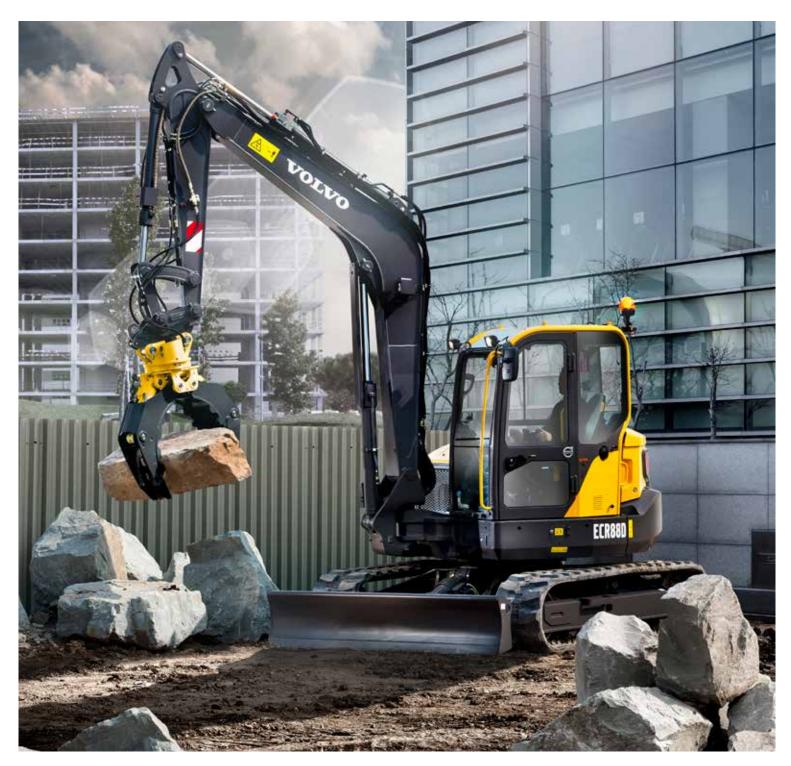
**Volvo Construction Equipment** 





Volvo Excavators 8.6-9.5 t 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 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



















UD Trucks

Volvo Buses







Volvo Penta

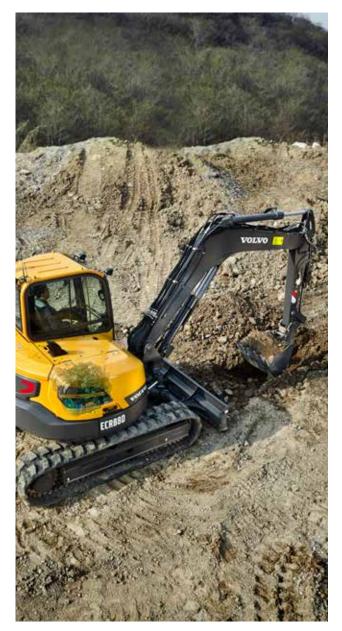
Volvo Financial Services

# 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 ECR 88d

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

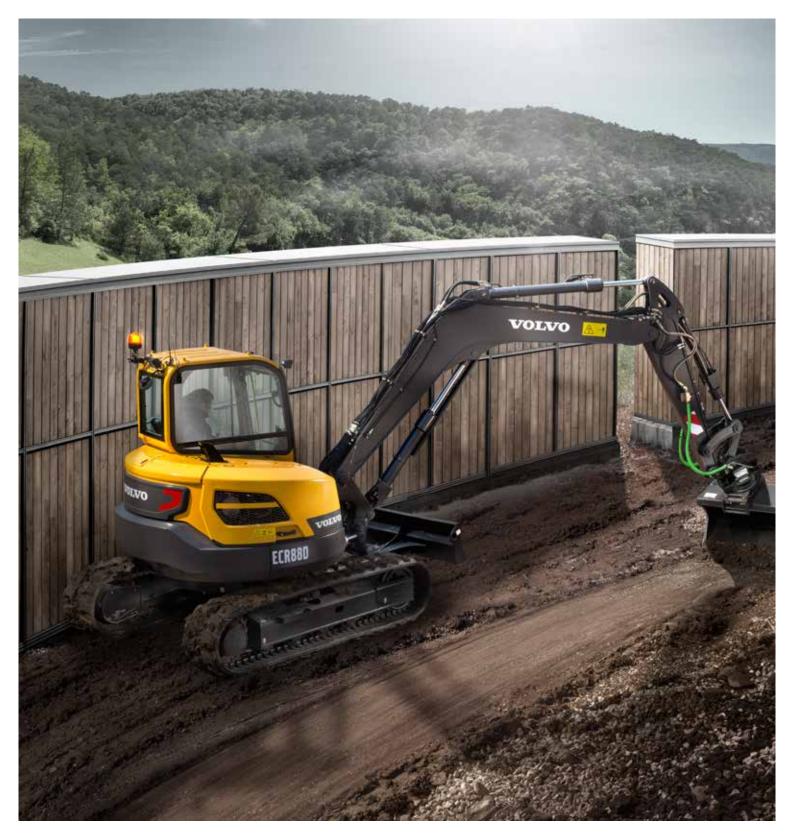
Slew and boom offset movements are controlled simultaneously for easy and fast positioning of the machine. Joystick control enables precise, smooth and effortless command of the slew and boom offset.



#### **Tractive force**

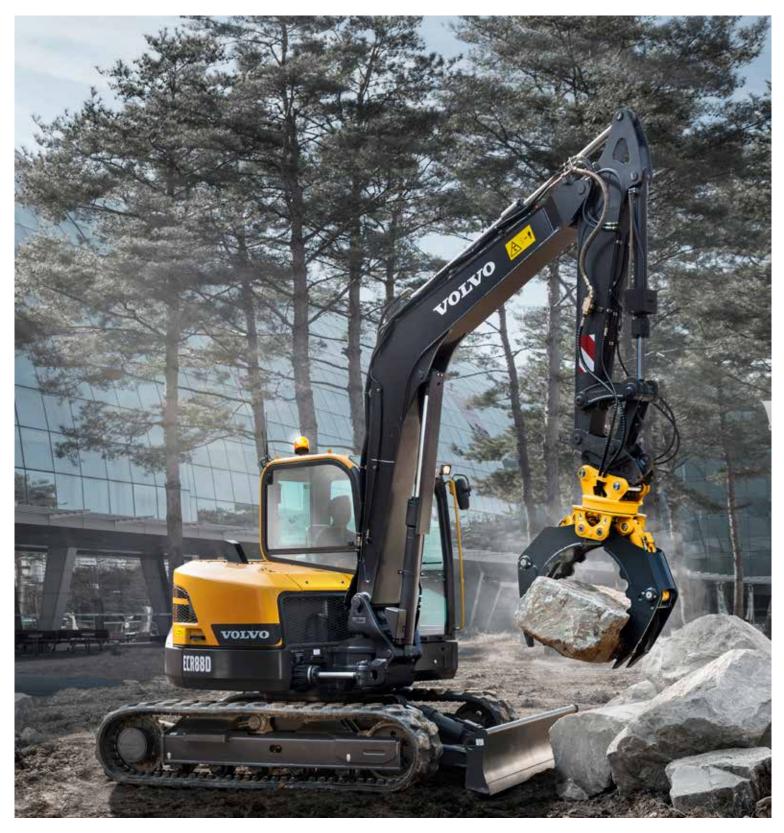
High system pressure delivers impressive tractive force when climbing gradients or traveling over rough terrain. For improved performance, the ECR88D boasts a 16% improvement in tractive force compared to the previous model.





# 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.





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

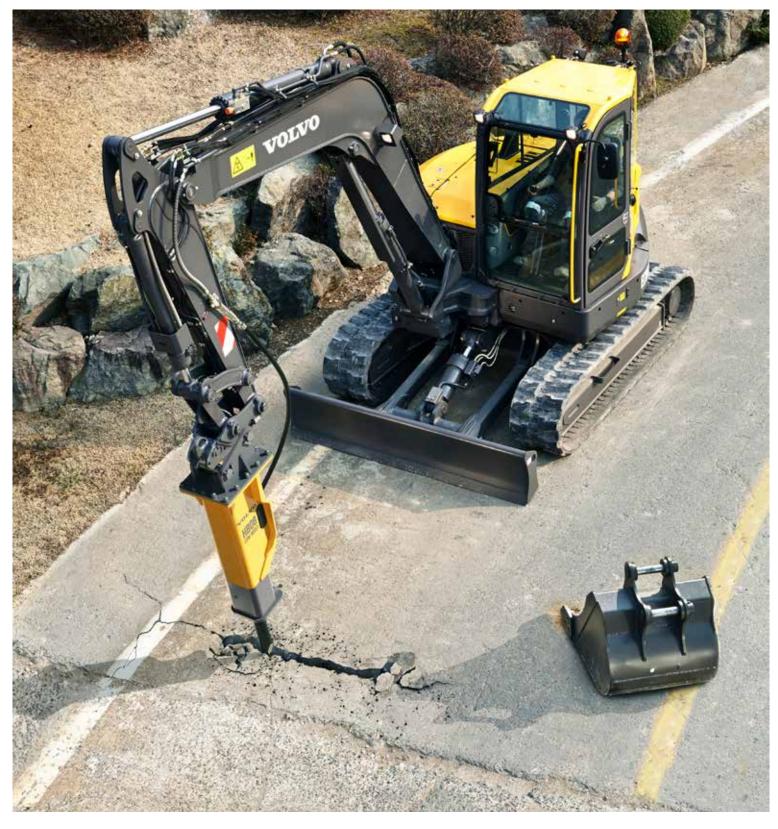
The Volvo cab features ample storage locations for personal belongings including an additional glove-box, side pocket, phone storage, cup holder and a pocket behind the seat.





# 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.





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 guick coupler



#### **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.



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



materials.

Intended for use in extremely compact cleaning and

backfilling.



Spade nose Designed for finishing work such as leveling, grading,



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.

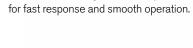
# Built to get the job done

#### 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.



# VOLVO

## MATRIS and VCADS Pro

**Optional hydraulics** 

attachments.

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

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.



#### Durable and strong X-shape undercarriage ensures superior stability and increases Single pivot pin machine lifetime.

#### 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

# 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

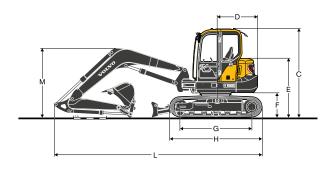
The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of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

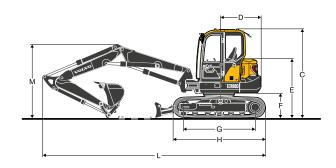
# Volvo ECR88D in detail

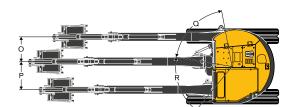
Engine		
The new Tier 4f/Stage IIIB compliant diesel en turbocharged and water cooled.	gine is equipped with	n in-line,
Model	Volvo	D2.6H
Max. power at	r/min	2 000
Net (ISO 9249/SAEJ1349)	kW	41
	hp	56
Gross (SAE J1995)	kW	43
	hp	58
Max. torque	Nm	220
at engine speed	r/min	1 300
No. of cylinders		4
Displacement	1	2.62
Bore	mm	87
Stroke	mm	110
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 w	vith load independen	t functions.
Main pump: Variable-displacement pump		
Maximum flow	l/min	1 x 169
Pilot pump: Gear pump		
Maximum flow	l/min	1 x 14
Relief valve setting pressure		
Implement	MPa	29.4
Travel circuit	MPa	29.4
Swing circuit	MPa	24.5
Pilot circuit	MPa	3.4
Swing system		
Direct drive swing with radial piston motor-mair holding brake anti-rebound valve.	ntenance free and au	tomatic
Max. swing speed	r/min	9.3
Max. swing torque	kNm	22.9

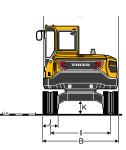
Undercarriage											
Robust X-shaped frame with sealed	and greased	track chains.									
Track shoes	0		2 x 39								
Link pitch	154										
Shoe width - steel	450 / 600										
Shoe width - steel mm 450 Shoe width - rubber mm											
Bottom rollers		2 x 5									
Top rollers 2											
Travel System											
Each track is powered by an automa brakes are multi-disc, spring-applied			or. The track								
Travel speed low		km/h	2.6								
Travel speed high		km/h	4.9								
Max. drawbar pull		kN	65								
Gradeability		٥	35								
Service Refill											
Fuel tank		I	110								
Hydraulic system, total		1	140								
Hydraulic tank		I	84								
Engine oil		1	10								
Engine coolant		I	9.3								
Travel reduction unit		I	2 x 1.6								
Cab											
Refrigerant of the type R134a is us conditioning. Contains fluorinated of Potential 1.430 t CO2-eq											
Sound Level											
Sound level in cab according to ISC	D 6396										
LpA		dB(A)	73								
External sound level according to IS 2000/14/EC	SO 6395 and	EU Noise Direc	ctive								
LwA		dB(A)	97								
Buckets											
	Width	Weight	Capacity								
	mm	kg	<u> </u>								
	300	111	79								
	450	139	143								
Direct bucket	600	162	200								
	750	182	266								
900 205 33											
		100	143								
	450	132	143								
Quick coupler bucket	450 600	132	143 200								
Quick coupler bucket		-									
Quick coupler bucket	600	156	200								

# **Specifications**









#### DIMENSIONS

lachine	ECR88D							
oom	m	3.55	i (mono)	3.85 (2pcs)				
rm	m	1.7	2.1	1.7	2.1			
A Overall width of upper structure	mm	2 210	2 210	2 213	2 213			
3 Overall width	mm	2 300	2 300	2 300	2 300			
C Overall height of cab	mm	2 715	2 715	2 715	2 715			
D Tail swing radius	mm	1 290	1 290	1 320	1 320			
Overall height of engine hood	mm	1 180	1 180	1 180	1 180			
Counterweight clearance *	mm	760	760	760	760			
G Tumbler length	mm	2 200	2 200	2 200	2 200			
H Track length	mm	2 830	2 830	2 830	2 830			
Track gauge	mm	1 850	1 850	1 850	1 850			
Shoe width	mm	450	450	450	450			
Min. ground clearance *	mm	405	405	405	405			
Overall length	mm	6 370	6 420	6 810	6 860			
A Overall heght of boom	mm	2 1 1 5	2 230	2 247	2 455			
D Boom swing distance	mm	760	760	756	756			
Boom swing distance	mm	860	860	863	863			
D Boom swing angle	0		70	7	0			
R Boom swing angle	o		60	6	60			

\* Without shoe grouser

# **Specifications**





Boo	m and Arm					
			Bo	om	A	rm
			3.55 m (mono)	3.85 m (2pcs)	1.7 m	2.1 m
Α	Length	mm	3 690	4 030	2 283	2 684
В	Heigth	mm	1 244	983	518	562
	Width	mm	335	340	305	305
	Weight	kg	530	774	280	340

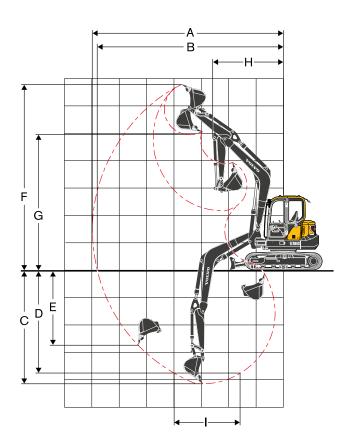
Boom: Includes cylinder, piping and pin, excludes boom cyl. Pin.

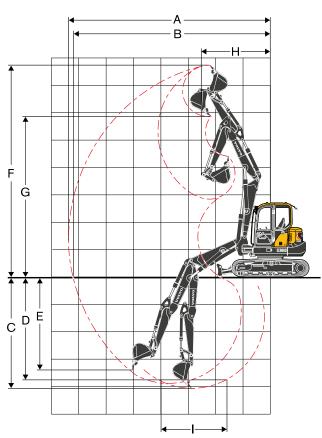
MACHINE WEIGHTS AND GROUND PRESSURE

Arm: Includes cylinder, linkage and pin.

Doz	Dozer blade											
А	Height	mm	470									
	Width	mm	2 300									
В	Lifting height	mm	518									
С	Digging depth	mm	433									

	Shoe width	Operating weight	Ground pressure		
	mm	kg	kPa		
Mono boom 3.55 m, Arm 1.7 m, Buc	ket 188 kg (266 l), Counterweight 1 4	80 kg			
Steel track	450	9 010	40.5		
	600	9 180	30.9		
Rubber track	450	8 810	39.6		
Rubber pad	450	9 030	40.4		
Mono boom 3.55 m, Arm 2.1 m, Buck	ket 188 kg (266 l), Counterweight 1 48	30 kg			
Steel track	450	9 090	40.9		
	600	9 260	31.2		
Rubber track	450	8 890	40.0		
Rubber pad	450	9 1 1 0	40.8		
2pcs boom 3.85 m, Arm 1.7 m, Buck	et 188 kg (266 l), Counterweight 1 69	00 kg			
Steel track	450	9 380	42.2		
	600	9 550	32.2		
Rubber track	450	9 180	41.3		
Rubber pad	450	9 400	42.1		
2pcs boom 3.85 m, Arm 2.1 m, Buck	et 188 kg (266 l), Counterweight 1 69	0 kg			
Steel track	450	9 460	42.5		
	600	9 630	32.5		
Rubber track	450	9 260	41.6		
Rubber pad	450	9 480	42.5		





wo	NORKING RANGES										
Des	cription		Unit								
Boo	m		m	3.55	(mono)	3.85 (2pcs)					
Arm				1.7	2.1	1.7	2.1				
А	Max. digging reach		mm	6 970	7 350	7 380	7 790				
В	Max. digging reach on ground		mm	6 800	7 180	7 220	7 640				
С	Max. digging depth		mm	4 130	4 530	4 090	4 480				
D	Max.digging depth (I=2 440mm le	evel)	mm	3 750	4 200	3 790	4 220				
Е	Max. vertical wall digging depth		mm	2 820	3 200	3 430	3 870				
F	Max. cutting height		mm	6 790	7 050	7 720	8 240				
G	Max. dumping height		mm	4 960	5 220	5 840	6 380				
Н	Min. front swing radius		mm	2 560	2 640	2 530	2 700				
Dig	ging forces with direct fit bucke	t									
Bro	akout foroa (buckat)	SAE J1179	kN	50.7	50.4	50.7	50.4				
Breakout force (bucket)		ISO 6015	kN	57.2	56.8	57.2	56.8				
таа	rout force (arm)	SAE J1179	kN	38.9	33.8	38.9	33.8				
Tearout force (arm) ISO 6015			kN	39.8	34.4	39.8	34.4				
Rot	ation angle, bucket		0	1	90	19	90				

## **Specifications**

#### LIFTING CAPACITY ECR88D

Lifting capacity at the arm end without bucket.

For lifting capacity including		1	actual wei ) m	č	e direct fit	3.0 m			4.0 m 5.0 m			6.0 m		N	/ax. reach	
	Lifting point	Along	Across	Along	Across	Along		Along	Across	Along	Across		Across	Along	Across	mm
Boom 3.55m	5.0 m kg			0				*1 520	*1 520	0		0		*1 600	*1 600	4 585
Arm 1.7m	4.0 m kg							*1 580	*1 580	*1 540	1 390			*1 560	1 230	5 345
Shoe 450mm	3.0 m kg					*2 490	*2 490	*1 890	*1 890	*1 640	1 360			*1 540	1 060	5 789
CWT 1 480kg	2.0 m kg					*3 700	2 830	*2 330	1 840	*1 830	1 310		980	*1 580	980	6 003
Dozer blade down	1.0 m kg							*2 690	1 750	*2 000	1 260	*1 630	960	*1 620	950	6 0 1 4
	0.0 m kg			*0 500	+0 500	*3 800	2 640	*2 810	1 700	*2 070	1 230			*1 670	990	5 825
	-1.0 m kg -2.0 m kg				*3 560 *4 790	*3 840 *3 200	2 640 2 690	*2 690 *2 270	1 690 1 710	*1 970	1 220			*1 700 *1 710	1 100 1 370	5 410 4 695
	-2.0 m kg -3.0 m kg			4790	4790	*1 880	*1 880	2 210	1710					*1 500		3 433
Boom 3.55m	5.0 m kg					1 000	1 000	*1 520	*1 520					*1 600	1 520	4 850
Arm 1.7m	4.0 m kg							*1 580	*1 580	*1 540	1 320			1 470	1 160	5 345
Shoe 450mm	3.0 m kg					*2 490	*2 490	*1 890	1 850	1 630	1 290			1 270	1 000	5 789
CWT 1 480kg	2.0 m kg					3 4 4 0	2 650	2 2 1 0	1 740	1 580	1 240	1 180	920	1 180	920	6 003
Dozer blade up	1.0 m kg							2 1 2 0	1 640	1 530	1 190	1 160	900	1 160	900	6014
	0.0 m kg					3 240	2 460	2 070	1 590	1 490	1 1 60			1 200	930	5 825
	-1.0 m kg	*2 460	*2 460	*3 560	*3 560	3 250	2 470	2 050	1 580	1 480	1 150			1 330	1 030	5 410
	-2.0 m kg			*4 790	*4 790	*3 200	2 510	2 080	1 610					1 650	1 280	4 695
	-3.0 m kg					*1 880	*1 880							*1 500		3 433
Boom 3.55m	6.0 m kg									14.005	** 0.51			*1 510		3 965
Arm 2.1m	5.0 m kg									*1 380	*1 380			*1 320	*1 320	5 095
Shoe 450mm	4.0 m kg							*1 650	*1 650	*1 340	*1 340	*1 000	000	*1 230	1 070	5 776
CWT 1 480kg Dozer blade down	3.0 m kg 2.0 m kg					*3 160	2 900	*1 650 *2 100	*1 650 1 850	*1 470 *1 680	1 370 1 310	*1 390	990 970		940 870	6 184 6 382
Dozer blade down	Ū					*3 630	2 900	*2 520	1 740	*1 890	1 250	*1 560	970	*1 320	870	6 393
	1.0 m kg 0.0 m kg					*3 940	2 580	*2 730	1 670	*2 010	1 200	*1 590	940		870	6 217
	-1.0 m kg		*2 660	*3 090	*3 090	*4 000	2 570	*2 720	1 640	*2 000	1 180	1 0 90	920	*1 550	950	5 835
	-2.0 m kg		*3 980			*3 490	2 600	*2 440	1 650	*1 720	1 200			*1 580	1 1 4 0	5 192
	-3.0 m kg		0000		*3 870	*2 510		*1 650			. 200			*1 530		4 1 3 3
Boom 3.55m	6.0 m kg													*1 510		3 965
Arm 2.1m	5.0 m kg									*1 380	1 330			*1 320	1 280	5 095
Shoe 450mm	4.0 m kg									*1 340	1 330			*1 230	1 010	5 776
CWT 1 480kg	3.0 m kg							*1 650	*1 650	*1 470	1 290	1 200	930	1 130	880	6 184
Dozer blade up	2.0 m kg					*3 160	2 720	*2 100	1 750	1 570	1 230	1 1 7 0	910	1 050	810	6 382
	1.0 m kg					3 270	2 480	2 1 1 0	1 630	1 510	1 170	1 140	880	1 030	790	6 393
	0.0 m kg					3 180	2 400	2 030	1 560	1 460	1 1 3 0	1 120	860	1 060	810	6 2 1 7
	-1.0 m kg		*2 660			3 170	2 390	2 010	1 540	1 440	1 1 1 0		_	1 160	890	5 835
	-2.0 m kg		*3 980			3 200	2 420	2 0 2 0	1 550	1 460	1 120			1 390	1 070	5 192
	-3.0 m kg			*3870	*3 870	*2 510	2 500	*1 650	1 610					*1 530	*1 530	4 133
Boom 3.55m	5.0 m kg							*1 520	*1 520	*1 540	1 470			*1 600		4 585
Arm 1.7m CWT 1 690kg	4.0 m kg 3.0 m kg					*2 490	*2 490	*1 580	*1 580 *1 890	*1 540	1 470 1 440			*1 560	1 310 1 130	5 345 5 789
Dozer blade down	3.0 m kg 2.0 m kg					*3 700	2 490	*2 330	1 950	*1 830	1 390	*1 590	1 040	*1 580	1 040	6 003
Bozer blade down	1.0 m kg					0 / 00	2 000	*2 690	1 860	*2 000	1 340	*1 630	1 020	*1 620	1 020	6 014
	0.0 m kg					*3 800	2 800		1 810			1 000	1 020	*1 670		5 825
	-1.0 m kg			*3 560	*3 560			*2 690			1 300			*1 700		5 410
	-2.0 m kg				*4 790		2 850							*1 710		4 695
	-3.0 m kg					*1 880	*1 880							*1 500	*1 500	3 433
Boom 3.55m	5.0 m kg							*1 520	*1 520					*1 600	*1 600	4 585
Arm 1.7m	4.0 m kg							*1 580	*1 580	*1 540	1 390			1 550	1 240	5 345
CWT 1 690kg	3.0 m kg					*2 490			*1 890		1 360			1 340	1 060	5 789
Dozer blade up	2.0 m kg					3 620	2 800	2 330			1 310	1 250	980	1 250	980	6 003
	1.0 m kg							2 230		1 610	1 270	1 230	960	1 220	960	6014
	0.0 m kg					3 410	2 610	2 180			1 230			1 270	990	5 825
	-1.0 m kg				*3 560	3 420	2 620	2 170		1 570	1 230			1 410		5 410
	-2.0 m kg			*4 790	*4 790		2 660	2 190	1 710					*1 710		4 695
Doom 055-	-3.0 m kg					1 880	*1 880								*1 500	3 433
Boom 3.55m	6.0 m kg									*1 000	*1 200					3 965
Arm 2.1m CWT 1.690kg	5.0 m kg									*1 340	*1 380 *1 340			*1 230	*1 320	5 095 5 776
Dozer blade down	4.0 m kg 3.0 m kg							*1 650	*1 650			*1 390	1 060		1 000	6 184
	2.0 m kg					*3 160	3 060				1 390	*1 470	1 030		930	6 382
	1.0 m kg					*3 630	2 820				1 330		1 000		900	6 393
	0.0 m kg					*3 940		*2 730				*1 590		*1 480	930	6 217
	-1.0 m kg		*2 660	*3 090	*3 090			*2 720		*2 000	1 260		000	*1 550		5 835
	Ŭ	*3 980						*2 440		*1 720	1 280			*1 580	1 220	5 192
	-3.0 m kg					*2 510									*1 530	4 133

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 value

		Lifting	1.0	0 m	2.0	) m	3.0	) m	4.0	) m	5.0	) m	6.0	) m	Ν	/lax. reach	1
		Lifting point	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	mm
Boom	3.55m	6.0 m kg				Ì									*1 510	*1 510	3 96
Arm	2.1m	5.0 m kg									*1 380	*1 380			*1 320	*1 320	5 09
CWT	1 690kg	4.0 m kg									*1 340	*1 340			*1 230	1 080	57
Dozer bla	de up	3.0 m kg							*1 650	*1 650	*1 470	1 370	1 260	1 000	1 200	940	618
		2.0 m kg					*3 160	2 870	*2 100	1 850	1 660	1 310	1 240	970	1 120	870	6 38
		1.0 m kg					3 4 4 0	2 640	2 220	1 740	1 590	1 250	1 210	940	1 090	850	6 39
		0.0 m kg					3 360	2 560	2 1 5 0	1 670	1 550	1 210	1 190	920	1 1 3 0	870	62
		-1.0 m kg	*2 660	*2 660	*3 090	*3 090	3 350	2 550	2 120	1 640	1 530	1 190			1 230	960	58
		-2.0 m kg	*3 980	*3 980	*4 940	*4 940	3 380	2 580	2 130	1 650	1 540	1 200			1 470	1 140	5 19
		-3.0 m kg			*3 870	*3 870	*2 510	*2 510	*1 650	*1 650					*1 530	*1 530	4 13
Boom	3.85m 2piece	6.0 m kg							*2 060	*2 060					*2 060	2 060	4 0
Arm	1.7m	5.0 m kg							*1 870	*1 870	*1 710	1 430			*1 690	1 350	514
Shoe	450mm	4.0 m kg					*2 530	*2 530	*1 990	*1 990	*1 700	1 430			*1 540	1 070	58
CWT	1 690kg	3.0 m kg							*2 270	1 970	*1 800	1 380	*1 530	1 000	*1 480	930	6 2
Dozer bla	ide down	2.0 m kg							*2 570	1 830	*1 920	1 310	*1 550	980	*1 420	870	64
		1.0 m kg							*2 690	1 710	*1 980	1 240	*1 540	940	*1 360	850	64
		0.0 m kg							*2 570	1 660	*1 920	1 210	*1 440	920	*1 280	870	6 2
		-1.0 m kg					*2 810	2 610	*2 240	1 650	*1 690	1 190			*1 170	960	58
		-2.0 m kg					*2 050	*2 050	*1 680	*1 680	*1 160	*1 160			*950	*950	5 2
Boom	3.85m 2piece	6.0 m kg							*2 060	*2 060					*2 060	*2 060	4 0
Arm	1.7m	5.0 m kg							*1 870	*1 870	1 710	1 460			1 610	1 380	51
Shoe	450mm	4.0 m kg					*2 530	*2 530	*1 990	*1 990	*1 700	1 460			1 290	1 100	58
CWT	1 690kg	3.0 m kg							*2 270	2 0 1 0	1 650	1 410	1 210	1 030	1 1 3 0	950	6 2
Dozer bla	ide up	2.0 m kg							2 210	1 860	1 580	1 340	1 180	1 000	1 060	880	64
		1.0 m kg							2 090	1 750	1 510	1 270	1 1 50	970	1 040	860	6 4
		0.0 m kg							2 040	1 700	1 470	1 230	1 1 3 0	950	1 070	890	62
		-1.0 m kg					*2 810	2 680	2 0 3 0	1 690	1 460	1 220			*1 170	980	58
		-2.0 m kg	1				*2 050	*2 050	*1 680	*1 680	*1 160	*1 160			*950	*950	5 2
Boom	3.85m 2piece	7.0 m kg	I												*2 370	*2 370	29
Arm	2.1m	6.0 m kg							*1 750	*1 750					*1 540	*1 540	46
Shoe	450mm	5.0 m kg							*1 670	*1 670	*1 530	1 470			*1 300	1 1 50	56
CWT	1 690kg	4.0 m kg							*1 800	*1 800	*1 560	1 450	*1 410	1 030	*1 200	940	6 2
Dozer bla	de down	3.0 m kg					*2 900	*2 900	*2 080	2 010	*1 680	1 390	*1 440	1 010	*1 170	820	6 6
		2.0 m kg							*2 410	1 840	*1 820	1 310	*1 490	970	*1 170	770	6 8
		1.0 m kg							*2 620	1 700	*1 920	1 230	*1 510	930	*1 220	750	68
		0.0 m kg					*2 150	*2 150	*2 590	1 630	*1 910	1 180	*1 470	900	*1 170	770	66
		-1.0 m kg			*2 060	*2 060	*3 160	2 520	*2 350	1 600	*1 760	1 1 50	*1 280	890	*1 080	830	6 30
		-2.0 m kg			*2 970	*2 970	*2 450	*2 450	*1 890	1 620	*1 390	1 160			*930	*930	5 72
		-3.0 m kg					*1 400	*1 400	*1 090	*1 090					*590	*590	48
Boom	3.85m 2piece	7.0 m kg													*2 370	*2 370	29
Arm	2.1m	6.0 m kg							*1 750	*1 750					*1 540	*1 540	4 6
Shoe	450mm	5.0 m kg							*1 670	*1 670	*1 530	1 490			*1 300	1 1 7 0	5.64
CWT	1 690kg	4.0 m kg							*1 800	*1 800	*1 560	1 470	1 240	1 050	1 140	960	62
Dozer bla	0	3.0 m kg					*2 900	*2 900	*2 080	2 050	1 660	1 410	1 220	1 030	1 010	840	6 6
		2.0 m kg							2 230	1 880	1 580	1 330	1 180	990	940	780	6 8
		1.0 m kg							2 080	1 740	1 500	1 260	1 140	950	920	770	68
		0.0 m kg					*2 150	*2 150	2 000	1 670	1 450	1 200	1 110	920	950	780	66
		-1.0 m kg			*2 060	*2 060	3 1 4 0	2 590	1 980	1 640	1 420	1 180	1 100	910	1 030	850	63
		-2.0 m kg				*2 970	*2 450	*2 450	*1 890	1 660	*1 390	1 190	1100	310	*930	*930	5 7
		-2.0 m kg			2 970	2 910	*1 400	*1 400	*1 090		1 390	1190			*590	*590	48
otes:	1. The above loads a			E 11007 -		050711					d a cod a				030	030	+ 0

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	OPTIONAL EQUIPMENT
Engine	Electric / Electronic control system
Low-emission Tier 4f / Stage IIIB compliant diesel engine	Fuel filler pump: 35 l/min, with automatic shut-off
Standard cooling system	Extra working lights:
Two-stage air filter	Cab-mounted 1 (rear)
Fuel filter and water separator	2 piece boom
Alternator, 70 A	Caretrack
Electric / Electronic control system	Travel alarm
Safe engine start function	Anti theft, code-lock
Automatic idling system	Rotating warning beacon
Halogen working lights:	Undercarriage / Superstructure
Cab-mounted 2 (front), Boom-mounted 1	450mm, 600mm steel track
Battery, 12 V / 100 Ah	450mm rubber pad
Start motor, 12 V / 2.5 kW	Heavy counterweight
Monitor and keypad	Frame
Master electrical disconnect switch	Rearview mirror
Frame	Dozer blade with floating function
1 480kg counterweight	Hydraulic system
Under cover	Hydraulic piping:
Dozer blade	Breaker & shear (max. flow and pressure: 90lpm, 32.4Mpa)
Undercarriage	Slope & rotator (max. flow and pressure: 35lpm, 14.7Mpa)
Greased and sealed track link	Grapple
450mm rubber track	Quick coupler
Hydraulic system	Pilot control pattern change
Automatic two speed travel motors	Hose rupture valve for boom and arm
Cylinder cushioning	Overload warning device
Hydraulic fluid mineral 46	Hydraulic oil, ISO VG 32, 68
Cab and interior	Hydraulic oil, biodegradable 46
Cab, includes:	Hydraulic oil, longlife oil 46
Glasses	Arm cyl Pipe with HRV 2 piece boom
Cup holders	Cab and interior
Large storage area	Carecab
Door locks	Canopy
Floor mat	Fabric operator seat with suspension with heater
Horn	PVC operator seat with suspension
2 inch Seat belt	Control joystick, X3 proportional
Heater and air-conditioner	Seat belt, 3 inch retractable
Fabric operator seat with suspension without heater	AM/FM stereo with CD player and USB input
Control joystick	Mechanical hour meter
Travel pedals and hand levers	Cab mounted FOG (Falling Object Guard)
AM/FM stereo	FOPS (Falling Object Protection Structure)
Master key	Sun screen, front/roof
	Safety net
	Digging Equipment
	2pcs boom: 3.85m

Arm: 2.1m Service Tool kit, full scale

Spare parts

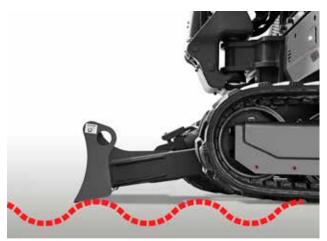
#### SELECTION OF VOLVO OPTIONAL EQUIPMENT

#### Slope and rotator piping



Dozer float

Fuel filler pump



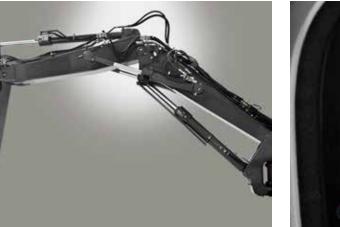
Caretrack



Two-piece boom (ECR88D)



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.



Volvo Construction Equipment