

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 175 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 Aero



Volvo Financial Services

DESIGNED FOR EFFICIENCY.

Introducing Volvo's powerful, fuel efficient and environmentally responsible D-Series crawler excavators. Featuring Volvo's unique, award-winning ECO mode, the Tier 4 Interim engine and improved hydraulics, these machines deliver reduced fuel consumption and cycle times resulting in fuel efficiency improvements as well as increased digging performance.

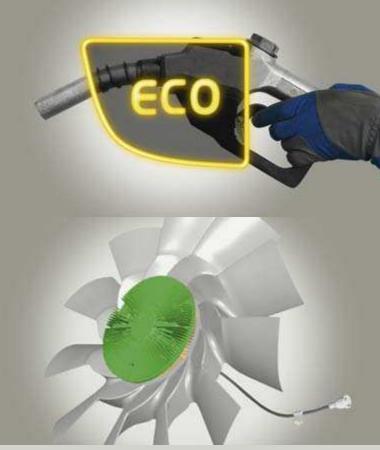
Volvo Tier 4 Interim engine

Volvo's new fuel efficient engine features an active-type Diesel Particulate Filter (DPF) and a regeneration process to lower emissions. The unique method does not interrupt operation, performance or productivity.

ECO mode

Volvo's unique, award-winning ECO mode features sophisticated electronic pump control technology which contributes to up to 5% of the machine's total improved fuel efficiency without any loss of performance in most operating conditions.





Work modes

Operators can select the best work mode for the task at hand to ensure optimum performance and fuel efficiency. Choose the correct mode according to your working conditions for added versatility and increased performance.

Proportional controlled viscous-clutch

Optimized fan speed control from the new proportional controlled viscous-clutch for reduced fuel consumption.

CONTROL IT. FASTER.

Volvo gives you more. More power, more capacity and more weight – command the new D-Series crawler excavators to handle your workload and enjoy increased total performance from our improved hydraulic system. Trust Volvo to put you in control.



Controllability

Smart hydraulic system enables smooth and highly responsive combined operation and travel. The system automatically prioritizes oil flow to the boom, arm or slew function according to requirements, resulting in faster cycle times.

Digging power and speed

Enhanced digging performance and faster cycle times, particularly when working with hard materials, from increased engine power and improved hydraulics.

Lifting capacity

Excellent lifting capacity and stability allows the machine to lift heavier objects ensuring greater productivity.



Grading

Superb grading performance from improved hydraulic system. Effortlessly smooth surfaces with harmonized flow control and well-matched attachment speed.

Attachment Management System

Allows storage of up to 18 different attachment presets and permits hydraulic flow (standard) and pressure (optional) to be adjusted to enable the use of various attachments for increased versatility. Operators can change attachments quickly without manual setup.

CONTROL IN COMFORT.



Step inside Volvo's care cab and enjoy excellent all-round visibility. In this safe and comfortable environment operators will feel efficient and in control all day long. See more and do more with Volvo.

Rubber/Silicone oil viscous mounts

Spring is added to the mounts to improve shock absorption and reduce vibration. Increased operator comfort means more productivity.

I-ECU monitor

Large color monitor provides excellent clarity in all light conditions. Using a control panel the operator and service technician can make quick visual and diagnostic checks, increasing uptime and productivity. The monitor also displays camera images – up to four at a time.

ROPS

The cab features Roll Over Protective Structure (ROPS) which meets the ISO 12117-2 safety standard for increased peace of mind in the unlikely event of machine roll over.



Smart consoles and switches

High quality consoles and conveniently located switches for easy access and improved operator efficiency.

Automatic climate control system

Operators can set their ideal temperature with Volvo's powerful climate control system. Industry leading air circulation and defrosting capability is delivered with 14 well-spaced vents for increased comfort and productivity.

Rear view camera

Rear view camera provides visibility via the color I-ECU monitor for increased safety. The camera sits on top of the counterweight to project the area behind the machine.

SERVICEABILITY. SIMPLIFIED.

With built in serviceability the new Volvo D-Series crawler excavators guarantee you more uptime. Easy access to grouped service points allows for fast and effortless maintenance and service checks. Achieve more with Volvo.





Serviceability

Grouped filters and accessible radiators are quick to access from ground level via large, wide compartment doors – increasing safety. Easy access for maintenance means regular checks get done faster, giving you more uptime.

Grouped filters

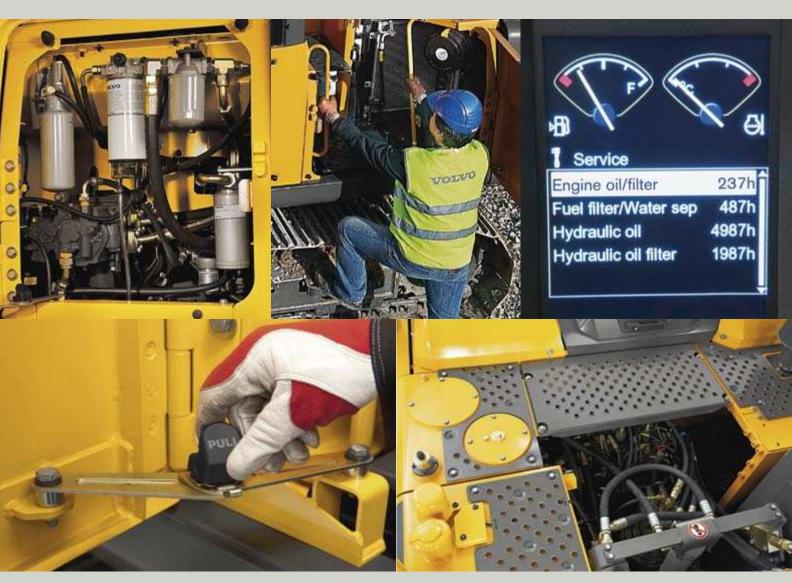
Grouped, ground level filters in the pump compartment are accessible via one door for faster servicing and more machine uptime. This reduces the need for conducting maintenance at height, increasing safety.

Rear access (EC140D, EC160D)

Rear entry behind the cab grants safe and convenient access to the main hydraulic components and engine. Newly designed stairway allows for access to the top of the superstructure.

Service intervals on I-ECU

A service mode is incorporated into the I-ECU color monitor to enable diagnostic checks. Four separate service intervals – the engine oil/filter, fuel filter/water separator, hydraulic oil and hydraulic oil filter – are displayed on the monitor.



Stays and locking devices

Volvo's automatic stays prevent doors being blown closed for added safety, they can easily be manually released. Automatic locks ensure the doors close properly and enhance appearance.

Anti-slip plates

Added operator and service mechanic safety from punched anti-slip plate which provides superb grip, especially in wet or icy conditions.

TAKE A LOOK AROUND.



Digging power and speed

Perform at a higher level with increased digging power and faster cycle times for greater productivity.



Increase versatility and stability with a dozer blade.



CareTrack

Volvo's telematics system guides machine owners towards optimized productivity and

their next service - remotely.



Enjoy all-round visibility, easy to access controls and excellent air ventilation in Volvo's spacious

Added operator and service mechanic safety from punched anti-slip plate which provides superb grip, especially in wet or icy conditions.

Grouped filters

Grouped, ground level filters in the pump compartment enable faster servicing and more machine uptime.

Rear access (140D/160D)

Rear entry behind the cab grants safe and convenient access to the main hydraulic components and engine.



Serviceability

Premium serviceability from large, wide opening doors featuring automatic stays and locking devices.

Powerful engine

Volvo's efficient Tier 4 Interim engine gives you more power while consuming less fuel for low emission levels.

STRENGTH TO SUPPORT YOU AND YOUR BUSINESS.

The day you receive your new Volvo Excavator is just the start of your working relationship with Volvo. From service and maintenance to our CareTrack telematics system – Volvo has a comprehensive and sophisticated aftermarket portfolio to continuously add value to your business.



CareTrack - Volvo's telematics system works with our exclusive machine tracking info system, MATRIS, using guided diagnostics to track and analyze machines remotely - minimizing costs and maximizing uptime.

Customer Support Agreements - Gives you peace of mind by reducing total ownership costs, maximizing uptime, and distributing maintenance and major repair costs.

Attachments - Providing customers with a wide variety of attachments keep your machine working and open up new job opportunities.



Volvo designed and built your machines, so no-one knows how to keep them working in top condition more than us. When it comes to your machine, our Volvo trained technicians are the experts.

Our technicians work with industry leading diagnostic tools and techniques, using only Genuine Volvo Parts to deliver the highest levels of quality and service. Talk to your Volvo dealer about how genuine Volvo services can best provide the service and maintenance plan that is the right fit for you and your business.

State-of-the-art machines require state-of-the-art support and your Volvo dealer can provide a catalogue of services designed to get the most out of your machine, helping you maximise uptime, productivity and residual value. Your Volvo dealer can provide a number of sophisticated support offers, including:

Service plans ranging from routine wear inspections, through to comprehensive maintenance and repair agreements.

Analysis and diagnostics to help you understand how your machine is running, highlight potential maintenance issues and identify where performance can be improved.

Eco Operator training courses can help your operators work towards a safer, more productive and fuel efficient performance.

VOLVO EC140D, EC160D, EC220D IN DETAIL.

Engine

The latest generation, Volvo engine Tier 4i (Stage IIIB) emissions compliant diesel engine fully meets the demands of the latest, emissions regulations. The engine uses precise, high-pressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance.

Air Filter: 3-stage with pre-cleaner.

Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

EC140D		
Engine	Volvo	D4H
Max power at	r/s / r/min	33,3 / 2,000
Net, ISO 9249/SAE J1349	kW / hp	84 / 113
Gross, ISO 14396/SAE J1995	kW / hp	85 / 114
Max torque at	Nm / r/min	535 / 1,500
	lb. ft	395
No. of cylinders		4
Displacement	∣ / cu. in	4,036 / 246
Bore	mm / in	101 / 3.98
Stroke	mm / in	126 / 4.96

EC160D		
Engine	Volvo	D4H
Max power at	r/s / r/min	33,3 / 2,000
Net, ISO 9249/SAE J1349	kW / hp	104 / 139
Gross, ISO 14396/SAE J1995	kW / hp	105 / 141
Max torque at	Nm / r/min	609 / 1,600
	lb. ft	449
No. of cylinders		4
Displacement	∣ / cu. in	4,036 / 246
Bore	mm / in	101 / 3.98
Stroke	mm / in	126 / 4.96

EC220D		
Engine	Volvo	D6H
Max power at	r/s / r/min	30 / 1,800
Net, ISO 9249/SAE J1349	kW / hp	128 / 172
Gross, ISO 14396/SAE J1995	kW / hp	129 / 173
Max torque at	Nm / r/min	849 / 1,350
	lb. ft	626
No. of cylinders		6
Displacement	∣ / cu. in	5,7 / 348
Bore	mm / in	98 / 3.86
Stroke	mm / in	126 / 4.96

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. Contronics provides advanced monitoring of machine functions and important diagnostic information on the I-ECU.

		EC140D	EC160D	EC220D
Voltage	V	2	8	24
Batteries	V	2 x	12	2 x 12
Battery capacity	Ah	10	00	140
Alternator	V / Ah	28 /	110	28 / 110

Swing system

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

Max. slew speed	r/min	12.5	12.5	12.1
Max. slew torque	kNm	38,8	51,7	76,7
	lbf. ft	28.620	38.130	56.570

Drive

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

Max. drawbar pull	kN	118	145	183
	lb	26,530	32,600	41,150
Max. travel speed	km/h	3,1 / 5,5	3,1 / 5,6	3,3 / 5,5
	mph	1.9 / 3.4	1.9 / 3.5	2.1 / 3.4
Gradeability	0	35	35	35

Undercarriage

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

Track pads		2 x 46	2 x 44	2 x 49
Link pitch	mm	171	190	190
	in	6.8	7.5	7.5
Shoe width, triple grouser	mm	500/600/	700 / 750 /	/800/900
	in	20 / 24	/28/30/	32 / 36
Shoe width, triple grouser (HD)	mm	600 / 700	-	600
	in	24 / 28	-	24
Shoe width, double grouser	mm	-	-	700
	in	-	-	28
Shoe width, rubber shoe	mm	500	-	-
	in	20	-	-
Bottom rollers		2 x 7	2 x 7	2 x 8
Top rollers		2 x 1	2 x 2	2 x 2

VOLVO EC140D, EC160D, EC220D IN DETAIL.

Hydraulic system

The hydraulic system, also known as the "Automatic Sensing Work Mode" is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm, bucket and swing priority along with boom and arm 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.

Hydraulic 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.

		EC140D	EC160D	EC220D		
Main pump, Type 2 x variable displacement axial piston pumps						
Maximum flow	l/min	2 x 124	2 x 152	2 x 207		
	gpm	2 x 33	2 x 40	2 x 55		
Pilot pump, Type Gear	r pump					
Maximum flow	l/min	1 x 20	1 x 20	1 x 18		
	gpm	1 x 5	1 x 5	1 x 5		

	EC140D	EC160D	EC220D
nent ax	ial piston mo	tor with mech	anical brake
nt axial	piston motor	with mechan	ical brake
MPa	32,4 / 34,3	34,3 / 36,3	34,3 / 36,2
psi	4,690 / 4,980	4,980 / 5,260	4,980 / 5,260
MPa	34,3	34,3	34,3
psi	4,980	4,980	4,980
MPa	24,5	26,5	27,9
psi	3,560	3,840	4,050
MPa	3,9	3,9	3,9
psi	570	570	570
	MPa psi MPa psi MPa psi MPa MPa MPa psi MPa	ment axial piston motor MPa 32,4 / 34,3 psi 4,690 / 4,980 MPa 34,3 psi 4,980 MPa 24,5 psi 3,560 MPa 3,9	ment axial piston motor with mechant axial piston piston axial pi

Hydraulic cylinders				
		EC140D	EC160D	EC220D
Mono boom		2	2	2
Bore x Stroke	ø x mm	105 x 980	115 x 1 165	125 x 1 235
	ø x in	4.1 x 38.6	4.5 x 45.9	4.9 x 48.6
2 piece boom		1	-	1
Bore x Stroke	ø x mm	160 x 765	-	160 x 1 070
	ø x in	6.3 x 30.1	-	6.3 x 42.1
Arm		1	-	1
Bore x Stroke	ø x mm	120 x 1 345	-	135 x 1 540
	ø x in	4.7 x 53.0	-	5.3 x 60.6
Bucket		1	1	1
Bore x Stroke	ø x mm	100 x 865	105 x 1 000	120 x 1 065
	ø x in	3.9 x 34.1	4.1 x 39.4	4.7 x 41.9
Bucket for LR boom		-	-	1
Bore x Stroke	ø x mm	-	-	100 x 865
	ø x in	-	-	3.9 x 34.1
Service refill capacitie	es			
Fuel tank	T	258	258	335
	gal	68	68	89
Hydraulic system, total	1	250	255	300
	gal	66	67	79
Hydraulic tank	1	91	111	150
	gal	24	29	40
Engine oil	1	16	16	32
	gal	4	4	8
Engine coolant	1	28	30	41
	gal	7	8	11
Slew reduction unit	1	3.9	2,6	6
	gal	1	0.7	2
Travel reduction unit	- 1	2 x 2,2	2 x 5,8	2 x 5,8
	gal	2 x 1	2 x 2.0	2 x 2
Cab				

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door. Integrated air-conditioning and heating system:

The pressurized and filtered cab air is supplied by an

automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

Sound level				
		EC140D	EC160D	EC220D
Sound level in cab acco	rding to	ISO 6396		
LwA - Std. / High Capacity Cooling	dB(A)	69 / 70	69 / 70	69 / 70
External sound level ac				
EU Noise Directive (200	00/14/EC	C) and 474-1	:2006 +A1:2	2009
LwA - Std. / High Capacity Cooling	dB(A)	100 / 101	101 / 102	102 /103

SPECIFICATIONS.

MAXIMUM PE	RMITTED	BUCKETS
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EC140DL with 2 100 kg (4,630 lb) count	torwoight with	Direct Eit								
Boom. Direct Fit	terweight with	Direct Fit	4.6 m (15' 1")	Mono-Boom						
Arm	2,1 m (6' 11")	2,5 m		3.0 m ((9' 10")				
Max. bucket	liter	vd ³	liter	vd ³	liter	vd ³				
GP bucket 1,5 t/m ³ (2,530 lb/yd ³)	875	1.14	800	1.05	700	0.92				
GP bucket 1,8 t/m ³ (3,030 lb/yd ³)	775	1.01	700	0.92	600	0.78				
HD bucket 1,8 t/m³ (3,030 lb/yd³)	750	0.98	675	0.88	575	0.75				
HD bucket 2,0 t/m ³ (3,370 lb/yd ³)	700	0.92	625	0.82	550	0.72				
EC140DL with 2 100 kg (4,630 lb) count	terweight with	Quick Coupler								
Boom, Quick Coupler			4.6 m (15' 1")	Mono-Boom						
Arm	2,1 m (6' 11")	2,5 m	(8' 2")	3,0 m ((9' 10")				
Max. bucket	liter	yd ³	liter	yd ³	liter	yd ³				
GP bucket 1,5 t/m ³ (2,530 lb/yd ³)	800	1.05	725	0.95	600	0.78				
GP bucket 1,8 t/m³ (3,030 lb/yd³)	700	0.92	625	0.82	550	0.72				
HD bucket 1,8 t/m ³ (3,030 lb/yd ³)	675 625	0.88 0.82	600	0.78 0.72	500 475	0.65				
HD bucket 2,0 t/m ³ (3,370 lb/yd ³)			550	0.72	475	0.62				
EC140DL with 2 450 kg (5,400 lb) coun	terweight with	Direct Fit								
Boom, Direct Fit	0.1	01.4411\	4.6 m (15' 1")		0.0	(01.4011)				
Arm	2,1 m (b' 11") yd ³	2,5 m ((9' 10")				
Max. bucket GP bucket 1,5 t/m ³ (2,530 lb/yd ³)	liter 950	1.24	liter 800	yd ³ 1.05	liter 700	yd ³ 0.92				
GP bucket 1,8 t/m³ (3,030 lb/yd³)	825	1.08	700	0.92	600	0.78				
HD bucket 1,8 t/m ³ (3,030 lb/yd ³)	800	1.05	675	0.88	575	0.75				
HD bucket 2,0 t/m³ (3,370 lb/yd³)	750	0.98	625	0.82	550	0.72				
•						_				
EC140DL with 2 450 kg (5,400 lb) coun	terweight Quic	k Coupler	4.6 m (15' 1")	Mana-Room						
Boom, Quick Coupler Arm	2,1 m (S' 11")	2,5 m		30 m ((9' 10")				
Max. bucket	liter	vd ³	liter	yd ³	liter	yd ³				
GP bucket 1,5 t/m ³ (2,530 lb/yd ³)	875	1.14	725	0.95	625	0.82				
GP bucket 1,8 t/m ³ (3,030 lb/yd ³)	775	1.01	650	0.85	550	0.72				
HD bucket 1,8 t/m ³ (3,030 lb/yd ³)	725	0.95	600	0.78	525	0.69				
HD bucket 2,0 t/m ³ (3,370 lb/yd ³)	675	0.88	575	0.75	475	0.62				
DD DUCKEL 2,0 1/11 (3,3/0 lb/ya-) 0/0 0.88 0/0 0.75 4/0 0.62										
EC160DL with 3 200 kg (7 060 lb) count	terweight with	Direct Eit								
EC160DL with 3 200 kg (7,060 lb) count	terweight with	Direct Fit	52 m (17' 1")						
Boom, Direct Fit			5,2 m (2,6 m (3.0 m (9' 10")				
	terweight with 2,3 m (liter	(7' 7")	5,2 m (2,6 m (liter	(8' 6")	3,0 m (liter	(9' 10") yd ³				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³)	2,3 m (liter 1 125	(7' 7") yd³ 1.47	2,6 m (liter 1 000	(8' 6") yd³ 1.31	liter 875	yd ³ 1.14				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000	(7' 7") yd³ 1.47 1.31	2,6 m 0 liter 1 000 900	(8' 6") yd³ 1.31 1.18	liter 875 775	yd³ 1.14 1.01				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000 950	(7' 7") yd ³ 1.47 1.31 1.24	2,6 m 0 liter 1 000 900 850	(8' 6") yd ³ 1.31 1.18 1.11	liter 875 775 750	yd ³ 1.14 1.01 0.98				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000	(7' 7") yd³ 1.47 1.31	2,6 m 0 liter 1 000 900	(8' 6") yd³ 1.31 1.18	liter 875 775	yd³ 1.14 1.01				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count	2,3 m (liter 1 125 1 000 950 900	(7' 7") yd³ 1.47 1.31 1.24 1.18	2,6 m 0 liter 1 000 900 850 800	yd ³ 1.31 1.18 1.11 1.05	liter 875 775 750	yd ³ 1.14 1.01 0.98				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler	2,3 m (liter 1 125 1 000 950 900 terweight with	(7' 7") yd ³ 1.47 1.31 1.24 1.18 Quick Coupler	2,6 m (liter 1 000 900 850 800	yd ³ 1.31 1.18 1.11 1.05	liter 875 775 750 700	yd ³ 1.14 1.01 0.98 0.92				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm	2,3 m (liter 1 125 1 000 950 900 terweight with	(7' 7") yd ³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7")	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (yd ³ 1.31 1.18 1.11 1.05	liter 875 775 750 700	yd ³ 1.14 1.01 0.98 0.92				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket	2,3 m (liter 1 125 1 000 950 900 terweight with (2,3 m ((7' 7") yd ³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd ³	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m ((8' 6") yd ³ 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd ³	liter 875 775 750 700 3,0 m (yd ³ 1.14 1.01 0.98 0.92 (9' 10") yd ³				
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Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (3,030 lb/yd³) GP bucket 1,5 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 terweight with 2,5 m liter 1 500 1 325	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.96 1.73	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (1) 100 800 750 700 5,7 m (2,9 m 1) 100 110 110 110 110 110 110 110 110	(8' 6") yd³ 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd³ 1.08 1.05 0.98 0.92 (18'8") (9'6") yd³ 1.77 1.57	3,0 m (liter 775 750 700 3,0 m (liter 775 675 650 600 3,5 m liter 1 200 1 075	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³)	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 terweight with 2,5 m liter 1 500	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.96	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (liter 900 800 750 700 5,7 m (2,9 m	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77	3,0 m (liter 775 750 700 3,0 m (liter 775 675 650 600	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³)	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.96 1.73 1.64 1.54	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (900 800 750 700 5,7 m (2,9 m liter 1 350 1 200 1 125 1 050	(8' 6") yd³ 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd³ 1.08 1.05 0.98 0.92 (18'8") (9'6") yd³ 1.77 1.57 1.47	liter 875 775 750 700 3,0 m (liter 775 675 650 600 3,5 m liter 1 200 1 075 1 000	yd³ 1.14 1.01 0.98 0.92 9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.96 1.73 1.64 1.54	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,7 m (2,9 m (2,9 m (1 350 1 200 1 125 1 050	(8' 6") yd³ 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd³ 1.08 1.05 0.98 0.92 (18'8") (9'6") yd³ 1.77 1.57 1.47 1.37	liter 875 775 750 700 3,0 m (liter 775 675 650 600 3,5 m liter 1 200 1 075 1 000	yd³ 1.14 1.01 0.98 0.92 9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Quick Coupler	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.96 1.73 1.64 1.54 Quick Coupler	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,6 m (2,6 m (1 200 750 700 5,7 m (2,9 m liter 1 350 1 200 1 125 1 050	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77 1.57 1.47 1.37	3,0 m (1) 3,0 m (1) 1iter 775 675 650 600 3,5 m 1iter 1 200 1 075 1 000 950	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31 1.24				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.96 1.73 1.64 1.54 Quick Coupler	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,7 m (2,9 m (2,9 m (1 350 1 200 1 125 1 050	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77 1.57 1.47 1.37	3,0 m (1) 3,0 m (1) 1iter 775 675 650 600 3,5 m 1iter 1 200 1 075 1 000 950	yd³ 1.14 1.01 0.98 0.92 9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Quick Coupler Arm	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175 sterweight with	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.64 1.54 Quick Coupler	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,7 m (2,9 m (2,9 m (125) 1 050 5,7 m (2,9 m (125) 1 050	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77 1.57 1.47 1.37	liter 875 775 750 700 3,0 m (liter 775 675 650 600 3,5 m liter 1 200 1 075 1 000 950	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31 1.24				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,5 t/m³ (2,530 lb/yd³) BC220DL with 4 200 kg (9,260 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175 sterweight with 2,5 m liter 2,5 m liter 1 325 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.64 1.73 1.64 1.54 Quick Coupler (8'2") yd³ 1.77 1.57	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,6 m (2,7 m (2,9 m (1 125 1 050 5,7 m (2,9 m (1 125 1 050 1 1200 1 125 1 050	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77 1.57 1.47 1.57 1.47 1.37 (18'8") (9'6") yd3 1.60 1.60 1.41	3,0 m (iter 1 200 1 075 1 075 950	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31 1.24 (11'6") yd³ 1.41 1.24				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,330 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,5 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175 sterweight with 2,5 m liter 1 350 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.105 Direct Fit (8'2") yd³ 1.73 1.64 1.54 Quick Coupler (8'2") yd³ 1.77 1.57 1.57	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,7 m (2,9 m (1 200 1 125 1 050 5,7 m (2,9 m (1 200 1 125 1 075 1 075 1 025	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77 1.57 1.47 1.37 (18'8") (9'6") yd3 1.60 1.41 1.34	3,5 m liter 1 200 1 075 1 000 950 900	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31 1.24 (11'6") yd³ 1.41 1.24 1.18				
Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC160DL with 3 200 kg (7,060 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Direct Fit Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 1,8 t/m³ (3,030 lb/yd³) HD bucket 2,0 t/m³ (3,370 lb/yd³) EC220DL with 4 200 kg (9,260 lb) count Boom, Quick Coupler Arm Max. bucket GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (2,530 lb/yd³) GP bucket 1,5 t/m³ (3,030 lb/yd³)	2,3 m (liter 1 125 1 000 950 900 terweight with 2,3 m (liter 1 025 900 850 800 sterweight with 2,5 m liter 1 500 1 325 1 250 1 175 sterweight with 2,5 m liter 2,5 m liter 1 325 1 250 1 175	(7' 7") yd³ 1.47 1.31 1.24 1.18 Quick Coupler (7' 7") yd³ 1.34 1.18 1.11 1.05 Direct Fit (8'2") yd³ 1.64 1.73 1.64 1.54 Quick Coupler (8'2") yd³ 1.77 1.57	2,6 m (liter 1 000 900 850 800 5,2 m (2,6 m (2,6 m (2,6 m (2,7 m (2,9 m (1 125 1 050 5,7 m (2,9 m (1 125 1 050 1 1200 1 125 1 050	(8' 6") yd3 1.31 1.18 1.11 1.05 17' 1") (8' 6") yd3 1.08 1.05 0.98 0.92 (18'8") (9'6") yd3 1.77 1.57 1.47 1.57 1.47 1.37 (18'8") (9'6") yd3 1.60 1.60 1.41	3,0 m (iter 1 200 1 075 1 075 950	yd³ 1.14 1.01 0.98 0.92 (9' 10") yd³ 1.01 0.88 0.85 0.78 (11'6") yd³ 1.57 1.41 1.31 1.24 (11'6") yd³ 1.41 1.24				

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.

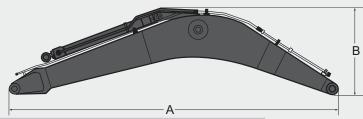
SPECIFICATIONS.

MACHINE WEIGHTS AND GROUND PRESSURE

Description		width	-	ng weight	1			ll width		ng weight		1		ll width
Units	mm	in	kg	lb	kPa	psi	mm	in	kg	lb	kPa	psi	mm	in
EC140DL			390 kg	4,6 m (15 (860 lb) bu	5' 1") boom			terweight				boom, 2,5 r 00 kg (4,63		
	500	20	13 160	29,020	41,2	6.0	2 490	8' 2"	13 510	29,790	42,2	6.1	2 490	8' 2"
Triple grouser	600	24	13 360	29,460	35,3	5.1	2 590	8' 6"	13 710	30,230	36,3	5.3	2 590	8' 6"
1 0	750	30	13 750	30,320	28,4	4.1	2 740	9' 0"	14 100	31,090	29,4	4.3	2 740	9' 0"
Triple grouser HD	600	24	13 430	29,610	35,3	5.1	2 590	8' 6"	13 780	30,380	36,3	5.3	2 590	8' 6"
	700	28	13 630	30,050	30,4	4.4	2 690	8' 10"	13 980	30,830	31,4	4.6	2 690	8' 10"
Rubber grouser	500	20	13 200	29,110	41,2	6.0	2 490	8' 2"	13 540	29,860	42,2	6.1	2 490	8' 2"
EC140DL with D	ozer E	Blade	390 kg	4,6 m (15 (860 lb) bu	5' 1") boom			torwoight				boom, 2,5 i 0 kg (4,63		
	500	20	14 100	31.090	44,1	6.4	2 490	8' 2"	14 440	31,840	45,1	6.5	2 490	8' 2"
Triple grouser	600	24	14 290	31,510	37,3	5.4	2 590	8' 6"	14 640	32,280	38,2	5.5	2 590	8' 6"
1 - 3	750	30	14 690	32,390	30,4	4.4	2 740	9' 0"	15 030	33,140	31,4	4.6	2 740	9' 0"
T:	600	24	14 370	31,690	37,3	5.4	2 590	8' 6"	14 710	32,440	38,2	5.5	2 590	8' 6"
Triple grouser HD	700	28	14 570	32,130	32,4	4.7	2 690	8' 10"	14 910	32,880	33,3	4.8	2 690	8' 10"
Rubber grouser	500	20	14 130	31,160	44,1	6.4	2 490	8' 2"	14 480	31,930	45,1	6.5	2 490	8' 2"
EC140DL			0001		5' 1") boom							boom 2,5 n		
	EOO	20	_	(860 lb) bu		-		_	-		-	60 kg (5,40		_
Triple grouper	500	20 24	13 510	29,790	42,2	6.1	2 490	8' 2" 8' 6"	13 860	30,560 31,000	43,1	6.3	2 490	8' 2" 8' 6"
Triple grouser	600 750	30	13 710 14 100	30,230 31,090	36,3 29,4	5.3 4.3	2 590 2 740	9' 0"	14 060 14 450	31,860	37,3 30,4	5.4 4.4	2 590 2 740	9' 0"
	600	24	13 780	30,380	36,3	5.3	2 590	8' 6"	14 130	31,160	37,3	5.4	2 590	8' 6"
Triple grouser HD	700	28	13 980	30,830	31,4	4.6	2 690	8' 10"	14 330	31,600	32,4	4.7	2 690	8' 10"
Rubber grouser	500	20	13 550	29,880	42,2	6.1	2 490	8' 2"	13 890	30,630	43,1	6.3	2 490	8' 2"
					5' 1") boom					6 m (15' 1"		boom, 2,5 r	n (8' 2") a	
EC140DL with D	ozer E	siade	390 kg	(860 lb) bu	cket, 2 450	kg (5,400) lb) count	terweight	390 kg	(860 lb) bu	cket, 2 45	i0 kg (5,40	0 lb) coun	terweight
	500	20	14 450	31,860	45,1	6.5	2 490	8' 2"	14 790	32,610	46,1	6.7	2 490	8' 2"
Triple grouser	600	24	14 640	32,280	38,2	5.5	2 590	8' 6"	14 990	33,050	39,2	5.7	2 590	8' 6"
	750	30	15 040	33,160	31,4	4.6	2 740	9' 0"	15 380	33,910	32,4	4.7	2 740	9' 0"
Triple grouser HD	600 700	24 28	14 720 14 920	32,460	38,2	5.5 4.8	2 590 2 690	8' 6" 8' 10"	15 060	33,210	39,2	5.7	2 590	8' 6" 8' 10"
Rubber grouser	500	20	14 480	32,900 31,930	33,3 45,1	6.5	2 490	8' 2"	15 260 14 830	33,650 32,700	34,3 46,1	5.0 6.7	2 690 2 490	8' 2"
	500	20	14 400		7' 1") boom			0 2	14 030	32,700	40,1	0.7	2 490	0 2
EC160DL			470 kg (1,040 lb) bi				terweight						
	500	20	17 150	37,820	49,0	7.1	2 490	8' 2"						
	600	24	17 380	38,320	41,2	6.0	2 590	8' 6"						
Triple grouser	700	28	17 620	38,850	35,3	5.1	2 690	8' 10"						
	800	32	18 010	39,710	31,4	4.6	2 790	9' 2"						
	900	36	18 280	40,310	28,4	4.1	2 990	9' 10"						
EC160DL with [ozer E	Blade	470 kg (5,2 m (۱/ 1,040 lb) bi	7' 1") boom ucket. 3 20			nterweight						
	500	20	18 310	40,370	52,0	7.5	2 490	8' 2"						
	600	24	18 540	40,880	44,1	6.4	2 590	8' 6"						
Triple grouser	700	28	18 780	41,410	38,2	5.5	2 690	8' 10"						
	800	32	19 170	42,270	34,3	5.0	2 790	9' 2"						
	900	36	19 440	42,870	30,4	4.4	2 990	9' 10"						
EC220DL			7701 (8") boom							boom, 2,9		
	500	20		1,710 lb) bu					22 560				2 890	nterweign 9' 6"
	500 600	20 24	21 870 22 130	48,220 48,800	54,9 46,1	8.0 6.7	2 890 2 990	9' 6" 9' 10"	22 810	49,740 50,300	55,9 47,1	8.1 6.8	2 990	9' 10"
Triple grouser	700	28	22 580	49,790	40,1	5.8	3 090	10' 2"	23 260	51,290	41,1	6.0	3 090	10' 2"
	800	32	22 860	50,410	35,3	5.1	3 190	10' 6"	23 550	51,930	36,3	5.3	3 190	10' 6"
	900	36	23 150	51,050	32,4	4.7	3 290	10' 10"	23 830	52,550	33,3	4.8	3 290	10' 10"
Triple grouser HD	600	24	22 300	49,170	46,1	6.7	2 990	9' 10"	22 980	50,670	48,0	7.0	2 990	9' 10"
Double grouser	700	28	22 860	50,410	40,2	5.8	3 090	10' 2"	23 550	51,930	42,2	6.1	3 090	10' 2"
EC220DLR				8,85 m (29										
LUZZUDEN				1,000 lb) bu		_								
Triple grouser	800 900	32	23 860	52,610	37,3	5.4	3 190	10' 6"						
		36	24 140	53,230	33,3	4.8	3 290	10' 10"						

DIMENSIONS

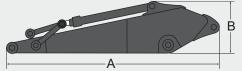
Boom



	I.		- A
		EC140D	
Description	Unit	mono	2-piece
Boom	m (in)	4,6 (15' 1")	4,6 (15' 1")
Length (A)	mm (in)	4 770 (15' 8")	4 765 (15' 8")
Height (B)	mm (in)	1 370 (4' 6")	1 225 (4' 0")
Width	mm (in)	545 (1' 9")	545 (1' 9")
Weight	kg (lb)	1 100 (2,430)	1 400 (3,090)
	EC160D		
Description	Unit		
Boom	m (in)	5,2 (17'1")	
Length (A)	mm (in)	5 400 (17' 9")	
Height (B)	mm (in)	1 640 (5' 5")	
Width	mm (in)	565 (1' 10")	
Weight	kg (lb)	1 370 (3,020)	

			EC220D		
Description	Unit	mono	mono	2-piece	Long reach
Boom	m (in)	5,7 GP (18' 8")	5,7 HD (18' 8")	5,57 (18' 3")	8,85 (29' 0")
Length (A)	mm (in)	5 910 (19' 5")	5 910 (19' 5")	5 780 (19' 0")	9 060 (29' 9")
Height (B)	mm (in)	1 585 (5' 2")	1 585 (5' 2")	1 570 (5' 2")	1 460 (4' 9")
Width	mm (in)	670 (2' 2")	670 (2' 2")	670 (2' 2")	670 (2' 2")
Weight	kg (lb)	1 995 (4,400)	2 135 (4,710)	2 585 (5,700)	2 510 (5,530)

Arm

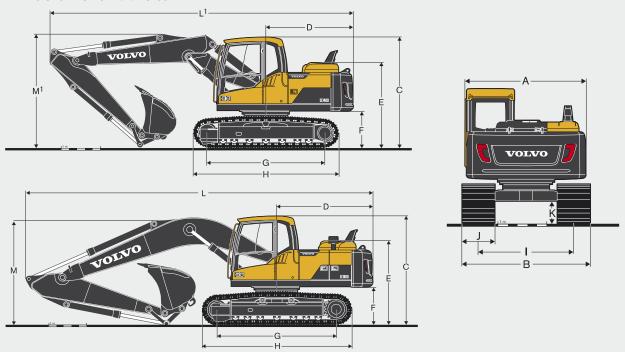


		-	————A—							
			EC140	0D						
Description	Unit									
Arm	m (in)	2,1 (6' 11	")		2,5 (8' 2")		3,0 (9' 10")			
Length (A)	mm (in)	2 800 (9 ' 2	2")		3 200 (10' 6")		2 7	00 (8' 10")		
Height (B)	mm (in)	710 (2' 4	")		710 (2' 4")		7	80 (2' 7")		
Width	mm (in)	300 (1' 0 '	")		300 (1' 0")		3	00 (1' 0")		
Weight	kg (lb)	555 (1,22	0)		625 (1,380)		68	35 (1,510)		
EC160D										
Description	Unit									
Arm	m (in)	2,3 (7' 7'	')	2,6 (8' 6")			3,0 (9' 10")			
Length (A)	mm (in)	3 240 (10'	8")	3 500 (11' 6")			3 9	00 (12' 10")		
Height (B)	mm (in)	855 (2' 10)")	855 (2' 10")		845 (2' 9")				
Width	mm (in)	395 (1' 4 '	")		395 (1' 4")		395 (1' 4")			
Weight	kg (lb)	790 (1,74	0)		800 (1,760)		86	60 (1,900)		
			EC220	0D						
Description	Unit									
Arm	m (in)	2,5 HD (8' 2")	2,9 GP (9' 6"	')	2,9 HD (9' 6")	3,5	GP (11' 6")	6,25 LR (20' 6")		
Length (A)	mm (in)	3 525 (11' 7")	3 910 (12' 10'	")	3 910 (12' 10")	4 54	10 (14' 11")	7 330 (24' 1")		
Height (B)	mm (in)	860 (2' 10")	860 (2' 10"))	860 (2' 10")	85	5 (2' 10")	945 (3' 1")		
Width	mm (in)	440 (1' 5")	440 (1' 5")		440 (1' 5")	44	40 (1' 5")	385 (1' 3")		
Weight	kg (lb)	1 126 (2,480)	1 121 (2,470)))	1 176 (2,590)	1 2	26 (2,700)	1 309 (2,890)		

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

SPECIFICATIONS.

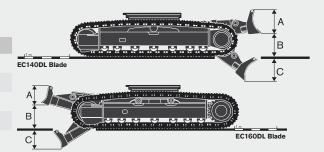
DIMENSIONS - EC140DL and EC160DL



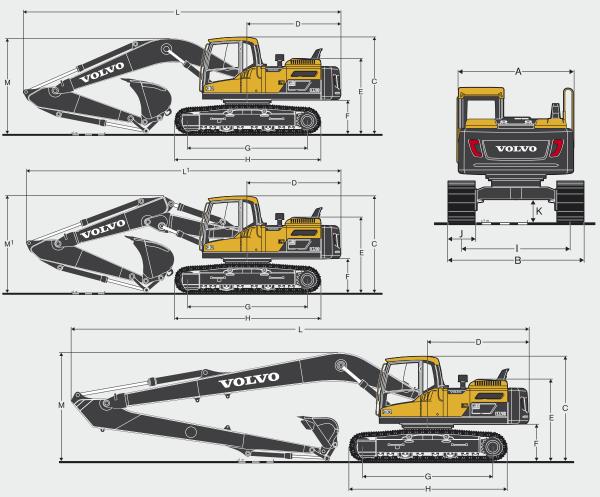
Description	Unit		EC140DL		EC160DL			
Boom	m, (ft-in)	4,6 (15' 1	l") mono or 4,6 (15' 1"	2) 2-piece		5,2 (17' 1")		
Arm	m, (ft-in)	2,1 (6' 11")	2,5 (8' 2")	3,0 (9' 10")	2,3 (7' 7")	2,6 (8' 6")	3,0 (9' 10")	
A. Overall width of upper structure	mm, (ft-in)	2 490 (8' 2")	2 490 (8' 2")	2 490 (8' 2")	2 490 (8' 2")	2 490 (8' 2")	2 490 (8' 2")	
B. Overall width	mm, (ft-in)	2 590 (8' 6")	2 590 (8' 6")	2 590 (8' 6")	2 590 (8' 6")	2 590 (8' 6")	2 590 (8' 6")	
C. Overall height of cab	mm, (ft-in)	2 800 (9' 2")	2 800 (9' 2")	2 800 (9' 2")	2 900 (9' 6")	2 900 (9' 6")	2 900 (9' 6")	
D. Tail slew radius	mm, (ft-in)	2 200 (7' 3")	2 200 (7' 3")	2 200 (7' 3")	2 550 (8' 4")	2 550 (8' 4")	2 550 (8' 4")	
E. Overall height of engine hood	mm, (ft-in)	2 020 (6' 8")	2 020 (6' 8")	2 020 (6' 8")	2 235 (7' 4")	2 235 (7' 4")	2 235 (7' 4")	
F. Counterweight clearance *	mm, (ft-in)	920 (3' 0")	920 (3' 0")	920 (3' 0")	1 010 (3' 4")	1 010 (3' 4")	1 010 (3' 4")	
G. Tumbler length	mm, (ft-in)	3 040 (10' 0")	3 040 (10' 0")	3 040 (10' 0")	3 180 (10' 5")	3 180 (10' 5")	3 180 (10' 5")	
H. Track length	mm, (ft-in)	3 760 (12' 4")	3 760 (12' 4")	3 760 (12' 4")	3 980 (13' 1")	3 980 (13' 1")	3 980 (13' 1")	
I. Track gauge	mm, (ft-in)	1 990 (6' 6")	1 990 (6' 6")	1 990 (6' 6")	1 990 (6' 6")	1 990 (6' 6")	1 990 (6' 6")	
J. Shoe width	mm, (in)	600 (24")	600 (24")	600 (24")	600 (24")	600 (24")	600 (24")	
K. Min. ground clearance *	mm, (ft-in)	436 (1' 5")	436 (1' 5")	436 (1' 5")	460 (1' 6")	460 (1' 6")	460 (1' 6")	
L. Overall length	mm, (ft-in)	7 630 (25' 0")	7 630 (25' 0")	7 630 (25' 0")	8 880 (29' 2")	8 990 (28' 9")	8 810 (28' 11")	
L1. Overall length	mm, (ft-in)	7 610 (25' 0")	7 550 (24' 9")	7 320 (24' 0")	-	-	-	
M. Overall height of boom	mm, (ft-in)	2 710 (8' 11")	2 830 (9' 3")	3 210 (10' 6")	2 980 (9' 9")	2 900 (9' 6")	3 020 (9' 11")	
M¹. Overall height of boom	mm, (ft-in)	2 720 (8' 11")	2 950 (9' 8")	3 350 (11' 0")	-	-	-	

* Without shoe grouser / 1 2-piece boom

Front dozer blade	Unit	EC140DL	EC160DL
A. Height	m, (ft-in)	585 (1' 11")	452 (1' 6")
Width	mm, (ft-in)	2 590 (8' 6")	2 800 (9' 2")
Weight	kg, (lb)	458 (1,010)	595 (1,310)
B. Lift height	mm, (ft-in)	478 (1' 7")	571 (1' 10")
C. Digging depth	mm, (ft-in)	601 (2' 0")	735 (2' 5")



DIMENSIONS - EC220DL and EC220DLR

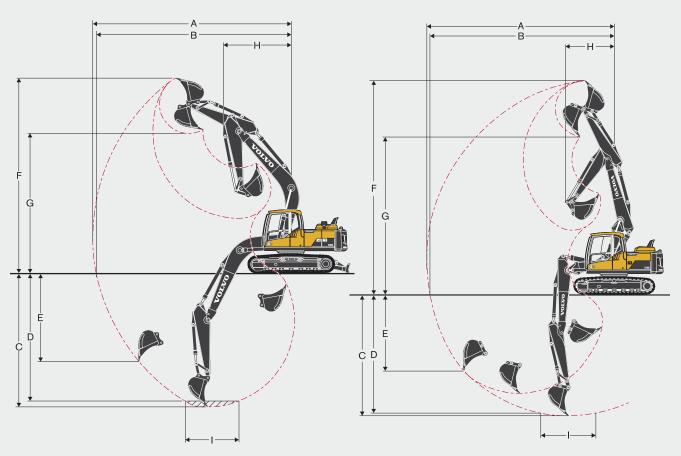


Description	Unit		EC220DL		EC220DLR
Boom	m, (ft-in)	5,7 (18' 8") mono or 5,57 (18' 3") 2-p	piece	8,85 (29' 0")
Arm	m, (ft-in)	2,5 (8' 2")	2,9 (9' 6")	3,5 (11' 6")	6,25 (20' 6")
A. Overall width of upper structure	mm, (ft-in)	2 540 (8' 4")	2 540 (8' 4")	2 540 (8' 4")	2 540 (8' 4")
B. Overall width	mm, (ft-in)	2 990 (9' 10")	2 990 (9' 10")	2 990 (9' 10")	3 190 (10' 6")
C. Overall height of cab	mm, (ft-in)	2 930 (9' 7")	2 930 (9' 7")	2 930 (9' 7")	2 930 (9' 7")
D. Tail slew radius	mm, (ft-in)	2 850 (9' 4")	2 850 (9' 4")	2 850 (9' 4")	2 850 (9' 4")
E. Overall height of engine hood	mm, (ft-in)	2 305 (7' 7")	2 305 (7' 7")	2 305 (7' 7")	2 305 (7' 7")
F. Counterweight clearance *	mm, (ft-in)	1 025 (3' 4")	1 025 (3' 4")	1 025 (3' 4")	1 025 (3' 4")
G. Tumbler length	mm, (ft-in)	3 660 (12' 0")	3 660 (12' 0")	3 660 (12' 0")	3 660 (12' 0")
H. Track length	mm, (ft-in)	4 460 (14' 8")	4 460 (14' 8")	4 460 (14' 8")	4 460 (14' 8")
I. Track gauge	mm, (ft-in)	2 390 (7' 10")	2 390 (7' 10")	2 390 (7' 10")	2 390 (7' 10")
J. Shoe width	mm, (in)	600 (24")	600 (24")	600 (24")	800 (32")
K. Min. ground clearance *	mm, (ft-in)	460 (1' 6")	460 (1' 6")	460 (1' 6")	460 (1' 6")
L. Overall length	mm, (ft-in)	9 745 (32' 0")	9 690 (31' 9")	9 720 (31' 11")	12 880 (42' 3")
L¹. Overall length	mm, (ft-in)	9 610 (31' 6")	9 570 (31' 5")	9 560 (31' 4")	-
M. Overall height of boom	mm, (ft-in)	3 080 (10' 1")	2 940 (9' 8")	3 260 (10' 8")	3 055 (10' 0")
M¹. Overall height of boom	mm, (ft-in)	3 065 (10' 1")	2 960 (9' 9")	3 310 (10' 10")	-

^{*} Without shoe grouser / 1 2-piece boom

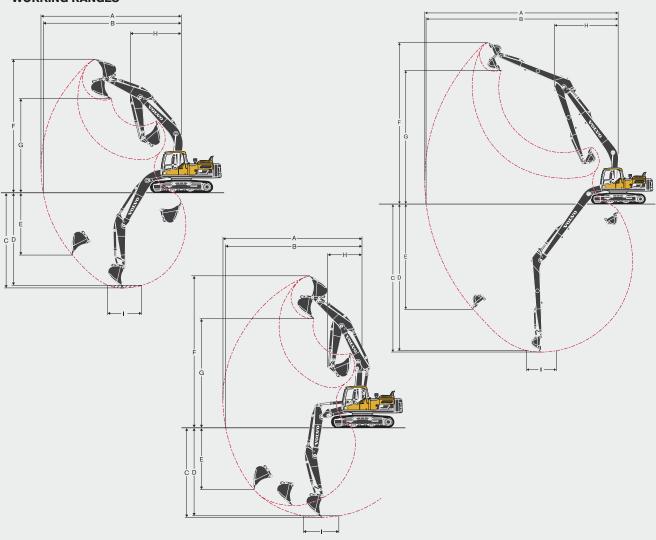
SPECIFICATIONS.

WORKING RANGES



Description		Unit			EC14	10DL				EC160DL	
Boom		m, (ft-in)	4	4,6 (15' 1") mon	0	4	,6 (15' 1") 2-pie	ce	5	5,2 (17' 1") mon	0
Arm		m, (ft-in)	2,1 (6' 11")	2,5 (8' 2")	3,0 (9' 10")	2,1 (6' 11")	2,5 (8' 2")	3,0 (9' 10")	2,3 (7' 7")	2,6 (8' 6")	3,0 (9' 10")
A. Max. digging reach		mm, (ft-in)	7 960 (26' 1")	8 330 (27' 4")	8 820 (28' 11")	8 050 (26' 5")	8 440 (27' 8")	8 930 (29' 4")	8 650 (28' 5")	8 970 (29' 5")	9 340 (30' 8")
B. Max. digging reach on grou	ınd	mm, (ft-in)	7 810 (25' 7")	8 190 (26' 10")	8 690 (28' 6")	7 910 (25' 11")	8 300 (27' 3")	8 800 (28' 10")	8 490 (27' 10")	8 810 (28' 11")	9 180 (30' 1"
C. Max. digging depth		mm, (ft-in)	5 130 (16' 10")	5 530 (18' 2")	6 030 (19' 9")	5 060 (16' 7")	5 450 (17' 11")	5 950 (19' 6")	5 740 (18' 10")	6 040 (19' 10")	6 440 (21' 2")
D. Max. digging depth (I = 2,444)	0 m, (8') level)	mm, (ft-in)	4 880 (16' 0")	5 310 (17' 5")	5 850 (19' 2")	4 930 (16' 2")	5 340 (17' 6")	5 850 (19' 2")	5 420 (17' 9")	5 770 (18' 11")	6 200 (20' 4")
E. Max. vertical wall digging d	epth	mm, (ft-in)	4 580 (15' 0")	4 970 (16' 4")	5 510 (18' 1")	4 290 (14' 1")	4 680 (15' 4")	5 180 (17' 0")	4 480 (14' 8")	4 950 (16' 3")	5 380 (17' 8")
F. Max. cutting height		mm, (ft-in)	8 190 (26' 10")	8 420 (27' 7")	8 770 (28' 9")	9 260 (30' 5")	9 620 (31' 7")	10 090 (33' 1")	8 570 (28' 1")	8 820 (28' 11")	9 030 (29' 8"
G. Max. dumping height		mm, (ft-in)	5 770 (18' 11")	6 010 (19' 9")	6 350 (20' 10")	6 800 (22' 4")	7 160 (23' 6")	7 640 (25' 1")	6 110 (20' 1")	6 340 (20' 10")	6 540 (21' 5"
H. Min. front slew radius		mm, (ft-in)	2 540 (8' 4")	2 600 (8' 6")	2 830 (9' 3")	1 930 (6' 4")	2 190 (7' 2")	2 620 (8' 7")	3 070 (10' 1")	3 070 (10' 1")	3 070 (10' 1")
Digging forces with direct fit I	bucket										
Bucket radius		mm, (in)	1 250 (49")	1 250 (49")	1 250 (49")	1 250 (49")	1 250 (49")	1 250 (49")	1 315 (52")	1 315 (52")	1 315 (52")
Breakout force - bucket											
Normal	SAE J1179	kN, (Ib)	82,4 (18,560)	101,9 (22,900)	101,9 (22,900)	101,9 (22,900					
Power boost	SAE J1179	kN, (lb)	87,3 (19,620)	107,7 (24,210)	107,7 (24,210)	107,7 (24,210					
Normal	ISO 6015	kN, (Ib)	93,2 (20,950)	93,2 (20,950)	93,2 (20,950)	93,2 (20,950)	93,2 (20,950)	93,2 (20,950)	114,7 (25,780)	114,7 (25,780)	114,7 (25,780
Power boost	ISO 6015	kN, (lb)	98,1 (22,050)	121,3 (27,260)	121,3 (27,260)	121,3 (27,260					
Tearout force - dipper arm											
Normal	SAE J1179	kN, (lb)	69,6 (15,660)	61,8 (13,890)	54,9 (12,350)	69,6 (15,660)	61,8 (13,890)	54,9 (12,350)	90,4 (20,320)	80,4 (18,070)	72,8 (16,360)
Power boost	SAE J1179	kN, (lb)	73,5 (16,540)	65,7 (14,770)	58,8 (13,230)	73,5 (16,540)	65,7 (14,770)	58,8 (13,230)	95,5 (21,470)	85 (19,110)	76,9 (17,280)
Normal	ISO 6015	kN, (lb)	71,6 (16,100)	63,7 (14,330)	56,9 (12,790)	71,6 (16,100)	63,7 (14,330)	56,9 (12,790)	92,9 (20,880)	82,3 (18,500)	74,3 (16,700)
Power boost	ISO 6015	kN, (lb)	75,5 (16,980)	67,7 (15,210)	59,8 (13,450)	75,5 (16,980)	67,7 (15,210)	59,8 (13,450)	98,2 (22,070)	87 (19,560)	78,6 (17,670)
Rotation angle, bucket		0	174	174	174	174	174	174	183	183	183

WORKING RANGES



Description		Unit			EC2	20DL			EC220DLR
Boom		m, (ft-in)		5,7 (18' 8") mon	0	5,	57 (18' 3") 2-pie	есе	8,85 (29' 0")
Arm		m, (ft-in)	2,5 (8' 2")	2,9 (9' 6")	3,5 (11' 6")	2,5 (8' 2")	2,9 (9' 6")	3,5 (11' 6")	6,25 (20' 6")
A. Max. digging reach		mm, (ft-in)	9 550 (31' 4")	9 930 (32' 7")	10 390 (34' 1")	9 450 (31' 0")	9 840 (32' 3")	10 310 (33' 10")	15 800 (51' 10"
B. Max. digging reach on grou	nd	mm, (ft-in)	9 380 (30' 9")	9 770 (32' 1")	10 240 (33' 7")	9 280 (30' 5")	9 670 (31' 9")	10 150 (33' 4")	15 700 (51' 6")
C. Max. digging depth		mm, (ft-in)	6 330 (20' 9")	6 730 (22' 1")	7 330 (24' 1")	5 900 (19' 4")	6 300 (20' 8")	6 850 (22' 6")	12 100 (39' 8")
D. Max. digging depth (I = 2,440) m, (8') level)	mm, (ft-in)	6 100 (20' 0")	6 540 (21' 5")	7 130 (23' 5")	5 790 (19' 0")	6 200 (20' 4")	6 750 (22' 2")	12 000 (39' 4")
E. Max. vertical wall digging de	epth	mm, (ft-in)	5 620 (18' 5")	6 090 (20' 0")	6 470 (21' 3")	4 990 (16' 4")	5 410 (17' 9")	5 930 (19' 5")	11 290 (37' 0")
F. Max. cutting height		mm, (ft-in)	9 220 (30' 3")	9 460 (31' 0")	9 460 (31' 0")	10 380 (34' 1")	10 710 (35' 2")	10 920 (35' 10")	13 300 (43' 8")
G. Max. dumping height		mm, (ft-in)	6 430 (21' 1")	6 650 (21' 10")	6 700 (22' 0")	7 460 (24' 6")	7 780 (25' 6")	8 010 (26' 3")	10 950 (35' 11"
H. Min. front slew radius		mm, (ft-in)	3 670 (12' 0")	3 640 (11' 11")	3 660 (12' 0")	2 740 (8' 12")	2 470 (8' 1")	2 730 (8' 11")	5 200 (17' 1")
Digging forces with direct fit b	ucket								
Bucket radius		mm, (in)	1 470 (58")	1 470 (58")	1 470 (58")	1 470 (58")	1 470 (58")	1 470 (58")	1 250 (49")
Breakout force - bucket									
Normal	SAE J1179	kN, (lb)	130 (29,240)	130 (29,240)	130 (29,240)	130 (29,240)	130 (29,240)	130 (29,240)	68 (15,280)
Power boost	SAE J1179	kN, (lb)	137 (30,890)	137 (30,890)	137 (30,890)	137 (30,890)	137 (30,890)	137 (30,890)	-
Normal	ISO 6015	kN, (lb)	145 (32,480)	145 (32,480)	145 (32,480)	145 (32,480)	145 (32,480)	145 (32,480)	77 (17,270)
Power boost	ISO 6015	kN, (lb)	153 (34,330)	153 (34,330)	153 (34,330)	153 (34,330)	153 (34,330)	153 (34,330)	-
Tearout force - dipper arm									
Normal	SAE J1179	kN, (lb)	119 (26,640)	102 (23,000)	93 (20,880)	119 (26,640)	102 (23,000)	93 (20,880)	44 (9,920)
Power boost	SAE J1179	kN, (lb)	125 (28,160)	108 (24,320)	98 (22,070)	125 (28,160)	108 (24,320)	98 (22,070)	-
Normal	ISO 6015	kN, (lb)	122 (27,340)	105 (23,550)	95 (21,300)	122 (27,340)	105 (23,550)	95 (21,300)	45 (10,050)
Power boost	ISO 6015	kN, (lb)	129 (28,890)	111 (24,890)	100 (22,510)	129 (28,890)	111 (24,890)	100 (22,510)	-
Rotation angle, bucket		0	175	175	175	175	175	175	178

EQUIPMENT.

STANDARD EQUIPMENT

STANDARD EQUIPMENT			
	EC140D	EC160D	EC220
Engine			
Turbocharged, 4 stroke diesel engine with water cooling direct injection and charged air cooler that meets Tier 4 requirements		•	•
Air filter with indicator	•	•	•
Air intake heater	•	•	•
Cyclone pre-cleaner	•	•	•
Electric engine shut-off	•	٠	٠
Fuel filter and water separator	•	•	•
Alternator	•	•	•
Cooling system (50 deg. C)	•	٠	٠
Electric/Electronic control system			
Contronics	•	•	•
- Advanced mode control system	•	•	•
- Self-diagnostic system CareTrack Satellite		•	- :
CareTrack 3 yr. subscription			
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 2			•
- Boom-mounted 2	•	•	•
Batteries, 2 x 12 V / 100 Ah	•		
Batteries, 2 x 12 V / 110 Ah		•	
Batteries, 2 x 12 V / 200 Ah			•
Start motor, 24 V / 5.5 kW	•	•	•
Travel alarm	•	•	•
Hydraulic system			
Automatic sensing hydraulic system	•	•	٠
- Summation system	•	•	•
- Boom priority	•	•	
- Arm priority	•	•	•
- Swing priority	•	•	•
"ECO" mode fuel saving technology	•	•	•
Boom, arm and bucket regeneration valves	•	•	•
Swing anti-rebound valves	•	•	
Boom and arm holding valves		٠	٠
Multi-stage filtering system	:	•	•
Multi-stage filtering system Cylinder cushioning	:	•	•
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals			•
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve		•	
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxilliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2)			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty)			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxilliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty) Full height counterweight:			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty) Full height counterweight: - 2 450 kg (5,400 lb)			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty) Full height counterweight: - 2 450 kg (5,400 lb) - 3 200 kg (7,060 lb)			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxilliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty) Full height counterweight: - 2 450 kg (5,400 lb) - 3 200 kg (7,060 lb) - 4 200 kg (9,260 lb) - Long Crawler (L) - 5 000 kg (11,030 lb) - Long Reach (LR) Cab and interior			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxilliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty) Full height counterweight: - 2 450 kg (5,400 lb) - 3 200 kg (7,060 lb) - 4 200 kg (9,260 lb) - Long Crawler (L) - 5 000 kg (11,030 lb) - Long Reach (LR) Cab and interior ROPS (ISO12117-2) certified cab			
Multi-stage filtering system Cylinder cushioning Cylinder contamination seals Auxiliary hydraulic valve Automatic two-speed travel motors Hydraulic oil, long life oil 46 Pilot control pattern change Boom float function without HRV Overload warning device Boom cylinders (x2) Frame Access way with handrail Tool storage area Punched metal anti-slip plates Undercover (heavy-duty) Full height counterweight: - 2 450 kg (5,400 lb) - 3 200 kg (7,060 lb) - 4 200 kg (9,260 lb) - Long Crawler (L) - 5 000 kg (11,030 lb) - Long Reach (LR) Cab and interior			

	E04.40D	F0460D	FOOOD
	EC140D	EC160D	EC220D
Straight Travel pedal	•	•	•
Adjustable operator seat and joystick control console	•	•	•
Fabric seat with heater	•	•	•
Control joysticks with 4 switches each	•	•	•
Heater & air-conditioner, automatic	•	٠	•
Flexible antenna	•	•	•
AM/FM stereo with CD player and MP3 input	•	•	•
Hydraulic safety lock lever	•	•	•
Cab, all-weather sound suppressed, includes:	•	•	•
- Cup holders	•	•	•
- Door locks	•	•	•
- Tinted glass	•	•	•
- Floor mat	•	•	•
- Horn	•	•	•
- Large storage area		•	•
- Pull-up type front window	•	•	•
- Removable lower windshield		•	
- Seat belt	•	•	•
- Safety glass			
- Sun screens, front, roof, rear		•	•
- Windshield wiper with intermittent feature			
Opening roof hatch			
Rear view camera			
Master kev	•		
Undercarriage			
Undercover (heavy-duty)			
Hydraulic track adjusters			
Greased and sealed track link			
Track Guard			
Track shoes			
600 mm (24") with triple grousers			
800 mm (32") with triple grousers			
, ,			•
Digging equipment			
Boom: 4,6 m (15' 1") monoblock	•		
Boom: 5,2 m (17' 1") monoblock		•	
Boom: 5,7 m (18' 8") monoblock			•
Boom: 8,85 m (29' 0") monoblock, Long Reach			•
Arm: 2,5 m (8' 2")	•		
Arm: 2,6 m (8' 6")		•	
Arm: 2,9 m (9' 6")			•
Arm: 6,25 m (20' 6"), Long Reach			•
Linkage without lifting eye	•	•	
Manual centralized lubrication	•	•	•
Linkage without lifting eye			•

OPTIONAL EQUIPMENT

	FC140D	FC160D	EC220D
Engine	LOTTOD	LCTOOD	LUZZUD
Block heater: 120 V			
Oil bath pre-cleaner			·
Diesel coolant heater, 5 kW	•	•	•
Water separator with heater	•	•	•
Auto engine shutdown	•	•	•
Standard cooling system by fan clutch (40 deg. C)	•	•	•
Fuel filler pump: 35 l/min (9 gpm)	•	•	
Fuel filler pump: 50 l/min (13.2 gpm), with automatic shut-off			•
Electric			
Extra lights:	•	•	•
- Cab-mounted 3	•	•	•
- Counterweight-mounted 1	•	•	•
Anti-theft system	•	•	•
Rotating warning beacon	•	•	•
Hydraulic system			
Hose rupture valve: boom	•	•	•
Hose rupture valve: arm	•	•	•
Overload warning device			•

OPTIONAL EQUIPMENT			
	EC140D	EC160D	EC220
Boom float function with HRV	•	•	
Hydraulic piping:		·	
- Work tool management system (up to 18 programmable memories)	•	٠	•
- Hammer & shear, 1 and 2 pump flow	•	٠	•
Hammer & shear: variable flow and pressure pre-setting	•		•
- Additional return filter			
- Slope & rotator	•	•	•
- Grapple	٠	٠	٠
- Oil leak (drain) line	•	•	•
- Quick coupler piping	•	•	•
Volvo hydraulic quick coupler S1		•	•
Volvo hydraulic quick coupler S6	•	٠	
Volvo hydraulic quick coupler U14	•		
Volvo hydraulic quick coupler U16 Volvo hydraulic quick coupler U21		·	_
Hydraulic oil, biodegradable 46			
Hydraulic oil, long life oil 32			
Hydraulic oil, long life oil 68			
Frame			
Full height counterweight:			
- 2 100 kg (4,630 lb)	•		
Cab and interior			
Fabric seat without heater	•	•	•
Fabric seat with heater and air suspension	•	•	•
Control joysticks with semi-long			•
Control joysticks with 3 switch & 1 propotional			•
Rain shield	•	٠	٠
Falling object guard (FOG) - Frame-mounted	•	•	•
- Cab-mounted			
Cab-mounted falling object protective structure (FOPS)			
Smoker kit (ashtray and lighter)			
Safety net for front window			
Lower wiper with intermittent control	•	•	•
Anti-vandalism kit	•		•
Undercarriage			
Full track guard	•		•
Undercover (heavy-duty)		•	
Dozer blade	•		
Track shoes			
500/600/600HD/700HD/750 mm (20"/24"/24"/28"/30") with triple grousers	•		
500 mm (20") with rubber grouser	•		
500/600/700/800/900 mm (20"/24"/28"/32"/36") with triple grousers		•	
500/600/600HD/700/900 mm (20"/24"/24"/28"/36") with triple grousers			
Track shoes 700 mm (28") with double grousers			
Digging equipment			
Boom: 4,6 m (15' 11") 2 piece boom	•		
Boom: 5,7 m (18' 8") monoblock, heavy-duty			•
Boom: 5,57 m (18' 3") 2 piece boom			•
Arm: 2,1 m (6' 11") , 3,0 m (9' 10")	•		
Arm: 2,3 m (7' 7"), 3,0 m (9' 10")		•	
Arm: 2,9 m (9' 6"), 2,5 m (8' 2"), 3,5 m (11' 6")			•
Linkage with lifting eye	•	•	
Service Tool kit daily maintanance			
Tool kit, daily maintenance Tool kit, full scale			
TOOT MIG TUIT SCALE			-

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Auto engine shutdown

60

Auto engine shutdown

Cancel

Boom float



Dozer blade



хз



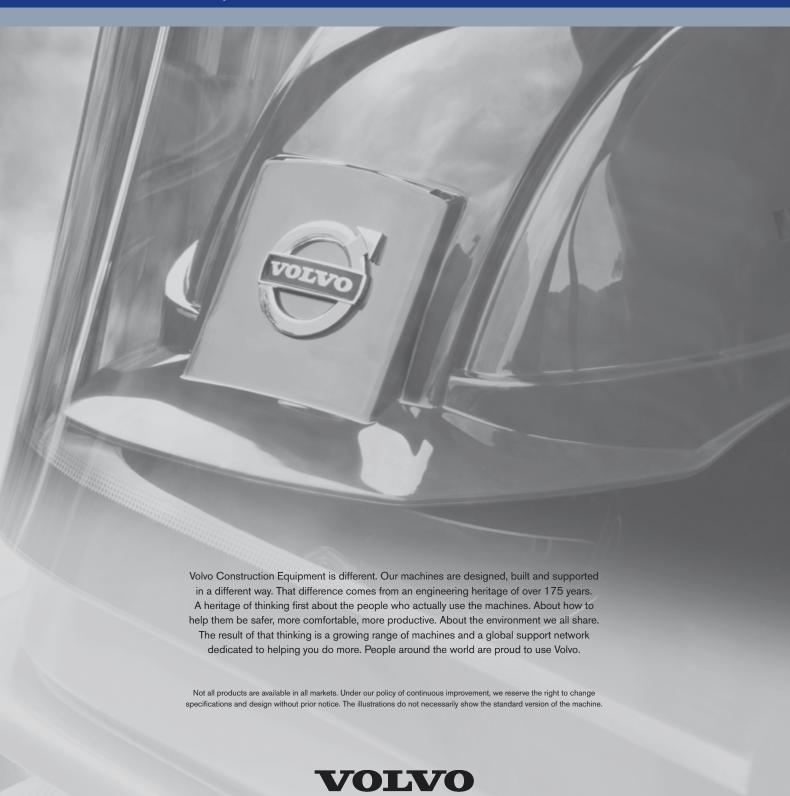
Lifting eye



FOG



VOLVO CONSTRUCTION EQUIPMENT



Volvo Construction Equipment

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English