12,130 | *8,360 | 7,940 | *6,650 | 5,070 | 5,530 | 3,570 | *3,710 | 2,630 | | *3,260 | 2,570 | 9,120 |
| | 1.5 m kg | *9,430 | *9,430 | *9,890 | 7,240 | *7,370 | 4,750 | 5,350 | 3,410 | 4,030 | 2,560 | | *3,460 | 2,470 | 9,200 |
| | 0 m kg | *7,400 | *7,400 | *10,700 | 6,750 | 7,270 | 4,480 | 5,190 | 3,260 | 3,960 | 2,500 | | *3,810 | 2,480 | 9,030 |
| | -1.5 m kg | *9,530 | *9,530 | *10,530 | 6,510 | 7,090 | 4,330 | 5,100 | 3,180 | | | | 4,200 | 2,640 | 8,590 |
| | -3.0 m kg | *13,220 | 12,600 | *9,420 | 6,480 | *7,000 | 4,290 | 5,100 | 3,180 | | | | *4,660 | 3,010 | 7,840 |
| | -4.5 m kg | | | *7,170 | 6,620 | *5,160 | 4,390 | | | | | | *4,170 | 3,830 | 6,660 |

- Notes:
1. Machine in "Fine Mode-F" (Power Boost), for lifting capacities.
 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler
Air filter with indicator, and pre-cleaner
Air intake heater
Electric engine shut-off
Fuel filter and water separator
Coolant filter
Alternator, 80 A

Electric / Electronic control system

Contronics
- Advanced mode control system
- Self-diagnostic system
Machine status indication
Engine speed sensing power control
"Power Max" mode system
Automatic idling system
One-touch power boost
Safety stop/start function
Adjustable monitor
Engine restart prevention circuit

High capacity halogen lights:

- Frame-mounted 2
 - Boom-mounted 1
- Batteries, 2 x 12 V / 150 Ah
Start motor, 24 V / 4.8 kW

Hydraulic system

Automatic hydraulic system
- Summation system
- Boom priority
- Arm priority
- Swing priority
Boom and arm regeneration valves
Swing anti-rebound valves
Boom and arm holding valves
Multi-stage filtering system
Cylinder cushions
Cylinder contamination seals
Auxiliary hydraulic valve
Straight travel circuit
Automatic two-speed travel motors

Superstructure

Access way with handrail
Tool storage area
Punched metal anti-slip plates

Cab and interior

Hydraulic dampening cab mounts
Adjustable operator seat and joystick control console
Flexible antenna
Hydraulic safety lock lever
Cab, all-weather sound suppressed, includes:
- Ashtray
- Cup holder
- Lighter
- Tinted glass
- Door locks
- Floor mat
- Horn
- Large storage area
- Pull-up type front window
- Removable lower windshield
- Seat belt
- Safety glass
- Windshield wiper with intermittent feature
- Stereo cassette radio
- Sun screens, front, roof, rear
- Sunlight protection, roof (steel)
Master key

Undercarriage

Hydraulic track adjusters
Greased and sealed track chain
Track guards

OPTIONAL EQUIPMENT

Engine

Block heater, 120 V / 240 V
Fuel filler pump: 35 l/min,
50 l/min with automatic shut-off
Oil bath pre-cleaner
Diesel coolant heater, 10kW
Tropical cooling kit

Electric

Extra lamps:
- Cab-mounted 3, (front 2, rear 1)
- Boom-mounted 1
- Counterweight-mounted 1
Rotating warning beacon
Travel alarm

Hydraulic system

Hose rupture valve: boom, arm
Overload warning device
Hydraulic piping
- Hammer & shears:
1 pump flow
2 pump flow
Pump flow control for hammer & shears
Additional return filter
Extra piping for slope & rotator
1 switch control
2 switch control
Pedal control
- Slope & rotator
- Grapple
- Oil leak (drain) line
- Quick fit piping
Volvo hydraulic quick-fit (S1)
Hydraulic oil, ISO VG 32
Hydraulic oil, ISO VG 46
Hydraulic oil, ISO VG 68
Hydraulic oil, biodegradable 32
Hydraulic oil, biodegradable 46
Pilot control pattern change
Boom floating function
Pilot-operated wrist control joysticks
- Semi-long joysticks
- Control joystick, with 3 switches each
- Control joystick, with 5 switches each

Cab and interior

Fabric seat
Fabric seat, with heater
Fabric seat, with heater and air suspension
Air-conditioner without heater, manual
Heater & air-conditioner, automatic
AM/FM stereo with CD player and MP3 input
Cab mounted falling object guard (FOG)
Cab mounted falling object protective structures (FOPS)
Rain shield, front
Safety screen for front window
Lower wiper
Anti-vandalism kit assembly preparation
Anti-vandalism kit
Specific key

Track shoes

Track shoes 600 / 700 / 800 / 900 mm with triple grousers
Track shoes 700 mm with double grouser

Superstructure

Counterweight, 3,700 kg / 4,200 kg
Undercover (2.3/ HD 4.5 mm)

Digging equipment

Boom: 5.7 m monoblock
5.7 m HD
5.57 m 2-piece
Arm: 2.5 / 2.9 / 3.9 m
2.9 m HD
Extended greasing bushing

Undercarriage

Full track guards
Undercover (4.5 / HD 10 mm)

Service

Hand lamp
Tool kit, full scale
Tool kit, daily maintenance
Spare parts

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.

VOLVO

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