

V O L V O



Volvo Excavators 19,8-21,8 t / 43.651-48.061 lb 176 hp

EW205D

Volvo Construction Equipment

Unrivalled fuel efficiency

Introducing the EW205D from Volvo – a new 20 ton (44.092 lb) wheeled excavator designed to drive your efficiency up. With advanced technology including Volvo's unique ECO mode and a powerful Volvo engine, this superior digging and mobile tool carrying machine works with ultimate efficiency both off and on-road.

Volvo engine

Featuring proven, advanced technology and built on decades of experience, the Volvo D6 engine delivers the ultimate combination of low fuel consumption and high productivity. Benefit from superior performance, reliability and durability.



Automatic idling system

Engine speed is reduced to idle when the controls are inactive for a pre-set amount of time (between 3 and 20 seconds). This reduces fuel consumption and noise.

Optimized piping

The large diameter of the hydraulic piping on the boom and arm reduces pressure losses and improves fuel efficiency.

Work modes

Volvo's unique, integrated work mode system optimizes fuel efficiency and machine performance. The operator can choose the best work mode for the task at hand – select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max).



Auto engine shut down

To reduce fuel consumption, the engine will automatically switch off when the machine is inactive for a pre-set amount of time (five minutes is the default setting).





ECO MODE

Volvo's unique ECO mode optimizes the hydraulic system to reduce flow and pressure losses – resulting in improved fuel efficiency without any loss of performance in most operating conditions. ECO mode is automatically selected but can be switched off via the keypad.

Command and control

If you're looking for superior controllability and smooth and responsive movements then look no further than the EW205D. Featuring advanced hydraulics and an electronic flow-dividing control system, this excavator delivers an outstanding performance in both single and combined operations.

Electronic flow-dividing control system

The Proportional Pressure Reducing Valve (PPRV) ensures the right amount of flow is delivered to each operation. This results in optimized control – delivering smooth and responsive movements during combined operations.



Main control valve

The newly developed main control valve is designed to reduce internal pressure losses and enhance the efficiency of the hydraulic system.



Breaker and shear pedal

The electronically-controlled breaker and shear foot pedal delivers superior control and ease of operation.





ADVANCED HYDRAULICS

The full electro-hydraulic system and main control valve use intelligent technology to control on-demand flow and reduce internal losses in the hydraulic circuit. This provides increased control, shorter cycle times and improved fuel efficiency.

Stability you can rely on

Whether you're working in the road construction, utilities, landscaping or any other application, the EW205D has been built to handle tough terrain and work on a variety of jobsites. With a strong undercarriage and a rigid main frame, this well-balanced and durable excavator boasts superior stability.

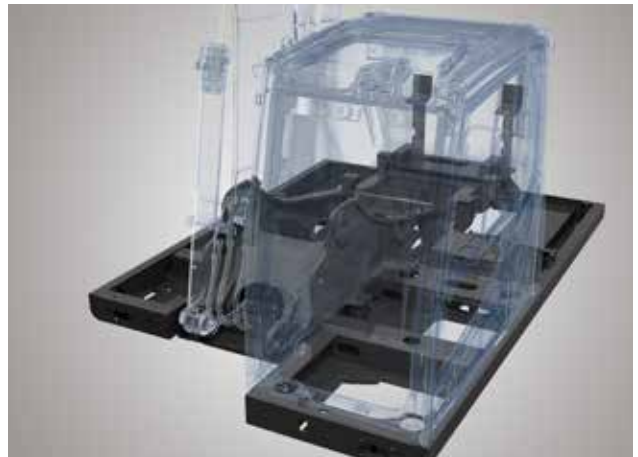
Axle lock

For superior ground contact when traveling and operating on a slope or uneven terrain, the front axle oscillates. To keep the machine level and secure stability, the axle lock function can be both manually and automatically activated.



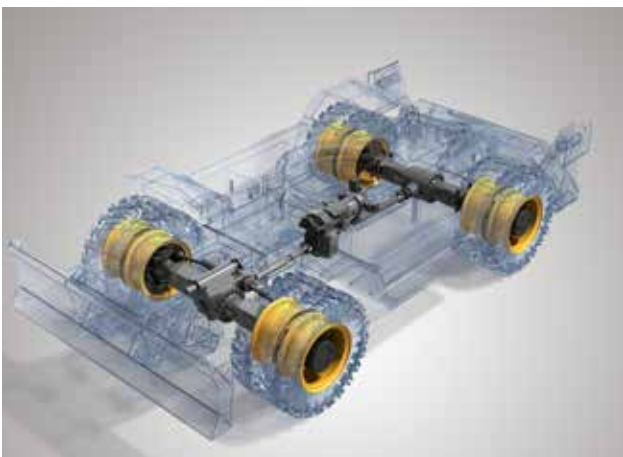
Rigid main frame

The strong structure easily absorbs impacts transferred through the digging equipment. Reinforced welding between the center and side frames, and the boom and boom cylinder mounts, increases durability.



Well-balanced driveline

The ideally-matched, Volvo driveline has been built to work in perfect harmony. The durable Volvo design delivers excellent control for smooth travel, superior performance and high productivity.



Dozer blade and outriggers

A robust dozer blade and outriggers optimize machine stability and increase versatility – enabling the excavator to carry out a variety of tasks including lifting, loading and grading.





STABLE UNDERCARRIAGE

The well-balanced undercarriage is made from strong steel for maximum durability when operating in rough terrain as well as ultimate stability when lifting heavy loads.

Comfort counts

When you have a long day ahead of you it's important to know you'll be working in comfort. That's why Volvo has developed a spacious and comfortable operating environment with ergonomic controls, all-around visibility and vibration protection. Experience new levels of comfort and get the job done with Volvo.

I-ECU monitor

The color, seven inch LCD monitor displays machine status information including fuel consumption data and service interval alerts – enabling increased uptime and high productivity. The user-friendly design is easy to read in all light conditions.



Volvo seat

The fully adjustable seat has been designed to enhance operator comfort during long work shifts. An optional air suspension and heated seat are available for ultimate comfort.



Adjustable steering column

The slim design of the easily adjustable steering column enables easy entry to the cab while also ensuring visibility is not impaired. The angle of the steering column is changed by simply pushing a pedal.



Climate control

Volvo's powerful, industry-leading climate control system provides superior operator comfort. The air circulation and defrosting system features 14 well-spaced vents which quickly heat or cool the cab.





VOLVO CAB

With slim cab pillars and large expanses of glass, the Volvo ROPS cab offers all-around visibility and ultimate safety both on and off-road. For increased operator comfort, controls and switches are ideally placed while rubber cab mounts improve shock absorption and reduce vibration.

Access more uptime

Even a Volvo machine requires service and maintenance in order to work as efficiently and productively as possible. But the difference is that Volvo makes maintenance easy – giving you more uptime. With grouped service points and safe and easy access to components, you'll get the most out of each working day.

Large toolbox

For easy daily maintenance and increased uptime, a spacious toolbox is located between the steps on the left side of the machine.



Single layer cooling system

The radiator, charged air cooler and hydraulic oil cooler are integrated in a single layer to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed by opening the side door.



Service interval display

For easy maintenance and increased machine uptime, four service interval alerts on the monitor inform the operator when maintenance is required.



Grouped filters

Grouped filters are quick and easy to access from ground level for fast servicing.





EASY SERVICE ACCESS

Rear access behind the cab, along with sturdy steps and handrails, provides safe and easy maintenance access to the superstructure. Centralized greasing points permit regular checks to be done faster for maximum machine uptime.

The machine that does more

Electronic flow-dividing control system

The Proportional Pressure Reducing Valve (PPRV) ensures the right amount of flow is delivered to each operation.

Serviceability

Grouped filters and centralized greasing points permit regular checks to be done faster for maximum machine uptime.

Advanced hydraulics

The full electro-hydraulic system and main control valve use intelligent technology to control on-demand flow for high performance and efficiency.

Quick couplers

Volvo quick couplers are designed to work with Volvo attachments, delivering ultimate compatibility and unrivalled performance.

Attachment range

Volvo's comprehensive range of attachments have been purpose-built to work in perfect harmony with Volvo machines.



I-ECU monitor

The LCD monitor clearly displays machine status information for easy operation and increased productivity.

Volvo cab

All-around visibility and an ergonomic design are at the center of Volvo's operator environment – increasing comfort and ease of operation.

Easy service access

Rear access behind the cab along with sturdy steps and handrails provide safe and easy maintenance access to the superstructure.

Volvo engine

The Volvo D6 engine delivers the ultimate combination of low fuel consumption and high productivity.

Rigid main frame

The strong structure easily absorbs impacts transferred through the digging equipment.

Dozer blade and outriggers

A robust dozer blade and outriggers optimize machine stability and increase versatility.

ECO mode

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

Stable undercarriage

The well-balanced undercarriage is made from strong steel for maximum durability and stability.

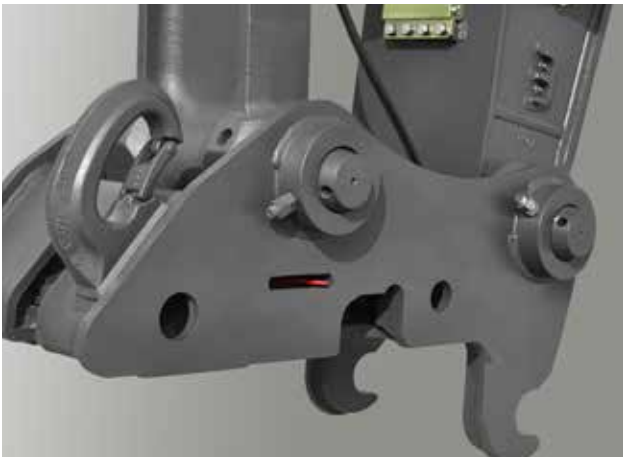


Infinite opportunities

Maximize your productivity and profitability with the versatile EW205D and Volvo's comprehensive, durable range of attachments. Increase your versatility, access more applications and effectively perform a variety of tasks – all while experiencing faster cycle times and excellent control. Get the most out of your excavator with Volvo.

Quick couplers

Volvo quick couplers are designed to work with Volvo attachments, delivering ultimate compatibility and unrivalled performance.



Optional auxiliary hydraulics

Factory fitted breaker and shear piping as well as tilt and rotator piping increase versatility by enabling a wide range of additional attachments to be used.



Hydraulic breakers

Volvo's durable hydraulic breakers have been designed for ultimate compatibility with Volvo excavators. The range has been built to break the most demanding materials and combines excellent performance with low noise and vibration levels.



Attachment management system (AMS)

The AMS stores the settings for up to 20 hydraulic attachments. The system allows hydraulic flow adjustments to be accurately and easily set according to the needs of the tool being used.





ATTACHMENT RANGE

Volvo's durable attachments have been purposebuilt to work in perfect harmony with Volvo machines, forming one solid, reliable unit. The comprehensive range includes ditching buckets, hydraulic breakers and general purpose buckets. Experience maximum productivity with the right attachment for your specific requirements.

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 EW205D in detail

Engine

The engine, which provide excellent performance, is equipped with six cylinder, vertical, electronic-controlled high pressure fuel injectors, internal EGR, 6 liter (1,59 gal) in-line waste gate turbo charger, air-to-air intercooler and water cooled diesel engine type.

| Engine | Volvo | D6E |
|-----------------------------|----------------------|--------------|
| Max. power at | r/min (r/s) | 2.000 (33,3) |
| Net (ISO9249/SAEJ1349) | kW (hp) | 121 (163) |
| Gross (ISO 14396/SAE J1995) | kW (hp) | 130 (174) |
| Max. torque | Nm (ft lbf) | 730 (538) |
| at engine speed | r/min (r/s) | 1.500 (25) |
| No. of cylinders | | 6 |
| Displacement | l (in ³) | 5,7 (348) |
| Bore | mm (in) | 98 (3,9) |
| Stroke | mm (in) | 126 (5) |

Electrical System

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

| | | |
|------------------|--------|----------|
| Voltage | V | 24 |
| Batteries | V | 2 x 12 |
| Battery capacity | Ah | 120 |
| Alternator | V/Ah | 28/80 |
| Start motor | V - kW | 24 - 5,5 |

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.

Wheels: Alternative single and twin wheels available.

Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.

| | | |
|------------------------|-------------|--------------|
| Oscillation | ± ° | 7 |
| with mudguards | ± ° | 7 |
| Twin wheels | type | 10-20 14PR |
| Tractive force (net) | kN (lbf) | 110 (24,729) |
| Travel speed, on road | km/h (mi/h) | 36 (22) |
| Travel speed, off road | km/h (mi/h) | 9 (6) |
| Travel speed, creep | km/h (mi/h) | 3,5 (2,2) |
| Min. turning radius | m (ft) | 7,1 (23,4) |

Swing system

| | | |
|-----------------|-------|----|
| Max. slew speed | r/min | 12 |
|-----------------|-------|----|

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.

Cab

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

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

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

Sound Level

| | | |
|------------------------------------------------------------------------------|----|-----|
| Sound level in cab according to ISO 6396 | | |
| L _{pA} | dB | 74 |
| External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC | | |
| L _{WA} (standard) | dB | 103 |
| L _{WA} (tropical) | dB | 104 |

Hydraulic system

The electro-hydraulic system and MCV (main control valve) use intelligent technology to control on-demand flow for high productivity, high-digging capacity and excellent fuel economy. The following important functions and working modes are included in the system:

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

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

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

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

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

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.

Creeping mode (C): Additional working mode for fixed lower travel speed.

Main pump (type: 2 x Variable displacement axial piston pumps)

| | | |
|-----------|-----------------|--------------------|
| Max. flow | l/min (gal/min) | 2 x 230 (2 x 60,8) |
|-----------|-----------------|--------------------|

Pilot pump (type: Gear pump)

| | | |
|-----------|-----------------|------------------|
| Max. flow | l/min (gal/min) | 1 x 20 (1 x 5,3) |
|-----------|-----------------|------------------|

Brake + steering pump (type: Low noise gear pump)

| | | |
|-----------|-----------------|-------------------|
| Max. flow | l/min (gal/min) | 1 x 41,5 (1 x 11) |
|-----------|-----------------|-------------------|

Relief valve setting pressure

| | | |
|---------------|-----------|-------------------------|
| Implement | MPa (psi) | 32,4/34,3 (4.699/4.975) |
| Travel system | MPa (psi) | 34 (4.975) |
| Slew system | MPa (psi) | 28 (4.047) |
| Pilot system | MPa (psi) | 3,9 (566) |

Hydraulic Cylinders

| | | |
|---------------|-----------------|--------------------------|
| Boom | | 2 |
| Bore x Stroke | ø x mm (ø x in) | 120 x 1.235 (4,7 x 48,6) |
| Arm | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 135 x 1.540 (5,3 x 60,6) |
| Bucket | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 120 x 1.065 (4,7 x 41,9) |
| Dozer blade | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 115 x 273 (4,5 x 10,7) |
| Outrigger | | 2 |
| Bore x Stroke | ø x mm (ø x in) | 150 x 444 (5,9 x 17,5) |

Total Machine Weights

Machine with 5,65m / 18'6" boom, 2,7m / 8'10" arm, 748 kg / 860 l bucket. Standard counterweight.

| | | |
|--------------------------------|---------|-----------------|
| With dozer blade and Outrigger | kg (lb) | 20.730 (45.702) |
|--------------------------------|---------|-----------------|

Service Refill

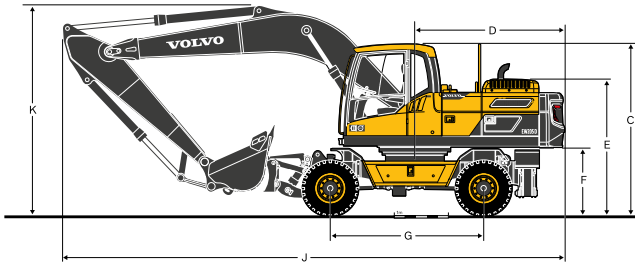
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|-------------------------|---------|------------|
| Fuel tank | l (gal) | 323 (85,3) |
| Hydraulic system, total | l (gal) | 335 (88,5) |
| Hydraulic tank | l (gal) | 148 (39,1) |
| Engine oil | l (gal) | 32 (8,5) |
| Engine coolant | l (gal) | 41 (10,8) |
| Swing reduction unit | l (gal) | 7 (1,8) |
| Transmission | l (gal) | 2,5 (0,7) |

Axle differential:

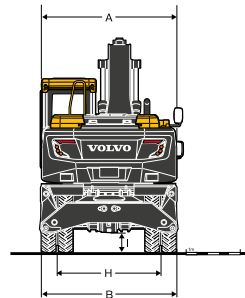
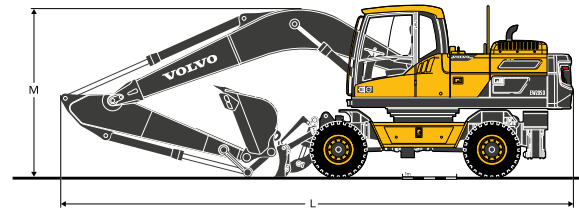
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|-------------|---------|-------------------|
| Front axle | l (gal) | 11 (2,9) |
| Rear axle | l (gal) | 15 (4) |
| Final drive | l (gal) | 4 x 2,5 (4 x 0,7) |

Dimensions

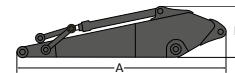
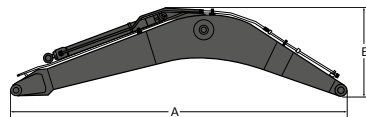
TRAVEL POSITION



TRANSPORTATION POSITION



| Description | Unit | Front outrigger and rear dozer blade | | | | Front dozer blade and rear outrigger | | | |
|------------------------------------|----------|--------------------------------------|-------|-------|-------|--------------------------------------|-------|-------|-------|
| Boom | m ft in | 5,65 | 18'6" | 5,65 | 18'6" | 5,65 | 18'6" | 5,65 | 18'6" |
| Arm | m ft in | 2,7 | 8'10" | 2,9 | 9'6" | 2,7 | 8'10" | 2,9 | 9'6" |
| A Overall width of upper structure | mm ft in | 2.500 | 8'2" | 2.500 | 8'2" | 2.500 | 8'2" | 2.500 | 8'2" |
| B Overall width | mm ft in | 2.500 | 8'2" | 2.500 | 8'2" | 2.500 | 8'2" | 2.500 | 8'2" |
| C Overall height of cab | mm ft in | 3.180 | 10'5" | 3.180 | 10'5" | 3.180 | 10'5" | 3.180 | 10'5" |
| D Tail swing radius | mm ft in | 2.800 | 9'2" | 2.800 | 9'2" | 2.800 | 9'2" | 2.800 | 9'2" |
| E Overall height of engine hood | mm ft in | 2.520 | 8'3" | 2.520 | 8'3" | 2.520 | 8'3" | 2.520 | 8'3" |
| F Counterweight clearance | mm ft in | 1.244 | 4'1" | 1.244 | 4'1" | 1.244 | 4'1" | 1.244 | 4'1" |
| G Wheel base | mm ft in | 2.850 | 9'4" | 2.850 | 9'4" | 2.850 | 9'4" | 2.850 | 9'4" |
| H Tread width | mm ft in | 1.914 | 6'3" | 1.914 | 6'3" | 1.914 | 6'3" | 1.914 | 6'3" |
| I Min. ground clearance | mm in | 329 | 13" | 329 | 13" | 329 | 13" | 329 | 13" |
| J Overall length | mm ft in | 9.355 | 30'8" | 9.304 | 30'8" | 9.310 | 30'7" | 9.315 | 30'7" |
| K Overall height of boom | mm ft in | 3.990 | 13'1" | 3.990 | 13'1" | 3.985 | 13'1" | 3.990 | 13'1" |
| L Overall length | mm ft in | 9.510 | 31'2" | 9.520 | 31'3" | 9.510 | 31'2" | 9.520 | 31'3" |
| M Overall height of boom | mm ft in | 3.280 | 10'9" | 3.490 | 11'5" | 3.280 | 10'9" | 3.490 | 11'5" |

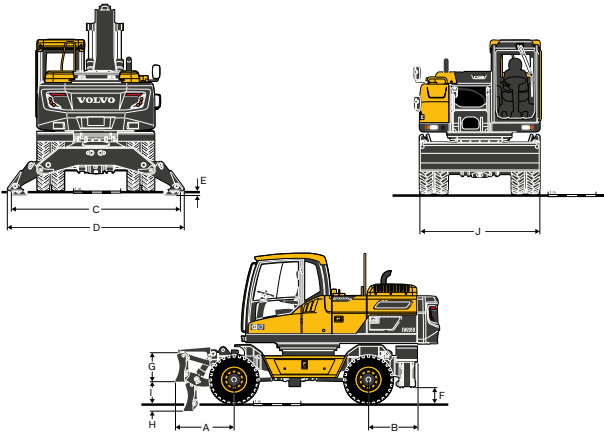


| Description | Unit | Boom | | Arm | | | |
|-------------|----------|-------|-------|-------|-------|-------|--------|
| | m ft in | 5,65 | 18'6" | 2,7 | 8'10" | 2,9 | 9'6" |
| A Length | mm ft in | 5.870 | 19'3" | 3.710 | 12'2" | 3.910 | 12'10" |
| B Height | mm ft in | 1.650 | 5'5" | 870 | 2'10" | 860 | 2'10" |
| Width | mm ft in | 670 | 2'2" | 440 | 1'5" | 440 | 1'5" |
| Weight | kg lb | 1.995 | 4.398 | 1.080 | 2.381 | 1.121 | 2.471 |

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

Arm * Includes cylinder, linkage and pin

Specifications



| Description | | Unit | | | |
|------------------------------|-----------------------|------|----------|-------|--------|
| Front Outrigger & Rear Dozer | Center to front wheel | A | mm ft in | 1.570 | 5'2" |
| | Center to rear wheel | B | mm ft in | 1.280 | 4'2" |
| | Outrigger to wheel | E | mm ft in | 1.091 | 3'7" |
| | Dozer to wheel | F | mm ft in | 1.185 | 3'11" |
| Front Dozer & Rear Outrigger | Center to front wheel | A | mm ft in | 1.570 | 5'2" |
| | Center to rear wheel | B | mm ft in | 1.280 | 4'2" |
| | Dozer to wheel | C | mm ft in | 1.239 | 4'1" |
| | Outrigger to wheel | D | mm ft in | 1.035 | 3'5" |
| Outrigger | Width_digging | J | mm ft in | 3.609 | 11'10" |
| | Width | K | mm ft in | 3.774 | 12'5" |
| | Digging depth | L | mm ft in | 114 | 0'4" |
| | Clearance | M | mm ft in | 325 | 1'1" |
| | Height | N | mm ft in | 880 | 2'11" |
| | Weight | | kg lb | 1.150 | 2.535 |
| Dozer Blade | Height | G | mm ft in | 630 | 2'1" |
| | Digging depth | H | mm ft in | 157 | 0'6" |
| | Lifting height | I | mm ft in | 465 | 1'6" |
| | Width | O | mm ft in | 2.500 | 8'2" |
| | Weight | | kg lb | 690 | 1.521 |

BUCKET SELECTION GUIDE

| Bucket type | Capacity | | Cutting width | | Weight | | Teeth | Front outrigger and rear dozer blade | | | | Front dozer blade and rear outrigger | | | | |
|--------------------|-----------------|-------|---------------|-------|--------|-----|-------|--------------------------------------|-----|---------------------|-------|--------------------------------------|----|---------------------|-----------------------------------|-----------------------------------|
| | | | | | | | | 5,65 m (18'6") Boom | | 5,65 m (18'6") Boom | | 5,65 m (18'6") Boom | | 5,65 m (18'6") Boom | | |
| | | | | | | | | L | yd³ | mm | ft in | kg | lb | EA | 3,400 kg (7,496 lb) Counterweight | 3,800 kg (8,378 lb) Counterweight |
| Direct fit Buckets | General purpose | 860 | 1,12 | 1.100 | 3'7" | 748 | 1.649 | 4 | C | C | C | C | C | C | C | C |
| | | 950 | 1,24 | 1.200 | 3'11" | 781 | 1.722 | 5 | C | C | C | C | C | C | C | C |
| | | 950 | 1,24 | 1.200 | 3'11" | 783 | 1.726 | 5 | C | C | C | C | C | C | C | C |
| | | 1.100 | 1,44 | 1.350 | 4'5" | 843 | 1.858 | 5 | B | B | C | B | B | B | C | B |

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.

The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

X : Not recommended

Maximum material density

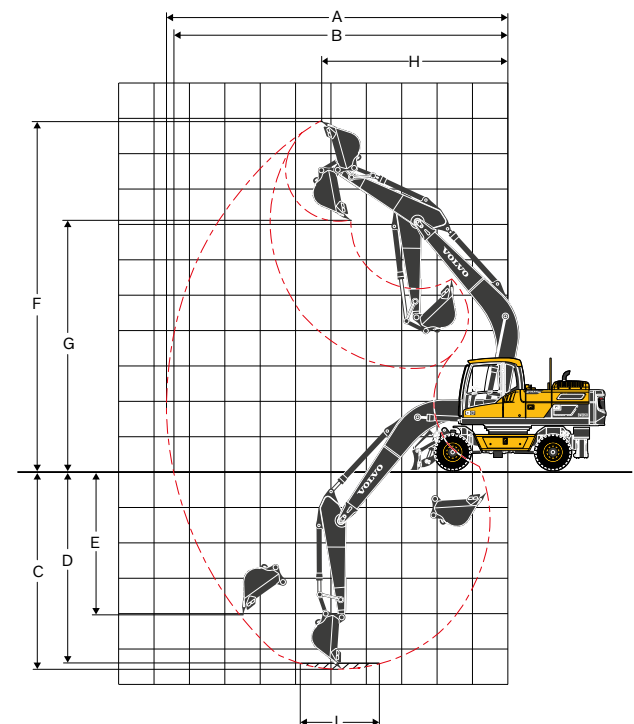
| | |
|--------------------------------------------|------------------------------------------|
| A 1.200 ~ 1.300 kg/m³ (2.000-2.200 lb/yd³) | Coal, Caliche, Shale |
| B 1.400 ~ 1.600 kg/m³ (2.300-2.700 lb/yd³) | Wet earth and clay, Limestone, Sandstone |
| C 1.700 ~ 1.800 kg/m³ (2.800-3.100 lb/yd³) | Granite, Wet sand, Well blasted rock |
| D 1.900 kg/m³ (3.200 lb/yd³) | ~ Wet mud, Iron ore |

WORKING RANGES WITH DIRECT FIT BUCKET

| Description | Unit | Front outrigger and rear dozer blade | | | | Front dozer blade and rear outrigger | | | |
|-------------|---------------------------------------|--------------------------------------|--------------|---------------|--------------|--------------------------------------|--------------|---------------|-------|
| | | m | ft in | m | ft in | m | ft in | m | ft in |
| Boom | | 5,65 | 18'6" | 5,65 | 18'6" | 5,65 | 18'6" | 5,65 | 18'6" |
| Arm | | 2,7 | 8'10" | 2,9 | 9'6" | 2,7 | 8'10" | 2,9 | 9'6" |
| A | Max. digging reach | mm ft in | 9.685 31'9" | 9.890 32'5" | 9.685 31'9" | 9.890 32'5" | 9.685 31'9" | 9.890 32'5" | |
| B | Max. digging reach on ground | mm ft in | 9.490 31'2" | 9.695 31'10" | 9.490 31'2" | 9.695 31'10" | 9.490 31'2" | 9.695 31'10" | |
| C | Max. digging depth | mm ft in | 5.345 17'6" | 5.545 18'2" | 5.565 18'3" | 5.765 18'11" | 5.565 18'3" | 5.765 18'11" | |
| D | Max. digging depth (l=2 440 mm level) | mm ft in | 5.165 16'11" | 5.370 17'7" | 5.385 17'8" | 5.590 18'4" | 5.385 17'8" | 5.590 18'4" | |
| E | Max. vertical wall digging depth | mm ft in | 4.125 13'6" | 4.295 14'1" | 4.125 13'6" | 4.295 14'1" | 4.125 13'6" | 4.295 14'1" | |
| F | Max. cutting height | mm ft in | 9.895 32'6" | 10.045 32'11" | 9.895 32'6" | 10.045 32'11" | 9.895 32'6" | 10.045 32'11" | |
| G | Max. dumping height | mm ft in | 7.085 23'3" | 7.225 23'8" | 7.085 23'3" | 7.225 23'8" | 7.085 23'3" | 7.225 23'8" | |
| H | Min. front swing radius | mm ft in | 3.310 10'10" | 3.330 10'11" | 3.310 10'10" | 3.330 10'11" | 3.310 10'10" | 3.330 10'11" | |

DIGGING FORCES WITH DIRECT FIT BUCKET

| Bucket radius | | mm | ft in | 1.470 4'10" | | 1.470 4'10" | | 1.470 4'10" | | 1.470 4'10" | | |
|-------------------------|-------------|-----------|-------|-------------|-----|-------------|-----|-------------|-----|-------------|-----|--------|
| | | | | kN | lbf | kN | lbf | kN | lbf | kN | lbf | |
| Breakout force (bucket) | Normal | SAE J1179 | kN | lbf | 122 | 27.427 | 122 | 27.427 | 122 | 27.427 | 122 | 27.427 |
| | Power boost | SAE J1179 | kN | lbf | 130 | 29.225 | 130 | 29.225 | 130 | 29.225 | 130 | 29.225 |
| | Normal | ISO 6015 | kN | lbf | 136 | 30.574 | 136 | 30.574 | 136 | 30.574 | 136 | 30.574 |
| | Power boost | ISO 6015 | kN | lbf | 144 | 32.372 | 144 | 32.372 | 144 | 32.372 | 144 | 32.372 |
| Tearout force (arm) | Normal | SAE J1179 | kN | lbf | 100 | 22.481 | 96 | 21.582 | 100 | 22.481 | 96 | 21.582 |
| | Power boost | SAE J1179 | kN | lbf | 106 | 23.830 | 102 | 22.931 | 106 | 23.830 | 102 | 22.931 |
| | Normal | ISO 6015 | kN | lbf | 102 | 22.931 | 99 | 22.256 | 102 | 22.931 | 99 | 22.256 |
| | Power boost | ISO 6015 | kN | lbf | 109 | 24.504 | 105 | 23.605 | 109 | 24.504 | 105 | 23.605 |
| Rotation angle, bucket | | deg | | 175 | | 175 | | 175 | | 175 | | 175 |



Equipment

STANDARD EQUIPMENT

Engine

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

Electric / Electronic control system

| |
|------------------------------------------------------------|
| Contronics - computerized monitoring and diagnostic system |
| GSM/GPS Caretrack and 3yr-Caretrack subscription |
| Machine status indication |
| Automatic idling system |
| One-touch power boost |
| Safety stop/start function |
| Adjustable LCD color monitor |
| Master electrical disconnect switch |
| Engine restart prevention circuit |
| Travel alarm |
| High-capacity halogen lights: |
| Frame-mounted 2 |
| Boom-mounted 1 |
| Batteries, 2 x 12 V / 120 Ah |
| Start motor, 24 V / 5.5 kW (7 hp) |

Superstructure

| |
|-------------------------------------------------|
| Service walkway with anti-slip grating |
| Centralized lubricating point for swing bearing |
| Tool storage area |
| Counterweight: 3.400 kg (7.496 lb) |
| Undercover |

Undercarriage

| |
|-------------------------------------------------------|
| Lower frame with Front dozer blade and rear outrigger |
| 2-speed power transmission plus creep |
| Oscillating front axle $\pm 7^\circ$ with mudguards |
| 2-circuit travel brakes |
| Maintenance-free propeller shafts |
| Tire 10.00-20-14PR |

Hydraulic system

| |
|------------------------------------------|
| Automatic hydraulic system |
| Summation system |
| Boom priority |
| Arm priority |
| Swing priority |
| ECO mode fuel saving technology |
| Boom, arm and bucket regeneration valves |
| Swing anti-rebound valves |
| Boom and arm holding valves |
| Multi-stage filtering system |
| Cylinder cushioning |
| Cylinder contamination seals |

Cab and interior

| |
|-------------------------------------------------------|
| ROPS (ISO12117-2) certified cab with fixed roof hatch |
| Rubber mounts with spring |
| Fabric seat without heater |
| Heater and air-conditioner, automatic |
| Adjustable operator seat and joystick control console |
| Adjustable steering wheel |
| Control joysticks |
| Flexible antenna |
| Control lock out lever |
| Cab, all-weather sound suppressed, includes: |
| Cup holders |
| Door locks |
| Tinted and safety glass |
| Floor mat |
| Horn |
| Pull-up type front window |
| Removable lower windshield |
| Seat belt |
| Windshield wiper with intermittent feature |
| Sun Screen, front/roof/rear |
| Master key |

STANDARD EQUIPMENT

Digging equipment

| |
|-------------------------------|
| Boom: 5,65 m (18'6") |
| Arm: 2,7 m (8'10") with strip |
| Linkage |

Service

| |
|-----------------------------|
| Tool kit, daily maintenance |
|-----------------------------|

OPTIONAL EQUIPMENT

Engine

| |
|----------------------------------------------------|
| Tropical cooling |
| Block heater: 240 V |
| Oil bath pre-cleaner |
| Diesel coolant heater, 5 kW (7 hp) |
| Water separator with heater |
| Extra water separator |
| Auto engine shutdown |
| Fuel filler pump: 35 lpm (9,25 gpm) with auto stop |

Electric

| |
|---------------------------------|
| Extra work lights: |
| Boom-mounted 1 |
| Cab-mounted 3 (front 2, rear 1) |
| Counterweight-mounted 1 |
| Anti-theft system |
| Rearview camera |
| Rotating warning beacon |
| Air compressor |
| Microphone |

Superstructure

| |
|------------------------------------|
| Rear view mirror on counterweight |
| Counterweight: 3.800 kg (8.378 lb) |

Undercarriage

| |
|-------------------------------------------------------|
| Lower frame with Front outrigger and rear dozer blade |
| Mudguard |

Hydraulic system

| |
|------------------------------------------------------|
| Boom hose rupture valve with overload warning device |
| Arm hose rupture valve |
| Hydraulic piping: |
| Hammer & shear, 1 and 2 pump flow |
| Slope/Rotator |
| Quick coupler |
| Volvo hydraulic quick coupler S1 |
| Hydraulic oil, ISO VG 32, 46, 68 |
| Hydraulic oil, longlife oil 32, 46, 68 |

Cab and interior

| |
|----------------------------------------------------------|
| ROPS (ISO12117-2) certified cab with openable roof hatch |
| Fabric seat with heater |
| Fabric seat with heater and air suspension |
| AM/FM stereo with CD player, MP3 and USB input |
| Cab-mounted falling object guard (FOG) |
| Cab-mounted falling object guard (FOG)_Hinge type |
| Cab-mounted falling object protective structure (FOPS) |
| Smoker kit (ashtray and lighter) |
| Safety net for front window |
| Front rain shield |
| Sun shield, roof hatch (steel) |
| Emergency steering |
| Specific key |

Digging equipment

| |
|------------------------------|
| Arm: 2,9 m (9'6") with strip |
|------------------------------|

Service

| |
|----------------------|
| Tool kit, full scale |
| Spare parts kit |
| Wheel Chock |
| Mechanical Stopper |

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Breaker/Shear piping (X1)



Emergency steering



Rear-view camera



Quick-coupler piping



Extra work light



Air compressor



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.

