

VOLVO EXCAVATOR

ECR305CL

33,8 – 37,0 t, 195 hp



MORE CARE. BUILT IN.



SEE HOW IT FITS YOUR WORK.

MORE SAFETY.

- **Volvo Care Cab** with operator protective structure.
- **Anti-slip, punched steel steps/platforms:** superior grip and safety.
- **Low engine emission levels and low noise.**
- **Lead-free exterior paint** is in harmony with the environment.
- **Cab door slides neatly along the cab,** staying within the track width.

MORE PRODUCTIVITY.

- **Class-leading stability** for powerful lifting performance.
- **Smooth combination boom/arm operation:** even during travel.
- **Dependable lifting capacity:** handles the work of similar, conventional excavators.
- **Fine, precise control:** do it easily, do it quickly, do it right.
- **Powerful Tier 3/Stage IIIA Volvo engine:** dependable performance.
- **Volvo quick fit:** flexible compatibility and easy attachment change out.
- **Optional dozer blade:** high blade departure angle allows for steep slope climbing.





MORE COMFORT.

- **Volvo Care Cab:** comfort you expect.
- **High-capacity climate control system.**
- **Vibration dampening:** reduced whole body vibration and fatigue.
- **Adjustable consoles:** easily find the right operating position.

MORE INNOVATION.

- **Short swing radius:** work in confined areas or one lane of traffic.
- **Excellent center of gravity for balance:** including on slopes.
- **Advanced hydraulic system:** efficient, smooth control.
- **Industry-leading fuel efficiency.**
- **Rounded cab shape:** roomy, optimized design stays inside the swing radius.

MORE UPTIME.

- **Simplified, ground-level service access.**
- **Easy access, centralized lubrication points.**
- **In-cab monitoring** through the easy-to-read, **color LCD monitor.**

MORE QUALITY.

- **Volvo durability built in:** forged steel top rollers, strengthened track guard, greased/sealed track link.
- **Strong undercarriage frame:** endures daily abuse.
- **Reinforced superstructure:** double welded stress points.

A TURN FOR THE BETTER.

Confined areas now seem a lot less confining. That's because you are free to work in your Volvo ECR305CL. One lane of traffic. Next to buildings on busy streets. Between utility poles. You can go where the work is, and you can handle it all with the power, lift capacity and stability you demand. The Volvo ECR305CL is the short swing radius machine that 30-ton-excavator owners should turn to for commanding performance.

Short swing radius

- The performance of a 30-ton conventional excavator – with the flexibility of a short swing radius.
- Versatility for operation in one lane of traffic, confined jobsites or open areas.

Access the profits

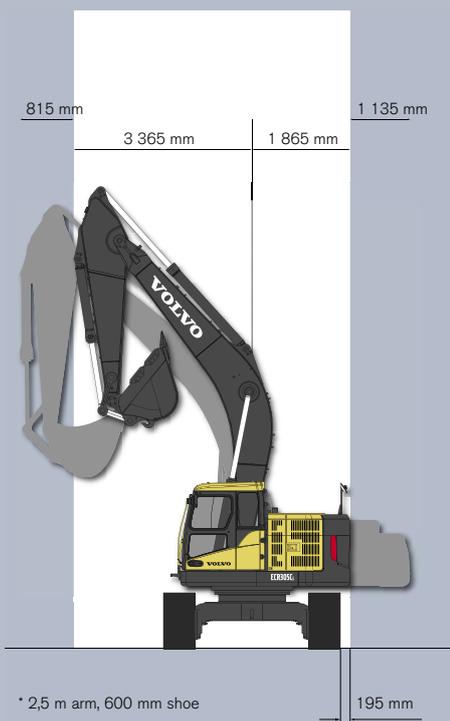
- Operate in or next to streets with minimal traffic disruption.
- More safety next to buildings, people or other site obstructions: less risk of machine damage.
- Maximum digging reach increases capabilities; decreases machine repositioning.

Never short on performance

- A heavy counterweight and excellent center of gravity.
- The short swing radius machine with class-leading stability.
- A wide working range, powerful lifting capacity and dependable power.
- Advanced hydraulic system for efficient, smooth control.

Volvo Care Cab comfort

- Optimized cab space is roomy for the operator, yet designed to stay within the swing radius.
- High-capacity climate control system: operator comfort from cab floor to ceiling.





TURNING CONFIDENCE – INTO PROFIT.

At every turn – there's more to do. The Volvo ECR305CL is ready. Every full bucket, every swing, every load is executed with smoothness, precision and comfort. For those in civil engineering, piping, material handling and more, the Volvo ECR305CL will help you confidently turn the work that you perform into greater profit.

The stable one

- Optimum capacity and stability, comparable with conventional machines.
- Heavy counterweight and excellent center of gravity.
- Designed to offer comparable stability/balance as a conventional machine when swinging on slopes – and performing on flat terrain.

Working smooth and fast

- Class-leading short swing radius lifting capability, swing torque, weight distribution and tractive effort.
- Smooth combination boom/arm operation.
- Machine's computer balances maximum available horsepower to hydraulic output.

It fits your work

- Works in one lane of traffic: avoiding costly permits or night-only work mandates.
- Volvo quick fit compatibility: easy attachment change out for greater versatility.

Precision control

- The combination of power and capacity with fine, precision control.
- Volvo-matched hydraulics deliver optimum productivity, command and less operator fatigue.
- Optional dozer blade features a high blade departure angle that allows steeper slope climbing. Provides extra bracing stability when digging.

Application versatility

- **City/public works:** pipe and cable laying, sewer and drainage work.
- **Road works:** road construction, piping and utilities.
- **Industry/Waste handling:** effective inside confined facilities.
- **Site preparation:** the capacity to handle the work and the size to get to it.
- **Demolition:** accessing areas conventional machines can not.





INTELLIGENT DESIGN. SMART CHOICE.

A quality product doesn't have to be a thing of the past. Volvo believes in it and it's in everything we do. That's why the Volvo ECR305CL is built for durability and reliability. It's not an option – it's standard. And with intelligent all-around access and ease of service, you too will believe that you made the smart choice with Volvo.

Quality you can see and feel

- Reinforced superstructure, forged steel top roller, strengthened track guard, greased/sealed track link.
- Heavy-duty design and strong components for durability.
- Powerful Tier 3/Stage IIIA Volvo engine.

Access to serviceability

- Large service openings for easy access/inspection.
- Long hydraulic oil service intervals: standard at 5 000 hours.
- All daily service checks are accessible at ground level – and viewable from the cab monitor.
- Centralized lubrication points and ground-level filter access.
- Approximately 80% commonality of components with Volvo conventional machines: reduced costs and greater availability.

Your Volvo dealer has the support you need:

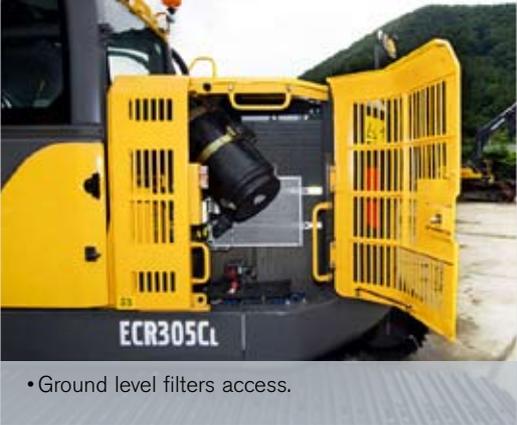
CareTrack helps track your machine

- Optional GPS monitoring and diagnostics program.
- Remotely track machine location, usage, productivity, fuel consumption and more.
- Maximize uptime through important service reminders.

MATRIS gives you a full report

- Detailed operating history analysis, utilization and efficiency.
- Turns the data captured inside the machine's computer into easy-to-use graphs and reports.
- Check operating techniques, reduce maintenance costs and increase service life.





• Ground level filters access.



• 3-point, multi-purpose access with hand rail for ease and safety.



• Wide open, ground level service area provides easy hydraulic valve access.



RELAX. IT'S VOLVO.

Get comfortable with doing more. Less fatigue goes a long way toward productivity. The Volvo ECR305CL is the way to do it. The seat of comfort and command. A quiet, safe space. Ease of operability. And with industry-leading fuel efficiency, Volvo helps you stay relaxed knowing that more of your profits are going into your pocket – not your fuel tank.

Work longer - in comfort

- High-capacity climate control system.
- Class-leading cab leg room and space, along with a wide shoulder position.
- Spring applied, viscous cab mounting: reduced whole body vibration.
- Low internal and external noise: less fatigue.

Operability

- Adjustable consoles make it easy to find the right operating position.
- Simple and easy to operate.
- LCD color monitor is easy to read – even in direct sunlight.
- Easy-lift front windshield – stows securely under the roof line – for plenty of headroom.
- Lower front glass is removable and stores safely inside the cab.

Doing the job safely

- Anti-slip, punched steel steps and platforms offer superior grip and safety.
- Opening roof hatch offers an optimal view during high-reach applications.
- Volvo Care Cab with operator protective structure.
- Rear view camera: increased visibility and safety.

Environmental safety

- Industry-leading fuel efficiency and low noise/emissions.
- Large windows provide excellent visibility to the front, right-hand side and rear.
- 95% recyclable materials used in the machine.
- Lead-free paint is in harmony with our environment.

Volvo: your global, local partner

- Complete solutions since 1927.
- Built on the core values of quality, safety and environmental care.
- Construction equipment, commercial transport, buses, trucks and more.
- Global expertise: development of engines with leading fuel efficiency.





• Plenty of interior foot space and leg room.



• LCD color monitor is bright and easy to read.



• Rear view camera increases safety.

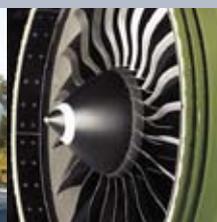


VOLVO'S ENGINE LEADERSHIP SPANS LAND, SEA, SKY AND SPACE

As the world's largest manufacturer of 9-to-18-liter diesel engines, Volvo has unmatched expertise designing power systems that move the world. Volvo engines for Volvo Construction Equipment, Volvo

Aero, Volvo Buses, Volvo Penta and Volvo Trucks define productivity and fuel economy. Our performance has been honed on land, over the sea, across the sky and into space. Leading research and development keeps

all Volvo Group products at the forefront of productivity. So when we say Volvo engines are tested — and proven — you can believe it. Trust in it. It's the real advantage of Volvo Power.



SWING THINGS YOUR WAY.

Make your Volvo Excavator just right for you and your work. To customize your excavator with other optional equipment features to suit your application, contact your local Volvo dealer.

Hydraulic kits

A wide variety of hydraulic kits is available for various boom and arm combinations. Each kit maximizes performance according to the machine's boom and arm length/shape. Get the most out of rotating/tilting attachments, crushers and hammers. Choose between 1 or 2 pump flow for best performance.

Hydraulic quick fit

A Volvo hydraulic quick fit makes changing attachments quick and easy – all from the comfort and safety of the cab. Two different Volvo quick fit types (UQF29, S2) are available to fit new and existing customers' buckets/attachments.

Extra work lights

Extra work lights provide increased visibility, safety and precision, while extending the workday in low light conditions. Features two lights in the front of the machine, one light in the rear area of the cab and one light mounted on the upperstructure.

Wrist control joysticks - proportional control

Low-effort, wrist control joysticks provide smooth, precision control for increased comfort, efficiency and production. Wrist control joysticks with proportional control switches are also available.

Operator seats

Volvo offers a wide variety of ergonomic operator seats designed specifically for comfort and protection. All seats, from various adjustable models to the most advanced air-suspension models, provide excellent support and are individually adjustable to suit operator preferences.

Straight travel pedal

A pedal located by the left foot rest operates both travel motors at the same time, providing convenience when traveling and efficient work control in applications such as pipe laying.

Opening top hatch

Provides increased visibility during high-reach loading operations along with increased cab ventilation.

Dozer blade

A front-end dozer blade increases machine versatility in job applications such as backfilling trenches and site clean up. It can also be used to level the excavator when working on slopes.

Extended greasing bushings

High quality sintered bushings used on work equipment (excluding bucket) helps lengthen greasing intervals to 500 hours. Extends life, reduces wear on the pins/bushings and reduces maintenance costs.



VOLVO OPTIONAL EQUIPMENT



Hydraulic kits
Hydraulic quick fit
Extra work lights

**Wrist control joysticks -
 proportional control**
Operator seats
Straight travel pedal

Opening top hatch
Dozer blade
Extended greasing bushing

NOTE: Some features listed as optional equipment are standard equipment in some markets. Some equipment features listed are not available in all markets. Not a complete list of available optional equipment features. See included specification sheet for a complete listing.

SPECIFICATIONS

Engine

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions and maintain superior performance and fuel efficiency. The EU Stage IIIA compliant engine uses precise, high-pressure fuel injectors, turbo charger and air to air intercooler and electronic engine controls to optimize machine performance.

Engine	Volvo D7E EAE3
Max. power, at	30 r/s (1 800 rpm)
Net (ISO 9249, SAE J1349)	143 kW (195 hp)
Gross (SAE J1995)	153 kW (208 hp)
Max. torque at 1 350 rpm	1 350 Nm
No. of cylinders	6
Displacement	7,1 l
Bore	108 mm
Stroke	130 mm

Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	150 Ah
Alternator	28 V / 80 A

Service refill capacities

Fuel tank	390 l
Hydraulic system, total	370 l
Hydraulic tank	150 l
Engine oil	30 l
Engine coolant	35 l
Swing reduction unit	6,1 l
Travel reduction unit	2 x 6,8 l

Swing system

The swing system uses an axial piston motor, driving a planetary gearbox for maximum torque. An automatic holding brake and anti-rebound valve are standard.

Max. swing speed	10,8 rpm
Max. swing torque	117,6 kNm

Drive

Each track is powered by an automatic two-speed shift travel motor. Track brakes are multi-disc, spring-applied and hydraulically released. The travel motor, brake and planetary gears are well protected within the track frame.

Max. drawbar pull	260 kN
Max. travel speed	3,0/4,5 km/h
Gradeability	35°

Undercarriage

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

Track pads	2 x 48
Link pitch	215,9 mm
Shoe width, triple grouser	600/700/800/850 mm
Shoe width, double grouser HD	600 mm
Bottom rollers	2 x 8
Top rollers	2 x 2

Hydraulic system

The hydraulic system, also known as the "Integrated work mode control" is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm and bucket regeneration provides optimum performance.

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump:

Type: 2 x variable displacement axial piston pumps
Maximum flow: 2 x 263 l/min

Pilot pump:

Type: Gear pump
Maximum flow: 1 x 18 l/min

Hydraulic motors:

Travel: Variable displacement axial piston motor with mechanical brake
Swing: Fixed displacement piston motor

with mechanical brake

Relief valve setting:

Implement	32,4/34,3 MPa
Travel circuit	34,3 MPa
Swing circuit	27,9 MPa
Pilot circuit	3,9 MPa

Hydraulic cylinders:

Mono boom	2
Bore x Stroke	ø140 x 1 511 mm
Arm	1
Bore x Stroke	ø150 x 1 745 mm
Bucket	1
Bore x Stroke	ø140 x 1 140 mm
Dozer Blade	2
Bore x Stroke	ø165 x 385 mm

Cab

Purpose-designed, rounded, short radius Volvo Care Cab with operator protective structure. Audio system with remote control. Cup holders. High-capacity outlets at rear panel. Independently adjustable joystick consoles.

Excellent all around-visibility provided through maximum cab glass, transparent roof hatch and 2 openable sliding door window. The lift-up front windshield can easily be secured at the ceiling and the removable lower front glass can be stored inside the cab. Interior lighting consists of one reading light and one cab light connected with door switch.

The pressurized and filtered cab air is supplied by an 8-vent climate-control system, providing fast defrosting and high cooling and heating performance. Viscous/spring-mounted suspension cushions operator from vibrations.

Deluxe seat with adjustable height, tilt, recline, forward-back settings, retractable seat belt.

Adjustable easy-to-read 16,3 cm (6,4") LCD color monitor provides real time information of machine functions, important diagnostic information and a wide variety of work tool settings. LCD monitor is switchable to rear view camera monitor (option).

Sound Level:

Sound level in cab according to ISO 6396
..... LpA 72 dB(A)

External sound level according to ISO 6395 and EU Directive 2000/14/EC
..... LwA 103 dB(A)

Ground pressure

- **ECR305CL** with 6,2 m boom, 3,05 m arm, 1 166 kg bucket, 8 250 kg counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	33 815 kg	63,7 kPa	3 340 mm
	700 mm	34 460 kg	55,9 kPa	3 440 mm
	800 mm	34 850 kg	49,0 kPa	3 540 mm
	850 mm	35 045 kg	46,1 kPa	3 590 mm
Double grouser	600 mm	34 525 kg	64,7 kPa	3 340 mm

- **ECR305CL** with **dozer blade**, 6,2 m boom, 3,05 m arm, 1 166 kg bucket, 8 250 kg counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	36 325 kg	68,6 kPa	3 340 mm
Double grouser	600 mm	37 035 kg	69,6 kPa	3 340 mm

Max. permitted buckets

Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.

2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.
3. Bucket widths are less than bucket's tip radius.

- **ECR305CL** with **direct fit bucket**, 8 250 kg counterweight

Description	Max. bucket volume / weight	6,2 m boom		
		2,55 m HD arm	3,05 m GP arm	3,7 m GP arm
GP bucket 1,5 t/m ³	l / kg	1 950 / 1 650	1 775 / 1 500	1 575 / 1 325
GP bucket 1,8 t/m ³	l / kg	1 725 / 1 475	1 575 / 1 325	1 375 / 1 200

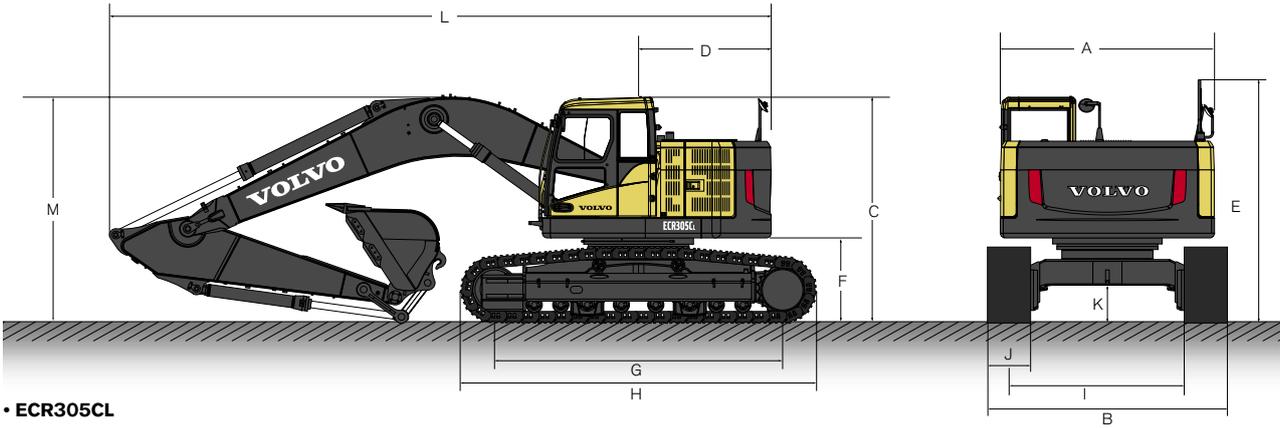
- **ECR305CL** with **S quick fit bucket**, 8 250 kg counterweight

Description	Max. bucket volume / weight	5,7 m boom		
		2,55 m HD arm	3,05 m GP arm	3,7 m GP arm
GP bucket 1,5 t/m ³	l / kg	1 825 / 1 550	1 650 / 1 400	1 475 / 1 250
GP bucket 1,8 t/m ³	l / kg	1 625 / 1 375	1 475 / 1 250	1 300 / 1 100

- **ECR305CL** with **U quick fit bucket**, 8 250 kg counterweight

Description	Max. bucket volume / weight	5,7 m boom		
		2,55 m HD arm	3,05 m GP arm	3,7 m GP arm
GP bucket 1,5 t/m ³	l / kg	1 725 / 1 475	1 575 / 1 325	1 375 / 1 175
GP bucket 1,8 t/m ³	l / kg	1 550 / 1 300	1 400 / 1 175	1 225 / 1 025

Dimensions

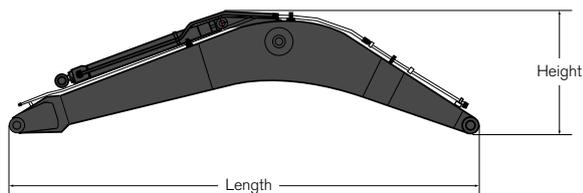


• ECR305CL

Description	Unit	6,2 m boom		
		2,55 m arm	3,05 m arm	3,7 m arm
A. Overall width of upper structure	mm	2 990	2 990	2 990
B. Overall width	mm	3 340	3 340	3 340
C. Overall height of cab	mm	3 180	3 180	3 180
D. Tail swing radius	mm	1 865	1 865	1 865
E. Overall height	mm	3 425	3 425	3 425
F. Counterweight clearance *	mm	1 145	1 145	1 145
G. Tumbler length	mm	4 020	4 020	4 020
H. Track length	mm	4 946	4 946	4 946
I. Track gauge	mm	2 740	2 740	2 740
J. Shoe width	mm	600	600	600
K. Min. ground clearance *	mm	500	500	500
L. Overall length	mm	9 950	9 865	9 890
M. Overall height of boom	mm	3 445	3 305	3 550

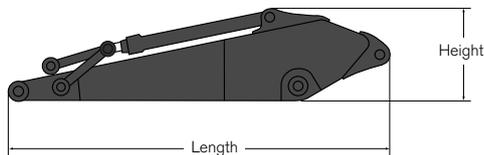
* Without shoe grouser

• Boom



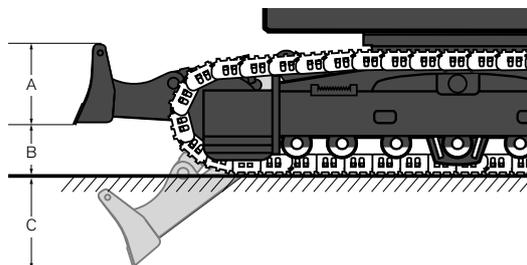
Description	Unit	6,2 m
Length	mm	6 430
Height	mm	1 680
Width	mm	770
Weight	kg	2 480

• Arm



Description	Unit	2,55 m	3,05 m	3,7 m
Length	mm	3 710	4 150	4 900
Height	mm	1 010	1 010	1 050
Width	mm	545	545	545
Weight	kg	1 475	1 540	1 680

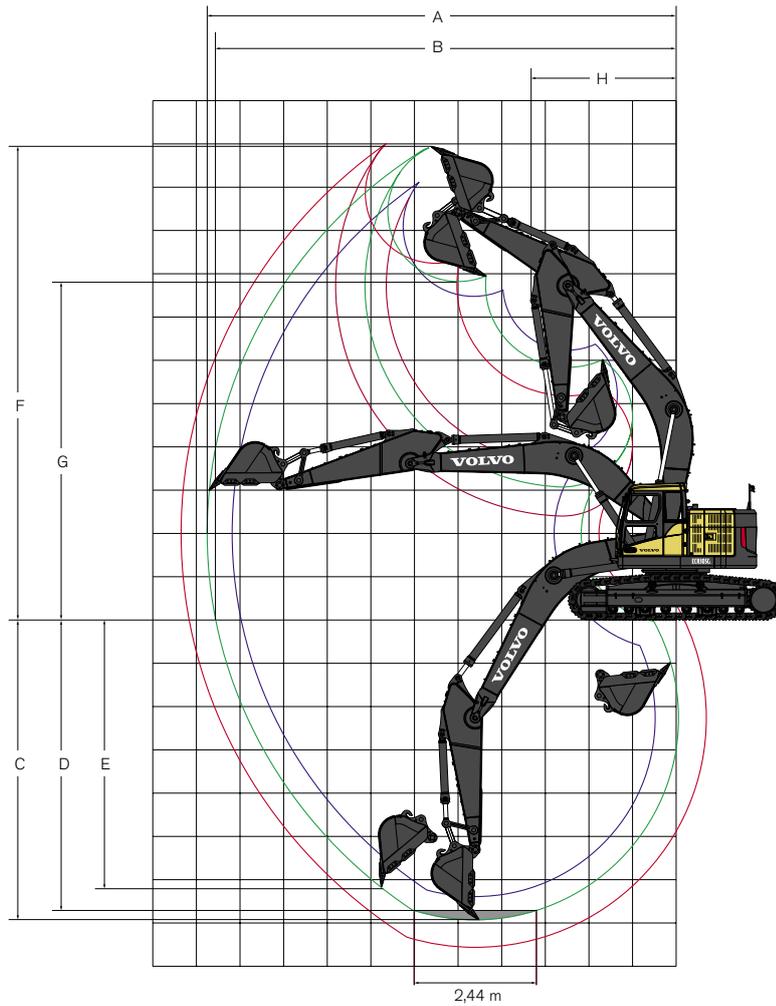
• Front dozer blade



Description	Unit	Measurement
A. Height	mm	728
Width	mm	3 340
Weight	kg	1 496
B. Lift height	mm	820
C. Digging depth	mm	495

* Only available with 600 mm width shoe

Working ranges & digging force



• ECR305CL

Machine with direct fit bucket	Unit	6,2 m boom		
		2,55 m arm	3,05 m arm	3,7 m arm
A. Max. digging reach	mm	10 110	10 635	11 240
B. Max. digging reach on ground	mm	9 905	10 445	11 065
C. Max. digging depth	mm	6 460	6 960	7 610
D. Max. digging depth (2,44 m level)	mm	6 260	6 795	7 465
E. Max. vertical wall digging depth	mm	5 600	6 130	6 755
F. Max. cutting height	mm	10 455	10 915	11 285
G. Max. dumping height	mm	7 435	7 855	8 230
H. Min. front swing radius	mm	3 285	3 365	3 340

Digging forces with direct fit bucket		Unit	6,2 m boom		
			2,55 m arm	3,05 m arm	3,7 m arm
Bucket radius		mm	1 600	1 600	1 600
Breakout force - bucket (Normal/Power boost)	SAE J1179	kN	163 / 173	163 / 173	163 / 173
	ISO 6015	kN	187 / 198	187 / 198	187 / 198
Tearout force - arm (Normal/Power boost)	SAE J1179	kN	150 / 159	127 / 135	112 / 119
	ISO 6015	kN	158 / 167	132 / 140	115 / 122
Rotation angle, bucket		deg.	179	179	179

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 fit from the following values.

• ECR305CL

 Across under-carriage  Along under-carriage	Lifting hook related to ground level	1,5 m		3,0 m		4,5 m		6,0 m		7,5 m		9,0 m		Max. reach			
																Max. m	
Boom 6,2 m + Arm 2,55 m + Shoe 600 mm + Counterweight 8 250 kg	9,0 m kg														*8 640	*8 640	4,72
	7,5 m kg							*7 880	*7 880						*7 950	7 470	6,44
	6,0 m kg					*9 090	*9 090	*8 130	*8 130						*7 800	5 770	7,49
	4,5 m kg					*11 320	*11 320	*9 090	8 030	*8 040	5 670				7 600	4 960	8,13
	3,0 m kg					*14 070	11 640	*10 330	7 630	8 480	5 490				7 030	4 560	8,45
	1,5 m kg					*15 870	11 020	*11 380	7 300	8 290	5 320				6 870	4 430	8,50
	0,0 m kg					*16 210	10 810	11 430	7 100	8 170	5 200				7 070	4 540	8,28
	-1,5 m kg			*11 520	*11 520	*15 560	10 810	11 370	7 040	8 140	5 180				7 750	4 950	7,77
	-3,0 m kg			*18 380	*18 380	*13 970	10 960	*10 630	7 130						*8 840	5 920	6,89
-4,5 m kg					*10 780	*10 780								*8 590	8 460	5,47	
Boom 6,2 m + Arm 3,05 m + Shoe 600 mm + Counterweight 8 250 kg	9,0 m kg														*6 440	*6 440	5,62
	7,5 m kg							*7 110	*7 110						*5 720	*5 720	7,13
	6,0 m kg							*7 500	*7 500	*7 200	5 860				*5 470	5 140	8,08
	4,5 m kg			*14 760	*14 760	*10 320	*10 320	*8 510	8 140	*7 600	5 730				*5 460	4 490	8,68
	3,0 m kg					*13 120	11 890	*9 820	7 720	*8 240	5 530				*5 630	4 160	8,98
	1,5 m kg					*15 310	11 150	*11 020	7 350	8 310	5 330	6 310	4 070		*6 010	4 050	9,03
	0,0 m kg					*16 150	10 810	11 440	7 100	8 150	5 190				6 430	4 130	8,82
	-1,5 m kg			*10 590	*10 590	*15 880	10 740	11 320	7 000	8 090	5 130				6 950	4 450	8,34
	-3,0 m kg			*17 570	*17 570	*14 660	10 830	*11 080	7 040	8 160	5 200				8 110	5 170	7,53
-4,5 m kg			*16 210	*16 210	*12 110	11 110	*8 840	7 260						*8 190	6 850	6,26	
Boom 6,2 m + Arm 3,7 m + Shoe 600 mm + Counterweight 8 250 kg	9,0 m kg							*6 250	*6 250						*4 970	*4 970	6,56
	7,5 m kg									*5 700	*5 700				*4 510	*4 510	7,89
	6,0 m kg							*6 720	*6 720	*6 580	6 040				*4 340	*4 340	8,76
	4,5 m kg					*9 040	*9 040	*7 780	*7 780	*7 090	5 880	*5 700	4 360		*4 320	4 100	9,31
	3,0 m kg					*11 930	*11 930	*9 190	7 940	*7 820	5 670	6 520	4 260		*4 440	3 830	9,60
	1,5 m kg					*14 530	11 500	*10 570	7 530	8 430	5 450	6 390	4 150		*4 710	3 730	9,64
	0,0 m kg			*6 250	*6 250	*15 960	11 010	*11 550	7 230	8 240	5 270	6 300	4 060		*5 150	3 780	9,45
	-1,5 m kg	*6 250	*6 250	*10 020	*10 020	*16 210	10 820	11 400	7 070	8 130	5 170	*5 950	4 030		*5 910	4 030	9,00
	-3,0 m kg	*10 480	*10 480	*15 100	*15 100	*15 460	10 840	11 370	7 040	8 120	5 160				*7 100	4 550	8,26
-4,5 m kg			*18 840	*18 840	*13 560	11 020	*10 150	7 160						*7 910	5 680	7,12	
-6,0 m kg					*9 540	*9 540								*8 060	*8 060	5,15	
Boom 6,2 m + Arm 2,55 m + Shoe 600 mm + Counterweight 8 250 kg + Dozer blade	9,0 m kg														*8 640	*8 640	4,72
	7,5 m kg							*7 880	*7 880						*7 950	*7 950	6,44
	6,0 m kg					*9 090	*9 090	*8 130	*8 130						*7 800	6 230	7,49
	4,5 m kg					*11 320	*11 320	*9 090	8 640	*8 040	6 130				*7 840	5 380	8,13
	3,0 m kg					*14 070	12 560	*10 330	8 240	*8 590	5 950				*7 970	4 960	8,45
	1,5 m kg					*15 870	11 940	*11 380	7 910	*9 130	5 780				*8 170	4 820	8,50
	0,0 m kg					*16 210	11 720	*11 900	7 710	*9 390	5 660				*8 420	4 940	8,28
	-1,5 m kg			*11 520	*11 520	*15 560	11 720	*11 730	7 660	*9 110	5 640				*8 670	5 390	7,77
	-3,0 m kg			*18 380	*18 380	*13 970	11 880	*10 630	7 740						*8 840	6 430	6,89
-4,5 m kg					*10 780	*10 780								*8 590	*8 590	5,47	
Boom 6,2 m + Arm 3,05 m + Shoe 600 mm + Counterweight 8 250 kg + Dozer blade	9,0 m kg														*6 440	*6 440	5,62
	7,5 m kg							*7 110	*7 110						*5 720	*5 720	7,13
	6,0 m kg							*7 500	*7 500	*7 200	6 320				*5 470	*5 470	8,08
	4,5 m kg			*14 760	*14 760	*10 320	*10 320	*8 510	*8 510	*7 600	6 190				*5 460	4 870	8,68
	3,0 m kg					*13 120	12 810	*9 820	8 330	*8 240	5 990				*5 630	4 530	8,98
	1,5 m kg					*15 310	12 070	*11 020	7 960	*8 870	5 790	*6 380	4 440		*6 010	4 410	9,03
	0,0 m kg					*16 150	11 720	*11 750	7 710	*9 280	5 650				*6 670	4 500	8,82
	-1,5 m kg			*10 590	*10 590	*15 880	11 650	*11 820	7 610	*9 250	5 590				*7 810	4 850	8,34
	-3,0 m kg			*17 570	*17 570	*14 660	11 750	*11 080	7 650	*8 310	5 650				*8 240	5 620	7,53
-4,5 m kg			*16 210	*16 210	*12 110	12 020	*8 840	7 870						*8 190	7 420	6,26	
Boom 6,2 m + Arm 3,7 m + Shoe 600 mm + Counterweight 8 250 kg + Dozer blade	9,0 m kg							*6 250	*6 250						*4 970	*4 970	6,56
	7,5 m kg									*5 700	*5 700				*4 510	*4 510	7,89
	6,0 m kg							*6 720	*6 720	*6 580	6 500				*4 340	*4 340	8,76
	4,5 m kg					*9 040	*9 040	*7 780	*7 780	*7 090	6 340	*5 700	4 730		*4 320	*4 320	9,31
	3,0 m kg					*11 930	*11 930	*9 190	8 550	*7 820	6 120	*7 030	4 630		*4 440	4 170	9,60
	1,5 m kg					*14 530	12 410	*10 570	8 140	*8 590	5 900	*7 430	4 520		*4 710	4 070	9,64
	0,0 m kg			*6 250	*6 250	*15 960	11 920	*11 550	7 840	*9 160	5 730	*7 670	4 430		*5 150	4 130	9,45
	-1,5 m kg	*6 250	*6 250	*10 020	*10 020	*16 210	11 740	*11 930	7 680	*9 370	5 630	*5 950	4 400		*5 910	4 390	9,00
	-3,0 m kg	*10 480	*10 480	*15 100	*15 100	*15 460	11 750	*11 570	7 650	*8 970	5 620				*7 240	4 960	8,26
-4,5 m kg			*18 840	*18 840	*13 560	11 930	*10 150	7 770						*7 910	6 170	7,12	
-6,0 m kg					*9 540	*9 540								*8 060	*8 060	5,15	

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

STANDARD EQUIPMENT

Engine

Turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage IIIA requirements
Air filter with indicator
Air intake heater
Electric engine shut-off
Fuel filter and water separator
Fuel filler pump: 50 l/min, with automatic shut-off
Alternator, 80 A

Electric/Electronic control system

Contronics:

- Advanced mode control system
- Self-diagnostic system

Machine status indication

Engine speed sensing power control

Automatic idling system

One-touch power boost

Safety stop/start function

Adjustable LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen lights:

- Frame-mounted 1
- Boom-mounted 2

Batteries, 2 x 12 V / 150 Ah

Start motor, 24 V / 5,5 kW

Hydraulic system

Hose rupture valve: boom

Overload warning device

Automatic sensing hydraulic system:

- Summation system
- Boom priority
- Arm priority
- Swing priority

Boom and arm regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Multi-stage filtering system

Boom cylinders

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Long life hydraulic oil, ISO VG 46

Superstructure

Access way with handrail

Full height counterweight 8 250 kg

Tool storage area

Service walkway with anti-slip grating

Undercover (4,5 mm)

Cab and interior

Fabric seat with heater

Control joysticks with 4 switches each

Travel pedals with hand levers

Heater & air-conditioner, automatic

Hydraulic dampening cab mounts

Adjustable operator seat and joystick control console

AM/FM stereo with CD player and MP3

input; includes antenna in glass

Hydraulic safety lock lever

Rear view camera

Cab, all-weather sound suppressed, includes:

- Cup holders
- Door locks
- Floor mat
- Horn
- Large storage area
- Pull-up type front window

- Removable lower windshield

- Seat belt, retractable type

- Safety glass, light tinted

- Rain shield

- Sun screen, front, roof, rear

- Windshield wiper with washer and intermittent feature

Anti-vandalism kit assembly preparation

Master key

Undercarriage

Hydraulic track adjusters

Greased and sealed track link

Track guard

Undercover (heavy duty 10 mm)

Track shoes

Track shoes, triple grouser

Digging equipment

Boom: 6,2 m

Arm: 3,05 m

Service

Tool kit, daily maintenance

CareTrack

OPTIONAL EQUIPMENT

Engine

Block heater: 240V

Diesel coolant heater, 10 kW, programmable

Water separator with heater

Reversible cooling fan

Electric

Extra lights:

- Cab-mounted 2
- Upper structure-mounted 1

Extra lights (cab front only)

- Cab-mounted 1

Anti-theft system

Rotating warning beacon

Travel alarm

Hydraulic system

Hose rupture valve: arm

Hydraulic piping:

- Work tool management system (up to 20 programmable memories)
- Hammer & shear, 1 and 2 pump flow
- Hammer & shear: variable flow and pressure pre-setting

- Additional return filter

- Slope & rotator

- Grapple

- Oil leak (drain) line

- Quick fit piping

Volvo hydraulic quick fit, S2, U size

Long life hydraulic oil, ISO VG 32

Long life hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32

Hydraulic oil, biodegradable 46

Boom float function

Pilot control pattern change

Cab and interior

Fabric seat

Fabric seat with heater and air suspension

Control joystick with proportional control

Cab-mounted falling object guard (FOG)

Cab-mounted falling object protective structure (FOPS)

Protective screen for front window

Anti-vandalism kit

Specific key

Smoker kit (ashtray and lighter)

Straight travel pedal

Opening top hatch

Undercarriage

Full track guard

Dozer blade

Track shoes

Track shoes 600/700/800/850 mm, triple grouser

Double grouser 600 mm shoe

Digging equipment

Arm: 2,55 m, 3,7 m

Linkage with lifting eye

Extended greasing bushing

Service

Tool kit

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.



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Ref. No. 21 A 100 5311 English (Global)
Printed in Sweden 2008.12-1,0 EXC
Volvo, Seoul