**VOLVO EXCAVATORS** 

# ECR58D, ECR88D 5.7-9.5 t (12,550 - 20,950 lbs) 49-58 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.

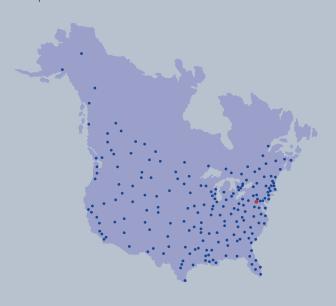
#### We have a passion for performance.

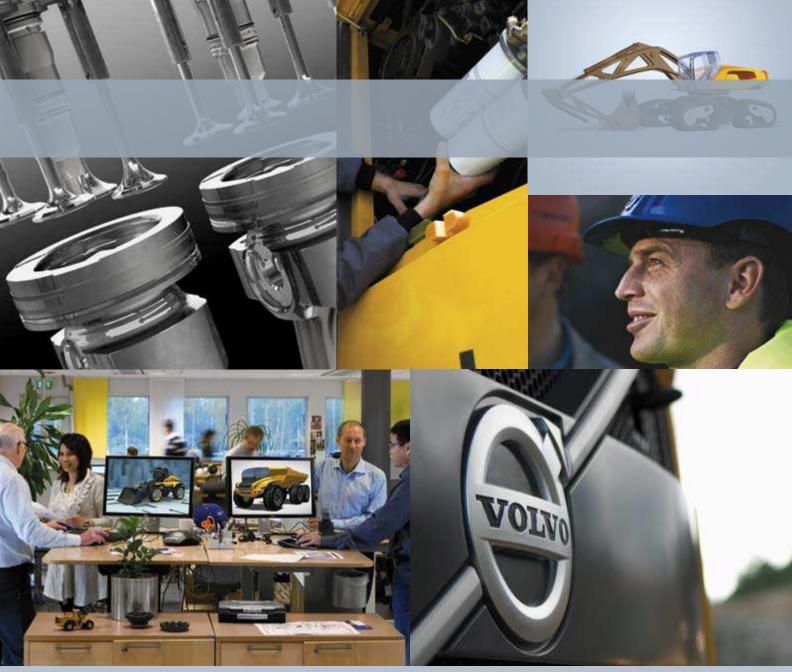
#### A strong, dedicated, capable dealer network.

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 and product support training at our state-of-the-art Technical Training Center in Asheville and through hands-on training. At our nearby 80-acre Product Demonstration Center, visitors operate equipment from our entire product line under a variety of simulated working conditions. Both facilities are in year-round use by our dealers and customers – more than 2,000 visit each year. **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 Construction Equipment



Volvo Penta



Volvo Trucks



Renault Trucks



UD Trucks



Volvo Buses



Volvo Financial Services



Volvo proudly introduces the new ECR58D and ECR88D compact short swing radius excavators. Featuring a powerful Volvo engine and perfectly matched hydraulic system, each machine delivers high performance, excellent control and low fuel consumption, whether working in road construction, utilities, landscaping or any other application.

#### Tier 4f engine

Volvo's premium Tier 4f 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

Change text to: Increased tractive effort through high system pressure delivers impressive performance when dozing or travelling over rough terrain

### STABILITY YOU CAN COUNT ON.

If you're looking for the performance of a conventional excavator but need to work in confined areas, the Volvo ECR series has the machine for you. With a "new" wraparound counterweight and "re-designed" heavy duty undercarriage these ECRs have an impressive lift capacity, reducing the requirement for an expensive larger model. Volvo offers customers built-in serviceability with safe and convenient maintenance access for maximum uptime.

#### 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.

#### 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.

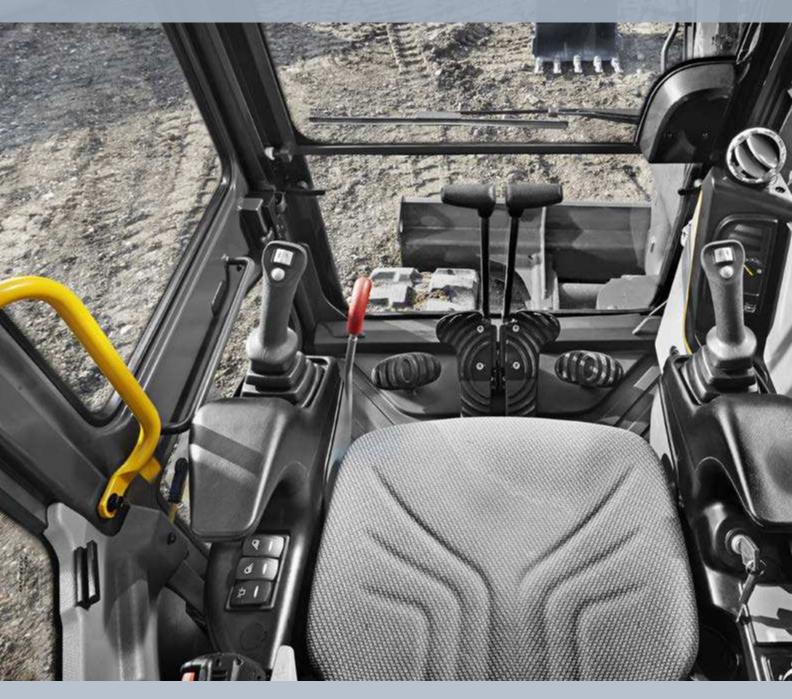


#### MATRIS and VCADS Pro

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.



# **CONTROL IN COMFORT.**



#### 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.

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.

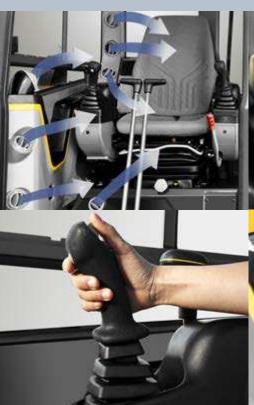


#### Climate control

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 a storage box, side pocket, phone storage, cup holder and a pocket behind the seat.

# **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



#### Volvo mechanical attachment carrier

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

#### Volvo hydraulic attachment carrier

Volvo's universal pin grabber attachment carrier picks up Volvo hydraulic attachments including breakers, thumbs and buckets for use in both the face shovel and normal backhoe 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 450 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, lo



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.

### TAKE A CLOSER LOOK AT THE ECR58D.



#### Cab

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

#### Service access

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



#### Volvo engine

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

#### Stability

A heavy wraparound 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.

# ECR88D - 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



#### 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.





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round viability, enhanced by the slim cab pillars and large windows.



#### Volvo engine

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A heavy counterweight and a strong undercarriage

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### 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 maximizing uptime.



#### **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.



#### **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 the 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.



#### **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.

# **VOLVO ECR58D IN DETAIL.**

#### **Engine**

The new, Tier 4f compliant diesel engine is equipped with four-cylinder, vertical, in-line, turbocharged, air to air intercooler, and water cooled.

Model		Volvo	D2.6H			
Max. power at	r/s /	r/min	33.3 /	2,000		
Net (ISO 9249/SAEJ1349)	k۱	N/hp	35 / <b>47</b>			
Gross (SAE J1995)	k۱	N/hp	36.5 / <b>49</b>			
May targue	Nm	/r/min	210/1,300			
Max. torque	lb.ft	/r/min	155/	1,300		
No. of cylinders			4			
Displacement	1	cu.in	2.615	160		
Bore	mm	in	87	3.43		
Stroke	mm	in	110	4.33		
Electrical system						
Voltage		V	1	2		
Battery capacity		V / Ah	1 x 12	2/100		
Alternator		V / Ah	12.	/ 70		
Starter motor output	,	V/kW	12/3			
Hydraulic system						

Closed-Center Load-Sensing (CCLS) system with load independent functions.

Main pump: Variable-displacement pump										
Maximum flow	l/min	gpm	1 x 126	1 x 33						
Pilot pump: Gear pump										
Maximum flow	l/min	gpm	1 x 14	1 x 4						
Relief valve setting										
Implement	Мра	psi	23.5	3,410						
Travel circuit	Мра	psi	23.5	3,410						
Swing circuit	Мра	psi	20.6	2,990						
Pilot circuit	Мра	psi	3.4	500						
Swing system										

Direct drive swing with radial piston motor-maintenance free type (no reduction gear) and automatic holding brake anti-rebound valve.

wax. Swilly Speed		17 111111	9.2	2.2						
Max. swing torque	kNm	lb.ft	13.2	9,710						
Undercarriage										
Robust X-shaped frame with track chains.										
Track shoes		2 x 39								
Link pitch	mm	in	135	5.3						
Shoe width - steel	mm	in	380/500	15/20						
Shoe width - rubber	mm	in	400	16						
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 / high)	km/h	mph	2.1 / 4.2	1.3 / 2.6
Max. drawbar pull	kN	lb	49	10,970
Gradeability		0	3	5
Service refill capacities				
Fuel tank	1	gal	65	17
Hydraulic system, total	1	gal	90	24
Hydraulic tank	1	gal	52	14
Engine oil	1	gal	11.9	3.1
Engine coolant	1	gal	8	2.1
Travel reduction unit	1	gal	2 x 1.6	2 x 0.4
Sound Lovel				

#### Sound Level

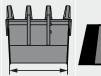
Sound level in cab according to ISO 6396

LpA (standard) 73

External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC

#### **Buckets**

LpA (standard)



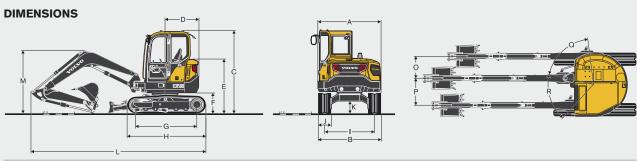


dB(A)



	Wid	dth	We	ight	Capacity		
	mm	in	kg	lb	1	cu.in	
	355	14	97	210	70	4,270	
	450	18	93	210	99	6,040	
Direct bucket	600	24	116	260	144	8,970	
	750	30	131	290	190	11,590	
	900	35	149	330	235	14,340	
	450	18	105	230	99	6,040	
Quick coupler bucket	600	24	132	290	144	8,970	
	750	30	151	330	190	11,590	

# SPECIFICATIONS.



Machine										
Booi	m	m	ft-in	2.9	9' 6"	2.9	9' 6"			
Arm		m	ft-in	1.54	5' 1"	1.94	6' 4"			
Α	Overall width of upper structure	mm	ft-in	2 000	6' 7"	2 000	6' 7"			
В	Overall width	mm	ft-in	2 000	6' 7"	2 000	6' 7"			
С	Overall height of cab	mm	ft-in	2 615	8' 7"	2 615	8' 7"			
D	Tail swing radius	mm	ft-in	1 060	3' 6"	1 060	3' 6"			
Ε	Overall height of engine hood	mm	ft-in	1 710	5' 7"	1 710	5' 7"			
F	Counterweight clearance *	mm	ft-in	670	2' 2"	670	2' 2"			
G	Tumbler length	mm	ft-in	1 950	6' 5"	1 950	6' 5"			
Н	Track length	mm	ft-in	2 495	8' 2"	2 495	8' 2"			
1	Track gauge	mm	ft-in	1 600	5' 3"	1 600	5' 3"			
J	Shoe width	mm	ft-in	400	1' 4"	400	1' 4"			
K	Min. ground clearance *	mm	ft-in	360	1' 2"	360	1' 2"			
L	Overall length	mm	ft-in	5 550	18' 3"	5 580	18' 4"			
M	Overall heght of boom	mm	ft-in	2 000	6' 7"	2 200	7' 2"			
0	Boom swing distance	mm	ft-in	695	2' 3"	695	2' 3"			
Р	Boom swing distance	mm	ft-in	860	2' 10"	860	2' 10"			
Q	Boom swing angle	0		7	0	70				
R	Boom swing angle	Boom swing angle °				60				
* Witho	out shoe grouser									

without shoe grouse

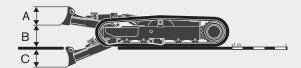
#### Boom and Arm





				DU	OIII		A	AIIII		
		m	ft-in	2.9	9' 6"	1.54	5' 1"	1.94	6' 4"	
Α	Length	mm	ft-in	3 008	9' 10"	2 023	6' 8"	2 423	7' 11"	
В	Heigth	mm	ft-in	1 024	3' 4"	459	1' 6"	473	1' 7"	
	Width	mm	ft-in	300	1' 0"	295	1' 0"	295	1' 0"	
	Weight	kg	lb	300	660	180	400	225	500	

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



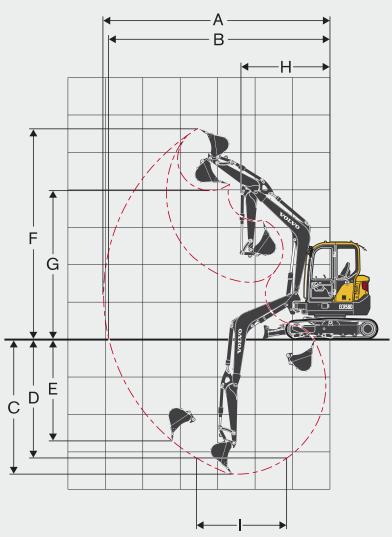
Doz	Dozer blade										
Α	Height	mm	ft-in	373	1' 3"						
	Width	mm	ft-in	2 000	6' 7"						
В	Lifting height	mm	ft-in	442	1' 5"						
С	Digging depth	mm	ft-in	457	1' 6"						

#### MACHINE WEIGHTS AND GROUND PRESSURE

MACHINE WEIGHTS AND GROOND I RESSORE										
	Shoe	width	Operatin	g weight	Ground pressure					
	mm	in	kg	lb	kPa	psi				
Mono boom 2.9 m 9' 6", Arm 1.54 m 5' 1", Bucket 129 kg (142 l) 280 lb, Counterweight 580 kg 1,280 lb										
Steel track	380	15	5 940	13,100	35.7	5.2				
	500	20	6 040	13,320	27.6	4.0				
Rubber track	400	16	5 820	12,830	33.2	4.8				
Rubber pad	400	16	5 975	13,170	33.8	4.9				
Mono boom 2.9 m 9' 6", Arm 1.94 m 6' 4", Bucket 129	kg (142 I) 280	Ib, Counterwei	ight 580 kg 1,2	280 lb						
Steel track	380	15	6 000	13,230	36.0	5.2				
	500	20	6 100	13,450	27.9	4.0				
Rubber track	400	16	5 880	12,960	33.6	4.9				
Rubber pad	400	16	6 035	13,310	34.1	4.9				

# ECR58D SPECIFICATIONS.

#### **WORKING RANGES**



Des	cription		Unit						
Воо	m		m	ft-in	2.9	9' 6"	2.9	9' 6"	
Arm			m	ft-in	1.54	5' 1"	1.94	6' 4"	
Α	Max. digging reach	mm	ft-in	6 000	19' 8"	6 370	20' 11"		
B Max. digging reach on ground				ft-in	5 850	19' 2"	6 230	20' 5"	
C Max. digging depth				ft-in	3 540	11' 7"	3 940	12' 11"	
D Max. digging depth (I=2.44 mm / 8' level)				ft-in	3 100	10' 2"	3 550	11' 8"	
E Max. vertical wall digging depth			mm	ft-in	2 310	7' 7"	2 680	8' 10"	
F Max. cutting height			mm	ft-in	5 570	18' 3"	5 810	19' 1"	
G	Max. dumping height		mm	ft-in	4 040	13' 3"	4 280	14' 1"	
Н	Min. front swing radius		mm	ft-in	2 410	7' 11"	2 450	8' 0"	
Digg	ing forces with direct fit buck	et							
Duo	akout force (bucket)	SAE J1179	kN	lb	34.6	7,780	34.6	7,780	
Die	akout force (bucket)	ISO 6015	kN	lb	39.8	8,950	39.8	8,950	
Too	rout force (arm)	SAE J1179	kN	lb	26.1	5,870	22.1	4,970	
iea	rout roice (arrii)	ISO 6015	kN	lb	26.6	5,980	22.5	5,060	
Rot	ation angle, bucket		0		19	195		195	

#### **LIFTING CAPACITY ECR58D**

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.

Tor inting capacity including	.g bac	J. 10 L. O.	رام	- Cabildet	actual We	.9 01 111	J 4 OCT 11	t Dusitot	oo but	STAGE WITHIT	94.5.000	p.o. 11011	101101	g vala		
		ting oint		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	N	Max. reac	h
	m	ft		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
	4.0		kg	-	-	-	-	-	-	*1 110	1 000	-	-	*1 130	930	4.2 m
	0.0	13.2	lb	-	-	-	-	-	-	*2,470	2,190	-	-	*2,500	2,080	13.6 ft
	3.0	9.9	kg <b>lb</b>	-	-		-	-		*1 130 * <b>2,490</b>	990 <b>2,170</b>	-	-	*1 100 * <b>2,440</b>	720 <b>1,600</b>	4.8 m <b>15.7 ft</b>
	2.0	3.3	kg	-	-	-	-	*1 790	1 490	*1 310	950	*1 120	660	*1 110	630	5.1 m
Boom 2.9 m, 9' 6"		6.6	lb	-	-	-	-	*3,900	3,270	*2,880	2,080	*2,470	1,440	*2,460	1,400	16.8 ft
Arm 1.54 m, 5' 1"	1.0		kg	-	-	-	-	*2 320	1 380	*1 520	900	*1 180	640	*1 130	600	5.2 m
Shoe 400 mm, 16" CWT 580 kg / 1,280 lb	0.0	3.3	lb	-	-	-	-	*5,060	3,020	*3,330	1,970	*2,590	1,400	*2,510	1,330	17.0 ft
Dozer blade down	0.0	0.0	kg <b>Ib</b>	-	-	_	-	*2 450 * <b>5,360</b>	1 330 <b>2,900</b>	*1 620 * <b>3,540</b>	870 <b>1,900</b>	*1 170	630	*1 160 <b>*2,570</b>	620 <b>1,380</b>	5.0 m <b>16.5 ft</b>
	-1.0	0.0	kg	*2 460	*2 460	*3 140	2 670	*2 250	1 320	*1 520	860	-	-	*1 180	710	4.6 m
		-3.3	lb	*5,440	*5,440	*7,000	5,830	*4,930	2,900	*3,310	1,890	-	-	*2,610	1,580	15.0 ft
	-2.0		kg	-	-	*2 590	*2 590	*1 680	1 360	-	-	-	-	*1 140	970	3.8 m
	4.0	-6.6	lb	-	-	*5,650	*5,650	*3,660	2,970	*1 110	- 040	-	-	*2,520	2,170	12.3 ft
	4.0	13.2	kg <b>lb</b>	-	-	_		-	-	*1 110 * <b>2,470</b>	940 <b>2,060</b>	-	-	*1 130 * <b>2,500</b>	880 <b>1,960</b>	4.2 m 13.6 ft
	3.0	. 5.2	kg	-	-	-	-	-	-	*1 130	930	-	-	930	680	4.8 m
		9.9	lb	-	-	-	-	-	-	*2,490	2,040	-	-	2,050	1,500	15.7 ft
Boom 2.9 m, 9' 6"	2.0	00	kg	-	-	-	-	*1 790	1 400	1 220	890	850	620	820	590	5.1 m
Arm 1.54 m, 5' 1"	1.0	6.6	lb kg	-	-	-	-	<b>*3,900</b> 1 810	<b>3,070</b> 1 290	<b>2,670</b> 1 170	<b>1,950</b> 840	<b>1,860</b> 830	<b>1,350</b> 600	<b>1,810</b> 780	<b>1,310</b> 560	<b>16.8 ft</b> 5.2 m
Shoe 400 mm, 16"	1.0	3.3	lb	-	-	-	-	3,960	2,820	2,560	1,850	1,820	1,310	1,740	1,250	17.0 ft
CWT 580 kg / 1,280 lb	0.0		kg	-	-	-	-	1 760	1 240	1 130	810	820	590	810	580	5.0 m
Dozer blade up	4.0	0.0	lb	-	-	-	-	3,840	2,710	2,480	1,780	-	-	1,800	1,290	16.5 ft
	-1.0	-3.3	kg <b>Ib</b>	*2 460 <b>*5,440</b>	*2 460 <b>*5,440</b>	*3 140 * <b>7,000</b>	2 460 <b>5,380</b>	1 750 <b>3,840</b>	1 230 <b>2,700</b>	1 130 <b>2,470</b>	800 <b>1,760</b>	-	-	930 <b>2,060</b>	670 <b>1,470</b>	4.6 m <b>15 ft</b>
	-2.0	-0.0	kg	-	-	*2 590	2 520	*1 680	1 270	-	-	-	-	*1 140	910	3.8 m
		-6.6	Ιb	-	-	*5,650	5,510	*3,660	2,780	-	-	-	-	*2,520	2,030	12.3 ft
	5.0		kg	-	-	-	-	-	-	-	-	-	-	*1 050	*1 050	3.6 m
	4.0	16.5	lb	-	-	-	-	-	-	*910	*910	-	-	* <b>2,340</b> *960	* <b>2,340</b> 780	<b>11.7 ft</b> 4.6 m
	4.0	13.2	kg <b>lb</b>	-	-	-	-	-	-	*2,030	*2,030	-	-	*2,120	1,730	15.2 ft
	3.0		kg	-	-	-	-	-	-	*970	*970	*960	680	*910	620	5.2 m
		9.9	lb	-	-	-	-	-	-	*2,150	*2,150	*2,130	1,480	*2,000	1,380	17.1 ft
Boom 2.9 m, 9' 6"	2.0	6.6	kg	-	-	-	-	*1 490 * <b>3,260</b>	*1 490 * <b>3,260</b>	*1 170 * <b>2,570</b>	960	*1 020	660	*910 * <b>2,020</b>	550	5.5 m
Arm 1.94 m, 6' 4"	1.0	0.0	<b>lb</b> kg	-	-	-	-	*2 090	1 370	*1 400	<b>2,090</b> 890	* <b>2,250</b> *1 110	<b>1,440</b> 630	*970	<b>1,220</b> 530	<b>18.0 ft</b> 5.6 m
Shoe 400 mm, 16"		3.3	lb	-	-	-	-	*4,560	3,010	*3,080	1,950	*2,440	1,380	*2,150	1,170	18.3 ft
CWT 580 kg / 1,280 lb	0.0		kg	-	-	*1 500	*1 500	*2 370	1 280	*1 560	840	*1 160	610	*1 040	540	5.4 m
Dozer blade down	1.0	0.0	lb	*1.060	*1 060	*3,350	*3,350	*5,190	2,810	*3,410	1,850	*2,550	1,330	*2,290	1,190	17.8 ft
	-1.0	-3.3	kg <b>Ib</b>	*1 960 * <b>4,330</b>	*1 960 * <b>4,330</b>	*2 680 * <b>5,980</b>	2 530 <b>5,520</b>	*2 310 * <b>5,060</b>	1 260 <b>2,770</b>	*1 550 * <b>3,380</b>	820 <b>1,810</b>	*1 080	600	*1 070 * <b>2,360</b>	600 <b>1,330</b>	5.0 m <b>16.5 ft</b>
	-2.0	3.0	kg	*3 090	*3 090	*3 180	2 590	*1 920	1 290	*1 260	840	-	-	*1 070	770	4.3 m
		-6.6	lb	*6,870	*6,870	*6,920	5,660	*4,190	2,820	*2,730	1,850	-	-	*2,370	1,700	14.1 ft
	-3.0	-9.9	kg <b>Ib</b>	-	-	*1 450 * <b>3,080</b>	*1 450 * <b>3,080</b>	-	-	-	-	-	-	*890	*890	2.9 m <b>9.5 ft</b>
	5.0	-3.3	kg	-	-	-	-	-	-	-	-	-	-	*1,940 *1 050	* <b>1,940</b> *1 050	3.6 m
	5.0	16.5	lb	-	-	-	-	-	-	-	-	-	-	*2,340	*2,340	11.7 ft
	4.0		kg	-	-	-	-	-	-	*910	*910	-	-	*960	730	4.6 m
	20	13.2	lb	-	-	-	-	-	-	*2,030 *070	* <b>2,030</b>	970	620	* <b>2,120</b>	1, <b>630</b>	15.2 ft
	3.0	9.9	kg <b>lb</b>	-	-	-	-	-	-	*970 <b>*2,150</b>	950 <b>2,080</b>	870 <b>1,910</b>	630 <b>1,390</b>	810 <b>1,790</b>	580 <b>1,300</b>	5.2 m 17.1 ft
	2.0		kg	-	-	-	-	*1 490	1 430	*1 170	900	850	620	720	520	5.5 m
Boom 2.9 m, 9' 6"	, .	6.6	lb	-	-	-	-	*3,260	3,140	*2,570	1,970	1,860	1,350	1,600	1,140	18.0 ft
Arm 1.94 m, 6' 4" Shoe 400 mm, 16"	1.0	3.3	kg	-	-	-	-	1 810	1 280	1 160	830	820 <b>1,800</b>	590 <b>1,290</b>	690	490	5.6 m <b>18.3 ft</b>
CWT 580 kg / 1,280 lb	0.0	3.3	<b>lb</b> kg	-	-	*1 500	*1 500	<b>3,960</b> 1 710	<b>2,810</b> 1 190	<b>2,540</b> 1 110	<b>1,830</b> 790	800	560	<b>1,530</b> 710	<b>1,090</b> 500	5.4 m
Dozer blade up	0.0	0.0	lb	-	-	*3,350	*3,350	3,750	2,620	2,430	1,720	1,750	1,240	1,570	1,110	17.8 ft
	-1.0		kg	*1 960	*1 960	*2 680	2 320	1 690	1 170	1 090	770	800	560	790	560	5.0 m
	0.0	-3.3	lb	*4,330	*4,330	*5,980	5,070	3,700	2,570	2,390	1,680	-	-	1,750	1,240	16.5 ft
	-2.0	-6.6	kg <b>Ib</b>	*3 090 <b>*6,870</b>	*3 090 <b>*6,870</b>	*3 180 * <b>6,920</b>	2 390 <b>5,210</b>	1 720 <b>3,760</b>	1 200 <b>2,620</b>	1 110 <b>2,430</b>	790 <b>1,720</b>	-	-	1 010 <b>2,230</b>	710 <b>1,590</b>	4.3 m <b>14.1 ft</b>
	-3.0	0.0	kg	-	-	*1 450	*1 450	-	-	-	-	-	-	*890	*890	2.9 m
		-9.9	lb	-	-	*3,080	*3,080	-	-	-	-	-	-	*1,940	*1,940	9.5 ft
ALL ATL L L		12		UI OAF 14	007 110	00 10507				0	1 0 0 1			1070/		

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. Notes:

# **VOLVO ECR88D IN DETAIL.**

#### **Engine**

The new, Tier 4f compliant diesel engine is equipped with four-cylinder, vertical, in-line, turbocharged, air to air intercooler, and water cooled.

Model		Volvo	D2.6H			
Max. power at	r/s /	r/min	33.3 /	2,000		
Net (ISO 9249/SAEJ1349)	k۱	∥/hp	41 / <b>55</b>			
Gross (SAE J1995)	k۱	∥/hp	43 / <b>58</b>			
Max. torque	Nm	/r/min	220/1 300			
	lb. ft.	/r/min	162/1,300			
No. of cylinders			4			
Displacement	1	cu. in	2.615	160		
Bore	mm	in	87	3.43		
Stroke	mm	in	110	4.33		
Electrical system						
Voltage		V	1	2		
Battery capacity		V / Ah	1 x 12	/ 100		
Alternator		V / Ah	12.	70		
Starter motor output	,	V/kW	12	/3		
Hydraulic system						

Closed-Center Load-Sensing (CCLS) system with load independent functions.

Main pump: Variable-displacement pump											
Maximum flow	I/min	gpm	1 x 169	1 x 45							
Pilot pump: Gear pump											
Maximum flow	I/min	gpm	1 x 14	1 x 4							
Relief valve setting											
Implement	Мра	psi	29.4	4,270							
Travel circuit	Мра	psi	29.4	4,270							
Swing circuit	Мра	psi	24.5	3,560							
Pilot circuit	Мра	psi	3.4	500							
Swing system											

Direct drive swing with radial piston motor-maintenance free and automatic holding brake anti-rebound valve.

Max. swing speed		r/min	28	
Max. swing torque	kNm	lb/ft	22.9	16,910

### Undercarriage Robust X-shaped frame with sealed and greased track chains.

		2 x	39			
mm	in	154	6.1			
mm	in	450 / 600	18 / 24			
mm	in	450	18			
		2 x	5			
	in 154 <b>6.1</b> in 450 / 600 <b>18 / 24</b>					
	mm	mm in	mm in 450 / 600 mm in 450			

#### 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 / high)	km/h	mph	2.6 / 4.9	1.6 / 3.0
Max. drawbar pull	kN	lb	65	14,610
Gradeability		٥	3	5
Service refill capacities				
Fuel tank	1	gal	110	29
Hydraulic system, total	1	gal	140	37
Hydraulic tank	1	gal	84	22
Engine oil	1	gal	11.9	3.1
Engine coolant	1	gal	9.3	2.5
Travel reduction unit	1	gal	2 x 1.6	2 x 0.4
Sound Level				

#### Sound level in cab according to ISO 6396

LpA (standard)	dB(A)

External sound level according to ISO 6395 and ELI Noise Directive 2000/14/FC

and EU Noise Directive 2000/14/EC	
LpA (standard)	dB(A)

#### Buckets



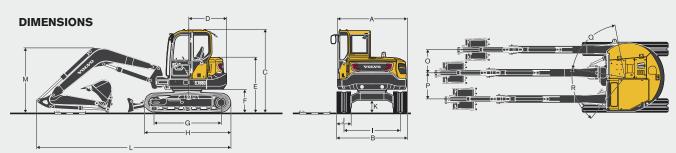




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	Wie	dth	Wei	ight	Capacity		
	mm	in	kg	lb	- 1	cu. in	
	300	12	111	250	79	4,820	
	450	18	139	310	143	8,730	
Direct bucket	600	24	162	360	200	12,200	
	750	30	182	400	266	16,230	
	900	35	205	450	333	20,320	
	450	18	132	290	143	8,730	
Quick coupler	600	24	156	340	200	12,200	
bucket	700	28	171	380	244	14,890	
	850	33	191	420	310	18,920	

# SPECIFICATIONS.



m	ft-in	3.55	11' 8"	3.55	11' 8"	
m	ft-in	1.7	5' 7"	2.1	6' 11"	
mm	ft-in	2 210	7' 3"	2 210	7' 3"	
mm	ft-in	2 300	7' 7"	2 300	7' 7"	
mm	ft-in	2 715	8' 11"	2 715	8' 11"	
mm	ft-in	1 290	4' 3"	1 290	4' 3"	
mm	ft-in	1 180	3' 10"	1 180	3' 10"	
mm	ft-in	760	2' 6"	760	2' 6"	
mm	ft-in	2 200	7' 3"	2 200	7' 3"	
mm	ft-in	2 830	9' 3"	2 830	9' 3"	
mm	ft-in	1 850	6' 1"	1 850	6' 1"	
mm	ft-in	450	1' 6"	450	1' 6"	
mm	ft-in	405	1' 4"	405	1' 4"	
mm	ft-in	6 370	20' 11"	6 420	21' 1"	
mm	ft-in	2 115	6' 11"	2 230	7' 4"	
mm	ft-in	760	2' 6"	760	2' 6"	
mm	ft-in	860	2' 10"	860	2' 10"	
0		7	0	70		
0		6	0	60		
	m mm m	m ft-in mm f	m ft-in 1.7 mm ft-in 2 210 mm ft-in 2 300 mm ft-in 2 715 mm ft-in 1 290 mm ft-in 1 180 mm ft-in 760 mm ft-in 2 200 mm ft-in 2 830 mm ft-in 1 850 mm ft-in 450 mm ft-in 405 mm ft-in 6 370 mm ft-in 2 115 mm ft-in 760 mm ft-in 760 mm ft-in 860	m ft-in 1.7 5' 7" mm ft-in 2 210 7' 3" mm ft-in 2 300 7' 7" mm ft-in 2 715 8' 11" mm ft-in 1 290 4' 3" mm ft-in 1 180 3' 10" mm ft-in 2 200 7' 3" mm ft-in 2 830 9' 3" mm ft-in 1 850 6' 1" mm ft-in 450 1' 6" mm ft-in 405 1' 4" mm ft-in 6 370 20' 11" mm ft-in 2 115 6' 11" mm ft-in 760 2' 6" mm ft-in 860 2' 10"	m         ft-in         1.7         5'7"         2.1           mm         ft-in         2 210         7'3"         2 210           mm         ft-in         2 300         7'7"         2 300           mm         ft-in         2 715         8'11"         2 715           mm         ft-in         1 290         4'3"         1 290           mm         ft-in         1 180         3'10"         1 180           mm         ft-in         760         2'6"         760           mm         ft-in         2 200         7'3"         2 200           mm         ft-in         2 830         9'3"         2 830           mm         ft-in         1 850         6'1"         1 850           mm         ft-in         450         1'6"         450           mm         ft-in         405         1'4"         405           mm         ft-in         6 370         20'11"         6 420           mm         ft-in         760         2'6"         760           mm         ft-in         860         2'10"         860	

<sup>\*</sup> Without shoe grouser

#### **Boom and Arm**





			Во	om	Arm							
	m	ft-in	3.55	11' 8"	1.7	5' 7"	2.1	6' 11"				
Length	mm	ft-in	3 690	12' 1"	2 283	7' 6"	2 684	8' 10"				
Height	mm	ft-in	1 244	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				



A Height mm **ft-in** 470 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"

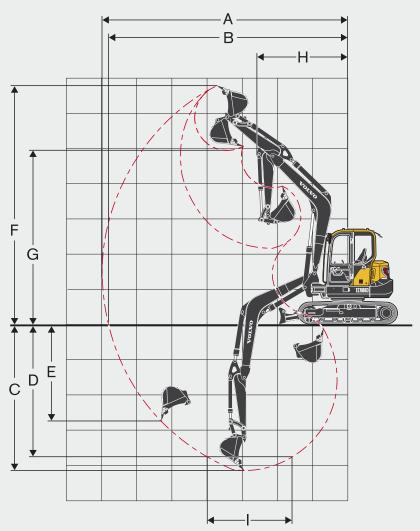
Boom: Includes cylinder, piping and pin, excludes boom cyl. Pin. Arm: Includes cylinder, linkage and pin.

#### MACHINE WEIGHTS AND GROUND PRESSURE

MACHINE WEIGHTS AND GROOND I RESSORE									
	Shoe	width	Operatin	g 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 18	8 kg (266 l) 4	10 lb, Counterv	veight 1 480 k	g 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			

# **ECR88D SPECIFICATIONS.**

#### **WORKING RANGES**



Doce	wintion		Un	:4					
	cription								
Boo	m		m	ft-in	3.55	11' 8"	3.55	11' 8"	
Arm			m	ft-in	1.7	5' 7"	2.1	6' 11"	
Α	Max. digging reach		mm	ft-in	6 970	22' 10"	7 350	24' 1"	
В	Max. digging reach on ground	ı	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=2.44 m / 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"	
Н	Min. front swing radius		mm	ft-in	2 560	8' 5"	2 640	8' 8"	
Digg	ing forces with direct fit buck	et							
Dro	akout force (bucket)	SAE J1179	kN	lb	50.7	11,400	50.4	11,330	
Die	akout force (bucket)	ISO 6015	kN	lb	57.2	12,860	56.8	12,770	
Too	Tearout force (arm) SAE J1179 ISO 6015		kN	lb	38.9	8,740	33.8	7,600	
ieai			kN	lb	39.8	8,950	34.4	7,730	
Rota	Rotation angle, bucket				19	90	190		

#### 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.

For litting capacity includi			пріу															h
		ting		1.0 m,	3.3 ft	2.0 m	6.6 ft	3.0 m,	, 9.9 π	4.0 m,	13.2 ft	5.0 m,	16.5 π	6.U, I	9.8 ft	IV	ax. read	n
		oint ft		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
	<b>m</b> 5.0	- 11	kg	- Along	- -	- Along	- ACIUSS	- Along	- ACIUSS	*1 520	*1 520	- Along	- ACIUSS	- Along	- ACIUSS	*1 600	*1 600	4.6 m
	0.0	16.5	lb	-	-	-	-	-	-	*3,380	*3,380	-	-	-	-	*3,550	*3,550	14.9 ft
	4.0		kg	-	-	-	-	-	-	*1 580	*1 580	*1 540	1 390	-	-	*1 560	1 230	5.3 m
	0.0	13.2	lb	-	-	-	-	+0.400	+0.400	*3,470	*3,470	*3,400	3,050	-	-	*3,450	2,740	17.5 ft
	3.0	9.9	kg <b>lb</b>	-	-	-	-	*2 490 * <b>5,420</b>	*2 490 * <b>5,420</b>	*1 890 * <b>4,150</b>	*1 890	*1 640	1 360 <b>2,980</b>	-	-	*1 540 * <b>3,400</b>	1 060 <b>2,340</b>	5.8 m
Boom 3.55 m, 11' 8"	2.0	3.3	kg		-	-	-	*3 700	2 830	*2 330	* <b>4,150</b> 1 840	<b>*3,610</b> *1 830	1 310	*1 590	980	*1 580	980	<b>19.0 ft</b> 6.0 m
Arm 1.7 m, 5' 7"	2.0	6.6	lb	-	-	-	-	*8,040	6,200	*5,100	4,040	*4,010	2,870	-	-	*3,490	2,160	19.7 ft
Shoe 450 mm, 18"	1.0		kg	-	-	-	-	-	-	*2 690	1 750	*2 000	1 260	*1 630	960	*1 620	950	6.0 m
CWT 1 480 kg /		3.3	lb	-	-	-	-	*5,550	*5,550	*5,870	3,830	*4,380	2,770	-	-	*3,580	2,110	19.7 ft
3,260 lb	0.0	0.0	kg	-	-	-	-	*3 800	2 640	*2 810	1 700	*2 070	1 230	-	-	*1 670	990	5.8 m
Dozer blade down	-1.0	0.0	lb kg			*3 560	*3 560	<b>*8,570 *</b> 3 840	<b>5,760</b> 2 640	<b>*6,150 *</b> 2 690	<b>3,720</b> 1 690	<b>*4,540 *</b> 1 970	<b>2,700</b> 1 220	-	-	<b>*3,680</b> *1 700	<b>2,180</b> 1 100	<b>19.1 ft</b> 5.4 m
	1.0	-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	2 690	*2 270	1 710	-	-,	-	-	*1 710	1 370	4.7 m
		-6.6	ΙĎ	-	-	*10,470	*10,470	*6,990	5,870	*4,950	3,750	-	-	-	-	*3,760	3,030	15.4 ft
	-3.0	0.0	kg	-	-	-	-	*1 880	*1 880	-	-	-	-	-	-	*1 500	*1 500	3.4 m
	ΕO	-9.9	lb	-	-	-	-	*4,040	*4,040	*1 500	*1 500	-	-	-	-	*3,290	*3,290	11.2 ft
	5.0	16.5	kg <b>Ib</b>	-	-	-	-	-	-	*1 520 * <b>3,380</b>	*1 520 * <b>3,380</b>	-	-	-	-	*1 600 * <b>3,550</b>	1 520 <b>3,400</b>	4.6 m <b>14.9 ft</b>
	4.0	10.0	kg	-	-	-	-	-	-	*1 580	*1 580	*1 540	1 320	-	-	1 470	1 160	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	1 850	1 630	1 290	-	-	1 270	1 000	5.8 m
Boom 3.55 m, 11' 8"	0.0	9.9	lb	-	-	-	-	*5,420	*5,420	*4,150	4,040	3,560	2,820	1 100	-	2,820	2,210	19.0 ft
Arm 1.7 m, 5 '7"	2.0	6.6	kg <b>lb</b>	-	-	-	-	3 440 <b>7,530</b>	2 650 <b>5,800</b>	2 210 <b>4,850</b>	1 740 <b>3,800</b>	1 580 <b>3,450</b>	1 240 <b>2,710</b>	1 180	920	1 180 <b>2,610</b>	920 <b>2,030</b>	6.0 m <b>19.7 ft</b>
Shoe 450 mm, 18"	1.0	0.0	kg	-	-	-	-	-	-	2 120	1 640	1 530	1 190	1 160	900	1 160	900	6.0 m
CWT 1 480 kg /		3.3	lb	-	-	-	-	*5,550	5,450	4,640	3,600	3,340	2,600	-	-	2,550	1,980	19.7 ft
3,260 lb	0.0		kg	-	-	-	-	3 240	2 460	2 070	1 590	1 490	1 160	-	-	1 200	930	5.8 m
Dozer blade up	4.0	0.0	lb	-	-	+0.500	+0.500	7,080	5,380	4,520	3,490	3,270	2,530	-	-	2,650	2,050	19.1 ft
2020: 2:440 46	-1.0	-3.3	kg <b>lb</b>	-	-	*3 560 * <b>7,910</b>	*3 560 <b>*7,910</b>	3 250 <b>7,100</b>	2 470 <b>5,400</b>	2 050 <b>4,490</b>	1 580 <b>3,460</b>	1 480 <b>3,250</b>	1 150 <b>2,510</b>	-	-	1 330 <b>2,940</b>	1 030 <b>2,280</b>	5.4 m 17.7 ft
	-2.0	-3.3	kg	-	_	*4 790	*4 790	*3 200	2 510	2 080	1 610	-	2,310	-	-	1 650	1 280	4.7 m
	2.0	-6.6	lb	-	-		*10,470		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	ΙĎ	-	-	-	-	*4,040	*4,040	-	-	-	-	-	-	*3,290	*3,290	11.2 ft
	6.0	19.8	kg <b>lb</b>	-	-	-	-	-	-	-	-	-	-	-	-	*1 510 * <b>3,350</b>	*1 510 * <b>3,350</b>	4.0 m
	5.0	13.0	kg		-	-	-	-	-	-	-	*1 380	*1 380	-	-	*1 320	*1 320	<b>12.8 ft</b> 5.1 m
	0.0	16.5	lb	-	-	-	-	-	-	-	-	*3,080	3,060	-	-	*2,930	*2,930	16.6 ft
	4.0		kg	-	-	-	-	-	-	-	-	*1 340	*1 340	-	-	*1 230	1 070	5.8 m
	20	13.2	lb	-	-	-	-	-	-	*1 050	*1 050	*2,960	*2,960	*1 200	-	*2,710	2,380	18.9 ft
Boom 3.55 m, 11' 8"	3.0	9.9	kg <b>lb</b>				- 1		-	*1 650 * <b>3,610</b>	*1 650 * <b>3,610</b>	*1 470 * <b>3,230</b>	1 370 <b>2,990</b>	*1 390 <b>*3,080</b>	990 <b>2,170</b>	*1 210 * <b>2,660</b>	940 <b>2,070</b>	6.2 m <b>20.3 ft</b>
Arm 2.1 m, 6' 11"	2.0	5.5	kg	-	-	-	-	*3 160	2 900	*2 100	1 850	*1 680	1 310	*1 470	970	*1 240	870	6.4 m
Shoe 450 mm, 18"	2.0	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
CWT 1 480 kg	1.0		kg	-	-	-	-	*3 630	2 660	*2 520	1 740	*1 890	1 250	*1 560	940	*1 320	850	6.4 m
3,260 lb	0.0	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
Dozer blade down	0.0	0.0	kg <b>lb</b>	-	-	-		*3 940 * <b>8,870</b>	2 580 <b>5,640</b>	*2 730 * <b>5,980</b>	1 670 <b>3,650</b>	*2 010 * <b>4,410</b>	1 200 <b>2,630</b>	*1 590 * <b>3,470</b>	920 <b>2,010</b>	*1 480 * <b>3,270</b>	870 <b>1,920</b>	6.2 m <b>20.4 ft</b>
	-1.0	0.0	kg	*2 660	*2 660	*3 090	*3 090	*4 000	2 570	*2 720	1 640	*2 000	1 180	-		*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	2 600	*2 440	1 650	*1 720	1 200	-	-	*1 580	1 140	5.2 m
	-20	-6.6	lb	*8,830	*8,830	,	*11,000		<b>5,680</b>	*5,320 *1.650	<b>3,620</b>	*3,740	2,630	-	-	*3,480	2,530	17.0 ft
	-3.0	-9.9	kg <b>lb</b>	-	-	*3 870 * <b>8,390</b>	*3 870 * <b>8,390</b>	*2 510 * <b>5,450</b>	*2 510 * <b>5,450</b>	*1 650 * <b>3,550</b>	*1 650 * <b>3,550</b>	-	-	-	-	*1 530 <b>*3,370</b>	*1 530 * <b>3,370</b>	4.1 m 13.5 ft
	6.0	3.0	kg	-	-	-	-	-	-	-	-	-	-	-	-	*1 510	*1 510	4.0 m
		19.8	Ιb	-	-	-	-	-	-	-	-		-	-	-	*3,350	*3,350	12.8 ft
	5.0	10.5	kg	-	-	-	-	-	-	-	-	*1 380	1 330	-	-	*1 320	1 280	5.1 m
	4.0	16.5	kg	-	-	-		-	-	-	-	*3,080 *1.340	<b>2,890</b>	-	-	* <b>2,930</b>	<b>2,840</b>	16.6 ft
	4.0	13.2	lb <b>lb</b>									*1 340 * <b>2,960</b>	1 330 <b>2,900</b>			*1 230 * <b>2,710</b>	1 010 <b>2,250</b>	5.8 m <b>18.9 ft</b>
	3.0	10.2	kg	-	-	-	-	-	-	*1 650	*1 650	*1 470	1 290	1 200	930	1 130	880	6.2 m
Boom 3.55 m, 11' 8"		9.9	lb	-	-	-	-	-	-	*3,610	*3,610	*3,230	2,820	2,620	2,040	2,510	1,950	20.3 ft
Arm 2.1 m, 6' 11"	2.0		kg <b>Ib</b>	-	-	-	-	*3 160	2 720	*2 100	1 750	1 570	1 230	1 170	910	1 050	810	6.4 m
Shoe 450 mm, 18"	1.0	6.6		-	-	-	-	* <b>6,870</b>	5,950	*4,600	3,820	<b>3,440</b>	<b>2,690</b>	2,560	1,990	2,330	1,800	20.9 ft
CWT 1 480 kg /	1.0	3.3	kg <b>lb</b>	-	-	-	-	3 270 <b>7,150</b>	2 480 <b>5,440</b>	2 110 <b>4,610</b>	1 630 <b>3,580</b>	1 510 <b>3,300</b>	1 170 <b>2,570</b>	1 140 <b>2,500</b>	880 <b>1,930</b>	1 030 <b>2,280</b>	790 <b>1,750</b>	6.4 m <b>21.0 ft</b>
3,260 lb	0.0	0.0	kg	-	-	-	-	3 180	2 400	2 030	1 560	1 460	1 130	1 120	860	1 060	810	6.2 m
Dozer blade up		0.0	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	3 170	2 390	2 010	1 540	1 440	1 110	-	-	1 160	890	5.8 m
	-0.0	-3.3	lb	*5,890	* <b>5,890</b> *3 980	* <b>6,860</b>	* <b>6,860</b>	6,930	5,230	4,390	<b>3,360</b>	<b>3,160</b>	<b>2,430</b>	-	-	<b>2,570</b>	1,970	19.1 ft
	-2.0	-6.6	kg <b>lb</b>	*3 980 * <b>8.830</b>			*4 940 * <b>1,1000</b>	3 200 <b>7.000</b>	2 420 <b>5,300</b>	2 020 <b>4,420</b>	1 550 <b>3,390</b>	1 460 <b>3,200</b>	1 120 <b>2,460</b>	-	_	1 390 <b>3,070</b>	1 070 <b>2,370</b>	5.2 m 17.0 ft
	-3.0	5.5	kg	-	-			*2 510	2 500	*1 650	1 610	-	-, .00	-	-	*1 530	*1 530	4.1 m
		-9.9	lb	-	-		*8,390			*3,550	3,530	-	-	-	-		*3,370	
N				045	14.007	1100 40	-07.11				0.					70/ 6		

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. Notes:

# **EQUIPMENT.**

#### STANDARD EQUIPMENT

	ECR58D	ECR88D
Engine		
Low-emission Volvo T4f 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 / 3 kW		
Travel alarm		
Monitor and keypad		
Master electrical disconnect switch		
Hydraulic system		
Automatic two speed travel motors		
Cylinder cushioning		
Hydraulic fluid mineral 46		
Pilot control pattern change		
Single (Hammer) and Double Acting (Thumb) Hydraulics		
X1 Flow Control through I ECU		

	ECR58D	ECR88D
Cab and interior		
Canopy		
PVC operator seat with suspension		
Seat belt, 2 inch retractable		•
Control joystick		•
Master key		•
Hour meter (non analog)		•
Frame		
580 kg (1,280 lb) counterweight		
1 480 kg (3,260 lb) counterweight		•
Under cover		•
Dozer Blade with float function		
Undercarriage		
Track link		
Greased and sealed track link		
400 mm (16") rubber track		
450 mm (18") rubber track		•
Digging equipment		
Boom: 2.9 m (9' 6"), Arm: 1.54 m (5' 1")		
Boom: 3.55 m (11' 8"), Arm: 1.7 m (5' 7")		
Linkage		
Service		
Tool kit-daily maintenance		

#### OPTIONAL EQUIPMENT

	ECR58D	ECR88E
Electric/Electronic control system		
Fuel filler pump: 35 I/min (9 gpm), with automatic shut-off	•	•
Extra working lights;	•	•
Cab-mounted 1 (rear), Boom-mounted 1		•
Caretrack	•	•
Air compressor	•	•
Travel alarm		•
Anti theft, code-lock		•
Rotating warning beacon	•	•
Hydraulic system		
Hydraulic piping:	•	•
Hammer & shear hydraulic piping (max. flow: 70 lpm / 18 gpm, max. pressure: 26.5 Mpa / 3,840 psi)		
Hammer & shear hydraulic piping (max. flow: 90 lpm / 24 gpm, max. pressure: 32.4 Mpa / 4,690 psi )		•
Slope & rotator (max. flow: 35 lpm / 9 gpm, max. pressure: 14.7 Mpa / 2,130 psi)		•
Grapple		
Attachment carriers	•	•
Hose rupture valve for boom		•
Overload warning device		•
Hydraulic oil, ISO VG 32, 68	•	•
Hydraulic oil, biodegradable 46	•	•
Hydraulic oil, longlife oil 46	•	•
Cab and interior		
Cab	•	•
Carecab includes CareTrack connection	•	•
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	•	٠
Frame		
Rearview mirror	•	•
Undercarriage		
380 mm (15"), 500 mm (20") steel track	•	
450 mm (18"), 600 mm (24") steel track		•
400 mm (16") rubber pad	•	
450 mm (18") rubber pad		•
Digging equipment		
Boom: 3.85 m (12' 8") 2 piece		•
Arm: 1.94 m (6' 4")	•	
Arm: 2.1 m (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



### **VOLVO CONSTRUCTION EQUIPMENT**



VOLVO

Volvo Construction Equipment www.volvoce.com/na

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