

V O L V O



Volvo Wheeled Excavator 6.1-7.4 t 68 hp

EW65

PRELIMINARY

Volvo Construction Equipment

EW65

Get ready for more power, control and comfort in the Volvo EW65. With a host of impressive performance upgrades, new intuitive 8" display and enhanced uptime features, this versatile machine is equipped to achieve maximum results across a range of sectors.



Drive productivity to a new level

When a compact wheeled excavator is the right choice for your operation, count on the EW65 to deliver big results. Featuring a range of performance upgrades, including 6 % more engine power, improved swing performance and 9 % more boom lifting force, get ready to achieve optimum results across utilities, building, agriculture, landscaping, forestry and more. With a new 8" HD intuitive touchscreen display, enhanced controls and a range of comfort improvements, the EW65 continues the proud Volvo tradition of providing class-leading operator environments to the market. Engineered for maximum uptime, count on the EW65 for easy servicing, longer service intervals and a larger fuel tank – so you can work harder for longer.

Operator control



- New 8" high-definition touchscreen interface
- Operators can now control all essential machine functions from display
- Keyless engine start/stop
- Larger right-hand console for improved dozer blade control
- Hydraulic dozer blade lever with integrated high-speed travel and floating mode buttons

Extensive performance upgrades



- 6 % more engine power
- 6 % improved swing performance on the slope
- 5 % increased swing pressure and torque
- 9 % increase in boom lifting force
- 30 kmph top speed

Operator comfort



- New sliding seat, including 3-point seatbelt
- New, wider and height adjustable arm rest
- New tiltable left-hand console for easy entry/exit
- Conveniently located in-cab storage locations, with cupholder, document holder, phone holder and glove compartment
- Chargeable USB sockets

Easy servicing



- Wide opening hood
- Ground level service access
- Grouped filters

Longer service intervals



- DPF cleaning every 8 000 hours (up from 6 000 compared to the previous generation).
- Hydraulic return filter changes every 1 500 hours – 3 times longer than the previous generation
- 3 000-hour suction filter interval (50 % longer than previous generation)
- 6 000-hour long life oil interval (20 % longer than previous generation)

Work for longer



- Larger 120 litre fuel tank capacity (14 % increase compared to previous generation)
- Auto engine shutdown (operator sets pre-set shutdown time between 5-60 mins)
- CareTrack telematics with Active Care
- New software architecture for seamless future updates
- 14-PR single tire for greater tire durability

Attachment versatility



- Range of Volvo attachments
- 120 lpm hydraulic flow for attachments/accessories (double the previous generation)

New options



- New sliding air suspension seat, including 3-point seatbelt
- Additional oil drain line
- Engine block heater
- Side view camera
- White noise alarm

New intuitive display

- Featuring a new 8" high-definition touchscreen interface (inherited from larger Volvo Excavators)
- Operators can now control all essential machine functions from the convenience of the display and simplified interface
- The easy-to-use menu intuitively guides operators through key machine functions including attachment pre-set and selection, rear and side camera view, mobile phone Bluetooth pairing, and serviceability interval adjustments

One machine, many jobsites

- With range of Volvo Attachments, the EW65 can be equipped to take on a wide array of tasks
- With double the auxiliary hydraulic flow compared to the previous generation, the machine can now handle the most powerful attachments
- Whether utilities, building, agriculture, landscaping, forestry and more; Volvo attachments are designed to work in perfect harmony with your Volvo machine to deliver maximum results
- Optional 2-piece boom, heavier counterweight and twin tires



Wheeled performance

- Top speed up to 30 kmph
- Outstanding mobility
- Four-wheel drive allows you to travel on and off road with front axle locking when working
- Parking, work and transport modes
- Drive the machine easily between locations and access hard to reach job sites

Easy to service

- Servicing is quick and easy
- Wide opening hood
- Safe and easy access
- All service check points are located under the wide-opening engine hood and are accessed from ground level
- Grouped filters ensure regular maintenance is straightforward, helping to maximize uptime

More power to perform

- Dig powerfully, load efficiently and swing smoothly
- 5.8 % more engine power
- Improved swing performance on the slope
- 5 % increased swing pressure and torque and 9 % increase in boom lifting force
- This versatile machine delivers fast, reliable results across a wide range of applications



Volvo EW65 in detail

Engine

The new engine which provide 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 | Brand | Kubota D2.6H |
| Max power at | rpm | 2,400 |
| Net, ISO 9249/SAE J1349 | kW | 48.8 |
| | hp | 66.4 |
| Gross, ISO 14396/SAE J1995 | kW | 50 |
| | hp | 68 |
| Max torque | Nm | 225 |
| | at engine speed | rpm |
| No. of cylinders | | 4 |
| Displacement | lit | 2.62 |
| Bore | mm | 87 |
| Stroke | mm | 110 |

Electrical System

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

Undercarriage

Drivetrain: One big variable axial-piston motor on the two-step Power Shift gearbox gives power to front and rear axles.

| | | |
|------------------------|-------------|--------------------|
| Oscillation | \pm° | 4.8 |
| with mudguards | \pm° | 4.8 |
| Tire | type | 12.00-16.5 12PR |
| Tractive force (net) | kN | 29 |
| Travel speed, on road | km/h | 30 |
| Travel speed, off road | km/h | 10 |
| Min. turning radius | m | 5.1 |

Sound Level

| | | |
|--|----|----|
| Sound 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 | 97 |

Hydraulic System

Open-center, negative hydraulic system providing accurate controllability.

Main pump: Variable-displacement pump

| | | |
|-----------|-------|--------|
| Max. flow | l/min | 2 x 60 |
|-----------|-------|--------|

Brake + steering pump: Low noise gear pump

| | | |
|-----------|-------|----------|
| Max. flow | l/min | 1 x 38.9 |
|-----------|-------|----------|

Pilot pump: Gear pump

| | | |
|-----------|-------|----------|
| Max. flow | l/min | 1 x 21.4 |
|-----------|-------|----------|

Max. pressure

| | | |
|-----------|-----|------|
| Implement | MPa | 22.5 |
|-----------|-----|------|

| | | |
|---------------|-----|------|
| Travel system | MPa | 22.5 |
|---------------|-----|------|

| | | |
|-------------|-----|------|
| Slew system | MPa | 19.6 |
|-------------|-----|------|

| | | |
|--------------|-----|------|
| Pilot system | MPa | 3.13 |
|--------------|-----|------|

Hydraulic Cylinders

| | | |
|------|--|---|
| Boom | | 1 |
|------|--|---|

| | | |
|---------------|--------|-----------|
| Bore x Stroke | ø x mm | 115 x 707 |
|---------------|--------|-----------|

| | | |
|-----|--|---|
| 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.

Swing System

-No need for gear oil replacement

| | | |
|-----------------|-----|-----|
| Max. slew speed | rpm | 9.1 |
|-----------------|-----|-----|

| | | |
|------------------|------|------|
| Max. slew torque | kN/m | 12.3 |
|------------------|------|------|

Service Refill

| | | |
|-----------|-----|-----|
| Fuel tank | lit | 120 |
|-----------|-----|-----|

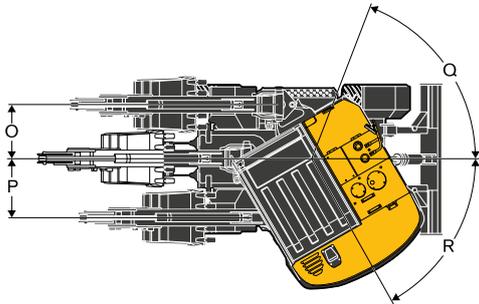
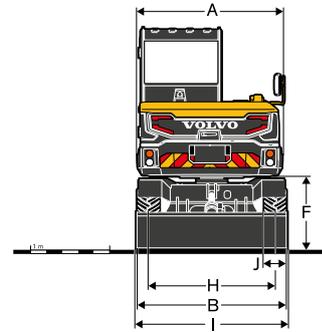
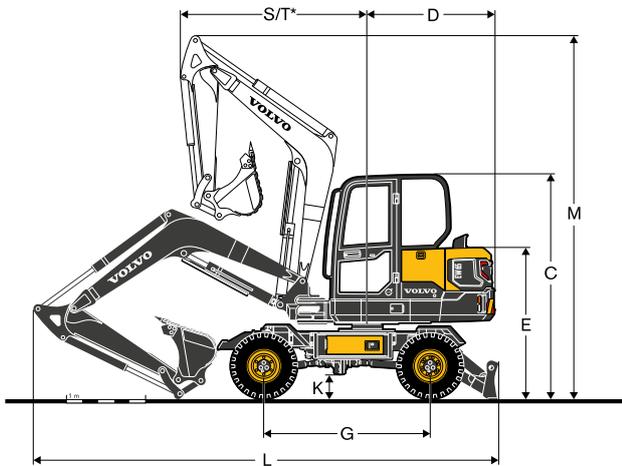
| | | |
|-------------------------|-----|-----|
| Hydraulic system, total | lit | 105 |
|-------------------------|-----|-----|

| | | |
|----------------|-----|----|
| Hydraulic tank | lit | 60 |
|----------------|-----|----|

| | | |
|------------|-----|----|
| Engine oil | lit | 11 |
|------------|-----|----|

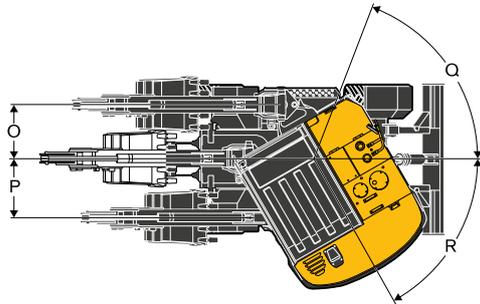
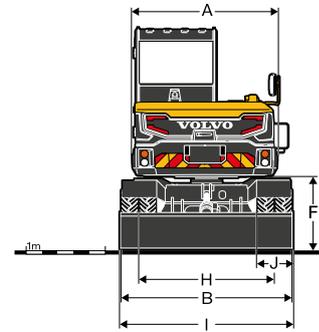
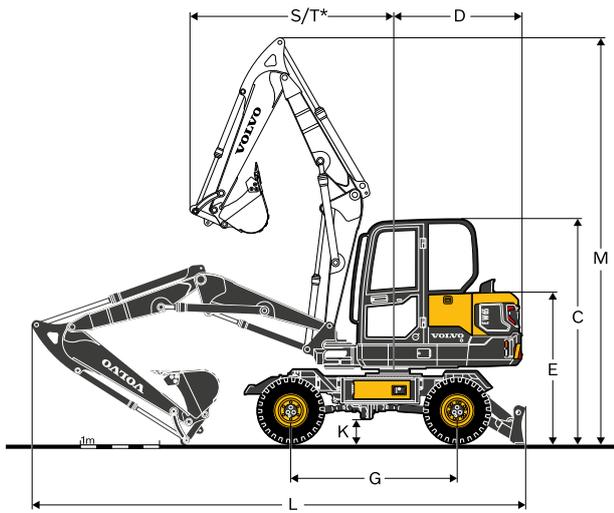
| | | |
|----------------|-----|----|
| Engine coolant | lit | 10 |
|----------------|-----|----|

Specifications



DIMENSIONS

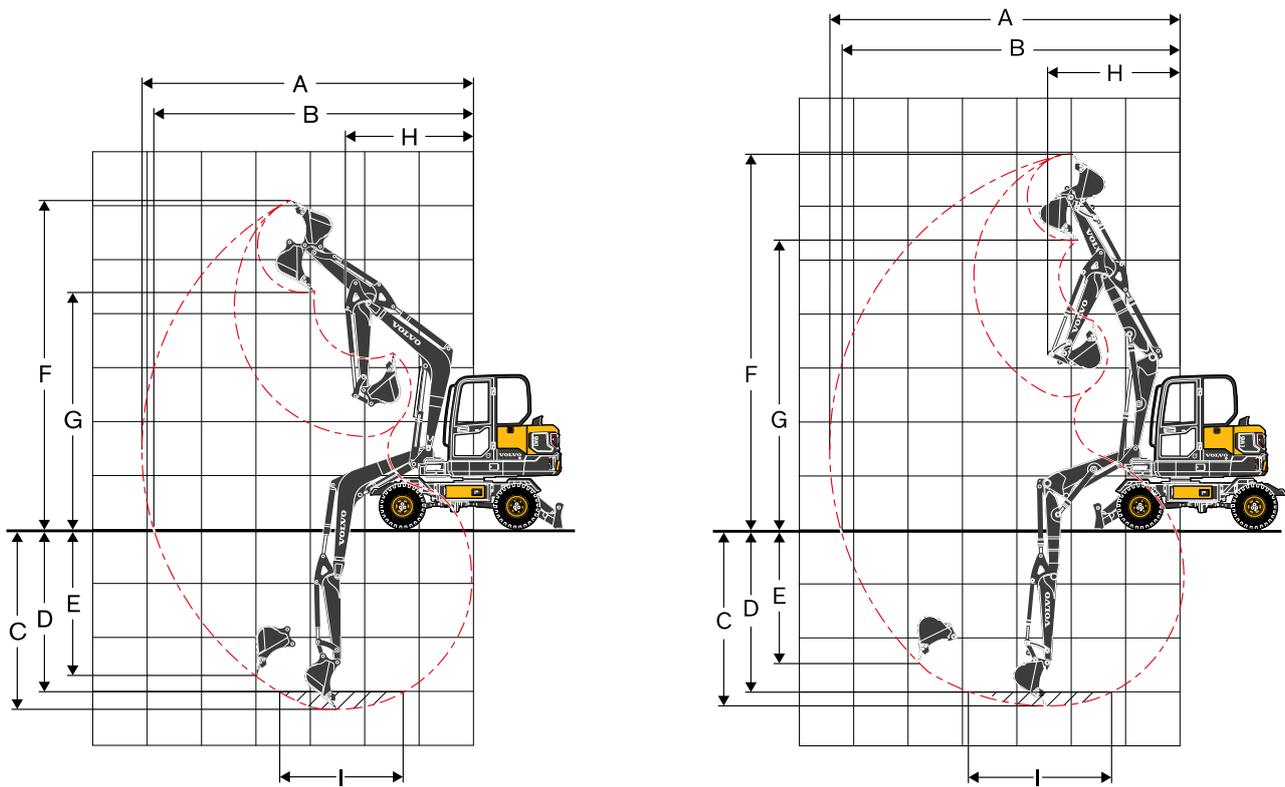
| Description | | EW65 | | | | |
|-------------|----------------------------------|-------------------------------|-------|------------------------------|-------|-------|
| Boom | | 2.9 m Mono Boom + Single Tire | | 3.24 m Mono Boom + Twin Tire | | |
| Arm | Unit | 1.6 m | 1.9 m | 1.6 m | 1.9 m | |
| A | Overall width of upper structure | mm | 1 880 | 1 880 | 1 880 | 1 880 |
| B | Overall width | mm | 1 930 | 1 930 | 2 210 | 2 210 |
| C | Overall height of cab | mm | 2 855 | 2 855 | 2 820 | 2 820 |
| D | Tail swing radius | mm | 1 690 | 1 690 | 1 690 | 1 690 |
| E | Overall height of engine hood | mm | 1 925 | 1 925 | 1 885 | 1 885 |
| F | Counterweight clearance | mm | 945 | 945 | 910 | 910 |
| G | Wheel base | mm | 2 100 | 2 100 | 2 100 | 2 100 |
| H | Tread width | mm | 1 595 | 1 595 | 1 715 | 1 715 |
| I | Dozer blade width | mm | 1 930 | 1 930 | 2 210 | 2 210 |
| J | Tire width | mm | 305 | 305 | 452 | 452 |
| K | Min. ground clearance | mm | 295 | 295 | 275 | 275 |
| L | Overall length | mm | 5 870 | 5 920 | 5 870 | 5 920 |
| M | Overall height of boom raise | mm | 4 600 | 4 600 | 5 100 | 5 100 |
| S | Front swing radius | mm | 2 350 | 2 370 | 2 350 | 2 370 |
| T | Front swing radius(Max. offset) | mm | 1 385 | 1 385 | 1 385 | 1 385 |
| O | Boom swing distance | mm | 756 | 756 | 756 | 756 |
| P | Boom swing distance | mm | 863 | 863 | 863 | 863 |
| Q | Boom swing angle | ° | 80 | 80 | 80 | 80 |
| R | Boom swing angle | ° | 50 | 50 | 50 | 50 |



DIMENSIONS

| Description | | EW65 | |
|------------------------------------|------|----------------------------------|-------|
| Boom | | 3.24 m 2-pieces Boom + Twin Tire | |
| Arm | Unit | 1.6 m | 1.9 m |
| A Overall width of upper structure | mm | 1 880 | 1 880 |
| B Overall width | mm | 2 210 | 2 210 |
| C Overall height of cab | mm | 2 820 | 2 820 |
| D Tail swing radius | mm | 1 690 | 1 690 |
| E Overall height of engine hood | mm | 1 885 | 1 885 |
| F Counterweight clearance | mm | 910 | 910 |
| G Wheel base | mm | 2 100 | 2 100 |
| H Tread width | mm | 1 715 | 1 715 |
| I Dozer blade width | mm | 2 210 | 2 210 |
| J Tire width | mm | 452 | 452 |
| K Min. ground clearance | mm | 275 | 275 |
| L Overall length | mm | 6 085 | 6 100 |
| M Overall height of boom raise | mm | 5 135 | 5 135 |
| S Front swing radius | mm | 2 230 | 2 230 |
| T Front swing radius(Max. offset) | mm | 1 955 | 1 955 |
| O Boom swing distance | mm | 756 | 756 |
| P Boom swing distance | mm | 863 | 863 |
| Q Boom swing angle | ° | 80 | 80 |
| R Boom swing angle | ° | 50 | 50 |

Specifications



WORKING RANGES

| Description | Unit | EW65 | | | |
|---|----------|-----------------|----------------------|-----------------|----------------------|
| | | 2.9 m Mono Boom | 3.24 m 2-pieces Boom | 2.9 m Mono Boom | 3.24 m 2-pieces Boom |
| Boom | m | | | | |
| Arm | m | 1.6 m | | 1.9 m | |
| A Max. digging reach | mm | 6 024 | 6 432 | 6 313 | 6 729 |
| B Max. digging reach on ground | mm | 5 810 | 6 239 | 6 111 | 6 546 |
| C Max. digging depth | mm | 3 292 | 3 304 | 3 592 | 3 603 |
| D Max. digging depth (l=2 440 mm level) | mm | 2 905 | 3 119 | 3 188 | 3 432 |
| E Max. vertical wall digging depth | mm | 2 368 | 2 786 | 2 642 | 3 028 |
| F Max. cutting height | mm | 6 007 | 6 924 | 6 210 | 7 201 |
| G Max. dumping height | mm | 4 443 | 5 320 | 4 647 | 5 597 |
| H Min. front swing radius | mm | 2 350 | 2 423 | 2 367 | 2 550 |

DIGGING FORCES WITH DIRECT FIT BUCKET

| | | | | |
|-------------------------|-----------|----|-------|------|
| 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 | | ° | 195.8 | |

BUCKETS

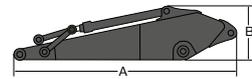
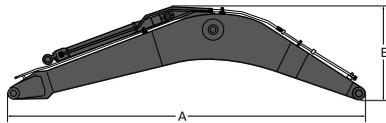
| Width | Weight | Capacity |
|-------|--------|----------|
| mm | kg | l |
| 350 | 97 | 70 |
| 450 | 100 | 98 |
| 600 | 129 | 142 |
| 750 | 145 | 187 |
| 900 | 164 | 235 |
| 1 500 | 176 | 265 |

Max. permitted buckets

Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.
 2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.
 3. Bucket widths are less than bucket's tip radius.

BUCKET SELECTION GUIDE

| | | 2.9 m Boom, Direct Fit | |
|-------------|--------------------------------------|------------------------|-------------|
| | | 1.6 m Arm | |
| Description | Material density (t/m ³) | Volume (L) | Weight (kg) |
| GP Bucket | 1.5 | 325 | 250 |
| | 1.8 | 275 | 200 |



DIMENSIONS

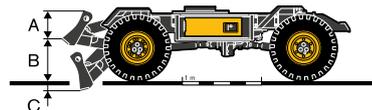
| | | Boom | | | | Arm | |
|-------------|------|-------|--------|-------------|------|-------|-------|
| Description | Unit | 2.9 m | 3.24 m | Description | Unit | 1.6 m | 1.9 m |
| A Length | mm | 3 010 | 3 360 | A Length | mm | 2 100 | 2 400 |
| B Height | mm | 1 170 | 865 | B Height | mm | 490 | 495 |
| Width | mm | 335 | 530 | Width | mm | 300 | 300 |
| Weight | kg | 355 | 490 | Weight | kg | 210 | 185 |

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

Includes cylinder, linkage and pin

DIMENSIONS

| Dozer blade | Unit | Standard Dozer | Wide for Twin Tire |
|------------------|------|----------------|--------------------|
| A Height | mm | 465 | 465 |
| Width | mm | 1 930 | 2 210 |
| B Lifting height | mm | 440 | 440 |
| C Digging depth | mm | 140 | 140 |



Specifications

LIFTING CAPACITY EW65

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 hook related to ground level | | 1.0 m | 2.0 m | 3.0 m | 4.0 m | 5.0 m | Max reach |
|--|--------------------------------------|----|--------|--------|--------|-------|-------|-----------|
| Boom : 2.9 m Arm : 1.6 m Shoe : Single wheel CWT : 500 kg Machine : Front direction Dozerblade : Up | Z2 | kg | - | - | - | 1 160 | - | 820 |
| | Z1 | kg | *3 050 | *2 150 | 1 550 | 1 040 | 780 | 740 |
| | Z3 | kg | - | *2 720 | 1 600 | - | - | 1 280 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Front direction Shoe : Single wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 230 | - | 870 |
| | Z1 | kg | *3 050 | *2 150 | 1 660 | 1 110 | 830 | 780 |
| | Z3 | kg | - | *2 720 | 1 710 | - | - | *1 310 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Rear direction Shoe : Single wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 160 | - | 820 |
| | Z1 | kg | *3 050 | *2 150 | 1 550 | 1 040 | 780 | 740 |
| | Z3 | kg | - | *2 720 | 1 600 | - | - | 1 280 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Rear direction Shoe : Single wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 230 | - | 870 |
| | Z1 | kg | *3 050 | *2 150 | 1 660 | 1 110 | 830 | 780 |
| | Z3 | kg | - | *2 720 | 1 710 | - | - | *1 310 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Front direction Shoe : Single wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 170 | 820 | 750 |
| | Z1 | kg | *1 350 | *2 110 | 1 530 | 1 020 | 750 | 670 |
| | Z3 | kg | *4 120 | 3 000 | 1 560 | - | - | 1 060 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Front direction Shoe : Single wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 240 | 870 | 790 |
| | Z1 | kg | *1 350 | *2 110 | 1 640 | 1 080 | 800 | 710 |
| | Z3 | kg | *4 120 | 3 250 | 1 670 | - | - | 1 120 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Rear direction Shoe : Single wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 170 | 820 | 750 |
| | Z1 | kg | *1 350 | *2 110 | 1 530 | 1 020 | 750 | 670 |
| | Z3 | kg | *4 120 | 3 000 | 1 560 | - | - | 1 060 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Rear direction Shoe : Single wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 240 | 870 | 790 |
| | Z1 | kg | *1 350 | *2 110 | 1 640 | 1 090 | 800 | 720 |
| | Z3 | kg | *4 120 | 3 260 | 1 670 | - | - | 1 130 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.6 m Machine : Front direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | 1 990 | 1 270 | 880 | 770 |
| | Z1 | kg | - | *2 270 | 1 650 | 1 100 | 810 | 700 |
| | Z3 | kg | - | - | *1 050 | *600 | - | *370 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.6 m Machine : Front direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | *2 190 | 1 440 | 1 010 | 890 |
| | Z1 | kg | - | *2 270 | 1 940 | 1 270 | 940 | 810 |
| | Z3 | kg | - | - | *1 050 | *600 | - | *370 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.6 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | 1 990 | 1 270 | 880 | 770 |
| | Z1 | kg | - | *2 270 | 1 650 | 1 100 | 810 | 700 |
| | Z3 | kg | - | - | *1 050 | *600 | - | *370 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.6 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | *2 190 | 1 450 | 1 020 | 890 |
| | Z1 | kg | - | *2 270 | 1 950 | 1 280 | 940 | 810 |
| | Z3 | kg | - | - | *1 050 | *600 | - | *370 |

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.

LIFTING CAPACITY EW65

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 hook related to ground level | | 1.0 m | 2.0 m | 3.0 m | 4.0 m | 5.0 m | Max reach |
|---|--------------------------------------|----|--------|--------|--------|--------|-------|-----------|
| Boom : 3.24 m CWT : 500 kg Arm : 1.9 m Machine : Front direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | 2 030 | 1 280 | 890 | 700 |
| | Z1 | kg | - | *2 370 | 1 630 | 1 080 | 800 | 640 |
| | Z3 | kg | - | *1 480 | *1 430 | *1 010 | - | *480 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.9 m Machine : Front direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | *2 040 | 1 460 | 1 020 | 810 |
| | Z1 | kg | - | *2 370 | 1 910 | 1 250 | 920 | 740 |
| | Z3 | kg | - | *1 480 | *1 430 | *1 010 | - | *480 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.9 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | 2 030 | 1 280 | 890 | 700 |
| | Z1 | kg | - | *2 370 | 1 630 | 1 080 | 800 | 640 |
| | Z3 | kg | - | *1 480 | *1 430 | *1 010 | - | *480 |
| Boom : 3.24 m CWT : 500 kg Arm : 1.9 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | *2 040 | 1 470 | 1 020 | 810 |
| | Z1 | kg | - | *2 370 | 1 920 | 1 260 | 930 | 750 |
| | Z3 | kg | - | *1 480 | *1 430 | *1 010 | - | *480 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Front direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 320 | - | 950 |
| | Z1 | kg | *3 050 | *2 150 | 1 800 | 1 200 | 900 | 850 |
| | Z3 | kg | - | *2 720 | 1 840 | - | - | *1 310 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Front direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 500 | - | 1 070 |
| | Z1 | kg | *3 050 | *2 150 | 2 080 | 1 370 | 1 020 | 970 |
| | Z3 | kg | - | *2 720 | *1 860 | - | - | *1 310 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 320 | - | 950 |
| | Z1 | kg | *3 050 | *2 150 | 1 800 | 1 200 | 900 | 850 |
| | Z3 | kg | - | *2 720 | 1 840 | - | - | *1 310 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.6 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 510 | - | 1 080 |
| | Z1 | kg | *3 050 | *2 150 | 2 090 | 1 380 | 1 030 | 970 |
| | Z3 | kg | - | *2 720 | *1 860 | - | - | *1 310 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Front direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 330 | 940 | 860 |
| | Z1 | kg | *1 350 | *2 110 | 1 770 | 1 180 | 870 | 780 |
| | Z3 | kg | *4 120 | *3 470 | 1 800 | - | - | 1 220 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Front direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 510 | 1 060 | 980 |
| | Z1 | kg | *1 350 | *2 110 | 2 050 | 1 350 | 1 000 | 890 |
| | Z3 | kg | *4 120 | *3 470 | 2 090 | - | - | *1 340 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Up | Z2 | kg | - | - | - | 1 330 | 940 | 860 |
| | Z1 | kg | *1 350 | *2 110 | 1 770 | 1 180 | 870 | 780 |
| | Z3 | kg | *4 120 | *3 470 | 1 800 | - | - | 1 220 |
| Boom : 2.9 m CWT : 500 kg Arm : 1.9 m Machine : Rear direction Shoe : Twin wheel Dozerblade : Down | Z2 | kg | - | - | - | 1 520 | 1 070 | 980 |
| | Z1 | kg | *1 350 | *2 110 | 2 060 | 1 360 | 1 000 | 890 |
| | Z3 | kg | *4 120 | *3 470 | 2 100 | - | - | *1 340 |

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 AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Engine

| | |
|---|---|
| Low-emission Volvo T4 diesel engine | • |
| Two-stage air filter | • |
| Electric engine shutoff | • |
| Fuel filter and water separator without heater | • |
| Water separator with heater | o |
| Fuel filler pump: 35 l/min, with automatic shut-off | o |
| Alternator, 90 A | • |

Electric/Electronic control system

| | |
|---|---|
| Safe engine start function | • |
| Automatic idling system | • |
| LED working lights; | • |
| -Cab-mounted 1 (Front), Boom-mounted 1 (LH) | • |
| Extra working lights; | o |
| -Cab-mounted 1 (Rear), Boom-mounted 1 (RH) | o |
| Master electrical disconnect switch | • |
| Rear view camera | • |
| Battery, 12 V / 100 Ah | • |
| Start motor, 12 V / 2.5 kW | • |
| Caretrack | o |
| Air compressor | o |
| Rotating warning beacon | o |
| Microphone | o |

Hydraulic system

| | |
|--|---|
| Automatic two speed travel motors | • |
| Hammer & shear hydraulic piping | • |
| Hydraulic piping: | o |
| Slope & rotator | o |
| Grapple | o |
| Quick coupler | o |
| Cylinder cushioning | • |
| Hydraulic fluid mineral 46 | • |
| Hydraulic oil, ISO VG 32, 68 | o |
| Hydraulic oil, biodegradable 46 | o |
| Hydraulic oil, longlife oil 32, 46, 68 | o |
| Hose rupture valve for boom | • |
| Overload warning device | • |
| Pilot control change | o |

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Cab and interior

| | |
|---|---|
| Adjustable fabric operator seat with suspension | • |
| PVC operator seat with suspension | o |
| Delux seat (Fabric, PVC) | o |
| Seat belt, 2 inch retractable | • |
| Seat belt, 3 inch retractable | o |
| Control joystick | • |
| Heater and air-conditioner | • |
| Master key | • |
| Hour meter (non analog) | • |

Frame

| | |
|----------------------|---|
| 500 kg counterweight | • |
| Under cover | • |
| Dozer blade | • |

Digging equipment

| | |
|------------|---|
| Boom: 2.9m | • |
| Arm: 1.6m | • |
| Linkage | • |

Service

| | |
|----------------------------|---|
| Tool kit-daily maintenance | • |
| Tool kit, full scale | o |
| Spare parts | o |

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.



V O L V O