

Volvo Excavators 8.6-10.0 t 58 hp



Volvo Construction Equipment



Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

Small machines, big results

With decades of experience in the design and manufacture of compact excavators and wheel loaders, our range of compact machinery is designed with customer success in mind. Built from the same DNA as large Volvo machinery, our compact range sets the standard for efficiency performance and uptime – complemented by an extensive range of Volvo attachments for maximum versatility.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts – such as our award-winning electric compact machines – to ensure we offer our customers machines which deliver big results long into the future.



Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.



BUILDING TOMORROW

Powered to perform

Volvo proudly introduces the new ECR88D compact short swing radius excavator. Featuring a powerful Volvo engine and perfectly matched hydraulic system, this machine delivers high performance, excellent control and low fuel consumption. Sustain optimum power and productivity with Volvo.

Volvo engine

Volvo's premium Tier 4f / Stage V engine delivers superior performance and low fuel consumption. The engine features an Exhaust After Treatment System (EATS) to lower emissions and a regeneration process that does not interrupt operation, performance or productivity.



Slew and boom offset

Slew and boom offset movements are controlled simultaneously for easy and fast positioning of the machine. Joystick control enables precise, smooth and effortless command of the slew and boom offset.



Tractive force

High system pressure delivers impressive tractive force when climbing gradients or traveling over rough terrain. For improved performance, the ECR88D boasts a 16% improvement in tractive force compared to the previous model.





ENHANCED Hydraulics

Volvo's state-of-the-art hydraulic system is perfectly matched to the Volvo engine and components – delivering high performance and improved fuel efficiency. The hydraulic system has been designed for fast response and smooth operation.

Stability you can count on

Whether you're working in the road construction, utilities, landscaping or any other application, the ECR88D will give you access to more jobsites, where you can work closer to obstacles, safely. With a heavy counterweight and strong undercarriage, this machine delivers superior stability. And with easy service access you'll enjoy maintenance made easy with Volvo.

Service access

For 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 and uptime is maximized.



Single pivot pin

Volvo uses a single pivot design that achieves maximum support between main frame and front equipment, This concept increases, stability, durability and lifetime of the components.



MATRIS and VCADS Pro

For increased uptime, Volvo's high-tech, computer-based MATRIS tool allows you to monitor machine usage and analyze machine operation. VCADS Pro analysis and programming software provides fast diagnostics.







Design improvements including a counterweight have shifted the center of gravity towards the rear of the machine. Together with a strong undercarriage, this delivers superior stability while lifting bigger loads.

Visibly better

At Volvo we know that when operators are comfortable they experience less fatigue and work more productively. That's why the premium, Volvo designed cab provides superior visibility, a safe and spacious working environment and easy to access controls. Step inside and see the results for yourself.

Climate control

Control your climate with Volvo's powerful, industry-leading climate control system. With seven well-spaced vents quickly heating or cooling the cab, this air circulation and defrosting system increases comfort and productivity.



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.



Proportional joysticks

Via the joystick controls, the operator can easily adjust the direction and amount of hydraulic flow sent to the attachment. Benefit from the correct speed and power for optimal attachment operation.



Storage

The Volvo cab features ample storage locations for personal belongings including an additional glove-box, side pocket, phone storage, cup holder and a pocket behind the seat.





VOLVO CAB

All-around visibility from slim cab pillars and large expanses of glass is at the center of Volvo's cab design. The ROPS certified cab features vibration and noise isolation, ergonomic controls and an adjustable seat for increased comfort, reduced fatigue and increased 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.



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.

Buckets

A complete range of buckets from general purpose reinforced buckets to ditching buckets, allow the ECR88D to work on many job sites for a wide range of applications. The durable buckets are built to work in loose gravel, crushed rock, dirt and soil.



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.







ATTACHMENTS VERSATILITY

The machine's attachment can be easily changed to save time and costs. Its design, hydraulics, piping and in-cab controls combined with Volvo's attachments range allows the ECR88D to take on a variety of tasks. Volvo attachments work in harmony with the machine to deliver maximum productivity.

Built to get the job done

Enhanced hydraulics

The hydraulic system is perfectly matched to the engine and components for fast response and smooth operation.

Stability

A heavy counterweight and a strong undercarriage deliver superior stability and the ability to lift bigger loads.

Service access

All service check points are accessed from ground level. Grouped filters make regular maintenance easy.

Single pivot pin

Volvo uses a single pivot design that achieves maximum support between main frame and front equipment, This concept increases, stability, durability and lifetime of the components

Optional hydraulics

For increased versatility, auxiliary hydraulic systems are available to enable the operation of a wide range of attachments.

MATRIS and VCADS Pro

The MATRIS tool monitors machine usage and operation. VCADS Pro analysis and programming software provides fast diagnostics.

ECO mode

The ECO mode provides optimal working performance together with fuel saving.



Optional dozer floating

The optional dozer blade float function 'floats' the dozer blade over the ground for improved leveling control and fuel efficiency.

Undercarriage

Durable and strong X-shape undercarriage ensures superior stability and increases Single pivot pin machine lifetime.

Auto engine shutdown

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

Auto idle

Engine speed is reduced to idle when the controls are inactive for more than five seconds or the left-hand console is raised – reducing fuel consumption and noise.

Volvo engine

Tier 4f / Stage V compliant Volvo Engine delivers superior performance with low fuel consumption.



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.

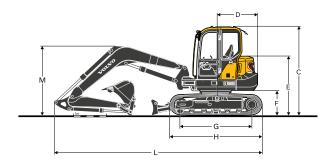
Volvo ECR88D in detail

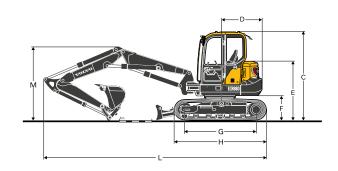
| The new Tier 4f / Stage V compliant diesel engine is turbocharged and water cooled. | equipped | l with in-line, |
|--|------------|-----------------|
| Model | Volvo | D2.6H |
| Max. power at | r/min | 2 000 |
| Net (ISO 9249/SAEJ1349) | kW | 41 |
| | hp | 56 |
| Gross (SAE J1995) | kW | 42.4 |
| | hp | 57 |
| Max. torque | Nm | 220 |
| at engine speed | r/min | 1300 |
| No. of cylinders | | 4 |
| Displacement | I | 2.62 |
| Bore | mm | 87 |
| Stroke | mm | 110 |
| Electrical system | | |
| Voltage | V | 12 |
| Batteries | V | 1 x 12 |
| Battery capacity | Ah | 100 |
| Alternator | V/Ah | 12/70 |
| Starter motor output | V - kW | 12 - 2.5 |
| Hydraulic system | | |
| Open-center, negative hydraulic system providing ac | ccurate co | ntrollabilty |
| Main pump: Variable-displacement pump | | |
| Maximum flow | l/min | 2 x 68 + 54 |
| Pilot pump: Gear pump | | |
| Maximum flow | l/min | 13 |
| Relief valve setting pressure | | |
| Implement | MPa | 29.4 |
| Travel circuit | MPa | 29.4 |
| Swing circuit | MPa | 24.5 |
| Pilot circuit | MPa | 3.4 |
| Swing system | | |
| Direct drive swing with radial piston motor-mainten automatic holding brake anti-rebound valve. | ance free | and |
| Max. swing speed | r/min | 8.3 |
| Max. swing torque | kNm | 22.9 |
| | | |

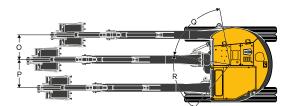
Engine

| Robust X-shaped frame with sea | led and grease | d track chains. | | | | | | | | |
|---|---------------------------------------|--|--|--|--|--|--|--|--|--|
| Track shoes | | | 2 x 3 | | | | | | | |
| Link pitch | | mm | 15 | | | | | | | |
| Shoe width - steel mm 450 / 60 | | | | | | | | | | |
| Shoe width - rubber mm 45 | | | | | | | | | | |
| Bottom rollers 2 x | | | | | | | | | | |
| Top rollers 2 | | | | | | | | | | |
| Travel System | | | | | | | | | | |
| Each track is powered by an auto track brakes are multi-disc, sprin | | | | | | | | | | |
| Travel speed low | | km/h | 2. | | | | | | | |
| Travel speed high | | km/h | 5. | | | | | | | |
| Max. drawbar pull | | kN | 6 | | | | | | | |
| Gradeability | | ٥ | 3 | | | | | | | |
| Service Refill | | | | | | | | | | |
| Fuel tank | | I | 11 | | | | | | | |
| Hydraulic system, total | | I | 14 | | | | | | | |
| Hydraulic tank | | I | 8 | | | | | | | |
| Engine oil | | I | 10. | | | | | | | |
| Engine coolant | | I | 9. | | | | | | | |
| Travel reduction unit | | I | 2 x 1. | | | | | | | |
| Cab | | | | | | | | | | |
| Refrigerant of the type R134a is with air conditioning. Contains fl Warming Potential 1.430 t CO ₂ - | uorinated greer | | | | | | | | | |
| Sound Level | | | | | | | | | | |
| Sound level in cab according to | ISO 6396 | | | | | | | | | |
| L _{pA} | | dB | 7 | | | | | | | |
| External sound level according t 2000/14/EC | o ISO 6395 ar | nd EU Noise D | 1 | | | | | | | |
| | | | Irective | | | | | | | |
| L _{WA} | | dB | | | | | | | | |
| L _{WA} | | dB | 9 | | | | | | | |
| L _{WA} | Width | dB Weight | 9 Capacity | | | | | | | |
| L _{WA} | mm | Weight kg | 9 Capacity I | | | | | | | |
| L _{WA} | mm 300 | Weight kg 111 | 9 Capacity I 79 | | | | | | | |
| L _{WA} Buckets | mm 300 450 | Weight kg 111 139 | 9 Capacity 1 79 143 | | | | | | | |
| L _{WA} | mm 300 450 600 | Weight kg 111 139 162 | 9 Capacity 1 79 143 200 | | | | | | | |
| L _{WA} Buckets | mm 300 450 600 750 | Weight kg 111 139 162 182 | 9 Capacity 1 79 143 200 266 | | | | | | | |
| L _{WA} Buckets | mm 300 450 600 750 900 | Weight kg 111 139 162 182 205 | 9 Capacity 1 79 143 200 266 333 | | | | | | | |
| L _{WA} Buckets | mm 300 450 600 750 900 450 | Weight kg 111 139 162 182 205 132 | 9 Capacity 1 79 143 200 266 333 143 | | | | | | | |
| L _{WA} Buckets | mm 300 450 600 750 900 | Weight kg 111 139 162 182 205 | 9 Capacity 1 79 143 200 266 333 | | | | | | | |

Specifications







| DIN | DIMENSIONS | | | | | | | |
|-----|----------------------------------|--------|---------------|---------------|---------------|---------------|--|--|
| Ma | chine | ECR88D | | | | | | |
| Boo | m | 3.55 (| mono) | 3.85 | (2pcs) | | | |
| Arm | 1 | m | 1.7 | 2.1 | 1.7 | 2.1 | | |
| А | Overall width of upper structure | mm | 2 260 | 2 260 | 2 260 | 2 260 | | |
| В | Overall width | mm | 2 300 / 2 450 | 2 300 / 2 450 | 2 300 / 2 450 | 2 300 / 2 450 | | |
| С | Overall height of cab | mm | 2 715 | 2 715 | 2 715 | 2 715 | | |
| D | Tail swing radius | mm | 1 290 | 1 2 9 0 | 1 3 2 0 | 1 3 2 0 | | |
| Е | Overall height of engine hood | mm | 1 810 | 1 810 | 1 810 | 1 810 | | |
| F | Counterweight clearance * | mm | 760 | 760 | 760 | 760 | | |
| G | Tumbler length | mm | 2 200 | 2 200 | 2 200 | 2 200 | | |
| Н | Track length | mm | 2 830 | 2 830 | 2 830 | 2 830 | | |
| 1 | Track gauge | mm | 1850 | 1850 | 1850 | 1850 | | |
| J | Shoe width | mm | 450/600 | 450/600 | 450/600 | 450/600 | | |
| К | Min. ground clearance * | mm | 405 | 405 | 405 | 405 | | |
| L | Overall length | mm | 6 370 | 6 4 2 0 | 6 810 | 6 860 | | |
| М | Overall heght of boom | mm | 2 115 | 2 230 | 2 247 | 2 455 | | |
| 0 | Boom swing distance | mm | 760 | 760 | 756 | 756 | | |
| Ρ | Boom swing distance | mm | 860 | 860 | 863 | 863 | | |
| Q | Boom swing angle | 0 | 7 | 0 | 70 | | | |
| R | Boom swing angle | 0 | 6 | 0 | 6 | 0 | | |
| | | | | | | | | |

* Without shoe grouser

Specifications





Boom and Arm

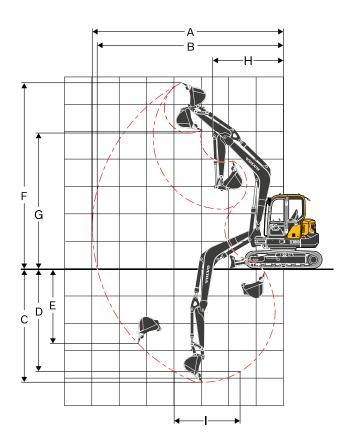
| | | | Bo | om | A | rm |
|---|--------|----|---------------|---------------|-------|-------|
| | | | 3.55 m (mono) | 3.85 m (2pcs) | 1.7 m | 2.1 m |
| А | Length | mm | 3 700 | 4 030 | 2 283 | 2 684 |
| В | Heigth | mm | 1 2 4 4 | 983 | 518 | 562 |
| | Width | mm | 335 | 340 | 305 | 305 |
| | Weight | kg | 530 | 774 | 280 | 340 |

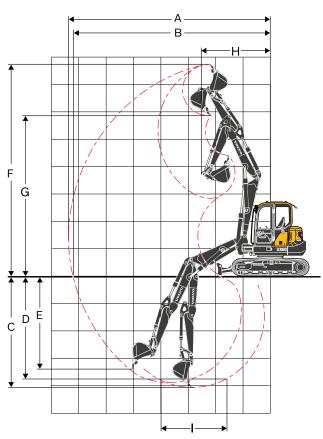
Boom: Includes cylinder, piping and pin, excludes boom cyl. Pin. Arm: Includes cylinder, linkage and pin.

| Doz | er blade | | |
|-----|----------------|----|-------|
| А | Height | mm | 470 |
| | Width | mm | 2 300 |
| В | Lifting height | mm | 518 |
| С | Digging depth | mm | 433 |



| | Shoe width | Operating weight | Ground pressure kPa | | | | |
|-----------------------------------|--------------------------------------|------------------|------------------------|--|--|--|--|
| | mm | kg | | | | | |
| Mono boom 3.55 m, Arm 1.7 m, Bu | cket 188 kg (266 l), Counterweight | 400 / 1 610 kg | | | | | |
| Steel track | 450 | 8 939 / 9 149 | 40.2 / 41.1 | | | | |
| | 600 | 9 108 / 9 318 | 30.7 / 31.4 | | | | |
| Rubber track | 450 | 8 752 / 8 962 | 39.4 / 40.3 | | | | |
| Rubber pad | 450 | 8 988 / 9 198 | 40.2 / 41.2 | | | | |
| Nono boom 3.55 m, Arm 2.1 m, Buc | cket 188 kg (266 l), Counterweight 1 | 400 / 1 610 kg | | | | | |
| Steel track | 450 | 8 997 / 9 207 | 40.5 / 41.4 | | | | |
| | 600 | 9 166 / 9 376 | 30.7 / 31.6 | | | | |
| Rubber track | 450 | 8 810 / 9 020 | 39.6 / 40.6 | | | | |
| Rubber pad | 450 | 9 046 / 9 256 | 40.5 / 41.4 | | | | |
| 2pcs boom 3.85 m, Arm 1.7 m, Buc | ket 188 kg (266 l), Counterweight 1 | 610 kg | | | | | |
| Steel track | 450 | 9 488 | 42.7 | | | | |
| | 600 | 9 656 | 32.6 | | | | |
| Rubber track | 450 | 9 301 | 41.8 | | | | |
| Rubber pad | 450 | 9 537 | 42.7 | | | | |
| 2pcs boom 3.85 m, Arm 2.1 m, Bucl | ket 188 kg (266 l), Counterweight 1 | 610 kg | | | | | |
| Steel track | 450 | 9 546 | 42.9 | | | | |
| | 600 | 9 714 | 32.8 | | | | |
| Rubber track | 450 | 9 359 | 42.1 | | | | |
| Rubber pad | 450 | 450 9 595 | | | | | |





| WORKING RANGES | | | | | | |
|---------------------------------------|-----------|------|-------|--------|-------|--------|
| Description | | Unit | | | | |
| Boom | | m | 3.55 | (mono) | 3.85 | (2pcs) |
| Arm | | m | 1.7 | 2.1 | 1.7 | 2.1 |
| A Max. digging reach | | mm | 6 970 | 7 350 | 7 380 | 7 790 |
| B Max. digging reach on ground | | mm | 6 800 | 7 180 | 7 220 | 7 640 |
| C Max. digging depth | | mm | 4 130 | 4 530 | 4 090 | 4 480 |
| D Max.digging depth (I=2 440mm level) | | mm | 3 750 | 4 200 | 3 790 | 4 220 |
| E Max. vertical wall digging depth | | mm | 2 820 | 3 200 | 3 430 | 3 870 |
| F Max. cutting height | | mm | 6 790 | 7 050 | 7 720 | 8 240 |
| G Max. dumping height | | mm | 4 960 | 5 220 | 5 840 | 6 380 |
| H Min. front swing radius | | mm | 2 560 | 2 640 | 2 530 | 2 700 |
| Digging forces with direct fit bucket | | | | | | |
| Duranland four (humbot) | SAE J1179 | kN | 50.7 | 50.4 | 50.7 | 50.4 |
| Breakout force (bucket) | ISO 6015 | kN | 57.2 | 56.8 | 57.2 | 56.8 |
| T | SAE J1179 | kN | 38.9 | 33.8 | 38.9 | 33.8 |
| Tearout force (arm) | ISO 6015 | kN | 39.8 | 34.4 | 39.8 | 34.4 |
| Rotation angle, bucket | | 0 | 1 | 190 | 19 | 90 |

Specifications

LIFTING CAPACITY ECR88D

| 101111 | 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. | | | | | | | | | | | | | | | | | | |
|--------|--|------------|-------|----------|-----------|-----------|--------|--------|---------|--------|---------|--------|-----------------|---------|--------|------------|----------------|------------|----------------|
| | | | | | 1.0 |) m | 2.0 |) m | 3.0 |) m | 4.0 |) m | 5.0 | m | 6.0 |) m | N | lax. read | ch |
| | | Liftin | ig po | sinτ | Along | Across | Along | Across | Along | Across | Along | Across | Along | Across | Along | Across | Along | Across | mm |
| Boom | 3.55 m | 5.0 | m | kg | | | | | | | *1 540 | *1540 | | | | | *1 620 | *1 620 | 4 585 |
| Arm | 1.7 m | 4.0 | m | kg | | | | | | | *1 600 | *1600 | *1560 | 1450 | | | *1 580 | 1290 | 5 3 4 5 |
| Shoe | Rubber 450 mm | 3.0 | m | kg | | | | | *2 510 | *2 510 | *1 920 | *1920 | *1660 | 1420 | | | *1 550 | 1 110 | 5 789 |
| CWT | 1400 kg | 2.0 | m | kg | | | | | *3 740 | 2 940 | *2 360 | 1920 | *1 850 | 1 370 | *1 610 | 1030 | *1 600 | 1030 | 6 0 0 3 |
| Dozer | blade down | 1.0 | m | kg | | | | | | | *2 720 | 1830 | *2 030 | 1330 | *1 650 | 1 010 | *1 650 | 1 010 | 6 014 |
| | | 0.0 | m | kg | | | | | *3 810 | 2 750 | *2 850 | 1780 | *2 100 | 1290 | | | *1 690 | 1040 | 5 825 |
| | | -1.0 | m | kg | | | *3 570 | *3 570 | *3 890 | 2 760 | *2 730 | 1 770 | *2 000 | 1290 | | | *1730 | 1160 | 5 410 |
| | | -2.0 | m | kg | | | *4 870 | *4 870 | *3 240 | 2 800 | *2 310 | 1790 | | | | | *1740 | 1430 | 4 695 |
| | | -3.0 | m | kg | | | | | *1 930 | *1 930 | | | | | | | *1540 | *1540 | 3 4 3 3 |
| Boom | 3.55 m | 5.0 | m | kg | | | | | | | *1 540 | *1 540 | | | | | *1 620 | 1580 | 4 585 |
| Arm | 1.7 m | 4.0 | m | kg | | | | | | | *1 600 | *1 600 | *1 560 | 1 370 | | | 1540 | 1220 | 5 3 4 5 |
| Shoe | Rubber 450 mm | 3.0 | m | kg | | | | | *2 510 | *2 510 | *1 920 | 1 910 | *1660 | 1340 | | | 1340 | 1050 | 5 789 |
| CWT | 1400 kg | 2.0 | m | kg | | | | | 3 580 | 2 750 | 2 310 | 1 810 | 1650 | 1290 | 1240 | 970 | 1240 | 970 | 6 0 0 3 |
| Dozer | blade up | 1.0 | m | kg | | | | | | | 2 2 2 0 | 1720 | 1600 | 1250 | 1220 | 950 | 1220 | 950 | 6 014 |
| | | 0.0 | m | kg | | | | | | | | | 1 570 | | | | 1260 | 980 | 5 825 |
| | | -1.0 | | | | | | | | | | | 1560 | 1 210 | | | | 1090 | |
| | | -2.0 | | | | | *4 870 | *4 870 | *3 240 | | 2 180 | 1690 | | | | | | 1350 | |
| | | -3.0 | | | | | | | *1 930 | *1 930 | | | | | | | *1 540 | *1540 | 3 4 3 3 |
| Boom | 3.55 m | 6.0 | | - | | | | | | | | | | | | | *1 520 | | |
| Arm | 2.1 m | 5.0 | | | | | | | | | | | *1 400 | | | | *1330 | | |
| | Rubber 450 mm | | | | | | | | | | | | *1360 | | | | *1 230 | | |
| | 1400 kg | | m | 0 | | | | | | | | | *1490 | | | | | | 6 184 |
| Dozer | blade down | 2.0 | | 0 | | | | | | | | | *1700 | | | | | 910 | 6 382 |
| | | 1.0 | m | | | | | | | | | | *1 910 | | | | *1330 | | 6 393 |
| | | 0.0 | | | | | | | | | | | *2 040 | | *1 610 | 970 | *1 490 | | 6 217 |
| | | | | | | | | | | | | | *2 020 | | | | | 1000 | |
| | | | | | *3 990 | *3 990 | | | | | | | *1750 | 1260 | | | *1 600 | | |
| | 0.55 | -3.0 | | | | | *3 940 | ^3 940 | ^2 550 | ^2 550 | *1690 | ^1690 | | | | | | *1 560 | |
| | 3.55 m | 6.0 | | | | | | | | | | | *1 4 0 0 | 1 0 7 0 | | | *1 520 | | |
| | 2.1 m | | m | | | | | | | | | | *1400 | | | | *1 330 | | |
| | Rubber 450 mm | | | | | | | | | | *1 000 | *1 000 | *1360 | | 1.05.0 | 000 | *1 230 | | |
| | 1 400 kg blade up | 3.0 2.0 | | | | | | | *2 100 | 0.010 | | | *1 490 1 640 | | | 980 960 | 1 190 | 930 860 | 6 184 |
| Dozer | biade up | | | | | | | | | | | | 1 5 8 0 | | | 980 | 1 110 1 090 | 840 | 6 382 6 393 |
| | | 0.0 | m | _ | | | | | | | | | 1540 | | 1 180 | 910 | 1 120 | 860 | 6 217 |
| | | | | 5 | *2 670 | *2 670 | *3 000 | *3 000 | | | | | 1520 | | 1100 | 910 | 120 | 940 | 5 835 |
| | | | | | | | | | | | | | 1540 | | | | | 1 130 | |
| | | -3.0 | | | 5 5 5 5 0 | 5 5 5 5 0 | *3 940 | | | | | | 1340 | 1100 | | | *1560 | | |
| Boom | 3.55 m | 5.0 | _ | | | | 3 340 | 3 340 | 2 3 3 0 | 2 330 | *1 540 | | | | | | *1 620 | | |
| Arm | | 4.0 | | 0 | | | | | | | | | *1 560 | 1530 | | | *1 580 | | |
| | Rubber 450 mm | | | <u> </u> | | | | | *2 510 | *2 510 | | | *1 660 | | | | *1 550 | | |
| | 1 610 kg | 2.0 | | | | | | | | | | | *1 850 | | *1 610 | | | | |
| | blade down | 1.0 | | _ | | | | | 0110 | 0 110 | | | *2 030 | | | | | | |
| 2020 | | 0.0 | | - | | | | | *3 810 | 2 930 | | | *2 100 | | | | *1 690 | | |
| | | -1.0 | | | | | *3 570 | *3 570 | | | | | *2 000 | | | | *1 730 | | |
| | | -2.0 | | - | | | | | *3 240 | | | | | | | | | 1 5 3 0 | |
| | | -3.0 | | | | | | | | *1930 | | | | | | | *1540 | | |
| Boom | 3.55 m | 5.0 | | | | | | | | | | *1 540 | | | | | *1 620 | | |
| Arm | | 4.0 | | 0 | | | | | | | | | *1 560 | 1450 | | | *1 580 | | |
| | Rubber 450 mm | | | - | | | | | *2 510 | *2 510 | | | *1660 | | | | | 1 1 2 0 | |
| | 1 610 kg | 2.0 | | | | | | | | | | | 1740 | | 1320 | 1030 | | | |
| | blade up | 1.0 | | - | | | | | | | | | 1690 | | | | | | |
| | | 0.0 | | - | | | | | 3 580 | 2 740 | | | 1660 | | | | | 1050 | |
| | | -1.0 | m | kg | | | *3 570 | *3 570 | | | | | 1 650 | | | | 1490 | 1 160 | 5 410 |
| | | -2.0 | | - | | | *4 870 | *4 870 | *3 240 | 2 790 | 2 300 | 1800 | | | | | *1 740 | 1440 | 4 6 9 5 |
| | | | | kg | | | | | +1 000 | *1 930 | | | | | | | *1 5 4 0 | *1 E 4 O | 3 4 3 3 |

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 EC Lifting capacity at the ar | | out buck | et. | | | | | | | | | | | | | |
|---|------------------------|----------|--------|----------|---------|------------|------------|----------|---------|----------------|---------|--------------|------------|----------------|----------------|--------------|
| For lifting capacity includ | | | - | actual w | eight o | f the dire | ect fit bu | ucket or | the buc | ket with | quick c | oupler fr | om the | following | g values | |
| | | 1.0 |) m | 2.0 | m | 3.0 | m | 4.0 |) m | 5.0 |) m | 6.0 |) m | N | - lax. read | h |
| | Lifting poin | Along | Across | Along | Across | Along | Across | Along | Across | Along | Across | Along | Across | Along | Across | mm |
| Boom 3.55 m | 6.0 m kç | 3 | | | | | | | | | | | | *1 520 | *1 520 | 3 96 |
| Arm 2.1 m | 5.0 m kę |] | | | | | | | | *1400 | *1400 | | | *1 330 | *1 330 | 5 09 |
| Shoe Rubber 450 mm | 4.0 m kg | 9 | | | | | | | | *1360 | *1360 | | | *1 230 | 1 190 | 5 77 |
| CWT 1610 kg | 3.0 m kç | 9 | | | | | | *1660 | *1660 | *1 490 | *1 490 | *1 410 | 1 110 | *1 210 | 1 0 5 0 | 6 18 |
| Dozer blade down | 2.0 m kg | 3 | | | | *3 190 | 3 170 | *2 120 | 2 0 4 0 | *1 700 | 1450 | *1 490 | 1080 | *1 250 | | 6 38 |
| | 1.0 m kç | · | | | | *3 640 | 2 950 | *2 540 | 1930 | *1 910 | 1390 | *1 580 | 1060 | *1 330 | 960 | 639 |
| | 0.0 m kg | , | | | | | | | | *2 040 | | *1 610 | 1040 | | | 6 21 |
| | -1.0 m kg | - | | | | | | | | | | | | | 1 070 | |
| | -2.0 m kę | | *3 990 | | | | | | | *1 750 | 1340 | | | | 1280 | |
| | -3.0 m kę | | | *3 940 | *3 940 | *2 550 | *2 550 | *1 690 | *1 690 | | | | | | *1560 | |
| Boom 3.55 m | 6.0 m kç | | | | | | | | | 44.400 | | | | | *1 520 | |
| Arm 2.1 m | 5.0 m kç | - | | | | | | | | *1 400 | | | | | *1 330 | |
| Shoe Rubber 450 mm | - | , | | | | | | +1 000 | *1 000 | *1 360 | | 1000 | 1050 | *1 230 | | 5 77 |
| CWT 1610 kg | 3.0 m kg | - | | | | *2 10.0 | 0.000 | | | *1 490 | | | | | 990 | 6 18 |
| Dozer blade up | 2.0 m kg | | | | | | | | | *1700 | | 1 3 0 0 | | 1 180 | 920 | 638 |
| | 1.0 m kg | | | | | | | | | 1 670 1 630 | | 1270 1250 | 990 970 | 1 160 1 190 | 900 930 | 6 39 6 21 |
| | 0.0 m kg -1.0 m kg | | *9 670 | *3 000 | *3 000 | | | | | | 1270 | 1250 | 970 | | 930 1 010 | 583 |
| | -2.0 m kg | - | | | | | | | | | | | | | 1 210 | |
| | -3.0 m kg | | 0.000 | *3 940 | | | | | | | 1270 | | | | *1560 | |
| Boom 3.85 m 2-piece | 6.0 m kg | | | 3 340 | 5 540 | 2 330 | 2 330 | | *2 070 | | | | | - | *2 070 | |
| Arm 1.7 m | 5.0 m kç | | | | | | | | | *1 730 | 1490 | | | *1 700 | | 5 14: |
| Shoe Rubber 450 mm | | - | | | | *2 540 | *2 540 | | | *1 710 | | | | | 1 120 | |
| CWT 1610 kg | 3.0 m kg | , , | | | | 20.0 | 2010 | | | *1 820 | | *1540 | 1050 | | 980 | 6 2 2 |
| Dozer blade down | 2.0 m kç | | | | | | | | | *1940 | | | | | 910 | 6 41 |
| | 1.0 m kç | , , | | | | | | | | *2 000 | | | | | 890 | 6 4 2 |
| | 0.0 m kç | | | | | | | | | *1940 | | | | | | 6 2 5 |
| | -1.0 m kç | - | | | | *2 840 | 2 730 | | | *1 710 | | | | | 1 010 | 5 87 |
| | -2.0 m kç | - | | | | *2 080 | *2 080 | *1 700 | *1700 | *1 180 | *1 180 | | | *970 | *970 | 5 2 3 |
| Boom 3.85 m 2-piece | 6.0 m kç | 3 | | | | | | *2 070 | 2 0 4 0 | | | | | *2 070 | 2 010 | 4 02 |
| Arm 1.7 m | 5.0 m kg | 3 | | | | | | *1 880 | *1 880 | *1 730 | 1 410 | | | 1680 | 1330 | 5 142 |
| Shoe Rubber 450 mm | 4.0 m kg | 3 | | | | *2 540 | *2 540 | *2 000 | *2 000 | *1 710 | 1400 | | | 1360 | 1060 | 5 816 |
| CWT 1610 kg | 3.0 m kg | 9 | | | | | | *2 290 | 1930 | 1720 | 1350 | 1280 | 990 | 1 190 | 920 | 6 22 |
| Dozer blade up | 2.0 m kg | 3 | | | | | | 2 300 | 1 790 | 1650 | 1290 | 1250 | 960 | 1 110 | 860 | 6 418 |
| | 1.0 m kg | 3 | | | | | | 2 190 | 1680 | 1 590 | 1230 | 1220 | 930 | 1090 | 840 | 6 4 2 8 |
| | 0.0 m kę | 3 | | | | | | 2 140 | 1630 | 1550 | 1 190 | 1200 | 910 | 1130 | 860 | 6 254 |
| | -1.0 m kç | | | | | | | | | 1540 | | | | *1 190 | 950 | 5 875 |
| | -2.0 m kę | | | | | *2 080 | *2 080 | *1700 | 1650 | *1 180 | *1 180 | | | *970 | *970 | 5 2 38 |
| Boom 3.85 m 2-piece | 7.0 m kę | | | | | | | | | | | | | *2 380 | | |
| Arm 2.1 m | 6.0 m kç | | | | | | | | *1760 | | | | | | *1540 | |
| Shoe Rubber 450 mm | | - | | | | | | | | *1 540 | | 44 100 | 1.070 | | 1 190 | |
| CWT 1610 kg | 4.0 m kç | | | | | +0.0.0 | +0.015 | | | *1 570 | | | | | 980 | 6 25 |
| Dozer blade down | 3.0 m kç | - | | | | ^2 910 | ^2 910 | | | *1 690 | | | | | | 6 62 |
| | 2.0 m kg | , | | | | | | | | *1 840 | | | | | 810 | 6 80 |
| | 1.0 m kg | | | | | *0 150 | | | | *1 940 | | | | *1 230 | | 6 81 |
| | 0.0 m kg -1.0 m kg | | | *2 060 | *2 060 | | | | | *1 930 | | | | *1 180 | 810 880 | 6 65 6 30 |
| | -1.0 m kç -2.0 m kç | | | *3 010 | | | | | | | | 1290 | 540 | *940 | | 5 72 |
| | -3.0 m kç | | | 3 010 | 3 0 10 | *1 420 | | | | 1410 | 1220 | | | *610 | | 4 810 |
| Boom 3.85 m 2-piece | 7.0 m kç | | | | | 1420 | 1420 | - 110 | 1110 | | | | | *2 380 | | |
| Arm 2.1 m | 6.0 m kg | - | | | | | | *1 760 | *1 760 | | | | | | *1540 | |
| | 5.0 m kç | | | | | | | | | *1 540 | 1440 | | | | 1 1 3 4 0 | |
| CWT 1610 kg | 4.0 m kç | - | | | | | | | | *1 570 | | 1300 | 1 0 1 0 | 1 190 | | 6 25 |
| Dozer blade up | 3.0 m kç | | | | | *2 910 | *2 910 | | | *1 690 | | | 990 | 1060 | 810 | 6 62 |
| | 2.0 m kg | | | | | 2 0 10 | 2010 | | | 1650 | | | 950 | 1000 | 760 | 6 80 |
| | 1.0 m kg | - | | | | | | | | 1 570 | | | 910 | 980 | 740 | 6 81 |
| | 0.0 m kg | 5 | | | | *2 150 | *2 150 | | | 1 5 2 0 | | 1 170 | 880 | 1000 | 760 | 6 65 |
| | -1.0 m kç | | | *2 060 | *2 060 | | | | | | | 1 160 | 870 | 1080 | 820 | 6 30 |
| | -2.0 m kg | - | | *3 010 | | | | | | | | | 5.0 | *940 | | 5 726 |
| | | 3 | | 2 0.0 | | *1420 | | | | | | | | *610 | | 4 81 |

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

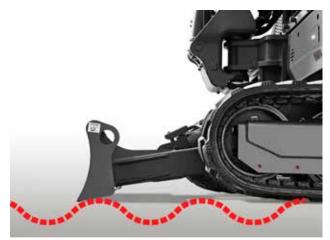
| STANDARD EQUIPMENT | OPTIONAL EQUIPMENT |
|--|---|
| Engine | Electric / Electronic control system |
| Low-emission Tier 4f / Stage V compliant diesel engine | Fuel filler pump: 35 l/min, with automatic shut-off |
| Standard cooling system | Auto engine shutdown |
| Two-stage air filter | LED light |
| Fuel filter and water separator | Extra working lights: |
| Alternator, 70 A | 1ea on Cab rear |
| Full auto regeneration | 1ea on boom LH |
| ECO mode | 1ea on boom LH (1st boom) for 2-piece boom |
| Electric / Electronic control system | Caretrack |
| Safe engine start function | Travel alarm |
| Automatic idling system | Anti theft, code-lock |
| Halogen working lights: | Rotating warning beacon |
| 2ea on Cab front top LH/RH each | Frame |
| Battery, 12 V / 100 Ah | Rearview mirror |
| Start motor, 12 V / 2.5 kW | Rearview Camera |
| Monitor and keypad | Dozer blade with floating function |
| Master electrical disconnect switch | 1 610kg Heavy counterweight |
| Frame | Wide dozer blade for 600mm shoe |
| 1 400kg counterweight | Undercarriage |
| Under cover | 450mm, 600mm steel track |
| Dozer blade | 450mm rubber pad |
| Undercarriage | Hydraulic system |
| Greased and sealed track link | Hydraulic piping: |
| 450mm rubber track | Breaker & shear |
| Hydraulic system | Breaker & shear - Max. flow: 118 I/min (X1 single) 68 I/min (X1 double) - Pressure: 21.6 MPa (X1 single) 29.4 MPa (X1 double) |
| Automatic two speed travel motors | Slope & rotator |
| Cylinder cushioning | - Max. flow: 28 l/min - Pressure: 14.7 Mpa |
| Hydraulic fluid mineral 46 | Grapple |
| Cab and interior | Quick coupler |
| Glasses | ISO/SAE pilot control pattern change |
| Cup holder | Hose rupture valve for boom and arm |
| Storage area | Overload warning device |
| Door locks | Hydraulic oil, ISO VG 32, 68 |
| Floor mat | Hydraulic oil, biodegradable 46 |
| Horn | Hydraulic oil, longlife oil 46 |
| Seat belt, 2 inch retractable | Arm cyl Pipe with HRV 2 piece boom |
| Seat belt alarm | Cab and interior |
| Heater and air-conditioner | Carecab |
| Fabric operator seat without heater | Сапору |
| Control joystick | Fabric operator seat with heater |
| Travel pedals and hand levers | PVC operator seat without heater |
| Master key | PVC operator seat with heater |
| Hour meter (non analog) | Fabric operator seat with heater with Air suspension |
| Digging equipment | PVC operator seat with heater with Air suspension |
| Boom: 3.55m, Arm: 1.7m | Headrest |
| Linkage | Control joystick, X3 proportional |
| Service | Seat belt, 3 inch retractable |
| Tool kit-daily maintenance | Radio with MP3/AUX |
| Official approval | Boom swing pedal |
| Machine conforming to European directive 2006/42/EC | Rain visor |
| Noise emissions in the environment conforming to directive 2000/14/EC | Digital hour meter |
| Hand Arm vibrations, Whole body vibrations compliant with directive | Cab mounted FOG (Falling Object Guard) |
| 2002/44/EC | FOPS (Falling Object Protection Structure) |
| Electromagnetic compatibility (EMC) conforming to European directive 2004/108/EC and its amendments | Sun screen, front/roof |
| Object handling device conforming to EN474-1 and EN474-5 standards (when equipped) | Safety net Digging equipment |
| FOPS Level 2 conforming to ISO3449 standard (when equipped) | 2-piece boom: 3.85m |
| ROPS conforming to ISO12117-2 standards | Arm: 2.1m |
| TOPS conforming to ISO12117 and EN 13531 standards | Service |
| FOG Level 2 conforming to ISO10262 standard and SAE J1356 | Tool kit, full scale |
| standard (when equipped) | Spare parts |

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Slope and rotator piping



Dozer float



Caretrack



Fuel filler pump

Rearview Camera



Digital hour meter



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.

VOLVO