Volvo Construction Equipment

ECR88D

Volvo Excavators 8.6-9.5 t / 19,010-20,950 lb 58 hp

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 customers around the globe. 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.

A strong, dedicated, capable dealer network

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.

The strength of our dealer network is enhanced with extensive individualized product support training at our best-in-class Customer Center in Shippensburg and through hands-on training. Using a great Product Demonstration Center featuring a dedicated area for most commons applications, visitors operate equipment from our entire product line under a variety of simulated working conditions. This facility is in year-round use by our dealers and customers.

Building the best starts right here.

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq. ft. expansion – now covers 570,000 sq. ft. on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.

Volvo Trucks

Renault Trucks

Mack Trucks

UD Trucks

Volvo Buses

Volvo Construction Equipment

Volvo Penta

Volvo Financial Services

Powered to perform

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

Volvo engine

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

Slew and boom offset

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

Tractive force

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

ENHANCED HYDRAULICS

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

STABILITY

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

Stability you can count on

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

Service access

For safe and easy access, all service check points are located under the wide-opening engine hood and are accessed from ground level. Grouped filters ensure regular maintenance is straightforward and uptime is maximized.

Single pivot pin

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

MATRIS and VCADS Pro

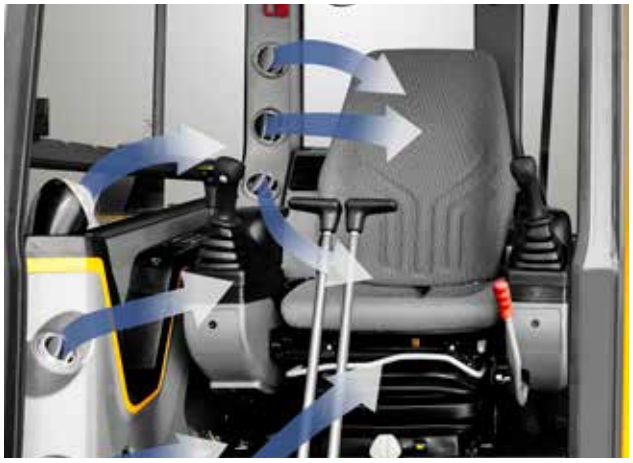
For increased uptime, Volvo's high-tech, computer-based MATRIS tool allows you to monitor machine usage and analyze machine operation. VCADS Pro analysis and programming software provides fast diagnostics.

Visibly better

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

Climate control

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



Keypad

The majority of switches are integrated in one centralized keypad on the right-hand console. The operator can easily control the I-ECU monitor and audio system for increased comfort.

Proportional joysticks

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

Storage

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

VOLVO CAB

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

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.

Infinite opportunities

Get the most out of your compact short swing radius excavator and access more segments and applications with Volvo's comprehensive range of attachments – designed to work in perfect harmony with Volvo machines. Increase your versatility, effectively perform a variety of tasks and experience new levels of productivity with the right attachment for your specific requirements.

Interfaces

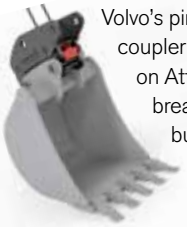
Direct fit

For maximum productivity when only operating in one application, Volvo's direct fit attachments provide the best performance and shortest tip radius.

Volvo mechanical quick coupler

Volvo's dedicated quick couplers pick up Volvo hydraulic attachments including breakers, thumbs and buckets for use in both the face shovel and normal backhoe position.

Volvo hydraulic quick coupler

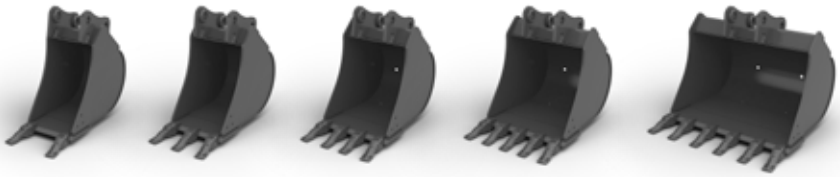


Volvo's pin grabber quick coupler picks up Volvo pin-on Attachments, including breakers, thumbs and buckets for use in both the face shovel and normal position.

Buckets

General purpose buckets

The perfect tool for trenching and handling in a variety of soil conditions. Available in different widths.



Fixed ditching buckets

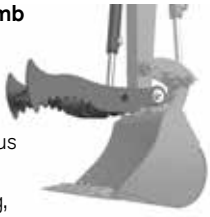
Ideal for ditch cleaning, grading, landscaping and backfilling.

Tiltable ditching bucket

This bucket can be tilted 45o to each side making it a flexible and versatile solution for grading, landscaping, ditch cleaning and backfilling.

Volvo hydraulic thumb

Designed to work with both Volvo direct fit buckets and with quick coupler in various materials. Used for piling, placing, loading, lifting and carrying.



Volvo Tooth System and wear parts

General purpose

Self-sharpening, general purpose tooth with good penetration and long service life.

Twin pick

Twin pick point with sharp, dual point profile. Ideal for compact or frozen ground.

Pick point

Intended for use in extremely compact materials.

Spade nose

Designed for finishing work such as leveling, grading, cleaning and backfilling.

Bottom leg adapter

A long (one and a half) bottom leg adapter for welding to both sides of the cutting edge.

Side cutter

Side cutters ensure longer bucket life by protecting the side plates and corner welds.

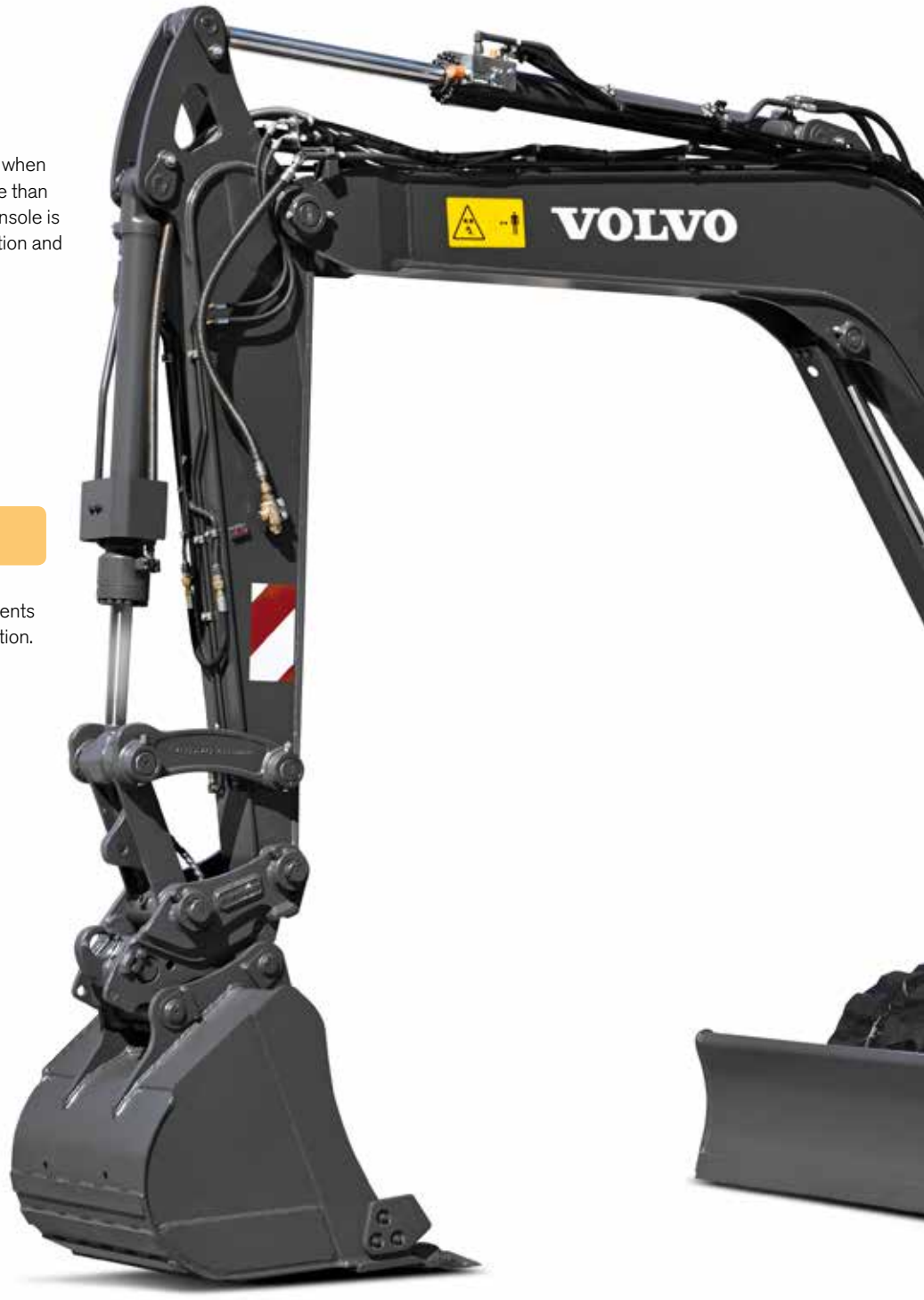
Built to get the job done

Auto idle

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

ENHANCED HYDRAULICS

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



Optional hydraulics

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

MATRIS and VCADS Pro

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

Optional dozer floating

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

VOLVO CAB

Volvo's purpose designed cab offers excellent allround viability, enhanced by the slim cab pillars and large windows.

VOLVO ENGINE

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

SERVICE ACCESS

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

STABILITY

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

Single pivot pin

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

Undercarriage

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

Adding value to your business

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.

Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.

Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.

Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.

CUSTOMER SUPPORT AGREEMENTS

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

Volvo ECR88D in detail

Engine		
The new Tier 4f/Stage IIIB compliant diesel engine is equipped with in-line, turbocharged and water cooled.		
Model	Volvo	D2.6H
Max. power at	r/min (r/s)	2,000 (33.3)
Net (ISO 9249/SAEJ1349)	kW (hp)	41 (55)
Gross (SAE J1995)	kW (hp)	43 (58)
Max. torque	Nm (ft lbf)	220 (162)
at engine speed	r/min	1,300
No. of cylinders		4
Displacement	l (in³)	2.62 (160)
Bore	mm (in)	87 (3.4)
Stroke	mm (in)	110 (4.3)

Electrical system		
Voltage	V	12
Batteries	V	1 x 12
Battery capacity	Ah	100
Alternator	V/Ah	12/70
Starter motor output	V - kW	12 - 2.5

Hydraulic system		
Closed-Center Load-Sensing (CCLS) system with load independent functions.		
Main pump: Variable-displacement pump		
Maximum flow	l/min (gal/min)	1 x 169 (1 x 44.6)
Pilot pump: Gear pump		
Maximum flow	l/min (gal/min)	1 x 14 (1 x 3.7)
Relief valve setting pressure		
Implement	MPa (psi)	29.4 (4,264)
Travel circuit	MPa (psi)	29.4 (4,264)
Swing circuit	MPa (psi)	24.5 (3,553)
Pilot circuit	MPa (psi)	3.4 (493)

Swing system		
Direct drive swing with radial piston motor-maintenance free and automatic holding brake anti-rebound valve.		
Max. swing speed	r/min	9.3
Max. swing torque	kNm (ft lbf)	22.9 (16,890)

Undercarriage		
Robust X-shaped frame with sealed and greased track chains.		
Track shoes		2 x 39
Link pitch	mm (in)	154 (6.1)
Shoe width - steel	mm (in)	450 / 600 (17.7 / 23.6)
Shoe width - rubber	mm (in)	450 (17.7)
Bottom rollers		2 x 5
Top rollers		2 x 1

Travel System		
Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released.		
Travel speed low	km/h (mi/h)	2.6 (1.6)
Travel speed high	km/h (mi/h)	4.9 (3)
Max. drawbar pull	kN (lbf)	65 (14,613)
Gradeability	°	35

Service Refill		
Fuel tank	l (gal)	110 (29)
Hydraulic system, total	l (gal)	140 (37)
Hydraulic tank	l (gal)	84 (22)
Engine oil	l (gal)	10 (2.6)
Engine coolant	l (gal)	9.3 (2.5)
Travel reduction unit	l (gal)	2 x 1.6 (2 x 0.4)

Cab

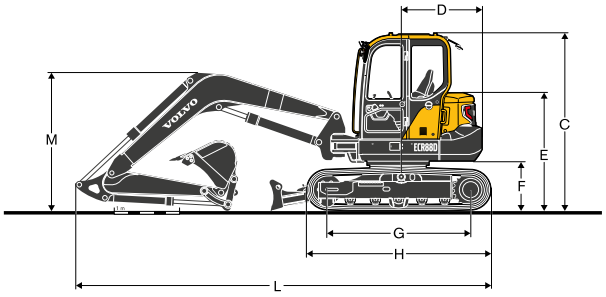
Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq

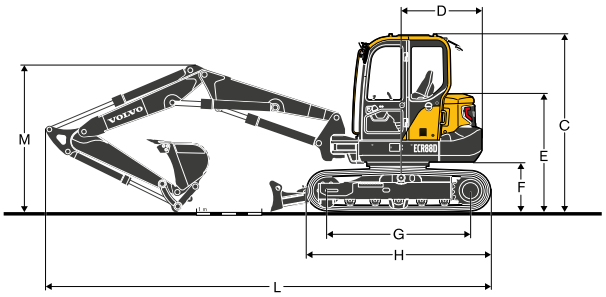
Sound Level		
Sound level in cab according to ISO 6396		
LpA	dB(A)	73
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
LwA	dB(A)	97

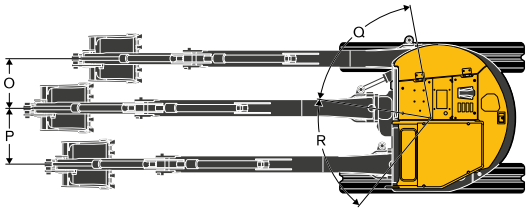
Buckets

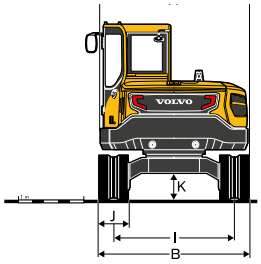
	Width		Weight		Capacity	
	mm	in	kg	lb	l	cu.in
Direct bucket	300	12	111	250	79	4,820
	450	18	139	310	143	8,730
	600	24	162	360	200	12,200
	750	30	182	400	266	16,230
	900	35	205	450	333	20,320
Quick coupler bucket	450	18	132	290	143	8,730
	600	24	156	340	200	12,200
	700	28	171	380	244	14,890
	850	33	191	420	310	18,920

Specifications







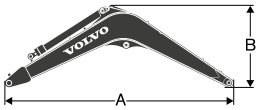


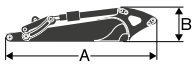
DIMENSIONS							
Machine							
Boom		**m**	**ft in**	**3.55**	**11'8"**	**3.55**	**11'8"**
Arm		**m**	**ft in**	**1.7**	**5'7"**	**2.1**	**6'11"**
A	Overall width of upper structure	mm	ft in	2210	7'3"	2210	7'3"
B	Overall width	mm	ft in	2300	7'7"	2300	7'7"
C	Overall height of cab	mm	ft in	2715	8'11"	2715	8'11"
D	Tail swing radius	mm	ft in	1290	4'3"	1290	4'3"
E	Overall height of engine hood	mm	ft in	1180	3'10"	1180	3'10"
F	Counterweight clearance *	mm	ft in	760	2'6"	760	2'6"
G	Tumbler length	mm	ft in	2200	7'3"	2200	7'3"
H	Track length	mm	ft in	2830	9'3"	2830	9'3"
I	Track gauge	mm	ft in	1850	6'1"	1850	6'1"
J	Shoe width	mm	ft in	450	1'6"	450	1'6"
K	Min. ground clearance *	mm	ft in	405	1'4"	405	1'4"
L	Overall length	mm	ft in	6370	20'11"	6420	21'1"
M	Overall heght of boom	mm	ft in	2115	6'11"	2230	7'4"
O	Boom swing distance	mm	ft in	760	2'6"	760	2'6"
P	Boom swing distance	mm	ft in	860	2'10"	860	2'10"
Q	Boom swing angle	°		70		70	
R	Boom swing angle	°		60		60	

* Without shoe grouser

Specifications

Boom and Arm



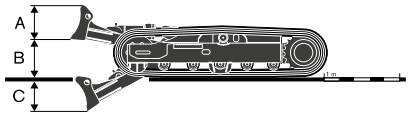


				Boom		Arm			
		m	**ft in**	**3.55**	**11'8"**	**1.7**	**5'7"**	**2.1**	**6'11"**
A	Length	mm	ft in	3690	12'1"	2283	7'6"	2684	8'10"
B	Heigth	mm	ft in	1244	4'1"	518	1'8"	562	1'10"
	Width	mm	ft in	335	1'1"	305	1'0"	305	1'0"
	Weight	kg	lb	530	1,170	280	620	340	750

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

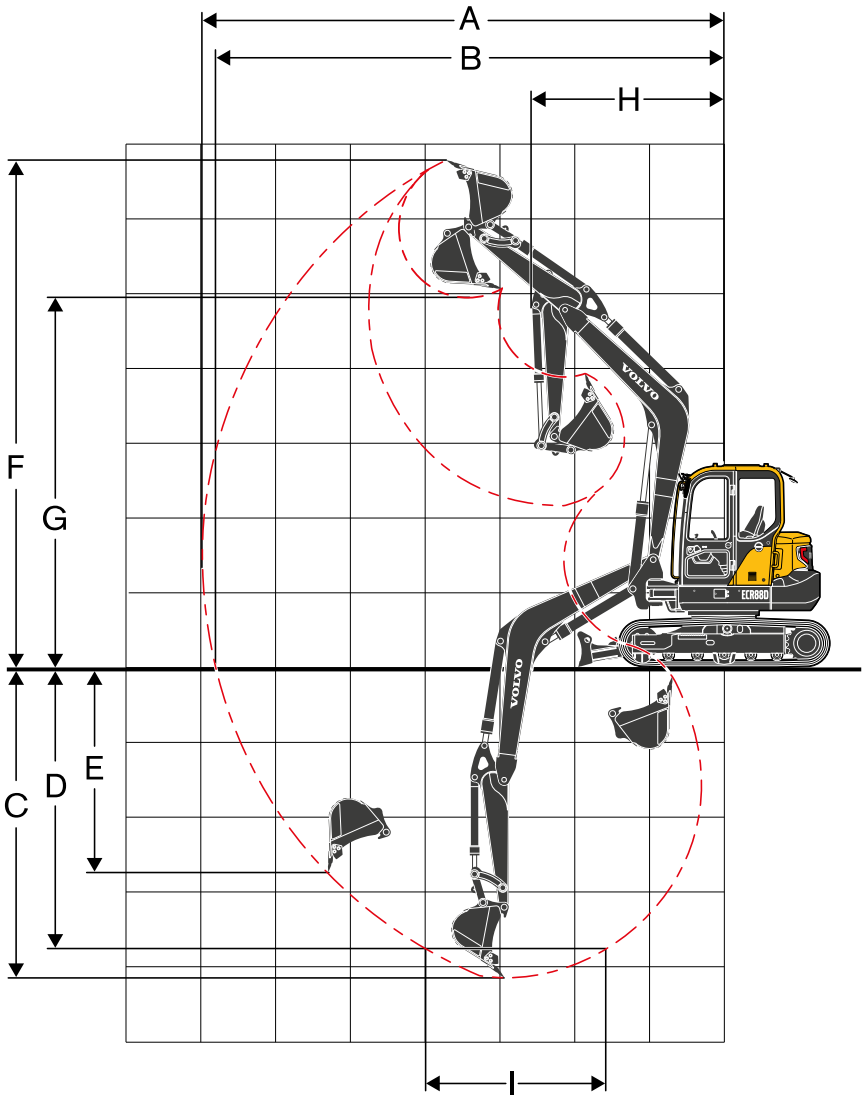
Dozer blade

A	Height	mm	ft in	470	1'7"
	Width	mm	ft in	2 300	7'7"
B	Lifting height	mm	ft in	518	1'8"
C	Digging depth	mm	ft in	433	1'5"



MACHINE WEIGHTS AND GROUND PRESSURE

	Shoe width		Operating weight		Ground pressure	
	mm	**in**	**kg**	**lb**	**kPa**	**psi**
Mono boom 3.55 m 11'8", Arm 1.7 m 5'7", Bucket 188 kg (266 l) 410 lb, Counterweight 1 480 kg 3 260 lb						
Steel track	450	18	9 010	19,860	40.5	5.9
	600	24	9 180	20,240	30.9	4.5
Rubber track	450	18	8 810	19,420	39.6	5.7
Rubber pad	450	18	9 030	19,910	40.4	5.9
Mono boom 3.55 m 11'8", Arm 2.1 m 6'11", Bucket 188 kg (266 l) 410 lb, Counterweight 1 480 kg 3 260 lb						
Steel track	450	18	9 090	20,040	40.9	5.9
	600	24	9 260	20,410	31.2	4.5
Rubber track	450	18	8 890	19,600	40.0	5.8
Rubber pad	450	18	9 110	20,080	40.8	5.9



WORKING RANGES							
Description		**Unit**					
Boom		**m**	**ft in**	**3.55**	**11'8"**	**3.55**	**11'8"**
Arm		**m**	**ft in**	**1.7**	**5'7"**	**2.1**	**6'11"**
A	Max. digging reach	mm	ft in	6 970	22'10"	7 350	24'1"
B	Max. digging reach on ground	mm	ft in	6 800	22'4"	7 180	23'7"
C	Max. digging depth	mm	ft in	4 130	13'7"	4 530	14'10"
D	Max.digging depth (I=2.44m / 8' level)	mm	ft in	3 750	12'4"	4 200	13'9"
E	Max. vertical wall digging depth	mm	ft in	2 820	9'3"	3 200	10'6"
F	Max. cutting height	mm	ft in	6 790	22'3"	7 050	23'2"
G	Max. dumping height	mm	ft in	4 960	16'3"	5 220	17'2"
H	Min. front swing radius	mm	ft in	2 560	8'5"	2 640	8'8"
Digging forces with direct fit bucket							
Breakout force (bucket)	SAE J1179	kN	lb	50.7	11,400	50.4	11,330
	ISO 6015	kN	lb	57.2	12,860	56.8	12,770
Tearout force (arm)	SAE J1179	kN	lb	38.9	8,740	33.8	7,600
	ISO 6015	kN	lb	39.8	8,950	34.4	7,730
Rotation angle, bucket		°		190		190	

Specifications

LIFTING CAPACITY ECR88D

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting point			1.0 m, 3.3 ft		2.0 m, 6.6 ft		3.0 m, 9.9 ft		4.0 m, 13.2 ft		5.0 m, 16.5 ft		6.0, 19.8 ft		Max. reach		
	m	ft		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
Boom 3.55m, 11'8" Arm 1.7m, 5'7" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade down	5.0		kg							*1 520	*1 520					*1 600	*1 600	4.6 m
		16.5	lb							*3,380	*3,380					*3,550	*3,550	14.9 ft
	4.0		kg							*1 580	*1 580	*1 540	1390			*1 560	1230	5.3 m
		13.2	lb							*3,470	*3,470	*3,400	3,050			*3,450	2,740	17.5 ft
	3.0		kg					*2 490	*2 490	*1 890	*1 890	*1 640	1360			*1 540	1060	5.8 m
		9.9	lb					*5,420	*5,420	*4,150	*4,150	*3,610	2,980			*3,400	2,340	19.0 ft
	2.0		kg					*3 700	2830	*2 330	1840	*1 830	1310	*1 590	980	*1 580	980	6.0 m
		6.6	lb					*8,040	6,200	*5,100	4,040	*4,010	2,870			*3,490	2,160	19.7 ft
	1.0		kg							*2 690	1750	*2 000	1260	*1 630	960	*1 620	950	6.0 m
		3.3	lb					*5,550	*5,550	*5,870	3,830	*4,380	2,770			*3,580	2,110	19.7 ft
	0.0		kg					*3 800	2640	*2 810	1700	*2 070	1230			*1 670	990	5.8 m
		0	lb					*8,570	5,760	*6,150	3,720	*4,540	2,700			*3,680	2,180	19.1 ft
	-1.0		kg			*3 560	*3 560	*3 840	2640	*2 690	1690	*1 970	1220			*1 700	1100	5.4 m
		-3.3	lb			*7,910	*7,910	*8,410	5,780	*5,890	3,690	*4,300	2,680			*3,760	2,430	17.7 ft
	-2.0		kg			*4 790	*4 790	*3 200	2690	*2 270	1710					*1 710	1370	4.7 m
		-6.6	lb			*10,470	*10,470	*6,990	5,870	*4,950	3,750					*3,760	3,030	15.4 ft
	-3.0		kg					*1 880	*1 880							*1 500	*1 500	3.4 m
		-9.9	lb					*4,040	*4,040							*3,290	*3,290	11.2 ft
Boom 3.55m, 11'8" Arm 1.7m, 5'7" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade up	5.0		kg							*1 520	*1 520					*1 600	1520	4.6 m
		16.5	lb							*3,380	*3,380					*3,550	3,400	14.9 ft
	4.0		kg							*1 580	*1 580	*1 540	1320			1470	1160	5.3 m
		13.2	lb							*3,470	*3,470	*3,400	2,880			3,270	2,580	17.5 ft
	3.0		kg					*2 490	*2 490	*1 890	1850	1630	1290			1270	1000	5.8 m
		9.9	lb					*5,420	*5,420	*4,150	4,040	3,560	2,820			2,820	2,210	19.0 ft
	2.0		kg					3440	2650	2210	1740	1580	1240	1180	920	1180	920	6.0 m
		6.6	lb					7,530	5,800	4,850	3,800	3,450	2,710			2,610	2,030	19.7 ft
	1.0		kg							2120	1640	1530	1190	1160	900	1160	900	6.0 m
		3.3	lb					*5,550	5,450	4,640	3,600	3,340	2,600			2,550	1,980	19.7 ft
	0.0		kg					3240	2460	2070	1590	1490	1160			1200	930	5.8 m
		0	lb					7,080	5,380	4,520	3,490	3,270	2,530			2,650	2,050	19.1 ft
	-1.0		kg			*3 560	*3 560	3250	2470	2050	1580	1480	1150			1330	1030	5.4 m
		-3.3	lb			*7,910	*7,910	7,100	5,400	4,490	3,460	3,250	2,510			2,940	2,280	17.7 ft
	-2.0		kg			*4 790	*4 790	*3 200	2510	2080	1610					1650	1280	4.7 m
		-6.6	lb			*10,470	*10,470	*6,990	5,490	4,550	3,520					3,660	2,850	15.4 ft
	-3.0		kg					*1 880	*1 880							*1 500	*1 500	3.4 m
		-9.9	lb					*4,040	*4,040							*3,290	*3,290	11.2 ft

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY ECR88D

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting point			1.0 m, 3.3 ft		2.0 m, 6.6 ft		3.0 m, 9.9 ft		4.0 m, 13.2 ft		5.0 m, 16.5 ft		6.0, 19.8 ft		Max. reach		
	m	ft		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
Boom 3.55m, 11'8" Arm 2.1m, 6'11" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade down	6.0		kg													*1 510	*1 510	4.0 m
		19.8	lb													*3,350	*3,350	12.8 ft
	5.0		kg									*1 380	*1 380			*1 320	*1 320	5.1 m
		16.5	lb									*3,080	3,060			*2,930	*2,930	16.6 ft
	4.0		kg									*1 340	*1 340			*1 230	1070	5.8 m
		13.2	lb									*2,960	*2,960			*2,710	2,380	18.9 ft
	3.0		kg							*1 650	*1 650	*1 470	1370	*1 390	990	*1 210	940	6.2 m
		9.9	lb							*3,610	*3,610	*3,230	2,990	*3,080	2,170	*2,660	2,070	20.3 ft
	2.0		kg					*3 160	2900	*2 100	1850	*1 680	1310	*1 470	970	*1 240	870	6.4 m
		6.6	lb					*6,870	6,350	*4,600	4,060	*3,690	2,860	*3,230	2,120	*2,730	1,920	20.9 ft
	1.0		kg					*3 630	2660	*2 520	1740	*1 890	1250	*1 560	940	*1 320	850	6.4 m
		3.3	lb					*8,300	5,830	*5,500	3,810	*4,130	2,730	*3,410	2,050	*2,920	1,870	21.0 ft
	0.0		kg					*3 940	2580	*2 730	1670	*2 010	1200	*1 590	920	*1 480	870	6.2 m
		0	lb					*8,870	5,640	*5,980	3,650	*4,410	2,630	*3,470	2,010	*3,270	1,920	20.4 ft
	-1.0		kg	*2 660	*2 660	*3 090	*3 090	*4 000	2570	*2 720	1640	*2 000	1180			*1 550	950	5.8 m
		-3.3	lb	*5,890	*5,890	*6,860	*6,860	*8,740	5,610	*5,950	3,590	*4,370	2,590			*3,420	2,100	19.1 ft
	-2.0		kg	*3 980	*3 980	*4 940	*4 940	*3 490	2600	*2 440	1650	*1 720	1200			*1 580	1140	5.2 m
		-6.6	lb	*8,830	*8,830	*11,000	*11,000	*7,630	5,680	*5,320	3,620	*3,740	2,630			*3,480	2,530	17.0 ft
	-3.0		kg			*3 870	*3 870	*2 510	*2 510	*1 650	*1 650					*1 530	*1 530	4.1 m
		-9.9	lb			*8,390	*8,390	*5,450	*5,450	*3,550	*3,550					*3,370	*3,370	13.5 ft
Boom 3.55m, 11'8" Arm 2.1m, 6'11" Shoe 450mm, 18" CWT 1 480kg / 3,260lb Dozer blade up	6.0		kg													*1 510	*1 510	4.0 m
		19.8	lb													*3,350	*3,350	12.8 ft
	5.0		kg									*1 380	1330			*1 320	1280	5.1 m
		16.5	kg									*3,080	2,890			*2,930	2,840	16.6 ft
	4.0		lb									*1 340	1330			*1 230	1010	5.8 m
		13.2	lb									*2,960	2,900			*2,710	2,250	18.9 ft
	3.0		kg							*1 650	*1 650	*1 470	1290	1200	930	1130	880	6.2 m
		9.9	lb							*3,610	*3,610	*3,230	2,820	2,620	2,040	2,510	1,950	20.3 ft
	2.0		kg					*3 160	2720	*2 100	1750	1570	1230	1170	910	1050	810	6.4 m
		6.6	lb					*6,870	5,950	*4,600	3,820	3,440	2,690	2,560	1,990	2,330	1,800	20.9 ft
	1.0		kg					3270	2480	2110	1630	1510	1170	1140	880	1030	790	6.4 m
		3.3	lb					7,150	5,440	4,610	3,580	3,300	2,570	2,500	1,930	2,280	1,750	21.0 ft
	0.0		kg					3180	2400	2030	1560	1460	1130	1120	860	1060	810	6.2 m
		0	lb					6,950	5,260	4,450	3,420	3,210	2,470	2,450	1,880	2,350	1,800	20.4 ft
	-1.0		kg	*2 660	*2 660	*3 090	*3 090	3170	2390	2010	1540	1440	1110			1160	890	5.8 m
		-3.3	lb	*5,890	*5,890	*6,860	*6,860	6,930	5,230	4,390	3,360	3,160	2,430			2,570	1,970	19.1 ft
	-2.0		kg	*3 980	*3 980	*4 940	*4 940	3200	2420	2020	1550	1460	1120			1390	1070	5.2 m
		-6.6	lb	*8,830	*8,830	*1,1000	*1,1000	7,000	5,300	4,420	3,390	3,200	2,460			3,070	2,370	17.0 ft
	-3.0		kg			*3 870	*3 870	*2 510	2500	*1 650	1610					*1 530	*1 530	4.1 m
		-9.9	lb			*8,390	*8,390	*5,450	*5,450	*3,550	3,530					*3,370	*3,370	13.5 ft

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Equipment

STANDARD EQUIPMENT
Engine
Low-emission Tier 4f / Stage IIIB diesel engine
Standard cooling system
Two-stage air filter
Fuel filter and water separator
Alternator, 70 A
Electric / Electronic control system
Safe engine start function
Automatic idling system
Halogen working lights:
Cab-mounted 2 (front)
Battery, 12 V / 100 Ah
Start motor, 12 V / 2.5 kW
Travel alarm
Monitor and keypad
Master electrical disconnect switch
Frame
1 480kg (3,260lb) counterweight
Under cover
Dozer blade
Undercarriage
Greased and sealed track link
450mm rubber track
Hydraulic system
Automatic two speed travel motors
Cylinder cushioning
Hydraulic fluid mineral 46
Pilot control pattern change
Cab and interior
Canopy
PVC operator seat with suspension
Seat belt, 2 inch retractable
Control joystick
Master key
Hour meter (non analog)
Digging Equipment
Boom: 3.55m (11'8"), Arm: 1.7m (5'7")
Linkage
Service
Tool kit-daily maintenance
Official approval
Object handling device conforming to ISO20474-1 and ISO20474-5 standards (when equipped)
FOPS Level 2 conforming to ISO3449 standard (when equipped)
ROPS conforming to ISO12117-2 standards
TOPS conforming to ISO12117 and EN13531 standards
FOG Level 2 conforming to ISO10262 standard and SAE J1356 standard (when equipped)

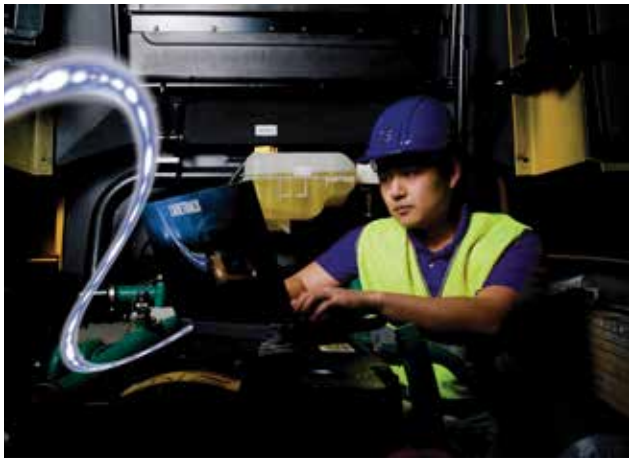
OPTIONAL EQUIPMENT
Electric / Electronic control system
Fuel filler pump: 35 l/min, with automatic shut-off
Extra working lights:
Cab-mounted 1 (rear), Boom-mounted 1
Caretrack
Travel alarm
Anti theft, code-lock
Rotating warning beacon
Undercarriage / Superstructure
450mm (18"), 600mm (24") steel track
450mm (18") rubber pad
Heavy counterweight
Frame
Rearview mirror
Dozer blade with floating function
Hydraulic system
Hydraulic piping:
Breaker & shear (max. flow and pressure: 90lpm/24gpm, 32.4Mpa/4690psi)
Slope & rotator (max. flow and pressure: 35lpm/9gpm, 14.7Mpa/2130psi)
Grapple
Quick coupler
Hose rupture valve for boom and arm
Overload warning device
Hydraulic oil, ISO VG 32, 68
Hydraulic oil, biodegradable 46
Hydraulic oil, longlife oil 46
Cab and interior
Cab
Carecab
Fabric operator seat with suspension
Heater and air-conditioner
Control joystick, X3 proportional
Seat belt, 3 inch retractable
AM/FM stereo
AM/FM stereo with CD player and USB input
Mechanical hour meter
Cab mounted FOG (Falling Object Guard)
FOPS (Falling Object Protection Structure)
Sun screen, front/roof
Safety net
Digging Equipment
Arm: 2.1m (6'11")
Service
Tool kit, full scale
Spare parts

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Slope and rotator piping

Dozer float

Caretrack



Fuel filler pump

Mechanical hour meter

Anti-theft

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.

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