

Volvo Construction Equipment

EC15D, EC18D, EC20D

VOLVO COMPACT EXCAVATORS 1.54-1.95t 16.3hp



A passion for performance.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more.

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs.

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years.

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side.

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.













Volvo Trucks

Renault Trucks



VOLVO



















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Volvo Construction Equipment



Volvo Penta

Volvo Financial Services

Mack Trucks

UD Trucks

Volvo Buses

Built to last.

The EC15D, EC18D and EC20D compact excavators from Volvo are built to deliver superior performance that lasts. These robust, reliable machines are equipped with a tough rear counterweight and casted digging equipment to ensure maximum durability for a long machine life. With fully protected hydraulics and a strong, reinforced dozer blade, these machines are designed to work harder for longer.

Quality components

Casted swing frame, boom and arm ends allow for excellent stress distribution and enduring performance. Hardened pins and bushings are designed to keep pivot points tight and secure for minimum wear, guaranteeing your machine is ready to work year after year.

Strong by design

All hoses are routed through the boom, providing full protection. With the EC15D and EC18D, the lifting cylinder is located on top of the boom, ensuring it is protected when digging and when using a breaker. A strong steel casing protects the boom cylinder on the EC20D.







In-track boom swing

To maintain visibility when working in tight conditions, the natural position is to offset the boom to the left. These machines are designed so that the swing post and cylinder stay within the tracks in this position, avoiding the risk of damage to your machine when working alongside obstacles.

Reinforced blade

The robust dozer blade is equipped with a reinforced 400HB cutting edge for superior wear resistance. A strong, curved upper lip gives added protection against damage in tough applications. This sturdy structure ensures outstanding performance whether dozing, back filling or using the blade as a stabilizer.



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High profile rear counterweight

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A tough rear counterweight provides excellent wear resistance and shields all vital components. The unique high-profile design is made from a single, strong piece of cast iron that wraps around each side of the machine ensuring outstanding protection.



Superior operator environment

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The spacious, safe cab or canopy feature superior noise and vibration insulation for increased operator comfort throughout the day. A 12v electrical socket, optional MP3 radio, adjustable ergonomically designed seat and an efficient heating system provide a comfortable working environment. The flat floor allows for easy cleaning of the cab.

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Working made easy.

Step inside the spacious cab and experience the benefits of the comfortable and intuitive Volvo operator environment. The modern styling delivers superior all-around visibility from large expanses of glass as well as innovative, ergonomic features including ideally placed controls with no auxiliary pedals, allowing for good floor space.

Large cab access

Gain easy and safe entry to the cab via a wide door with three contact points. When equipped with a canopy, the machines feature a large, practical handrail.



Assisted front window opening

The front window is equipped with a gas strut, together with large handles for easy opening, ensuring a comfortable, safe working environment.



Intuitive fingertip controls

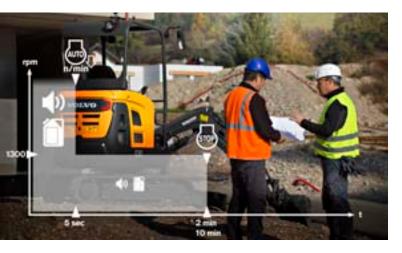
The boom offset and the auxiliary hydraulics are operated by ergonomic fingertip controls, rather than pedals. A single-acting button on the joystick makes it easy to send the maximum flow available to the accessory. This ensures precise control.

Maintain your uptime.

With a comprehensive range of built-in service features, Volvo makes it easy to take care of your machine. Guaranteed long greasing intervals and Volvo's patented hydraulic oil filter maximize your uptime. The auto-idle and auto engine shut down features ensure reduced fuel consumption and servicing requirements, decreasing your total cost of ownership. And, for assured peace of mind, you are fully supported by Volvo's global service network.

Auto-idle and auto engine shutdown

Engine speed is reduced to idle when the controls are inactive for five seconds – reducing fuel consumption and noise. If the machine is left idling for longer, the engine can be set to automatically shut down. This then stops the hour meter, leading to longer service intervals, lower operating costs and ensuring a better resale value for your machine.



50 hour greasing interval

Grease points are easily accessible. With a greasing interval of 50 hours, there is no need to grease during the week. Longer greasing intervals increase uptime, lower maintenance costs and provide longevity for all pivot points.





Patented hydraulic oil filter

With Volvo's patented multifunctional hydraulic oil filter, filtration occurs when the tank is filled or topped up and before the oil returns back via the drain lines. The transparent bowl enables easy oil level checks and permits early detection of contamination. Preventative maintenance can be carried out before damage occurs.

Flat windows

The flat, toughened glass used on the four sides of the cab guarantees that replacements can be fitted simply, quickly and inexpensively if damage occurs.



Fast daily checks

Daily service points are logically grouped under the wide-opening lockable engine hood to ensure straightforward maintenance and maximized uptime. Quick checks encourage this essential work to be carried out – increasing machine lifetime.



ECIBD

Ultimate lifting capacity

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Excellent stability and outstanding hydraulics ensure the D-series machines are capable of lifting heavy loads, with up to an 12% increase in lifting capacity compared to previous models.

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Power to perform.

Increased lifting capacities and excellent digging forces give you the ability to efficiently handle a variety of demanding jobs. Experience stability and versatility with a variable-width undercarriage, and benefit from superior control thanks to flow sharing hydraulics and automatic two-speed travel system.

Impressive digging forces

The EC15D, EC18D and EC20D feature class-leading tear-out forces and excellent break-out forces. Thanks to the optimized digging equipment, these powerful compact excavators allow you to stretch further, dig deeper and reach higher.





Variable-width undercarriage

For maximum versatility, the undercarriage can be extended or retracted to suit your needs. A reduced width can be selected when going through narrow spaces. The undercarriage can be extended for more stability and improved performance.

Harmonized hydraulics

The state-of-the-art hydraulic system delivers superior performance no matter what the application. The flow sharing system ensures the operator has precise control of simultaneous functions for more efficient operations.





Automatic travel speed

For optimized travel speed and traction, automatic two speed travel allows the operator to continually drive the machine at high speed. When more traction is needed, the speed is automatically reduced.

Durable by design.



Superior operator environment

Ergonomic, spacious and safe Volvo cab/canopy features all-round visibility, intuitive controls and built-in comfort.

Quality components

All components are designed to deliver outstanding durability and reliability, to maximise your machine life and lower maintenance costs.

Auto-idle and auto engine shutdown

Reduce fuel consumption and servicing requirements with auto-idle and auto engine shutdown.



Ultimate lifting capacity

50 hour greasing interval

between jobs.

The greasing interval is 50 hours therefore there is no need to re-grease

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

Intuitive fingertip controls

The boom offset and the auxiliary hydraulics are operated by ergonomic fingertip controls, rather than pedals.





High profile rear counterweight

A robust, high-profile cast iron rear counterweight provides excellent resistance for outstanding durability.

Harmonized hydraulics

Flow sharing hydraulics ensure smooth, precise control of simultaneous functions for more efficient operations.



Fast daily checks

Daily service points are grouped under the wideopening lockable engine hood to ensure straightforward maintenance and maximized uptime.

Variable-width undercarriage

For maximum versatility, the undercarriage can be extended for maximum stability or retracted during transport.



Wide range of attachments

A wide range of Volvo attachments make the EC15D, EC18D and EC20D ready to tackle any job.

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.

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Wide range of attachments

The range of Volvo attachments makes the D-series the perfect fit for your job. For maximum flexibility, chose from a variety of bucket sizes with Volvo bolted teeth and transport hook as standard. Fixed and tiltable ditching buckets are also available. A range of Volvo breakers are aldo available, delivering powerful impact energy and low noise levels. All attachments are fully supported by Volvo CE after sales services.

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EC20D

Ultimate versatility for any job.

These machines have been developed to work in harmony with a range of quality Volvo attachments, making them a versatile addition to your fleet. Volvo quick couplers allow you to switch between attachments with ease for ultimate flexibility, ready to tackle any job, at any site.

Smart bucket transport system

Volvo's simple and effective bucket transportation system enables buckets to be transported safely and easily. Transportation hooks are integrated into the bucket design, allowing it to carry up to two general buckets by attaching them onto a ditching bucket, and securing them against the blade at the end of the working day.





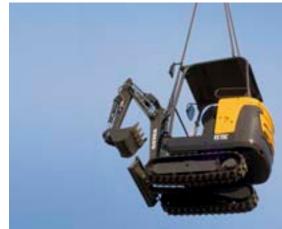
Adjustable hydraulic flows

Easily adjust auxiliary hydraulic flows from inside the cab and benefit from the optimal speed and power for attachment operation. Flows can be independently adjusted in each direction.

Volvo quick coupler

Volvo's dedicated quick coupler makes attachment changes easy. Pick up Volvo hydraulic attachments including breakers and buckets for use in both the face shovel and normal backhoe position.





Safe transportation

Whether you are lifting your machine into a demolition site or transporting it on a trailer, you can safely get where you need to be with dedicated lifting points and an automatic swing brake for easy transportation.

Volvo EC15D, EC18D, EC20D in detail.

Engine	I	EC15D,	EC18D,	EC20D
Engine	Volvo			D0.9A
Rated speed	r/s (r/min)		40.3	(2 420)
Maximum Gross power, ISO 14396/SAE J1995	kW / hp			2 / 16.3
Max torgue at	Nm / r/min		51	/ 2 000
No, of cylinders			01	3
Displacement	cm ³			898
Bore	mm			72
Stroke	mm			73.6
Compression ratio				24
Electrical system		EC15D.	EC18D,	
Rated voltage	V		,	12
Batteries	v			1 x 12
Battery capacity	Ah			64
Alternator	V / Ah			12 / 40
Swing system	• 7 7 11	EC15D	EC18D	
Max, slew speed	r/min	9.5	9.5	9.5
Max, slew torque	daN.m	243	243	304
Undercarriage	dartim	-	-	EC20D
Bottom/top rollers per side		3/0	3/0	4/0
Track tension		570		se piston
		980x	1 336x	
Blade (width x height)	mm	238	248	248
Digging performances		EC15D	EC18D	EC20D
Standard bucket width	mm	450	450	500
(blade, W/O side cutter)				
Standard bucket mass	kg	33	33	48
Standard bucket rated capacity	1	36	36	63
Bucket rotation	deg	196	196	199
Bucket breakout force (ISO)	daN	1 290	1 290	1 827
Short arm tearout force (ISO)	daN	795	795	1 229
Long arm tearout force (ISO)	daN	695	695	1 033
Weight and ground press	sure	EC15D	EC18D	EC20D
Operating weight according to ISO 6016	kg	1 640	1 770	1 950
Ground pressure	kg/cm² kPa	0.27 26.4	0.31 30.4	0.31 30.4
Transport weight (Heated cab, rubber tracks, short arm, standard direct-fit bucket, 10% fuel tank capacity)	kg	1 490	1 710	1 890
With canopy	kg	-78	-78	-78
thin ballopy				
With extra counterweight	kg	+38	+38	

Hydraulic system		EC15D	FC	8D	EC20D	
Tyurdune system		Gear	Gear	Piston	Piston	
		pump	pump	pump	pump	
Maximum system flow	l/min	34	34	48	48	
Maximum flow for accessories	l/min	30	30	43	43	
Maximum flow for 2nd accessory circuit (option)	l/min	-	19	19	19	
Maximum operating pressure	Мра	17	17	17	21	
	bar	170	170	170	210	
Drive		EC15D	EC	8D	EC20D	
Max, drawbar pull	daN	1 160	1 160	1 160	1 440	
Max. travel speed (low / high)	km/h	1.9	1.9 / 3.7	2.5 / 4.7	2.5 / 4.7	
Gradeability	deg	30	30	30	30	
Service refill capacit	ies		EC15D,	EC18D,	EC20D	
Fuel tank	I				20	
Hydraulic system, total	I				21	
Hydraulic tank	I				15	
Engine oil	I				3.7	
Engine coolant	I				4	
Travel reduction unit	- 1				2 x 0.33	
Sound Level			EC15D,	EC18D,	EC20D	
Interior sound level ac (LpA)	cording	to ISO (6396	dB(A)	78	
External sound level ad and EU Noise Directiv 474-1:2006 +A1:200	e (200	0/14/EC		dB(A)	93	
Attachments						

		EC15D,	EC18D	EC2	20D
Type	Width	Capacity	Weight	Capacity	Weight
Туре	mm	I	kg	I	kg
	200	14	21	-	-
	250	19	23	28	32
A	300	23	26	32	34
General purpose buckets	400	32	31	47	41
DUCKEIS	450	36	33	-	-
	500	41	36	63	48
	600	51	41	78	53
Eine die bie en bewelende	800	59	49	-	-
Fix-ditching buckets	1 000	76	56	76	57
2 X 45° Tiltable- ditching buckets	850	59	83	59	83
			EC15D	EC18D.	EC20D

		EC15D,	EC18D, EC20D
	Operating weight	Tool Ø	Impact rate
	kg	mm	bpm
Hydraulic breaker HB02LN	129	57	450 - 1 000

Specifications.

LIFTING CAPACITY EC15D

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)							
		2.0) m	3.	0 m	Max	reach		
	Lifting point height (B)		¢∏₽				€ <	Max.	
	2 m kg	-	-	-	-	-	-	-	
Arm: 950mm	1 m kg	372	327	212	188	182	161	3.33	
+ Dozer blade up	0 m kg	346	303	204	180	181	160	3.29	
	-1 m kg	347	303	-	-	223	197	2.82	
	2 m kg	-	-	-	-	-	-	-	
Arm: 950mm	1 m kg	447*	327	292*	188	262*	161	3.33	
+ Dozer blade down	0 m kg	542*	303	294*	180	246*	160	3.29	
	-1 m kg	422*	303	-	-	238*	197	2.82	
	2 m kg	-	-	-	-	-	-	-	
Arm: 950mm	1 m kg	399	353	228	203	197	175	3.33	
+ Dozer blade up + Additional counterweight	0 m kg	374	328	221	196	196	174	3.29	
+ Additional Counterweight	-1 m kg	375	329	-	-	238*	214	2.82	
	2 m kg	-	-	-	-	-	-	-	
Arm: 950mm	1 m kg	447*	353	292*	203	262*	175	3.33	
+ Dozer blade down + Additional counterweight	0 m kg	542*	328	294*	196	246*	174	3.29	
	-1 m kg	422*	329	-	-	238*	214	2.82	
	2 m kg	-	-	225	194	205	177	3.17	
Arm: 1 150mm	1 m kg	372*	332	218	188	173	148	3.52	
+ Dozer blade up	0 m kg	357	302	209	179	171	147	3.48	
	-1 m kg	353	298	208	178	204	174	3.05	
	2 m kg	-	-	241*	194	248*	177	3.17	
Arm: 1 150mm	1 m kg	372*	332	275*	188	240*	148	3.52	
+ Dozer blade down	0 m kg	547*	302	296*	179	228*	147	3.48	
	-1 m kg	451*	298	232*	178	221*	174	3.05	
	2 m kg	-	-	241*	210	221*	192	3.17	
Arm: 1 150mm	1 m kg	372*	357	235	204	187	161	3.52	
+ Dozer blade up + Additional counterweight	0 m kg	384	327	226	194	185	160	3.48	
	-1 m kg	381	324	225	193	220	190	3.05	
	2 m kg	-	-	241*	210	248*	192	3.17	
Arm: 1 150mm + Dozer blade down	1 m kg	372*	357	275*	204	240*	161	3.52	
+ Dozer blade down + Additional counterweight	0 m kg	547*	327	296*	194	228*	160	3.48	
	1 m kg	451*	324	232*	193	221*	190	3.05	

*hydraulic limit

Specifications.

LIFTING CAPACITY EC18D

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.

nandling operations.				Lifting	point radius (A)		
	Lifting	2.0) m	3.	0 m	Max	reach	
	point height (B)		¢□□		¢]⊖]≎			Max.
	2 m kg	-	-	-	-	-	-	-
Arm: 950mm	1 m kg	396	447*	236	292*	195	262*	3.33 m
+ Dozer blade up	0 m kg	371	542*	218	294*	194	246*	3.29 m
	-1 m kg	372	422*	-	-	238*	238*	2.82 m
	2 m kg	-	-	-	-	-	-	-
Arm: 950mm	1 m kg	447*	447*	292*	292*	262*	262*	3.33 m
+ Dozer blade down	0 m kg	542*	542*	294*	294*	246*	246*	3.29 m
	-1 m kg	422*	422*	-	-	238*	238*	2.82 m
	2 m kg	-	-	-	-	-	-	-
Arm: 950mm	1 m kg	424	447*	243	292*	210	262*	3.33 m
+ Dozer blade up + Additional counterweight	0 m kg	399	542*	235	294*	209	246*	3.29 m
+ Additional counterweight	-1 m kg	400	422*	-	-	238*	238*	2.82 m
	2 m kg	-	-	-	-	-	-	-
Arm: 950mm	1 m kg	447*	447*	292*	292*	262*	262*	3.33 m
+ Dozer blade down + Additional counterweight	0 m kg	542*	542*	294*	294*	246*	246*	3.29 m
+ Additional counterweight	-1 m kg	422*	422*	-	-	238*	238*	2.82 m
	2 m kg	-	-	233	241*	213	248*	3.17 m
Arm: 1 150mm	1 m kg	372*	372*	226	275*	179	240*	3.52 m
+ Dozer blade up	0 m kg	370	547*	217	296*	178	228*	3.48 m
	-1 m kg	366	451*	216	232*	212	221*	3.05 m
	2 m kg	-	-	241*	241*	248*	248*	3.17 m
Arm: 1 150mm	1 m kg	372*	372*	275*	275*	240*	240*	3.52 m
+ Dozer blade down	0 m kg	547*	547*	296*	296*	228*	228*	3.48 m
	-1 m kg	451*	451*	232*	232*	221*	221*	3.05 m
	2 m kg	-	-	241*	241*	229	248*	3.17 m
Arm: 1 150mm	1 m kg	372*	372*	243	275*	193	240*	3.52 m
+ Dozer blade up + Additional counterweight	0 m kg	398	547*	234	296*	192	228*	3.48 m
	-1 m kg	394	451*	232*	232*	221*	221*	3.05 m
	2 m kg	-	-	241*	241*	248*	248*	3.1 m
Arm: 1 150mm	1 m kg	372*	372*	275*	275*	240*	240*	3.52 m
+ Dozer blade down	0 m kg	547*	547*	296*	296*	228*	228*	3.48 m
+ Additional counterweight	-1 m kg	451*	451*	232*	232*	221*	221*	3.05 m

*hydraulic limit

LIFTING CAPACITY EC20D

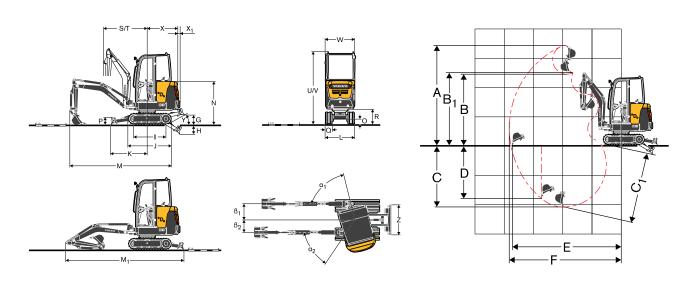
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					Lifting	point radius (A)		
	1:4:-	_	2.0) m	3.0) m	Max ı	reach	
	Lifting point heigh (B)	Ĩ		¢]⊂]⇒					Max.
	2 m	kg	-	-	295	330	259	289	3.25 m
Arm: 1 050mm	1 m	kg	506	567	281	316	225	253	3.48 m
+ Dozer blade up	0 m	kg	475	536	270	304	232	262	3.35 m
	-1 m	kg	479	540	-	-	302	340	2.79 m
	2 m	kg	-	-	399*	330	407*	289	3.25 m
Arm: 1 050mm	1 m	kg	776*	567	476*	316	431*	253	3.48 m
+ Dozer blade down	0 m	kg	965*	536	542*	304	468*	262	3.35 m
	-1 m	kg	851*	540	-	-	514*	340	2.79 m
	2 m	kg	-	-	298	332	223	250	3.55 m
Arm: 1 350mm	1 m	kg	517	578	281	315	197	222	3.76 m
+ Dozer blade up	0 m	kg	471	532	265	299	201	227	3.64 m
	-1 m	kg	466	527	262	297	247	279	3.15 m
	2 m	kg	-	-	334*	332	354*	250	3.55 m
Arm: 1 350mm	1 m	kg	648*	578	427*	315	379*	222	3.76 m
+ Dozer blade down	0 m	kg	931*	532	520*	299	413*	227	3.64 m
	-1 m	kg	910*	527	503*	297	459*	279	3.15 m

*hydraulic limit

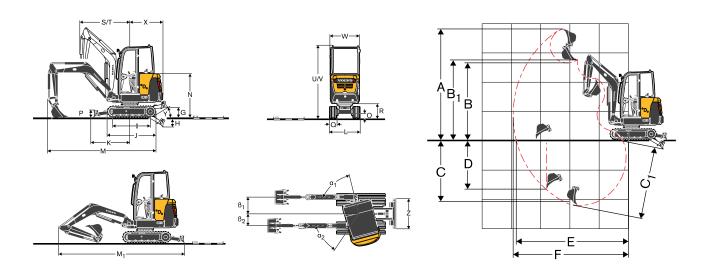
Specifications.

DIMENSIONS EC15D - EC18D



Description			Unit	EC15D		EC18D	
Arm					1 150	950	1 150
Α	Maximum cutting height		mm	3 437	3 580	3 460	3 603
В	Maximum dumping height		mm	2 439	2 582	2 462	2 605
Β,	Maximum bucket clearance		mm	2 475	2 620	2 498	2 642
Ċ	Digging depth		mm	2 120	2 323	2 097	2 297
C_1	Maximum digging depth		mm	2 354	2 565	2 387	2 582
D	Maximum vertical wall digging depth		mm	1 793	1 985	1 772	1 961
Е	Maximum digging reach at ground level		mm	3 803	3 996	3 799	3 992
F	Maximum digging reach		mm	3 856	4 046	3 856	4 0 4 6
G	Highest position dozer blade	short blade	mm	20	09		45
		long blade	mm	32	21	3:	26
Н	Lowest position dozer blade	short blade	mm	19	90	2	27
		long blade	mm	29	94	3	11
1	Tumbler length		mm	1 ()82	1 ()82
J	Track length		mm	1 4	162	1 4	162
K	Dozer blade, maximum reach at ground level	short blade	mm	8	57	9	76
		long blade	mm	1 1	66	12	215
L	Overall track width	min	mm	98	30	99	94
		max	mm		-	13	336
М	Overall length		mm	35	580	3 5	591
M,	Transport length		mm	3 770	3 780	3 770	3 780
N	Overall height of engine hood		mm	1 4	100	1 4	123
0	Minimum ground clearance		mm	2	10		59
Р	Dozer blade height	short blade	mm	23	38	23	38
		long blade	mm	24	41	24	48
Q	Shoe width		mm	23	30	23	30
R	Ground clearance to superstructure		mm	48	58	48	81
S	Front slew radius		mm	1 4	152	1 4	152
Т	Front slew radius with maximum offset		mm	1 1	47	1 1 4 7	
U	Overall height (canopy)		mm	2 2	296	23	318
V	Overall height (cab)		mm	23	371	2 395	
W	Overall width of superstructure		mm	99	93	99	93
Х	Tail slew radius		mm	1 ()52	1 ()52
Χ,	ail slew radius with additional counterweight		mm	3	8	3	8
Ϋ́	Angle of approach short blade	short blade	deg	2	8	2	26
		long blade	deg	2	5	2	24
Ζ	Dozer blade width	min	mm	98	30	99	94
	max		mm		-	1 3	336
α,	Maximum boom swing angle to the left		deg	7	5	7	5
β	Maximum boom offset to the right		mm	52	27	55	27
α_{2}	Maximum boom swing angle to the right		deg		5	5	5
β_2^2	Maximum boom offset to the left		mm	4	12	4	12
1-2							

DIMENSIONS EC20D



Desci	ription	Unit	EC	20 D
Arm	·	mm	1 050	1 350
А	Maximum cutting height	mm	3 807	3 982
В	Maximum dumping height	mm	2 635	2 810
B,	Maximum bucket clearance	mm	2 7 4 6	2 920
C	Digging depth	mm	2 257	2 557
C,	Maximum digging depth	mm	2 482	2 781
D	Maximum vertical wall digging depth	mm	1 692	1 978
Е	Maximum digging reach at ground level	mm	3 971	4 261
F	Maximum digging reach	mm	4 080	4 362
G	Highest position dozer blade	mm	32	26
Н	Lowest position dozer blade	mm	31	1
1	Tumbler length	mm	1 2	240
J	Track length	mm	16	620
K	Dozer blade, maximum reach at ground level	mm	1 2	215
L	Overall track width min	mm	1 C)14
	max	mm	1 3	56
М	Overall length	mm	37	46
M,	Transport length	mm	2 850	2 880
N	Overall height of engine hood	mm	14	-23
0	Minimum ground clearance	mm	15	59
Р	Dozer blade height	mm	24	18
Q	Shoe width	mm	25	50
R	Ground clearance to superstructure	mm	48	31
S	Front slew radius	mm	16	683
Т	Front slew radius with maximum offset	mm	13	83
U	Overall height (canopy)	mm	23	18
V	Overall height (cab)	mm	23	95
W	Overall width of superstructure	mm	99	93
Х	Tail slew radius	mm	1 C	90
Y	Angle of approach	deg	2	8
Z	Dozer blade width min	mm	1 C	14
	max	mm	13	56
α_1	Maximum boom swing angle to the left	deg	7	5
α ₁ β ₁	Maximum boom offset to the right	mm	54	17
α_2	Maximum boom swing angle to the right	deg	5	
β	Maximum boom offset to the left	mm	39	92

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 runing
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
protection
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
Drivetrain
Axial piston hydraulic motors equipped with an epicyclic reduction gears
Inner flange bottom rollers lubricated for life
Grease tensionning 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 weldded fabricated boom with integrated lifting eye
Boom cylinder protection (EC20D)
Monobloc box weldded arms with casted ends
Long-life steel bushings
Hardened, pre-lubricated and corrosion resistant pins
50H hours greasing intervals
Canopy FOPS level 1 (Falling Objects Protective Structure)
TOPS (Tip-Over Protective Structure)
ROPS (Roll-Over Protective Structure)
Cushionned operator station
Toolbox with integrated storage for operator's manual and lockeable door
Large and roomy uncluttered floor
Left hand-rail access
Seat-belt with warning indicator
Right rear-view mirror
2 Integrated lifting points
Cab
FOPS level 1 (Falling Objects Protective Structure)
TOPS (Tip-Over Protective Structure)
ROPS (Roll-Over Protective Structure)
OPG1 on top (Operator Protective Guard)
Cushionned 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 lockeable door Seat-belt with warning indicator
Seat-belt with warning indicator

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 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 if the engine is switched off
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
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 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	EC1ED	EC18D	EC205
° = Option	ECISD	ECIOD	EC20D
Operator environment			
Canopy	0	0	0
Heated cab	0	0	0
Vinyl seat, low-back seat and 2" standard seat belt	0	0	0
Vinyl seat with mechanical suspension, low-back seat and 2" standard seat belt	o	o	o
Vinyl seat with mechanical suspension, extended- back seat and 2" retractable seat belt	o	o	o
Vinyl seat with mechanical suspension, extended- back seat and 3" retractable seat belt	0	o	٥
Fabric seat with mechanical suspension, extended- back seat and 2" retractable seat belt	o	o	o
Fabric seat with mechanical suspension, extended- back seat and 3" retractable seat belt	o	o	o
ISO / SAE control pattern change	0	0	0
Travel alarm	0	0	0
Radio preparation (Antena, wire harness)	•	•	•
Radio, CD, MP3	0	0	0
Anti-theft device	0	0	0
Front guard OPG1	0	0	0
Machine exterior			
Left rearview mirror	0	0	0
One protected worklight on the boom	0	0	0
One rear worklight	0	0	0
Rotating beacon	0	0	0
Additional counterweight	0	0	
Several level of customisation (RAL specifications) to match with your corporate identity	0	0	o
Digging equipment			
Short arm	0	0	0
Long arm	0	0	0
Undercarriage equipment			
Automatic two speed travel		•	•
230mm rubber tracks	•	•	
250mm rubber tracks			•
Short dozer blade	0	0	
Long dozer blade	0	0	•

STANDARD AND OPTIONAL EQUIPMENT

• = Standard	EC15D	EC18D	EC20D
° = Option	ECISD	ECIOD	EC20D
Hydraulic equipment			
Gear pump	•	0	
Variable displacement piston pump		0	•
Finger tip control for boom offset	•	•	•
Finger tip control for accessories	•	•	•
Proportional controls for boom offset and accessories		•	•
Maximum accessorie flow adjustment		•	٠
Relief valve for auxiliaries	0	0	0
Breaker / Shear valve	0	0	0
Hydraulic drain for accessories	0	0	0
Breaker and clamshell auxiliaries	0	0	0
Second accessory circuit		0	0
Kit 2 flat face hydaulic couplings	0	0	0
Kit 4 flat face hydaulic quick couplings	0	0	0
Boom & arm safety lifting valves	0	0	0
Safety lifting valves on boom, arm & dozer blade	0	0	0
Safety valve certification	0	0	0
Mineral hydraulic oil VG46	0	0	0
Bio hydraulic oil VG46	0	0	0
Mineral hydraulic oil VG68	0	0	0
Mineral hydraulic oil VG32	0	0	0
Bio hydraulic oil VG32	0	0	0

• = Standard	1		
° = Option	EC15D	EC18D	EC20D
Engine			
Dual stage air filter	0	0	0
Auto idling system		0	0
Auto engine shutdown		0	0
Service and maintenance			
Tool kit	0	0	0
Telematics			
Care Track	0	0	0
Attachments			
Volvo quick coupler mechanical (pin-on)	0	0	0
Lehnhoff® Quick Coupler Mechanical (MS type)	0	0	0
General purpose buckets	0	0	0
Fix ditching buckets	0	0	0
Tiltable ditching buckets	0	0	0
Hydraulic breaker HB02LN	0	0	0

Above mentionned features and options might be available independantly or throught packs.

Selection of Volvo optional equipment

Auto engine shutdown

Auto idle



Additional counterweight



OPG1 guards



Short/long blade



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.

PES Plant Sales Beare Works Beare Nr Exeter EX5 3JX 01392 882220

