Volvo EC20D in detail.

Engine				
Engine		Volvo		D0.9A
Rated speed	r/s	(r/min)	40.3	(2,420)
Maximum Gross power, ISO 14396/SAE J1995	kW	qd	12	16.1
Max torque at	Nm	/ r/min	51	/ 2,000
No, of cylinders				3
Displacement	cm ³	in ³	898	54.8
Bore	mm	in	72	2.83
Stroke	mm	in	73.6	2.9
Compression ratio				29
Electrical system				
Rated voltage		V		12
Batteries		V		1 x 12
Battery capacity		Ah		64
Alternator		V / Ah		12 / 40
Swing system				
Max, slew speed		r/min		9.5
Max, slew torque	daN.m	lb ft	304	2,242
Undercarriage				
Bottom/top rollers per side				4/0
Track tension			by greas	e piston
Blade (width x height)	mm	in	1 356x 248	53.4x 9.8
Digging performances			2.0	0.0
Standard bucket width (blade, W/O side cutter)	mm	in	500	20
Standard bucket mass	kg	lb	48	106
Standard bucket rated capacity	ĭ	ft ³	63	2.22
Bucket rotation	deg		199	
Bucket breakout force (ISO)	daN	lbf	1 827	4,107
Short arm tearout force (ISO)	daN	lbf	1 229	2,763
Long arm tearout force (ISO)	daN	lbf	1 033	2,322
Weight and ground pressure				,-
Operating weight according to ISO 6016	kg	lb	1 950	4,300
Ground pressure		kg/cm²		0.31
	kPa	psi	30.4	4.4
Transport weight (Heated cab, rubber tracks, short arm, standard direct-fit bucket, 10% fuel	kg	lb	1 890	4,167
tank capacity)		I.	70	470
With canopy	kg kg	lb lb	-78	- 172 + 8.8
With long arm			+4	

Hydraulic system						
Maximum system flow			l/min	gpm	48	12.7
Maximum flow for accessories			l/min	gpm	43	11.3
Maximum flow for 2nd accessory cir	tion)	l/min	gpm	19	5	
Maximum operating pressure			Мра	psi	21	3,045
			·	bar		210
Drive						
Max, drawbar pull			daN	lbf	1 440	3
Max. travel speed (low / high)			km/h	mph	2.5 / 4.7	1.55 / 2.9
Gradeability				deg		30
Service refill capacities						
Fuel tank			- 1	gal	20	5.28
Hydraulic system, total			I	gal	21	5.55
Hydraulic tank			- 1	gal	15	3.96
Engine oil			- 1	gal	3.7	0.98
Engine coolant			- 1	gal	4	1
Travel reduction unit			l gal		2 x	2 x
					0.33	0.09
Sound Level						
		\		.= (.)		
Interior sound level according to ISO				dB(A)		78
	SO 639	95		dB(A)		78 93
Interior sound level according to ISO External sound level according to I	SO 639	95		- ()		
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14	SO 639 /EC) and	95 d		dB(A)		
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments	SO 639	95 d	Ca	dB(A)	We	93
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA)	SO 639 /EC) and	dth in		dB(A)	kg	93
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments	SO 639 /EC) and Wid mm	dth in	Ca I 28	pacity ft³	kg	93 ight Ib 71
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments	Wic mm 250 300	dth in 10	Ca I 28 32	dB(A) pacity ft³ 1 1.13	kg 32 34	93 ight Ib 71 75
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments	Wide mm 250 300 400	dth in 10 12 16	Ca I 28 32 47	pacity ft³ 1 1.13 1.66	32 34 41	93 ight Ib 71 75 90
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments Type	Wic mm 250 300 400 500	dth in 10 12 16 20	Ca I 28 32 47 63	pacity ft³ 1.13 1.66 2.22	32 34 41 48	93 ight Ib 71 75 90 106
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments Type General purpose buckets	Wic mm 250 300 400 500 600	dth in 10 12 16 20 24	28 32 47 63 78	pacity ft³ 1.13 1.66 2.22 2.75	32 34 41 48 53	93 sight Ib 71 75 90 106 117
Interior sound level according to ISO External sound level according to I and EU Noise Directive (2000/14 474-1:2006 +A1:2009 (LwA) Attachments Type	Wic mm 250 300 400 500	dth in 10 12 16 20	Ca I 28 32 47 63	pacity ft³ 1.13 1.66 2.22	kg 32 34 41 48 53 57	93 ight Ib 71 75 90 106

LIFTING CAPACITY EC20D

These capacities are given for a machine equipped with heated cab, rubber tracks and without a bucket or quick-coupler.

The handling capacity is 75% of the tipping load or 87% of the hydraulic limit.

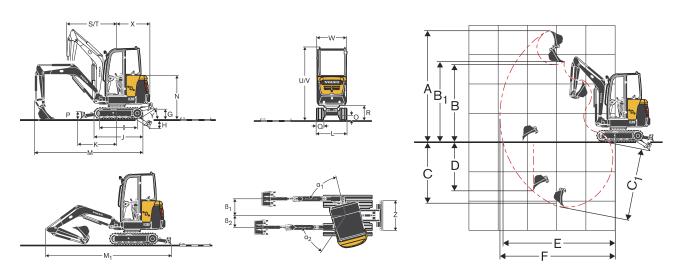
Caution: In accordance with standard EN 474-5, the machine must be equipped with safety valves and an overload indicator (available as options) to carry out handling operations.

			Lifting point radius (A)													
	Lif	fting	2.0 m, 78.7"				3.0 m,	118.1"		Max reach						
	p he	oint eight (B)	Ē				Ė				Ů				Max.	
	m	in	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	in
	2	78.7	-			-	295	650	330	728	259	571	289	637	3.25	128
Arm: 1 050 mm, 41.3"	1	39.4	506	1,115	567	1,250	281	619	316	697	225	496	253	558	3.48	137
+ Dozer blade up	0	0	475	1,047	536	1,182	270	595	304	670	232	551	262	578	3.35	131.9
	-1	-39.4	479	1,056	540	1,190	000+	000	000	700	302	666	340	750	2.79	109.8
	2	78.7	- 77.0+	- 744	-	- 4.050	399*	880	330	728	407*	897	289	637	3.25	128
Arm: 1 050 mm, 41.3"		39.4	776*	1,711	567	1,250	476*	1,049	316	697	431*	950	253	558	3.48	137
+ Dozer blade down	-1	0	965*	2,127	536	1,182	542*	1,195	304	670	468*	1,031	262	578	3.35	131.9
-	2	-39.4	851*	1,876	540	1,190	298	- 6F7	220	732	514* 223	1,133 492	340	750	2.79	109.8
A 4.050 50.41	1	78.7 39.4	517	1,140	578	1,274	281	657 619	332 315	694	197	492	250 222	551 489	3.55	139.8
Arm: 1 350 mm, 53.1"	0	0	471	1,038	532	1,274	265	584	299	659	201	443	227	500		143.3
+ Dozer blade up	-1	-39.4	466	1,038	527	1,173	262	578	299	655	247	545	279	615	3.15	124
	2	78.7	-	1,027	521	1,102	334*	736	332	732	354*	780	250	551	3.55	139.8
Arm: 1 350 mm, 53.1"	1	39.4	648*	1,429	578	1,274	427*	941	315	694	379*	836	222	489	3.76	148
+ Dozer blade down	0	0	931*	2,052	532	1,173	520*	1.146	299	659	413*	910	227	500		143.3
- Dozer blade down	-1	-39.4	910*	2,002	527	1,170	503*	1,109	297	655	459*	1,012	279	615	3.15	124

^{*}hydraulic limit

Specifications.

DIMENSIONS EC20D



Description			it	EC20D						
Arm length				1 050 m	m, 41.3"	1 350 mm, 53.1"				
Α	Maximum cutting height	mm	in	3 807	149.9	3 982	156.8			
В	Maximum dumping height	mm	in	2 635	103.7	2 810	110.6			
B,	Maximum bucket clearance	mm	in	2 746	108.1	2 920	115			
C'	Digging depth	mm	in	2 257	88.9	2 557	100.7			
C,	Maximum digging depth	mm	in	2 482	97.7	2 781	109.5			
D	Maximum vertical wall digging depth	mm	in	1 692	66.6	1 978	77.9			
Е	Maximum digging reach at ground level	mm	in	3 971	156.3	4 261	167.8			
F	Maximum digging reach	mm	in	4 080	160.6	4 362	171.7			
G	Highest position dozer blade	mm	in	33	26	12	.8			
Н	Lowest position dozer blade	mm	in	3	11	12	.2			
1	Tumbler length	mm	in	1.2	240	48				
J	Track length	mm	in	1 6	520	63	.8			
K	Dozer blade, maximum reach at ground level	mm	in	1.2	215	47	.8			
L	Overall track width min	mm	in	1 (14	39	.9			
	max	mm	in	1.3	356	53	.4			
M	Overall length	mm	in	3 7	'46	14	7.5			
M,	Transport length	mm	in	2 850	112.2	2 880	113.4			
N	Overall height of engine hood	mm	in	1 4	23	50	3			
0	Minimum ground clearance	mm	in	15	59	6.	3			
Р	Dozer blade height	mm	in	24	18	9.				
Q	Shoe width	mm	in	25	50	9.	8			
R	Ground clearance to superstructure	mm	in	48	31	18	.9			
S	Front slew radius	mm	in	16	83	66	.3			
Т	Front slew radius with maximum offset	mm	in		883	54				
U	Overall height (canopy)	mm	in	2.3		91				
V	Overall height (cab)	mm	in	2 3		94				
W	Overall width of superstructure	mm	in	99	93	39	.1			
Χ	Tail slew radius	mm	in	1 (90	42	.9			
Υ	Angle of approach	deg				28				
Z	Dozer blade width min	mm	in	1 (14	39	.9			
	max	mm	in	1.3	356	53	.4			
α,	Maximum boom swing angle to the left	deg				75				
β	Maximum boom offset to the right	mm	in	54	17	21	.5			
α_{2}	Maximum boom swing angle to the right	deg				55				
β	Maximum boom offset to the left	mm	in	39	92	15	.4			

Equipment.

STANDARD EQUIPMENT

Engine

Low emission, water-cooled, Volvo 3-cylinder diesel engine, meeting EPA Tier 4 environmental regulations

Starter motor protected against ignition when engine is already running

Dry-type single element air filter

Water separator

Translucent fuel filter

Electric/Electronic control system

Maintenance free battery

IP67 protected electrical system and high quality connectors

Removable breaker switch

Two working lights on cab version

Working light on the canopy frame

12V power socket in cab / canopy

Hydraulic system

Flow-sharing main control valve

Boom cylinder cushioning at end stroke (up)

Patented filtering and filling element

Large tiltable oil cooler

Double-acting hydraulic circuit for accessories

On digging unit, the hydraulic hoses are routed inside the boom for increased

Plastic tank with drain plug

Swing system

Radial piston hydraulic motor with integrated shockless valve

Automatic multi-disc spring applied hydraulic released slew brake Centralized and remote lubrication of crown wheel & ball bearing

Axial piston hydraulic motors equipped with an epicyclic reduction gears

Inner flange bottom rollers lubricated for life

Grease tensioning wheel lubricated for life

Undercarriage and dozer blade

Box welded fabricated frame

4 Integrated tie-down points

Sturdy removeable protecting covers for track motors and slew system

Weld-on edge on dozer blade

Digging Equipment

Monobloc box welded fabricated boom with integrated lifting eye

Boom cylinder protection

Monobloc box welded arms with casted ends

Long-life steel bushings

Hardened, pre-lubricated and corrosion resistant pins

50H hours greasing intervals

FOPS level 1 (Falling Objects Protective Structure)

TOPS (Tip-Over Protective Structure)

ROPS (Roll-Over Protective Structure)

Cushioned operator station

Toolbox with integrated storage for operator's manual and lockable door

Large and roomy uncluttered floor

Left hand-rail access

Seat-belt with warning indicator

Right rear-view mirror

2 Integrated lifting points

FOPS level 1 (Falling Objects Protective Structure)

TOPS (Tip-Over Protective Structure)

ROPS (Roll-Over Protective Structure)

OPG1 on top (Operator Protective Guard)

Cushioned operator station

Large door access

Large and roomy uncluttered floor

Flat toughened glass

Gas-strutt assisted front window opening

Front windscreen wiper and washer nozzle

Right hand side sliding window

Heating systems with in-cab adjustment of temperature and air flow level

Multiple adjustable air vents

Filtered air inlet

Toolbox with integrated storage for operator's manual and lockable door

Seat-belt with warning indicator

Right rear-view mirror

2 Integrated lifting points

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

Engine starting safety device: the left console must be raised to operate the

Pressure accumulator to lower the equipment on the ground if the engine is

Two speed travel switch on the dozer blade lever

Instrumentation and monitoring

Permanent digital hour meter

Warning lights for hydraulic filter and air filter restriction

Water temperature and fuel level gauges

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

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 1 conforming to ISO 3449 standard ROPS conforming to ISO 3471-1 and / SAE J1040 standards

TOPS conforming to ISO 12117 and EN 13531 standards OPG 1 conforming to ISO 10262 standard (when equipped)

STANDARD AND OPTIONAL EQUIPMENT

- = Standard
 ° = Option

Operator environment

Canopy

Vinyl seat, low-back seat and 2" standard seat belt Vinyl seat with mechanical suspension, low-back seat and 2" standard 0

0

0

0

0 0

0_

0

0

0

0

Vinyl seat with mechanical suspension, extended-back seat and 2" retractable seat belt

Vinyl seat with mechanical suspension, extended-back seat and 3" retractable seat belt Fabric seat with mechanical suspension, extended-back seat and 2"

retractable seat belt Fabric seat with mechanical suspension, extended-back seat and 3" retractable seat belt

Travel alarm Radio preparation (Antenna, wire harness) Radio, CD, MP3

Anti-theft device Front guard OPG1 Machine exterior

One protected worklight on the boom

ISO / SAE control pattern change

One rear worklight Rotating beacon

Several level of customization (RAL specifications) to match with your corporate identity

Standard Option Digging equipment Short arm OLong arm OUndercarriage equipment Automatic two speed travel 250 mm / 9.8" rubber tracks Dozer blade Hydraulic equipment Variable displacement piston pump Finger tip control for boom offset Finger tip control for accessories Proportional controls for boom offset and accessories Maximum accessory flow adjustment Relief valve for auxiliaries Breaker / Shear valve Hydraulic drain for accessories Breaker and clamshell auxiliaries Second accessory circuit Kit 2 flat face hydraulic couplings Kit 4 flat face hydraulic couplings Safety lifting valves on boom, arm & dozer blade Safety valve certification Mineral hydraulic oil VG46 Bio hydraulic oil VG68 Mineral hydraulic oil VG68		
o = Option Digging equipment Short arm o Long arm o Undercarriage equipment • Automatic two speed travel • 250 mm / 9.8" rubber tracks • Dozer blade • Hydraulic equipment • Variable displacement piston pump • Finger tip control for boom offset • Finger tip control for accessories • Proportional controls for boom offset and accessories • Maximum accessory flow adjustment • Relief valve for auxiliaries o Breaker / Shear valve o Hydraulic drain for accessories Breaker and clamshell auxiliaries o Breaker and clamshell auxiliaries o Second accessory circuit o Kit 2 flat face hydraulic couplings o Scond acressory circuit o Kit 2 flat face hydraulic couplings o Safety lifting valves on boom, arm & dozer blade o Safety lifting valves on boom, arm & dozer blade o Sa	STANDARD AND OPTIONAL EQUIPMENT	
Digging equipment Short arm OLong arm OUndercarriage equipment Automatic two speed travel 250 mm / 9.8" rubber tracks Dozer blade Hydraulic equipment Variable displacement piston pump Finger tip control for boom offset Finger tip control for boom offset Finger tip control for boom offset exproper of the proportional controls for boom offset and accessories Proportional controls for boom offset and accessories Maximum accessory flow adjustment Relief valve for auxiliaries Breaker / Shear valve Hydraulic drain for accessories Breaker and clamshell auxiliaries Second accessory circuit Second accessories Second accessory circuit Second accessories Second accessory circuit Second accessories Second acces	• = Standard	
Short arm		
Long arm		
Automatic two speed travel	Short arm	0
Automatic two speed travel 250 mm / 9.8" rubber tracks Dozer blade Hydraulic equipment Variable displacement piston pump Finger tip control for boom offset Finger tip control for boom offset Finger tip control for boom offset expression of the proportional controls for boom offset and accessories Proportional controls for boom offset and accessories Maximum accessory flow adjustment Relief valve for auxiliaries Breaker / Shear valve Hydraulic drain for accessories Breaker and clamshell auxiliaries Second accessory circuit Kit 2 flat face hydraulic couplings Kit 4 flat face hydraulic couplings Safety lifting valves on boom, arm & dozer blade Safety valve certification Mineral hydraulic oil VG46 Bio hydraulic oil VG68 Mineral hydraulic oil VG68 Mineral hydraulic oil VG68 Mineral hydraulic oil VG68 Mineral hydraulic oil VG68	Long arm	0
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Breaker / Shear valve		•
Hydraulic drain for accessories		0
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Kit 4 flat face hydraulic quick couplings Boom & arm safety lifting valves Safety lifting valves on boom, arm & dozer blade Safety valve certification Mineral hydraulic oil VG46 Mineral hydraulic oil VG68 Mineral hydraulic oil VG68 Mineral hydraulic oil VG32	Second accessory circuit	0
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Safety lifting valves on boom, arm & dozer blade Safety valve certification Mineral hydraulic oil VG46 Bio hydraulic oil VG46 Mineral hydraulic oil VG68 Mineral hydraulic oil VG32	Kit 4 flat face hydraulic quick couplings	0
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Mineral hydraulic oil VG68 Mineral hydraulic oil VG32		0
Mineral hydraulic oil VG32	Bio hydraulic oil VG46	0
		0
Rio hydraulic oil VG32		0
Bio flydraulic oii Vaoz	Bio hydraulic oil VG32	0

• = Standard	
° = Option	
Engine	
Dual stage air filter	0
Auto idling system	0
Auto engine shutdown	0
Service and maintenance	
Tool kit	0
Telematics	
Care Track	0
Attachments	
Volvo quick coupler mechanical (pin-on)	0
General purpose buckets	0
Fix ditching buckets	0
Tiltable ditching buckets	0

Above mentioned features and options might be available independently or through packs.

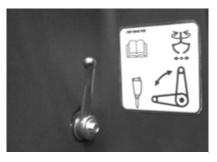
Selection of Volvo optional equipment

Auto idle

Auto engine shutdown



Breaker / shear valve



Second auxiliary circuit (X3)



OPG1 guards



Specific colour machine



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.