Volvo Construction Equipment
Building Tomorrow

# EW60E

Volvo Excavators 5.55-6.96 t 47.3 kW

# Space and comfort to work

The EW60E features an innovative cab design for a comfortable and more productive operator environment. Well-designed ergonomics and a modern LCD display give you perfect control in all operations. Plenty of storage space is available for personal belongings.

**Operator convenience**

Ample storage space is available for operator comfort and convenience. A phone tray, two power sockets, cup holder and three other large storage areas makes the Volvo cab a more convenient working environment.

**Operator visibility**

All-round visibility is enhanced by thin pillars, large glazed area and a large wiper blade. The rear view camera secures a better view for perfect and safe control through the 7” color LCD display. This ensures there are no blind spots even in the most confined working areas.

**Work in comfort**

The comfortable and adjustable seat makes it easier for the operator to work hard all day and feel less tired by the end of it. The cab’s air conditioning is efficient and in automatic mode, the temperature remains at a set level. Six adjustable vents allow for optimal airflow in the cab.

**Ease of control**

Control your machine with minimal effort in order to get more done in less time. The keypad groups all controls on the right hand side and the 7” color LCD screen displays all machine information for access to functions through its easy to use menus. Through the hot keys, the operator can directly access pre-set functions for added convenience. The proportional joystick provides excellent grip, and the roller fits your thumb perfectly for easy and precise control.


# LARGER CAB

A comfortable working space results in better operation, increasing production and reducing fatigue. The cab design creates space behind the seat, allowing the operator to move more freely. The new generation Volvo Cab features excellent visibility and reduced noise levels.


# BOOSTED PERFORMANCE

Do more in less time with outstanding combined digging efforts, powerful travel force, fluid swing force and optimal lifting capacity. The EW60E has been designed to tackle the most challenging job sites and contracts using the powerful Volvo Stage V engine and adjustable hydraulic flow. Its well-balanced driveline delivers optimum performance whether working on the job site or on the move.

# Power for performance

Climb quick, swing smooth, dig hard and load fast with the EW60E. The traction, swing force and lifting capacity gets you results, fast. This versatile and powerful machine can be tailored for any job and is suitable for a wide range of applications.

**Powerful Volvo Stage V engine**

Give your job site a boost and achieve fast results. Great power and effective cooling ensure optimized performance in any climate. For the ultimate combination of power and performance, the Stage V engine helps to push through challenging conditions.

**Smooth operation**

Smooth combined operations means you can make very accurate and precise movements. With responsive controls the machine does exactly what the operator intends for less fatigue and fluent movement.

**Versatility**

Perform on any job site, whether you're working in a confined space or major construction area. The machine's compact design, long arm, optional fixed boom and offset boom, long dozer blade, auxiliary hydraulic and thumb piping makes the machine suitable for a wide range of jobs and applications.

**Wheeled performance**

A top speed up to 30km/h and the four wheel drive allow you to go on and off-road for better mobility. Drive the machine easily between locations and access hard to reach job sites to save time and keep your machine in prime condition.

# Profit in your business

The EW60E is designed and built to increase your profitability and keep you working for longer. To reduce your running costs it features excellent service access, convenient maintenance points and Volvo's auto engine shutdown feature. With outstanding fuel efficiency this durable and reliable machine secures your costs and increases your uptime.

**Low fuel consumption**

The Volvo engine and hydraulics together offer superior fuel efficiency. The standard auto idle feature helps to reduce your fuel consumption even further and increase your profits.


**Auto engine shutdown**

A unique offering from Volvo, the engine stops automatically after a preselected time, lowering fuel costs and noise. A stopped hour meter reduces maintenance costs and increases the resale value of the machine.


**MATRIS and VCADS Pro**

By working with your dealer and using Volvo MATRIS software you can analyze operator behavior to improve efficiency, boost productivity and reduce your fuel and maintenance costs. Volvo also offers the VCADS Pro diagnostic system, making it easy to control your machine.

**Durability and reliability**

The EW60E is designed with the same high quality as all Volvo machines, including robust transmission system and axles, so you can be assured it's durable and reliable on your job site. You can depend on your machine to perform and work hard for peace of mind.


# SERVICEABILITY

Keep your machine up and running with a number of features combined to increase machine availability and reduce downtime. Ground level service access, including great access to the main control valve, convenient greasing points, a large tool box in the lower structure and an easy to clean cooling unit all reduce service time and maintenance costs. Check service intervals easily through the in-cab screen, which shows reminders when maintenance is needed.


# ATTACHMENTS VERSATILITY

The machine's attachment can be easily changed to save time and costs. Its design, hydraulics, piping and in-cab switches combined with the Volvo attachments range allows the EW60E to take on a variety of tasks. Volvo attachments work in harmony with the machine to deliver maximum productivity.

# One machine, many job sites

Volvo offers a wide range of durable attachments that are suitable for any job site, including utilities, building, agriculture, landscaping and forestry. Volvo attachments are an integrated part of the excavator for which they're intended – delivering maximum productivity and versatility.

**Quick coupler**

Both the mechanical and the hydraulic quick couplers allow a complete range of buckets to be changed quickly and efficiently.

**Buckets**

A complete range of buckets from general purpose reinforced buckets to ditching buckets, allow the machine to work on many job sites for a wide range of applications. The durable buckets can work in loose gravel, crushed rock, dirt and soil.

**Breaker**

Volvo's durable hydraulic breakers have been designed for ultimate compatibility with Volvo excavators. The wide range of breaker tools (or bits) has been built to break all kinds of materials and combines excellent performance with low noise and vibration levels.

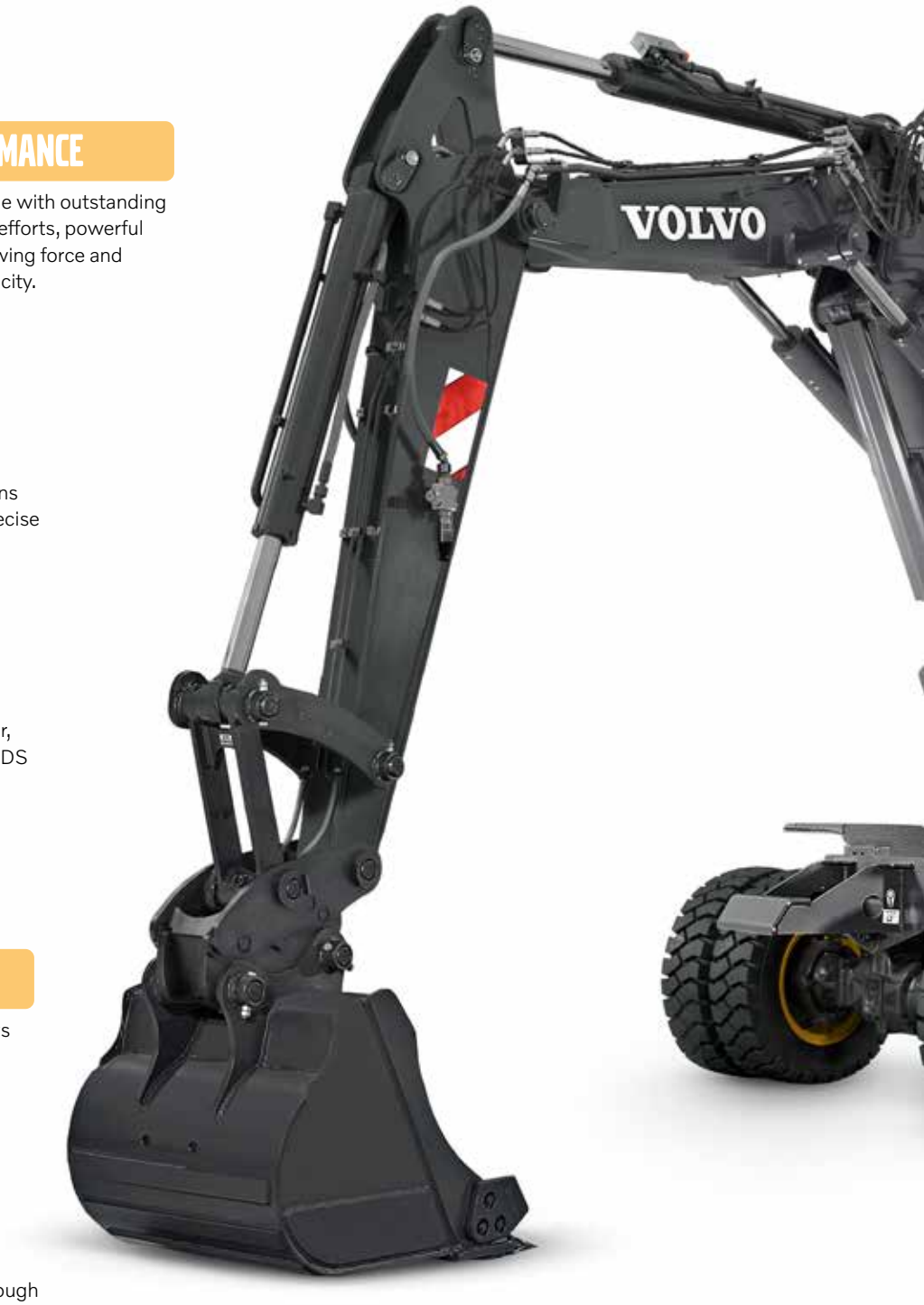

**Steelwrist tiltrotator**

A factory ready Volvo compact excavator together with a Steelwrist® tiltrotator delivers the ultimate combination of high productivity, safety, precision and control. Steelwrist tiltrotators provide a superior tilt angle and the compact design with low build height results in improved digging performance and higher fuel efficiency. Get more done with your machine, without changing attachment or machine position.

# A compact machine with big potential

## BOOSTED PERFORMANCE

Do more in less time with outstanding combined digging efforts, powerful travel force, fluid swing force and optimal lifting capacity.




**Smooth operation**

Smooth combined operations means you can make very accurate and precise movements.

**MATRIS and VCADS Pro**

Volvo MATRIS analyses operator behaviour, improving efficiency and productivity. VCADS Pro helps to control your machine.

## ATTACHMENTS VERSATILITY

The Volvo attachments range allows the machine to take on a variety of tasks for a wide range of jobs and applications.

**Powerful Volvo Stage V engine**

For the ultimate combination of power and performance, the engine helps to push through challenging conditions.

**Auto engine shutdown**

The auto engine shutdown provides lower fuel costs, less noise, much lower maintenance costs and a greater resale value.

**ECO mode**

Volvo's unique ECO mode improves fuel efficiency without any loss of performance in most operating conditions.

## LARGER CAB

A comfortable working space results in better operation, increasing production and reducing fatigue.


**Ease of control**

The keypad groups all controls on the right hand side and the LCD screen displays all machine information for access to functions.

**Operator convenience**

Ample storage space in the cab is available for operator comfort and convenience.

## SERVICEABILITY

Ground level service access, including great access to the main control valve, convenient greasing points and easy to clean cooling unit reduce service time.

**Wheeled performance**

A top speed up to 18 mi/h (30km/h) and the four wheel drive allow you to go on and off-road for better mobility.

## CUSTOMER SUPPORT AGREEMENTS

Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services.

# Adding value to your business

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.

**Complete Solutions**

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.


**Genuine Volvo Parts**

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.

**Service Network**

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.


# CUSTOMER SUPPORT AGREEMENTS

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

# Volvo EW60E in detail

## Engine

The new engine which provides excellent performance is equipped with a four-cylinder, vertical, electronic controlled high pressure fuel injectors, in-line turbo charger and water cooled diesel engine type. This engine fully meets the demands of the latest Stage V emissions regulations.

| | | |
|---|---|---|
| Engine | Volvo | D2.6H |
| Max. power at | r/min | 2 400 |
| Net (ISO9249/SAEJ1349) | kW | 45.2 |
| | hp | 61.5 |
| Gross (ISO 14396/SAE J1995) | kW | 47.3 |
| | hp | 64.3 |
| Max. torque | Nm | 221.6 |
| at engine speed | r/min | 1 500 |
| No. of cylinders | | 4 |
| Displacement | l | 2.6 |
| Bore | mm | 87 |
| Stroke | mm | 110 |

## Electrical system

| | | |
|---|---|---|
| Voltage | V | 12 |
| Batteries | V | 1 x 12 |
| Battery capacity | Ah | 100 |
| Alternator | V/Ah | 12/90 |
| Start motor | V - kW | 12 - 2.5 |

## Undercarriage

Drive train: One big variable axial-piston motor on the two-step Power Shift gearbox gives power to front and rear axles.
Framework: All-welded robust torsion box frame.
Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.

| | | |
|---|---|---|
| Oscillating | ± ° | 4.8 |
| with mudguards | ± ° | 4.8 |
| Single wheels | type | 12-16.5 12PR |
| Twin wheels | type | 7.5-15 14PR |
| Tractive force (net) - Single wheels | kN | 29 |
| Tractive force (net) - Twin wheels | kN | 33 |
| Travel speed, on road | km/h | 20/30 |
| Travel speed, off road | km/h | 10 |
| Min. turning radius - Single wheels | m | 5.1 |
| Min. turning radius - Twin wheels | m | 5.37 |

Chosen travel speed option may be affected by local regulations.
Real Max Travel speeds may be different depending on option configurations.

## Cab

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq

## Sound Level

| | | |
|---|---|---|
| Sound pressure level in cab according to ISO 6396 | | |
| $L_{pA}$ | dB | 78 |
| External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC | | |
| $L_{WA}$ | dB | 98 |

## Hydraulic system

Open-center, negative hydraulic system providing accurate controllabilty.
The following working modes are included in the system:
**Parking mode (P):** Parking position for optimal safety.
**Travel mode (T):** Engine speed is controlled by travel pedal stroke and mode selection switch for low fuel consumption and noise. Work equipment are not able to move at this mode for optimal safety.
**Working mode (W):** Full working flow with adjustable engine rpm for normal working and best speed utilisation.

| | | |
|---|---|---|
| **Main pump (Type: Variable-displacement pump)** | | |
| Max. flow | l/min | 2 x 60 |
| **Pilot pump (Type: Gear pump)** | | |
| Max. flow | l/min | 1 x 21.4 |
| **Swing + steering pump (Type: Low noise gear pump)** | | |
| Max. flow | l/min | 1 x 38.9 |
| Relief valve setting pressure | | |
| Implement | MPa | 22.5 |
| Travel system | MPa | 22.5 |
| Slew system | MPa | 18.6 |
| Pilot system | MPa | 3.13 |

## Hydraulic Cylinders

| | | |
|---|---|---|
| Boom | | 1 |
| Bore x Stroke | ø x mm | 110 x 707 |
| Boom 2nd | | 2 |
| Bore x Stroke | ø x mm | 90 x 406 |
| Arm | | 1 |
| Bore x Stroke | ø x mm | 90 x 813 |
| Bucket | | 1 |
| Bore x Stroke | ø x mm | 80 x 660 |
| Dozer blade | | 1 |
| Bore x Stroke | ø x mm | 105 x 230 |
| Boom swing | | 1 |
| Bore x Stroke | ø x mm | 90 x 570 |

## Brake system

**Service brakes**: servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.
**Parking brake:** negative wet disc in gear housing, spring applied and pressure released.
**Digging brake:** service brake with mechanical lock system.
**Security system:** The 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.

## Swing system

**No need for gear oil replacement:** The lubricating system uses hydraulic operation oil for the reduction gear, eliminating the need for gear oil replacement.
**Built-in parking brake:** Parking brake can be built into the hydraulic motor, enabling safer parking on an incline.
**Shockless function:** Shockless relief is standard equipment to enable smooth traversing.

| | | |
|---|---|---|
| Max. slew speed | r/min | 9.5 |
| Max. slew torque | kNm | 11.6 |

## Total Machine Weights

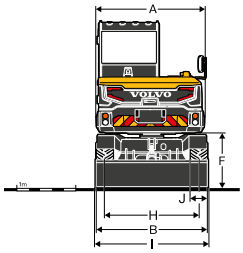
Machine with 2.9m boom, 1.6m arm, 0.142m³ bucket, standard counterweight, dozer blade, Single wheels, 75kg operator weight and without quick coupler

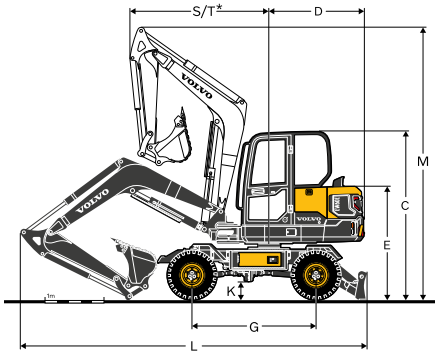
| | | |
|---|---|---|
| With dozer blade | kg | 5 980 |

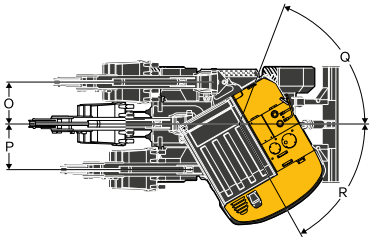
## Service Refill

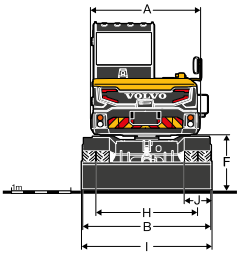
| | | |
|---|---|---|
| Fuel tank | l | 105 |
| Hydraulic system, total | l | 120 |
| Hydraulic tank | l | 76 |
| Engine oil | l | 11 |
| Engine coolant | l | 10 |
| Transmission | l | 1.7 |

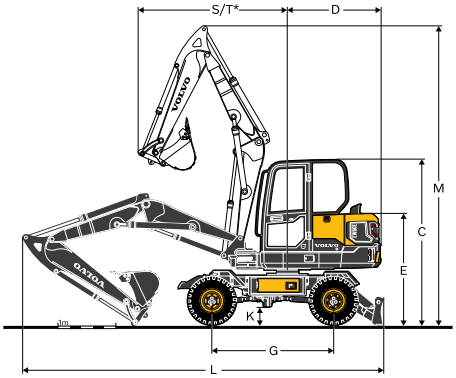
# Specifications



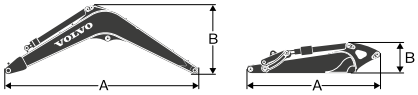



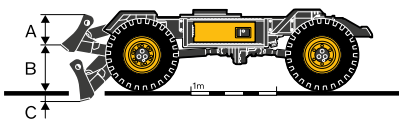




| DIMENSIONS | | | EW60E | | | |
|---|---|---|---|---|---|---|
| Boom | | m | 2.9 | | 3.24 | |
| Arm | | m | 1.6 | 1.9 | 1.6 | 1.9 |
| A | Overall width of upper structure | mm | 1 845 | 1 845 | 1 845 | 1 845 |
| B | Overall width | mm | 1 930 | 1 930 | 2 200 | 2 200 |
| C | Overall height of cab | mm | 2 855 | 2 855 | 2 833 | 2 833 |
| D | Tail swing radius | mm | 1 650 | 1 650 | 1 675 | 1 675 |
| E | Overall height of engine hood | mm | 1 901 | 1 901 | 1 887 | 1 887 |
| F | Counterweight clearance | mm | 960 | 960 | 940 | 940 |
| G | Wheel base | mm | 2 100 | 2 100 | 2 100 | 2 100 |
| H | Tread width | mm | 1 595 | 1 595 | 1 714 | 1 714 |
| I | Dozerblade width | mm | 1 930 | 1 930 | 2 200 | 2 200 |
| J | Tire width | mm | 305 | 305 | 452 | 452 |
| K | Min. ground clearance | mm | 295 | 295 | 276 | 276 |
| L | Overall length | mm | 5 869 | 5 895 | 6 203 | 6 220 |
| M | Overall heght of boom raise | mm | 4 599 | 4 600 | 5 150 | 5 150 |
| S | Front swing radius | mm | 2 352 | 2 368 | 2 423 | 2 571 |
| T* | Front swing radius(Max. offset) | mm | 1 386 | 1 386 | 1 957 | 1 957 |
| O | Boom swing distance | mm | 756 | 756 | 756 | 756 |
| P | Boom swing distance | mm | 863 | 863 | 863 | 863 |
| Q | Boom swing angle | ° | 80 | | 80 | |
| R | Boom swing angle | ° | 50 | | 50 | |



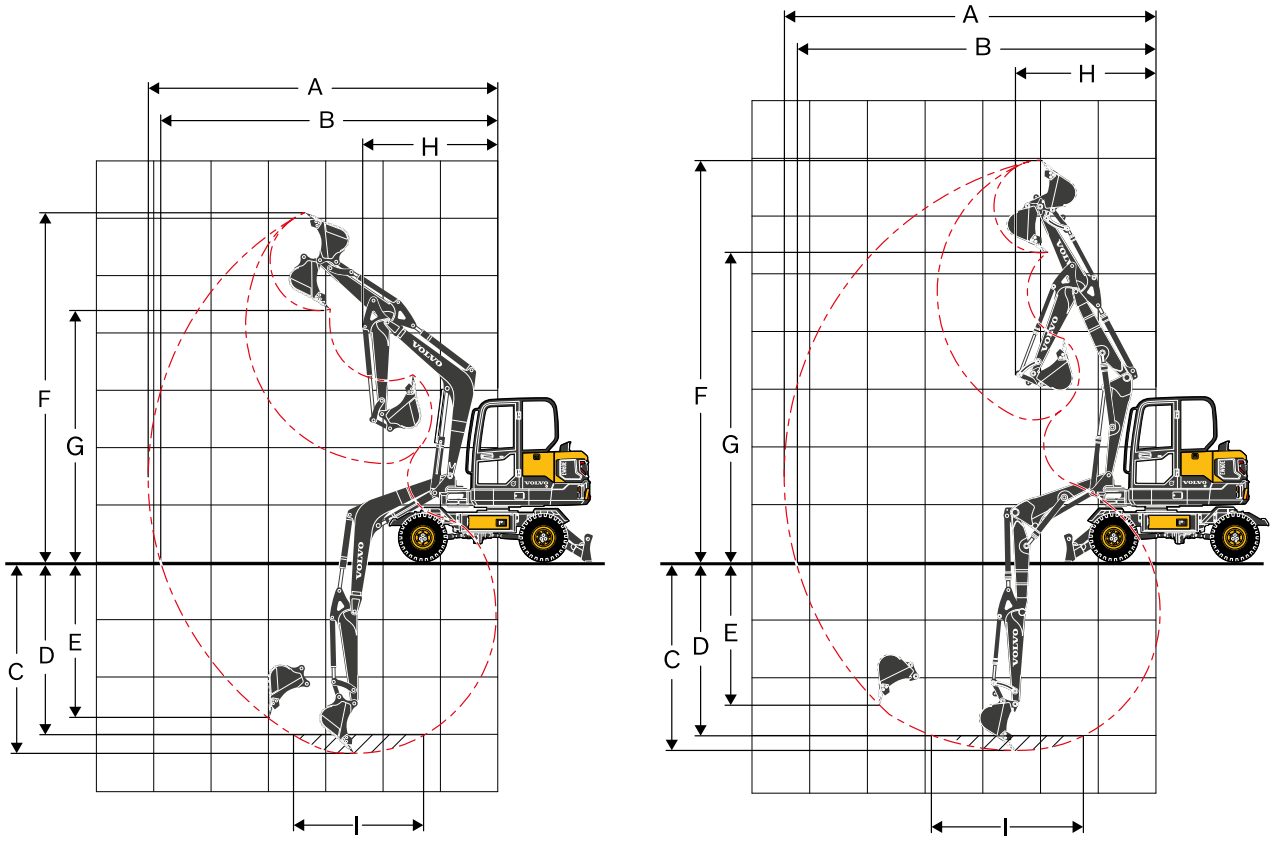

| DIMENSIONS | | | Boom | | Arm | |
|---|---|---|---|---|---|---|
| | | m | 2.9 | 3.24 | 1.6 | 1.9 |
| A | Length | mm | 3 008 | 3 362 | 2 102 | 2 402 |
| B | Height | mm | 1 169 | 865 | 488 | 497 |
| | Width | mm | 336 | 532 | 300 | 300 |
| | Weight | kg | 352.4 | 489 | 206 | 181 |

Boom * Includes cylinder, piping and pin, excludes boom cyl. Pin

Arm * Includes cylinder, linkage and pin

| DIMENSIONS | | | STD Dozer blade | Wide Dozer blade |
|---|---|---|---|---|
| A | Height | mm | 465 | 465 |
| | Width | mm | 1 930 | 2 200 |
| B | Lifting height | mm | 440 | 440 |
| C | Digging depth | mm | 140 | 140 |

# Specifications




| WORKING RANGES | | | | | | |
|---|---|---|---|---|---|---|
| **Description** | | **Unit** | | | | |
| **Boom** | | **m** | **2.9** | | **3.24** | |
| **Arm** | | **m** | **1.6** | **1.9** | **1.6** | **1.9** |
| A | Max. digging reach | mm | 6 024 | 6 313 | 6 432 | 6 729 |
| B | Max. digging reach on ground | mm | 5 810 | 6 111 | 6 239 | 6 546 |
| C | Max. digging depth | mm | 3 292 | 3 592 | 3 304 | 3 603 |
| D | Max.digging depth (I=2 440 mm level) | mm | 2 905 | 3 188 | 3 119 | 3 432 |
| E | Max. vertical wall digging depth | mm | 2 368 | 2 642 | 2 786 | 3 028 |
| F | Max. cutting height | mm | 6 007 | 6 210 | 6 924 | 7 201 |
| G | Max. dumping height | mm | 4 443 | 4 647 | 5 320 | 5 597 |
| H | Min. front swing radius | mm | 2 350 | 2 367 | 2 423 | 2 550 |

| DIGGING FORCES WITH DIRECT FIT BUCKET | | | | |
|---|---|---|---|---|
| | | | **1.6 m Arm** | **1.9 m Arm** |
| Breakout force (bucket) | SAE J1179 | kN | 37.7 | 37.7 |
| | ISO 6015 | kN | 43.3 | 43.3 |
| Tearout force (arm) | SAE J1179 | kN | 28.2 | 25.0 |
| | ISO 6015 | kN | 28.8 | 25.4 |
| Rotation angle, bucket | | ° | 196 | |

**LIFTING CAPACITY EW60E**

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

| | Lifting Point | | 1.0 m | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | Max. reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | m |
| Boom: 2.9 m<br>Arm: 1.6 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Front direction<br>Dozer blade: Down | 5.0 m | kg | | | | | | | | | | | *1 520 | 1 470 | 3.4 |
| | 4.0 m | kg | | | | | | | *1 520 | 1 170 | | | *1 270 | 980 | 4.4 |
| | 3.0 m | kg | | | | | | | *1 610 | 1 150 | | | *1 190 | 810 | 4.9 |
| | 2.0 m | kg | | | | | *2 540 | 1 690 | *1 840 | 1 100 | *1 530 | 780 | *1 200 | 740 | 5.2 |
| | 1.0 m | kg | | | | | *3 030 | 1 580 | *2 040 | 1 050 | *1 570 | 770 | *1 280 | 720 | 5.2 |
| | 0.0 m | kg | | | *2 110 | *2 110 | *3 040 | 1 540 | *2 070 | 1 030 | | | *1 470 | 760 | 4.9 |
| | -1.0 m | kg | *3 000 | *3 000 | *4 060 | 3 020 | *2 650 | 1 540 | *1 800 | 1 020 | | | *1 420 | 890 | 4.5 |
| | -2.0 m | kg | | | *2 450 | *2 450 | *1 680 | 1 590 | | | | | *1 180 | *1 180 | 3.5 |
| Boom: 2.9 m<br>Arm: 1.6 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Front direction<br>Dozer blade: Up | 5.0 m | kg | | | | | | | | | | | *1 520 | 1 380 | 3.4 |
| | 4.0 m | kg | | | | | | | *1 520 | 1 100 | | | *1 270 | 920 | 4.4 |
| | 3.0 m | kg | | | | | | | *1 610 | 1 080 | | | *1 190 | 760 | 4.9 |
| | 2.0 m | kg | | | | | *2 540 | 1 580 | *1 840 | 1 030 | 1 410 | 740 | *1 200 | 690 | 5.2 |
| | 1.0 m | kg | | | | | *3 030 | 1 480 | 1 950 | 990 | 1 390 | 720 | *1 280 | 680 | 5.2 |
| | 0.0 m | kg | | | *2 110 | *2 110 | *3 040 | 1 440 | 1 920 | 960 | | | 1 390 | 710 | 4.9 |
| | -1.0 m | kg | *3 000 | *3 000 | *4 060 | 2 770 | *2 650 | 1 440 | *1 800 | 960 | | | *1 420 | 830 | 4.5 |
| | -2.0 m | kg | | | *2 450 | *2 450 | *1 680 | 1 480 | | | | | *1 180 | 1 180 | 3.5 |
| Boom: 2.9 m<br>Arm: 1.6 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Rear direction<br>Dozer blade: Down | 5.0 m | kg | | | | | | | | | | | *1 520 | 1 470 | 3.4 |
| | 4.0 m | kg | | | | | | | *1 520 | 1 170 | | | *1 270 | 980 | 4.4 |
| | 3.0 m | kg | | | | | | | *1 610 | 1 150 | | | *1 190 | 810 | 4.9 |
| | 2.0 m | kg | | | | | *2 540 | 1 690 | *1 840 | 1 100 | *1 530 | 780 | *1 200 | 740 | 5.2 |
| | 1.0 m | kg | | | | | *3 030 | 1 580 | *2 040 | 1 050 | *1 570 | 770 | *1 280 | 720 | 5.2 |
| | 0.0 m | kg | | | *2 110 | *2 110 | *3 040 | 1 540 | *2 070 | 1 030 | | | *1 470 | 760 | 4.9 |
| | -1.0 m | kg | *3 000 | *3 000 | *4 060 | 3 020 | *2 650 | 1 540 | *1 800 | 1 020 | | | *1 420 | 890 | 4.5 |
| | -2.0 m | kg | | | *2 450 | *2 450 | *1 680 | 1 590 | | | | | *1 180 | *1 180 | 3.5 |
| Boom: 2.9 m<br>Arm: 1.6 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Rear direction<br>Dozer blade: Up | 5.0 m | kg | | | | | | | | | | | 1 370 | 1 380 | 3.4 |
| | 4.0 m | kg | | | | | | | 1 100 | 1 100 | | | 920 | 920 | 4.4 |
| | 3.0 m | kg | | | | | | | 1 080 | 1 080 | | | 760 | 760 | 4.9 |
| | 2.0 m | kg | | | | | 1 570 | 1 580 | 1 030 | 1 030 | 740 | 740 | 690 | 690 | 5.2 |
| | 1.0 m | kg | | | | | 1 470 | 1 480 | 990 | 990 | 720 | 720 | 680 | 680 | 5.2 |
| | 0.0 m | kg | | | *2 110 | *2 110 | 1 430 | 1 440 | 960 | 960 | | | 720 | 710 | 4.9 |
| | -1.0 m | kg | *3 000 | *3 000 | 2 740 | 2 770 | 1 430 | 1 440 | 960 | 960 | | | 830 | 830 | 4.5 |
| | -2.0 m | kg | | | *2 450 | *2 450 | 1 470 | 1 480 | | | | | 1 180 | 1 180 | 3.5 |
| Boom: 2.9 m<br>Arm: 1.9 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Front direction<br>Dozer blade: Down | 5.0 m | kg | | | | | | | | | | | *1 200 | *1 200 | 3.9 |
| | 4.0 m | kg | | | | | | | *1 350 | 1 180 | | | *1 030 | 870 | 4.8 |
| | 3.0 m | kg | | | | | | | *1 470 | 1 150 | *1 380 | 800 | *970 | 730 | 5.3 |
| | 2.0 m | kg | | | | | *2 300 | 1 710 | *1 720 | 1 100 | *1 450 | 780 | *980 | 670 | 5.5 |
| | 1.0 m | kg | | | | | *2 890 | 1 580 | *1 970 | 1 050 | *1 530 | 750 | *1 040 | 660 | 5.5 |
| | 0.0 m | kg | *1 330 | *1 330 | *2 060 | *2 060 | *3 050 | 1 520 | *2 060 | 1 010 | *1 520 | 740 | *1 170 | 690 | 5.3 |
| | -1.0 m | kg | *2 520 | *2 520 | *3 610 | 2 950 | *2 790 | 1 510 | *1 900 | 1 000 | | | *1 340 | 780 | 4.8 |
| | -2.0 m | kg | *4 040 | *4 040 | *3 130 | 3 010 | *2 040 | 1 540 | | | | | *1 200 | 1 040 | 3.9 |
| Boom: 2.9 m<br>Arm: 1.9 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Front direction<br>Dozer blade: Up | 5.0 m | kg | | | | | | | | | | | *1 200 | 1 130 | 3.9 |
| | 4.0 m | kg | | | | | | | *1 350 | 1 110 | | | *1 030 | 820 | 4.8 |
| | 3.0 m | kg | | | | | | | *1 470 | 1 090 | 1 370 | 750 | *970 | 690 | 5.3 |
| | 2.0 m | kg | | | | | *2 300 | 1 600 | *1 720 | 1 030 | 1 350 | 730 | *980 | 630 | 5.5 |
| | 1.0 m | kg | | | | | *2 890 | 1 480 | 1 870 | 980 | 1 320 | 710 | *1 040 | 610 | 5.5 |
| | 0.0 m | kg | *1 330 | *1 330 | *2 060 | *2 060 | 2 950 | 1 420 | 1 830 | 940 | 1 300 | 690 | *1 170 | 640 | 5.3 |
| | -1.0 m | kg | *2 520 | *2 520 | *3 610 | 2 710 | *2 790 | 1 410 | 1 810 | 930 | | | *1 340 | 730 | 4.8 |
| | -2.0 m | kg | *4 040 | *4 040 | *3 130 | 2 770 | *2 040 | 1 430 | | | | | *1 200 | 970 | 3.9 |
| Boom: 2.9 m<br>Arm: 1.9 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Rear direction<br>Dozer blade: Down | 5.0 m | kg | | | | | | | | | | | *1 200 | *1 200 | 3.9 |
| | 4.0 m | kg | | | | | | | *1 350 | 1 180 | | | *1 030 | 870 | 4.8 |
| | 3.0 m | kg | | | | | | | *1 470 | 1 150 | *1 380 | 800 | *970 | 730 | 5.3 |
| | 2.0 m | kg | | | | | *2 300 | 1 710 | *1 720 | 1 100 | *1 450 | 780 | *980 | 670 | 5.5 |
| | 1.0 m | kg | | | | | *2 890 | 1 580 | *1 970 | 1 050 | *1 530 | 750 | *1 040 | 660 | 5.5 |
| | 0.0 m | kg | *1 330 | *1 330 | *2 060 | *2 060 | *3 050 | 1 520 | *2 060 | 1 010 | *1 520 | 740 | *1 170 | 690 | 5.3 |
| | -1.0 m | kg | *2 520 | *2 520 | *3 610 | 2 950 | *2 790 | 1 510 | *1 900 | 1 000 | | | *1 340 | 780 | 4.8 |
| | -2.0 m | kg | *4 040 | *4 040 | *3 130 | 3 010 | *2 040 | 1 540 | | | | | *1 200 | 1 040 | 3.9 |
| Boom: 2.9 m<br>Arm: 1.9 m<br>Shoe: Single wheel<br>CWT: 350 kg<br>Machine: Rear direction<br>Dozerblade: Up | 5.0 m | kg | | | | | | | | | | | *1 200 | 1 130 | 3.9 |
| | 4.0 m | kg | | | | | | | *1 350 | 1 110 | | | *1 030 | 820 | 4.8 |
| | 3.0 m | kg | | | | | | | *1 470 | 1 090 | 1 370 | 750 | *970 | 690 | 5.3 |
| | 2.0 m | kg | | | | | *2 300 | 1 600 | *1 720 | 1 030 | 1 350 | 730 | *980 | 630 | 5.5 |
| | 1.0 m | kg | | | | | *2 890 | 1 480 | 1 870 | 980 | 1 320 | 710 | *1 040 | 610 | 5.5 |
| | 0.0 m | kg | *1 330 | *1 330 | *2 060 | *2 060 | 2 950 | 1 420 | 1 830 | 940 | 1 300 | 690 | *1 170 | 640 | 5.3 |
| | -1.0 m | kg | *2 520 | *2 520 | *3 610 | 2 710 | *2 790 | 1 410 | 1 810 | 930 | | | *1 340 | 730 | 4.8 |
| | -2.0 m | kg | *4 040 | *4 040 | *3 130 | 2 770 | *2 040 | 1 430 | | | | | *1 200 | 970 | 3.9 |

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

# Specifications

**LIFTING CAPACITY EW60E**

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

| | Lifting Point | | 1.0 m | | 2.0 m | | 3.0 m | | 4.0 m | | 5.0 m | | Max. reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | m |
| Boom: 3.24 m<br>Arm: 1.6 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Front direction<br>Dozer blade: Down | 6.0 m | kg | | | | | | | | | | | *2 650 | *2 650 | 2.4 |
| | 5.0 m | kg | | | | | *2 000 | *2 000 | *1 770 | 1 500 | | | *1 560 | 1 440 | 4.1 |
| | 4.0 m | kg | | | | | *2 040 | *2 040 | *1 690 | 1 520 | | | *1 310 | 1 070 | 4.9 |
| | 3.0 m | kg | | | | | *2 400 | 2 330 | *1 800 | 1 480 | *1 480 | 1 040 | *1 210 | 910 | 5.4 |
| | 2.0 m | kg | | | | | *2 860 | 2 150 | *1 950 | 1 410 | *1 510 | 1 010 | *1 180 | 840 | 5.6 |
| | 1.0 m | kg | | | | | *2 600 | 2 020 | *2 000 | 1 340 | *1 480 | 980 | *1 160 | 830 | 5.6 |
| | 0.0 m | kg | | | | | *2 560 | 1 990 | *1 850 | 1 310 | *1 310 | 960 | *1 020 | 870 | 5.4 |
| | -1.0 m | kg | | | *2 020 | *2 020 | *1 920 | *1 920 | *1 440 | 1 310 | | | *780 | *780 | 4.9 |
| | -2.0 m | kg | | | | | *930 | *930 | *520 | *520 | | | *320 | *320 | 4.2 |
| Boom: 3.24 m<br>Arm: 1.6 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Front direction<br>Dozer blade: Up | 6.0 m | kg | | | | | | | | | | | *2 650 | *2 650 | 2.4 |
| | 5.0 m | kg | | | | | *2 000 | *2 000 | *1 770 | 1 320 | | | *1 560 | 1 260 | 4.1 |
| | 4.0 m | kg | | | | | *2 040 | *2 040 | *1 690 | 1 340 | | | *1 310 | 930 | 4.9 |
| | 3.0 m | kg | | | | | *2 400 | 2 030 | *1 800 | 1 290 | *1 480 | 910 | *1 210 | 800 | 5.4 |
| | 2.0 m | kg | | | | | *2 860 | 1 850 | *1 950 | 1 230 | *1 510 | 880 | *1 180 | 740 | 5.6 |
| | 1.0 m | kg | | | | | *2 600 | 1 730 | *2 000 | 1 160 | *1 480 | 850 | *1 160 | 720 | 5.6 |
| | 0.0 m | kg | | | | | *2 560 | 1 700 | *1 850 | 1 130 | *1 310 | 840 | *1 020 | 760 | 5.4 |
| | -1.0 m | kg | | | *2 020 | *2 020 | *1 920 | 1 710 | *1 440 | 1 130 | | | *780 | *780 | 4.9 |
| | -2.0 m | kg | | | | | *930 | *930 | *520 | *520 | | | *320 | *320 | 4.2 |
| Boom: 3.24 m<br>Arm: 1.6 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Rear direction<br>Dozer blade: Down | 6.0 m | kg | | | | | | | | | | | *2 650 | *2 650 | 2.4 |
| | 5.0 m | kg | | | | | *2 000 | *2 000 | *1 770 | 1 510 | | | *1 560 | 1 450 | 4.1 |
| | 4.0 m | kg | | | | | *2 040 | *2 040 | *1 690 | 1 530 | | | *1 310 | 1 070 | 4.9 |
| | 3.0 m | kg | | | | | *2 400 | 2 340 | *1 800 | 1 480 | *1 480 | 1 040 | *1 210 | 920 | 5.4 |
| | 2.0 m | kg | | | | | *2 860 | 2 160 | *1 950 | 1 410 | *1 510 | 1 020 | *1 180 | 850 | 5.6 |
| | 1.0 m | kg | | | | | *2 600 | 2 030 | *2 000 | 1 350 | *1 480 | 990 | *1 160 | 840 | 5.6 |
| | 0.0 m | kg | | | | | *2 560 | 2 000 | *1 850 | 1 320 | *1 310 | 970 | *1 020 | 880 | 5.4 |
| | -1.0 m | kg | | | *2 020 | *2 020 | *1 920 | *1 920 | *1 440 | 1 320 | | | *780 | *780 | 4.9 |
| | -2.0 m | kg | | | | | *930 | *930 | *520 | *520 | | | *320 | *320 | 4.2 |
| Boom: 3.24 m<br>Arm: 1.6 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Rear direction<br>Dozer blade: Up | 6.0 m | kg | | | | | | | | | | | *2 650 | *2 650 | 2.4 |
| | 5.0 m | kg | | | | | *2 000 | *2 000 | *1 770 | 1 320 | | | *1 560 | 1 260 | 4.1 |
| | 4.0 m | kg | | | | | *2 040 | *2 040 | *1 690 | 1 340 | | | *1 310 | 930 | 4.9 |
| | 3.0 m | kg | | | | | *2 400 | 2 030 | *1 800 | 1 290 | *1 480 | 910 | *1 210 | 800 | 5.4 |
| | 2.0 m | kg | | | | | *2 860 | 1 850 | *1 950 | 1 230 | *1 510 | 880 | *1 180 | 740 | 5.6 |
| | 1.0 m | kg | | | | | *2 600 | 1 730 | *2 000 | 1 160 | *1 480 | 850 | *1 160 | 720 | 5.6 |
| | 0.0 m | kg | | | | | *2 560 | 1 700 | *1 850 | 1 130 | *1 310 | 840 | *1 020 | 760 | 5.4 |
| | -1.0 m | kg | | | *2 020 | *2 020 | *1 920 | 1 710 | *1 440 | 1 130 | | | *780 | *780 | 4.9 |
| | -2.0 m | kg | | | | | *930 | *930 | *520 | *520 | | | *320 | *320 | 4.2 |
| Boom: 3.24 m<br>Arm: 1.9 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Front direction<br>Dozer blade: Down | 6.0 m | kg | | | | | *2 170 | *2 170 | | | | | *1 780 | *1 780 | 3.2 |
| | 5.0 m | kg | | | | | | | *1 600 | 1 540 | | | *1 240 | 1 230 | 4.5 |
| | 4.0 m | kg | | | | | | | *1 580 | 1 540 | *1 410 | 1 050 | *1 060 | 950 | 5.3 |
| | 3.0 m | kg | | | | | *2 010 | *2 010 | *1 710 | 1 490 | *1 420 | 1 040 | *990 | 830 | 5.7 |
| | 2.0 m | kg | | | | | *2 720 | 2 180 | *1 880 | 1 410 | *1 470 | 1 010 | *980 | 770 | 5.9 |
| | 1.0 m | kg | | | | | *2 940 | 2 020 | *1 980 | 1 340 | *1 480 | 970 | *1 000 | 760 | 5.9 |
| | 0.0 m | kg | | | | | *2 700 | 1 960 | *1 890 | 1 290 | *1 370 | 950 | *950 | 790 | 5.7 |
| | -1.0 m | kg | | | *2 320 | *2 320 | *2 150 | 1 960 | *1 570 | 1 280 | *1 040 | 950 | *770 | *770 | 5.3 |
| | -2.0 m | kg | | | *1 290 | *1 290 | *1 270 | *1 270 | *890 | *890 | | | *420 | *420 | 4.6 |
| Boom: 3.24 m<br>Arm: 1.9 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Front direction<br>Dozer blade: Up | 6.0 m | kg | | | | | *2 170 | 2 100 | | | | | *1 780 | *1 780 | 3.2 |
| | 5.0 m | kg | | | | | | | *1 600 | 1 350 | | | *1 240 | 1 080 | 4.5 |
| | 4.0 m | kg | | | | | | | *1 580 | 1 350 | *1 410 | 920 | *1 060 | 830 | 5.3 |
| | 3.0 m | kg | | | | | *2 010 | *2 010 | *1 710 | 1 300 | *1 420 | 910 | *990 | 720 | 5.7 |
| | 2.0 m | kg | | | | | *2 720 | 1 880 | *1 880 | 1 230 | *1 470 | 880 | *980 | 670 | 5.9 |
| | 1.0 m | kg | | | | | *2 940 | 1 730 | *1 980 | 1 160 | *1 480 | 840 | *1 000 | 660 | 5.9 |
| | 0.0 m | kg | | | | | *2 700 | 1 670 | *1 890 | 1 120 | *1 370 | 820 | *950 | 690 | 5.7 |
| | -1.0 m | kg | | | *2 320 | *2 320 | *2 150 | 1 670 | *1 570 | 1 110 | *1 040 | 820 | *770 | *770 | 5.3 |
| | -2.0 m | kg | | | *1 290 | *1 290 | *1 270 | *1 270 | *890 | *890 | | | *420 | *420 | 4.6 |
| Boom: 3.24 m<br>Arm: 1.9 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Rear direction<br>Dozer blade: Down | 6.0 m | kg | | | | | *2 170 | *2 170 | | | | | *1 780 | *1 780 | 3.2 |
| | 5.0 m | kg | | | | | | | *1 600 | 1 540 | | | *1 240 | 1 240 | 4.5 |
| | 4.0 m | kg | | | | | | | *1 580 | 1 550 | *1 410 | 1 060 | *1 060 | 960 | 5.3 |
| | 3.0 m | kg | | | | | *2 010 | *2 010 | *1 710 | 1 500 | *1 420 | 1 050 | *990 | 830 | 5.7 |
| | 2.0 m | kg | | | | | *2 720 | 2 190 | *1 880 | 1 420 | *1 470 | 1 010 | *980 | 780 | 5.9 |
| | 1.0 m | kg | | | | | *2 940 | 2 030 | *1 980 | 1 350 | *1 480 | 980 | *1 000 | 770 | 5.9 |
| | 0.0 m | kg | | | | | *2 700 | 1 970 | *1 890 | 1 300 | *1 370 | 950 | *950 | 800 | 5.7 |
| | -1.0 m | kg | | | *2 320 | *2 320 | *2 150 | 1 970 | *1 570 | 1 290 | *1 040 | 950 | *770 | *770 | 5.3 |
| | -2.0 m | kg | | | *1 290 | *1 290 | *1 270 | *1 270 | *890 | *890 | | | *420 | *420 | 4.6 |
| Boom: 3.24 m<br>Arm: 1.9 m<br>Shoe: Twin wheel<br>CWT: 500 kg<br>Machine: Rear direction<br>Dozer blade: Up | 6.0 m | kg | | | | | *2 170 | 2 100 | | | | | *1 780 | *1 780 | 3.2 |
| | 5.0 m | kg | | | | | | | *1 600 | 1 350 | | | *1 240 | 1 080 | 4.5 |
| | 4.0 m | kg | | | | | | | *1 580 | 1 350 | *1 410 | 920 | *1 060 | 830 | 5.3 |
| | 3.0 m | kg | | | | | *2 010 | *2 010 | *1 710 | 1 300 | *1 420 | 910 | *990 | 720 | 5.7 |
| | 2.0 m | kg | | | | | *2 720 | 1 880 | *1 880 | 1 230 | *1 470 | 880 | *980 | 670 | 5.9 |
| | 1.0 m | kg | | | | | *2 940 | 1 730 | *1 980 | 1 160 | *1 480 | 840 | *1 000 | 660 | 5.9 |
| | 0.0 m | kg | | | | | *2 700 | 1 670 | *1 890 | 1 120 | *1 370 | 820 | *950 | 690 | 5.7 |
| | -1.0 m | kg | | | *2 320 | *2 320 | *2 150 | 1 670 | *1 570 | 1 110 | *1 040 | 820 | *770 | *770 | 5.3 |
| | -2.0 m | kg | | | *1 290 | *1 290 | *1 270 | *1 270 | *890 | *890 | | | *420 | *420 | 4.6 |

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

# Equipment

## STANDARD EQUIPMENT

**Engine**
- Low-emission Volvo Stage V diesel engine
- Standard cooling system
- Two-stage air filter
- Fuel filter and water separator
- Alternator, 90 A

**Electric / Electronic control system**
- Safe engine start function
- Automatic idling system
- Halogen working lights;
- Cab-mounted 1 (Front), Boom-mounted 1(LH)
- Battery, 12 V / 100 Ah
- Start motor, 12 V / 2.5 kW
- Monitor and keypad
- Master electrical disconnect switch
- Travel alarm

**Frame**
- Rearview mirror
- Standard counterweight
- Under cover
- Fender
- Dozer blade

**Undercarriage**
- Single wheels: 12.00-16.5 12PR

**Hydraulic system**
- Automatic two speed travel motors
- Cylinder cushioning
- Hydraulic fluid mineral 46
- Travel motor (30km/h)

**Cab and interior**
- Cab
- Fabric operator seat with suspension
- Seat belt, 2 inch retractable
- Control joystick
- Radio with MP3/AUX
- Master key
- Hour meter (non analog)

**Digging equipment**
- Boom: 2.9m, Arm: 1.6m
- Offset boom
- Linkage

**Service**
- Tool kit-daily maintenance

## OPTIONAL EQUIPMENT

**Engine**
- Water separator (With heater)
- Engine auto shut down

## OPTIONAL EQUIPMENT

**Electric / Electronic control system**
- Fuel filler pump: 35 l/min, with automatic shut-off
- Halogen extra working lights;
- Cab-mounted 1 (Rear)
- Boom-mounted 1(RH)
- Caretrack
- Rotating warning beacon
- Electric pilot control change
- Rearview Camera
- Electric dozer blade switch on joystick
- LED Light

**Frame**
- Heavy counterweight
- Wide fender
- Wide dozer blade

**Undercarriage**
- Twin wheels: 7.50-15.0 14PR

**Hydraulic system**
- Hydraulic piping:
- Breaker & shear (X1 Double Acting)<br>- Max. Flow: 60 l/min<br>- Max. Pressure: 22.5 Mpa
- Slope & rotator (X3)<br>- Max. Flow: 22 l/min<br>- Max. Pressure: 14.7 Mpa
- Thumb (with three way valve)
- Grapple
- Quick coupler
- Hose rupture valve for boom, arm
- Overload warning device
- Hydraulic oil, ISO VG 32, 68
- Hydraulic oil, biodegradable 46
- Hydraulic oil, longlife oil 32, 46, 68
- Travel motor (20km/h)

**Cab and interior**
- Heater and air-conditioner
- Fabric operator seat with suspension with heater
- PVC operator seat with suspension
- Control joystick, X3 proportional
- Radio with MP3/AUX/Bluetooth
- Mechanical hour meter
- Cab mounted FOG (Falling Object Guard)
- FOPS (Falling Object Protection Structure)
- Sun screen, front/roof

**Digging equipment**
- Fixed boom
- 2pcs boom: 3.24m
- Long arm: 1.9m

**Service**
- Tool kit, full scale
- Spare parts

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

**Electric dozer blade switch on joystick**

**Rear view camera**

**Two-piece boom**


**LED Light**

**Twin tires**

**Fixed boom**


Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice.
The illustrations do not necessarily show the standard version of the machine.

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