

EC35D

Volvo Compact Excavators 3.5 t / 7,780 lb 24.8 hp



Perform with precision

The EC35D features a comfortable cab and easy-to-use controls for high performance and precise operation. With its excellent hydraulic performance and easy serviceability you can do more for less in all applications.

Optimized efficiency

For lower costs, increased productivity and maximum uptime a number of efficient features combine on the EC35D. ECO mode allows you to choose the right machine setting for the job at hand for impressive fuel efficiency. Robust design and quality digging equipment delivers durability and long term machine value. Auto idle and auto engine shut down reduce noise disturbance, fuel consumption, maintenance costs and slow down depreciation of your machine.



Superior serviceability

The EC35D is built to ensure servicing is safe, quick and easy, featuring easy service access with wide-opening hoods, centralized lubrication and ground-level greasing points. The patented multifunction transparent hydraulic filter and extended greasing intervals of 50 hours, enhance machine availability and uptime.



Hydraulics in harmony

The machine's state-of-the-art hydraulic system is perfectly matched to the premium Volvo engine delivering high performance and smooth operation. Intuitive fingertip controls enhance ease of operation, reduce fatigue and improve fluency. Adjust hydraulic flows in each direction from inside the cab for ultimate precision and versatility. Easily switch between operators with the ability to change from excavator to backhoe controls with a simple flick of the switch on the armrest.



Performance and precision

Increase your power and precision in all applications with the EC35D. The machine's outstanding lifting capacity and digging force deliver extra productivity and faster cycle times. Impressive tractive force and superior blade design delivers an increased performance when dozing. The float function, compatible with the angle blade, achieves a precise finish in grading applications.

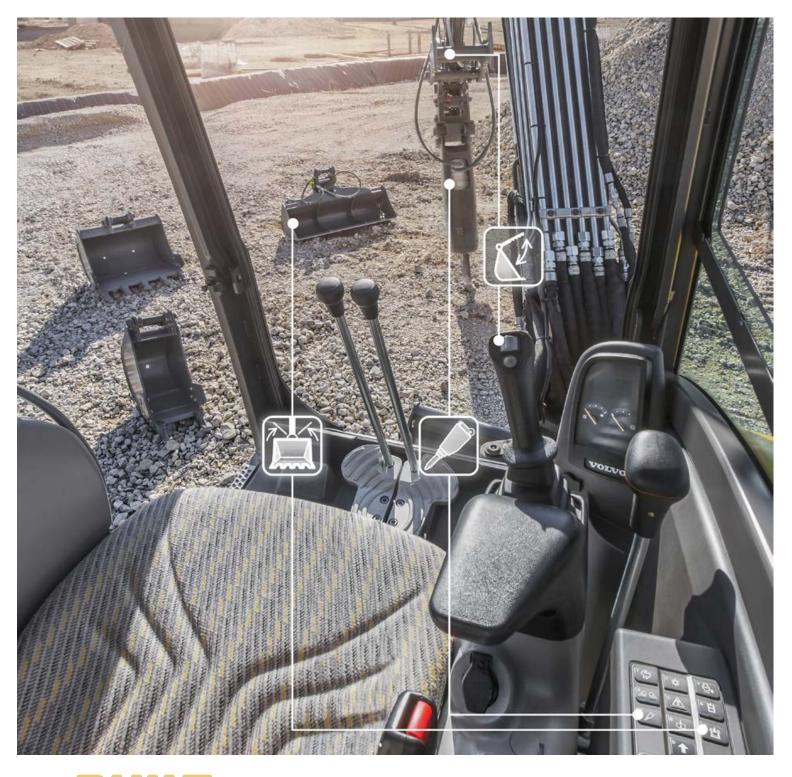




OPERATOR ENVIRONMENT



Operate in a best-in-class cab for superior operator comfort and less fatigue. The EC35D is equipped with a spacious operator environment offering excellent all-around visibility and an adjustable suspended seat and console. All relevant machine functions and settings can be quickly accessed through keypad and monitor for maximum control of your machine.



BUILT READY



Get the most out of your machine. The EC35D is a perfect match with Volvo attachments allowing you to change hydraulic settings directly and easily from the keypad. For increased versatility and uptime, Volvo has a durable range of attachments so you can access more applications and effectively perform a variety of jobs.

More than a machine

Tailored to your business and operations, choose from a wide range of Volvo attachments and Customer Solutions to improve your performance, productivity and versatility. Volvo offers a complete range of robust attachments for all working conditions and can offer a long-term partnership, protect your revenue and provide a full range of services using Genuine Volvo parts, delivered by passionate people.

Quick Couplers

The mechanical and hydraulic pin grabber quick couplers allow attachments to be changed quickly and efficiently. The hydraulic pin grabber's design allows the use of a wide range of a wide range of other attachments for greater flexibility.

Advanced attachment solutions

The machine is compatible with a range of hydraulic attachments, including thumb, breaker and tiltable ditching bucket for more advanced and specialist applications. Available from the factory or aftermarket, do not hesitate to contact your local Volvo dealer and benefit from leading expertise and advanced attachment solutions.





Dealer support

For less downtime and expert care, Volvo pro-actively respond to your requirements faster and fully support your service and maintenance needs through its local workshops and on-site service vans. Your attentive Volvo dealer offers professional expertise and preventative maintenance solutions to keep you working and ensure more uptime.



Genuine Volvo Parts

Our attention to detail is what makes us stand out and our leading parts availability ensures maximum uptime of your machine. For a long life, parts are extensively tested and approved because every part is vital for machine longevity and uptime.



Perform with precision

Automatic engine idle plus shutdown

This function automatically turns the engine down to idle mode and then off to reduce fuel consumption and cut engine operating hours when the machine is inactive for a selectable pre-set amount of time to match applications needs.

Automatic travel speed

Automatic two speed travel allows the operator to continually drive the machine at high speed. Speed is automatically reduced when traction is needed.

Ultimate lifting capacity

Excellent stability and outstanding hydraulics ensure the machines are capable of lifting heavy loads.

50 hour greasing interval

The greasing interval is 50 hours – therefore there is no need to re-grease between jobs.

BUILT READY

Volvo's durable attachments have been purpose-built to deliver maximum productivity and long service life in combination with Volvo machines

In-track boom swing

The swing post and cylinder stay within the tracks when in an offset position, avoiding the risk of damage to your machine when working alongside obstacles.

ISO Selector

A simple and conveniently located switch makes it easy, fast and safe for operator to change controls.



Anti-theft system

To reduce the risk of theft, a code can be entered through the keypad to start the machine. It can be changed via the machine management system.



Customer Solutions

Volvo provides the right solutions throughout the entire life cycle of your machine to lower total cost of ownership.

OPERATOR ENVIRONMENT



The industry-leading, spacious Volvo FOPS1 on top, TOPS and ROPS cab boasts all around visibility, ergonomically positioned controls and excellent vibration and noise insulation.

Suspended seat and console

The multi-adjustable seat and console are mounted on the same suspension and therefore move together – providing excellent shock and vibration absorption.

Patented hydraulic filter

Filtration occurs when filling the tank or topping up and when the oil returns to tank via the drain lines. The transparent bowl enables easy oil level check and visibility to any contamination.

Service access

The side position of the engine together with two, wide-opening hoods ensures safe and easy access to all components and service check points from ground level.

ECO mode

By simply pressing a button, the unique Volvo ECO mode reduces fuel consumption by up to 10%.

EC35D in detail

Engine		
Engine		Volvo D1.7A
Max. power at	r/min	
Gross	kW	
		er according to ISO 2534
Max. torque	Nm (ft	
at engine speed	r/	'min1,600
No. of cylinders		3
Displacement	cm ³	
Bore		(in) 87 (3.4
Stroke	mm	
Compression ratio		20.5
Electrical System		
Voltage	V	12
Battery	V	1 x 12
Battery capacity	Ah	74
Alternator	V/Ah	12/60
Swing System		
Max, slew speed	r/min	Ę
Max, slew torque	daNm (ft lbf)	710 (5,237
Jndercarriage		
Rubber track width	mm (in)	300 (11.8
Steel track width	mm (in)	300 (11.8
Bottom/top rollers per side		4/1
Track tension		
Blade (width x height)	mm (in)	1 650 x 368 (65 x 14.5
Digging Performances		
Standard bucket width (blade, W/O sid	e (;)	000 (00 0
cutter)	mm (in)	600 (23.6
Standard bucket mass	kg (lb)	90 (198
Standard bucket rated capacity	I (ft ³)	114 (4
Bucket rotation	0	199
Bucket breakout force (ISO)	daN (lbf)	3,289 (7,394
Short arm tearout force (ISO)	daN (lbf)	2,371 (5,330
With short arm	mm (ft in)	1 400 (4' 7"
Long arm tearout force (ISO)	daN (lbf)	2,060 (4,631
With long arm	mm (ft in)	1 700 (5' 7"

Weight and Ground Pressure		
Operating weight according to ISC	0 6,016 kg (lb)	3,530 (7,782)
Ground pressure (cab)	kPa (psi)	32.5 (4.7)
Ground pressure (cab) Ground pressure (canopy)	kPa (psi)	31.3 (4.5)
Transport weight	kg (lb)	3,455 (7,617)
With heated cab	rg (ib)	0,400 (7,017)
With direct-fit bucket		
With rubber tracks	mm (in)	300 (11.8)
With short arm	mm (in)	1 400 (55)
With fuel tank capacity	%	100
With thumb	+kg (+lb)	64 (141)
With canopy	-kg (-lb)	135 (298)
With extra counterweight	+kg (+lb)	170 (375)
With long arm	+kg (+lb)	15 (33.1)
With steel tracks	+kg (+lb)	66 (146)
Hydraulic System	-	
Maximum system flow	l/min (gal/min)	103 (27.2)
Maximum flow for accessories	I/min (gal/min)	65 (17.2)
Maximum pressure for accessories	MPa (psi)	22 (3,191)
Maximum flow for 2nd accessory circuit (option)	l/min (gal/min)	23 (6.1)
Maximum operating pressure	MPa (psi)	24 (3,481)
Travel system	•	
Max, drawbar pull	daN (lbf)	3,100 (6,969)
Max. travel speed low	km/h (mi/h)	2.7 (1.7)
Max. travel speed high	km/h (mi/h)	4.5 (2.8)
Gradeability	•	20
Service Refill		
Fuel tank	l (gal)	64 (16.9)
Hydraulic system, total	l (gal)	62 (16.3)
Hydraulic tank	l (gal)	32 (8.5)
Engine oil	l (gal)	7 (1.8)
Engine coolant	l (gal)	7 (1.8)
Travel reduction unit	l (gal)	2 x 0.7 (2 x 0.185)
Sound Level		
Interior sound level according to IS		
lnΔ	AR(A)	7.9

External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009

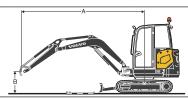
LIFTING CAPACITY EC35D

These capacities are given for a machine equipped with a cabin, 300 mm (1' 0") rubber tracks and without a bucket or quick-coupler.

The below values are in compliance with ISO standard 10567. They do not exceed 75% of the tipping load or 87% of the hydraulic limit with the machine on firm level ground.

Loads market with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Caution: In accordance with standard EN 474-5, the machine must be equipped to carry out handling operations. It is the operator's obligation to know and follow the applicable national and local safety regulations.



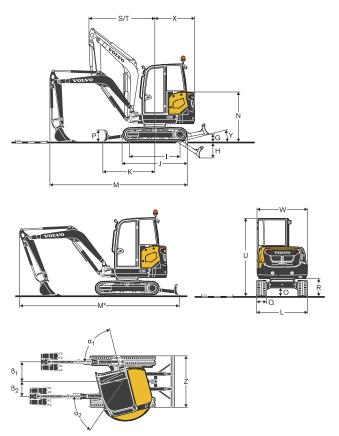
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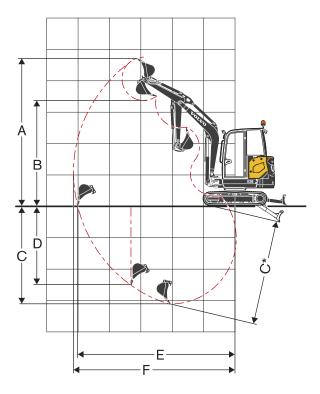
dB(A)

Lifting point height (B)				Lifting point radius (A)								
Am: 3 (9.8) kg (lb) '891 (1.964) 860 (1.896) 609 (1.343) 556 (1.226) 536 (1.182) 489 (1.078) 4.3 (14' 3") + Dozer blade up - 1 (3.3) kg (lb) 1.592 (3.516) 1.397 (3.080) 858 (1.892) 773 (1.704) 574 (1.265) 522 (1.151) 517 (1.140) 471 (1.038) 4.3 (14' 2") + Dozer blade up - 2 (6.5) kg (lb) 1.642 (3.620) 1.442 (3.179) 628 (1.385) 574 (1.265) 522 (1.151) 517 (1.140) 471 (1.038) 4.2 (13' 10") + Dozer blade up - 2 (6.5) kg (lb) 1.674 (3.681) 1.397 (3.080) 81 (1.816) 590 (1.645) 616 (1.358) 562 (1.239) 488 (1.076) 445 (1.817) (1.657) 7") + Dozer blade up - 2 (6.5) kg (lb) 1.674 (3.681) 1.471 (3.243) 903 (1.991) 816 (1.798) 592 (1.305) 539 (1.188) 459 (1.012) 418 (2.922) 4.7 (15' 15' 11') + Dozer blade up - 2 (6.5) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 754 (1.662) 564 (1.249) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 754 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 764 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 764 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 764 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 764 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 764 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.468) 1.376 (3.034) 839 (1.850) 764 (1.662) 564 (1.243) 512 (1.129) 532 (1.173) 483 (1.065) 4.2 (13' 9") + Dozer blade up - 1 (3.3) kg (lb) 1.573 (3.463) 1.476 (1.645) 766 (1.665) 770 (1.676) 770 (1.676) 770 (1.676) 770 (1.676) 770 (1.676) 770 (1.676) 770 (1.676) 770				2.0 m	(6.5 ft)	3.0 m (9.8 ft) 4.0 m (13.1 ft) Max. reach			Max.			
1,400 mm		point height (B)		Ė		Ė		Ė		Ė		m
1,400 mm	Δ	3 (9.8)	kg (lb)	-	-	-	-	-		645 (1,422)	589 (1,299)	3.9 (12' 9")
(4'7") + Dozer blade up blade			kg (lb)	-	-							
+ Dozer blade up - 1 (3.3) kg (lb) 1,590 (3,510) 1,397 (3,080) 858 (1,892) 773 (1,704)		1 (3.3)			-							
blade up								574 (1,265)	522 (1,151)			
Arm: 3 (9.8) kg (lb) 1,674 (3,691) 1,471 (3,243) 903 (1,991) 816 (1,799) 592 (1,305) 539 (1,188) 459 (1,012) 418 (922) 4.7 (157") 1 (3.3) kg (lb) 1,573 (3,468) 1,376 (3,034) 839 (1,883) 770 (1,698) 571 (1,259) 519 (1,144) 469 (1,034) 427 (,941) 4.6 (151") 1,400 mm 2 (6.5) kg (lb) 1,270 (2,800) 808 (1,781) 966 (2,185) 537 (1,184) 1899 (1,982) 457 (1,008) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 1,270 (2,800) 808 (1,781) 966 (2,185) 537 (1,184) 1899 (1,982) 457 (1,008) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 1,270 (2,800) 808 (1,781) 966 (2,185) 537 (1,184) 1899 (1,982) 457 (1,008) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 1,270 (2,800) 808 (1,781) 956 (2,108) 537 (1,184) 1899 (1,982) 457 (1,008) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 1,270 (2,800) 808 (1,781) 956 (2,108) 537 (1,184) 1899 (1,982) 457 (1,008) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 1,270 (2,800) 808 (1,781) 956 (2,108) 537 (1,184) 1899 (1,982) 457 (1,008) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 1,575 (3,862) 1,397 (3,080) 1,536 (3,386) 773 (1,704) 1,066 (2,350) 522 (1,151) 980 (2,161) 471 (1,038) 4.3 (141") 1,400 mm 2 (6.5) kg (lb) 2,728 (6,014) 1,404 (3,095) 1,563 (3,446) 766 (1,689) 1,287 (2,65) kg (lb) 2,094 (4,616) 1,442 (3,179) 1,086 (2,394) 547 (1,206) 3.9 (12") 1,700 mm 2 (6.5) kg (lb) 2,178 (4,616) 1,442 (3,179) 1,287 (2,727) 832 (1,834) 2.9 (9") 1,700 mm 1,700 mm 2 (6.5) kg (lb) 2,178 (4,616) 1,442 (3,179) 1,287 (2,727) 832 (1,834) 2.9 (9") 1,700 mm 1,700 mm 2 (6.5) kg (lb) 2,178 (4,802) 1,471 (3,243) 1,143 (2,520) 816 (1,799) 886 (1,793) 539 (1,188) 819 (1,806) 483 (1,065) 4.2 (13") 10") 1,700 mm 1,400 m						851 (1,876)	766 (1,689)	-				
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(5' 7")				-								
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Arm: 3 (9.8) kg (lb) 1,606 (3.541) 1,407 (3,102) 854 (1,883) 768 (1,693) 734 (1,618) 664 (1,464) 3.4 (11'0") Arm: 3 (9.8) kg (lb) 891 (1,964) 860 (1,896) 825 (1,819) 556 (1,226) 835 (1,841) 489 (1,078) 4.3 (14'8") (4'7") 1 (3.3) kg (lb) 1,270 (2,800) 808 (1,781) 956 (2,108) 537 (1,184) 899 (1,982) 457 (1,008) 4.5 (14'8") + Dozer Doze												
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(4' 7")				-		*001 (1.004)	000 (1 000)					
+ Dozer blade down -2 (6.5) kg (lb) *1,752 (3,862) 1,397 (3,080) *1,536 (3,386) 773 (1,704) *1,066 (2,350) 522 (1,151) *980 (2,161) 471 (1,038) 4.3 (14' 2") the down -2 (6.5) kg (lb) *2,094 (4,616) 1,442 (3,179) 1,237 (2,727) 832 (1,834) 2.9 (9' 6") the down -2 (6.5) kg (lb) *2,094 (4,616) 1,442 (3,179) *671 (1,479) 574 (1,265) *711 (1,567) 523 (1,53) 4.2 (13' 10") the down -2 (6.5) kg (lb) *746 (1,645) *746 (1,645) *735 (1,620) 562 (1,239) *760 (1,676) 445 (,981) 4.6 (15' 2") the down -2 (6.5) kg (lb) *2,178 (4,802) 1,471 (3,243) *1,143 (2,520) 816 (1,799) *886 (1,953) 539 (1,188) *819 (1,806) 418 (,922) 4.7 (15' 7") the down -2 (6.3) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9") the down -2 (6.3) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9") the down -2 (6.5) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9") the down -2 (6.5) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9") the down -2 (6.5) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9") the down -2 (6.5) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9") the down -2 (6.5) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,668) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,339) 512 (1,129) *1,061 (2,33				-								
blade down - 2 (-6.5) kg (lb) '2,728 (6,014) 1,404 (3,095) '1,563 (3,446) 766 (1,689) 1,086 (2,394) 547 (1,206) 3.9 (12' 8")												
down -2 (-6.5) kg (lb) -2,094 (4,616) 1,442 (3,179) - - - - -1,237 (2,727) 832 (1,834) 2.9 (9' 6") Arm: 3 (9.8) kg (lb) - - - -671 (1,479) 574 (1,265) '711 (1,567) 523 (1,153) 4.2 (13' 10") 1,700 mm 2 (6.5) kg (lb) - - -746 (1,645) '735 (1,620) 562 (1,239) '760 (1,676) 445 (981) 4.6 (15' 2") (5' 7") 1 (3.3) kg (lb) 2,178 (4,802) 1,471 (3,243) *1,143 (2,520) 816 (1,799) *886 (1,953) 539 (1,188) *819 (1,806) 418 (,922) 4.7 (15' 7") + Dozer 0 (0) kg (lb) *1,828 (4,030) 1,382 (3,047) *1,467 (3,234) 770 (1,698) *1,028 (2,266) 519 (1,144) *892 (1,967) 427 (941) 4.6 (15' 1") blade -1 (-3.3) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,662) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9")												
Arm: 3 (9.8) kg (lb) '746 (1,645) '746 (1,645) '735 (1,620) 562 (1,239) '760 (1,676) 445 (981) 4.6 (15'2") (5'7") 1 (3.3) kg (lb) '2,178 (4,802) 1,471 (3,243) '1,143 (2,520) 816 (1,799) '886 (1,953) 539 (1,188) '819 (1,806) 418 (,922) 4.7 (15'7") blade -1 (-3.3) kg (lb) '2,819 (6,215) 1,376 (3,034) '1,570 (3,461) 754 (1,662) '1,061 (2,339) 512 (1,129) '989 (2,180) 483 (1,065) 4.2 (13'9")						1,505 (5,440)	700 (1,009)	-				
1,700 mm 2 (6.5) kg (lb) '746 (1,645) '746 (1,645) '735 (1,620) 562 (1,239) '760 (1,676) 445 (,981) 4.6 (15' 2") (5' 7") 1 (3.3) kg (lb) '2,178 (4,802) 1,471 (3,243) '1,143 (2,520) 816 (1,799) '886 (1,953) 539 (1,188) '819 (1,806) 418 (,922) 4.7 (15' 7") + Dozer 0 (0) kg (lb) '1,828 (4,030) 1,382 (3,047) '1,467 (3,234) 770 (1,698) '1,028 (2,266) 519 (1,144) '892 (1,967) 427 (,941) 4.6 (15' 1") blade -1 (-3.3) kg (lb) '2,819 (6,215) 1,376 (3,034) '1,570 (3,461) 754 (1,662) '1,061 (2,339) 512 (1,129) '989 (2,180) 483 (1,065) 4.2 (13' 9")						-	_	*671 (1 //70)				
(5' 7")						*746 (1.645)	*746 (1.645)					
+ Dozer O (0) kg (lb) *1,828 (4,030) 1,382 (3,047) *1,467 (3,234) 770 (1,698) *1,028 (2,266) 519 (1,144) *892 (1,967) 427 (,941) 4.6 (15' 1") blade -1 (-3.3) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,662) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13' 9")				*2 178 (4 802)								
blade -1 (-3.3) kg (lb) *2,819 (6,215) 1,376 (3,034) *1,570 (3,461) 754 (1,662) *1,061 (2,339) 512 (1,129) *989 (2,180) 483 (1,065) 4.2 (13'9")												
								- (2,000)	-			

LwA

Specifications





Description	Unit	EC35D		
urm	mm (ft in)	1 400 (4' 7")	1 700 (5' 7")	
A Maximum cutting height	mm (ft in)	4 690 (15' 5")	4 853 (15' 11")	
B Maximum dump height	mm (ft in)	3 347 (11' 0")	3 514 (11' 6")	
C Digging depth	mm (ft in)	3 131 (10' 3")	3 431 (11' 3")	
C* Maximum digging depth	mm (ft in)	3 339 (10' 11")	3 632 (11' 11")	
D Maximum vertical wall digging depth	mm (ft in)	2 521 (8' 3")	2 814 (9' 3")	
E Maximum digging reach at ground level	mm (ft in)	5 031 (16' 6")	5 320 (17' 5")	
F Maximum digging reach	mm (ft in)	5 153 (16' 11")	5 434 (17' 10")	
G Highest position dozer blade	mm (ft in)	370	(1' 3")	
H Lowest position dozer blade	mm (ft in)	525 ((1' 9")	
Tumbler length	mm (ft in)	1 604	(5' 3")	
J Track length	mm (ft in)	2 055	(6' 9")	
K Dozer blade, maximum reach at ground level	mm (ft in)	1 648	(5' 5")	
L Overall width with 300 mm (1' 0") rubber tracks	mm (ft in)	1 780	(5' 10")	
M Overall length	mm (ft in)	4 660 (15' 3")	4 555 (14' 11")	
M* Transport length	mm (ft in)	5 435 (17' 10")	5 380 (17' 8")	
N Overall height of engine hood	mm (ft in)	1 573	(5' 2")	
O Minimum ground clearance	mm (ft in)	285 (0' 11")	
P Dozer blade height	mm (ft in)	368	(1' 2")	
Q Shoe width (rubber)	mm (ft in)	300 ((1' 0")	
R Ground clearance to superstructure	mm (ft in)	557 (1' 10")		
S Front slew radius	mm (ft in)	2 394 (7' 10")	2 418 (7' 11")	
T Front slew radius with maximum offset	mm (ft in)	1 869 (6' 2")	1 889 (6' 2")	
U Overall height	mm (ft in)	2 481	(8' 2")	
W Overall width of superstructure	mm (ft in)		(5' 2")	
X Tail slew radius	mm (ft in)	885 (2' 11")	970 (3' 2")	
X1 Additional counterweight overhang	mm (ft in)	85 (0' 3")	(incl.)	
Y Angle of approach	0		24	
Z Dozer blade width	mm (ft in)	1 780	(5' 10")	
α, Maximum boom swing angle to the left	0		0' 3")	
Maximum boom offset to the right	mm (ft in)		(3' 3")	
α ₂ Maximum boom swing angle to the right	0		(56)	
β ₂ Maximum boom offset to the left	mm (ft in)	787	(2' 7")	

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Equipment

STANDARD EQUIPMENT

Engine

Low emission, direct injection, water-cooled, Volvo 4-cylinder diesel engine.

Engine restart prevention system. Starter motor is protected against ignition

when engine is already running Dry-type single element air filter

Plastic fuel tank with drain plug.

Protective strainer on the fuel suction pipe inside the tank

Water separator.

Translucent fuel filter.

Electric/Electronic control system

Maintenance free battery.

IP67 protected electrical system and high quality connectors.

Removable battery cut-off switch.

In-cab 12V power socket.

Hydraulic system

Large hinged and key-locked access panel.

Variable displacement, load-sensing piston pump.

Closed centre flow-sharing main control valve

Cushoning on cylinders:

Boom up

Arm out

Patented filtering and filling element.

Single layer cooling system.

Double-acting hydraulic circuit for accessories.

Hammer / shear valve.

Plastic tank with drain plug

Swing system

Radial piston hydraulic motor with direct engagement on the ball internal

crown wheel (no reduction gears).

Integrated shockless valve.

Automatic multi-disc slew brake.

Centralized and remote lubrication of crown wheel & ball bearing.

Axial piston hydraulic motors equipped with an epicyclic reduction gears.

Automatic two speed travel

Bottom flanged rollers lubricated for life.

Grease tensioning wheel lubricated for life.

Undercarriage and dozer blade

"X" shape, box welded fabricated frame with sloping side members. 2 Tie-down points on the dozer blade.

2 Tie-down points on the frame.

2 Integrated lifting points.

Sturdy removeable protecting covers for track motors and slew system.

400HB weld-on edge on dozer blade

Digging Equipment

Monobloc box welded boom. Boom cylinder rod protection.

Integrated lifting point on the boom.

Monobloc box welded arm.

Long-life steel bushings.

Hardened, pre-lubricated and corrosion resistant pins.

50 hours greasing interval

FOPS level 1 on top (Falling Objects Protective Structure)

TOPS (Tip-Over Protective Structure) ROPS (Roll-Over Protective Structure)

Cushionned operator station

Large and roomy uncluttered floor

Left hand-rail access

Seat-belt with warning indicator

Right rear-view mirror

FOPS on top level 1 (Falling Object Protective Structure).

TOPS (Tip-Over Protective Structure). ROPS (Roll-Over Protective Structure).

Cushioned operator station.

Large door access.

Large and roomy uncluttered floor.

Gas-strutt assisted front window opening.

Full opening front bay with in-cab storage for the front lower window.

Front windscreen wiper and washer nozzle

Right hand side sliding window.

Heating systems

Multiple adjustable air vents.

Filtered air inlet.

Cab inside light.

Seat-belt with warning indicator.

Right rear-view mirror.

STANDARD EQUIPMENT

Two working lights on top front of the cab.

Machine controls

Finger tip control for boom offset.

Finger tip control for auxiliary circuit.

Breaker toggle switch on right joystick

Automatic locking device for pilot controls and travel levers when the left console is raised Engine starting safety device: the left console must be raised to operate the starter.

Pressure accumulator to lower the equipment on the ground when the engine is switched off.

High torque / automatic two speed change over button on the keypad.

High speed toggle switch on the dozer blade lever.

Large travel pedals

Instrumentation and monitoring

Water temperature and fuel level gauges.

Warning lights for hydraulic filter and air filter restriction.

Self-acting emergency engine shutdown. Prevents failures in case of coolant overheating or too low engine oil pressure

Several warning lights, coupled to an audible signal, in the event of malfunction (overheating, drop in oil pressure, low battery voltage...)

Official approval

Machine conforming to European directive 2006/42/EC.

Noise emissions in the environment conforming to directive 2000/14/EC.

Hand Arm Vibrations - Whole Body Vibrations compliant

with directive 2002/44/EC

Electromagnetic compatibility (EMC) conforming to European directive 2004/108/EC and its amendments.

Object handling device conforming to EN 474-1 and EN 474-5 standards.

FOPS on top level 1 conforming to ISO 10262 standard. TOPS conforming to ISO 12117 and EN 13531 standards.

ROPS conforming to ISO 3471-1 and / SAE J1040 standards.

EQUIPMENT

• = Standard

○ = Option					
	Basic	Standard			
Operator environment					
Canopy	0	0			
Cab with heater	0	0			
Cab with heater and air conditioning		0			
Vinyl or textile seat, with mechanical suspension, low- back seat and 2" seat belt	0	0			
Vinyl or textile seat, height adjustable, with mechanical suspension, high back and 2" or 3" retractable seat belt	0	0			
Storage box		•			
Cab roof		0			
ISO / SAE control pattern change (in-cab electric switch)	0	0			
Travel alarm	0	0			
Radio preparation (cab)	•	•			
Radio, AUX, USB, Bluetooth		0			
Anti-theft device	0	0			
Digital hour meter	•	•			
Extra hour meter (mechanical)	0	0			
Cup holder		0			
Machine exterior					
Right rearview mirror	•	•			
Left rearview mirror	0	0			
Protected work light on the boom	0	0			
Rear work light	0	0			
Rotating beacon	0	0			
Additional counterweight	0	0			
Front canopy guard (OPG1)	0	0			
Severe-duty guards for cab or canopy (OPG2, front & top)	0	0			
Several level of paint customization (RAL specifications) to match with your corporate identity	0	0			
Digging equipment					
Short arm	0	0			
Short arm + thumb bracket	0	0			
Long arm	0	0			
Long arm + thumb bracket	0	0			

EQUIPMENT

- = Standard
 = Option

	Basic	Standard
Undercarriage equipment		
300 mm (1' 0") rubber tracks	0	0
300 mm (1' 0") steel tracks	0	0
Standard dozer blade	•	0
Hydraulic angle blade		0
Hydraulic equipment		
Proportional finger tip control for boom offset		•
On / Off finger tip control for boom offset	•	
Proportional finger tip control for accessories		•
On / off finger tip control for accessories	•	
Accessory flow adjustment with 3 function oriented		
button and user-defined settings.		
Secondary relief valves for auxiliaries	•	•
Hydraulic drain for accessories		0
Breaker and clamshell auxiliaries		0
Second accessory circuit		0
Flat face hydraulic quick couplings	0	0
Single acting circuit for quick couplers	0	0
Double acting circuit for quick couplers	0	0
Boom & arm safety lifting valves with overload indicator	0	0
Boom, arm and dozer blade safety lifting valves with		
overload indicator	0	0
Float blade	•	•
Safety valve certification	0	0
Mineral hydraulic oil VG46	0	0
Bio hydraulic oil VG46 (PANOLIN®)	0	0
Mineral hydraulic oil VG68	0	0
Mineral hydraulic oil VG32	0	0
Bio hydraulic oil VG32 (PANOLIN®)	0	0

EQUIPMENT

- = Standard
 = Option

○ = Option		
	Basic	Standard
Engine		
Manual engine control	•	
Digital engine control with two preset engine speed buttons (user adjustable)		•
Engine auto idling with time adjustment		0
ECO mode		•
Engine auto shut-down with time adjustment		0
Dual stage air filter	0	0
Service and maintenance		
In-cab air filter clog warning lamp	•	•
In-cab engine overheating warning indicator	•	•
Tool kit	0	0
Electronic service reminder		•
V-CADS pro		•
Telematics		
Care Track		0
Attachments		
Volvo quick coupler mechanical (pin-on)	0	0
Volvo hydraulic quick coupler (pin-on)	0	0
Extra pin kit	0	0
Lehnhoff® Quick Coupler Mechanical (MS03)	0	0
S-type hydraulic quick coupler (S40)	0	0
Thumb with short clamp (for direct fit bucket)	0	0
Thumb with long clamp (when using quick coupler)	0	0
General purpose buckets (300 mm (1' 0") / 52 l (14 gal) up to 750 mm (2' 6")/ 148 L (39 gal))	0	0
Bolt-on side cutters	0	0
Fix ditching buckets (1,300 mm (4' 3") / 150 I (40 gal))	0	0
Tiltable ditching buckets (1,200 mm (3' 11") / 125 l (33 gal))	0	0
Hydraulic breaker HB03LN	0	0

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Anti theft





Auto engine shutdown







OPG



Air conditioning



Angle blade



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.

