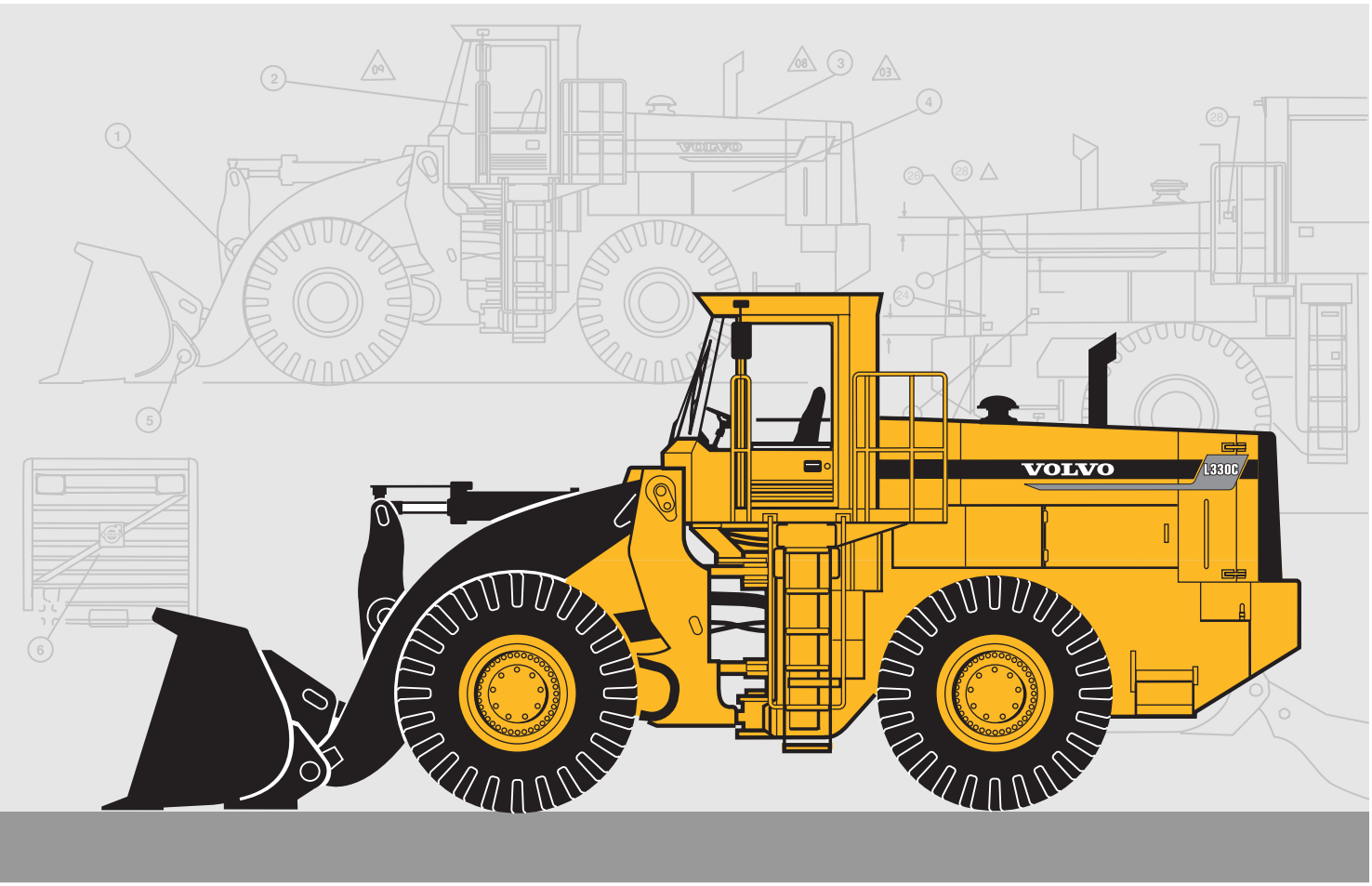
VOLVO WHEEL LOADER

L330C



- **Engine output SAE J1349: gross 370 kW (503 hp) net 366 kW (498 hp)**
- **Operating weight: 46,9–51,6 t**
- **Buckets: 6,1–12,7 m³**
- **Volvo high performance low emission engine,** with exellen low rpm performance. The engine meets all known regulations regarding exhaust emission for off-road machines until year 2001
- **Wet disc brakes** – fully sealed, forced oil-cooled, outboard mounted
- **Posi-Torq** limited-slip differentials in front and rear axles
- **Care Cab** – pressurized cab with high comfort and safety
- **Contronic** monitoring system
- **Load-sensing hydraulic system** – working and steering hydraulics
- Pilot-operated working hydraulics

Optional equipment

- Long boom
- Boom Suspension System
- Comfort Drive Control

VOLVO

SERVICE

Contronic monitoring system provides information on machine condition, routine maintenance schedules and minimizes time required for troubleshooting.

Service accessibility: Large, easy-to-open engine access doors with gas struts. Hinged radiator grille, fan and condenser. All routine service from ground level or steel platforms

Refill capacities			
Fuel tank	693 l	Engine oil	61 l
Engine coolant	90 l	Transmission	92 l
Hydraulic tank	336 l	Wheel hubs, ea.	20,8 l
Hydraulic system	552 l	Differentials, ea.	68,1 l
		Midmount bearing	4,7 l

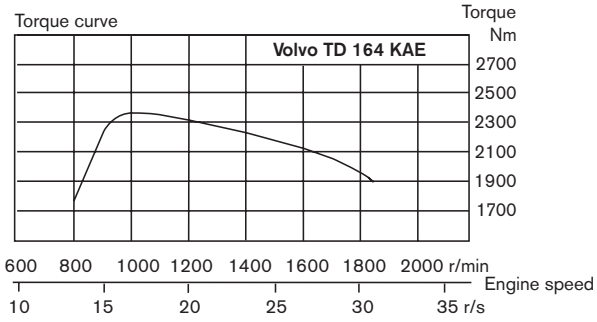
ENGINE

The high performance low emission engine delivers high torque and quick response at low engine rpm. This contributes to good fuel economy, lower noise, longer life and reduced impact on the environment.

Engine: High performance low emission, 6 cylinder, in-line, direct-injected, turbocharged and intercooled, 4-stroke diesel engine.

Air Cleaning: three stage

Model		Volvo TD 164 KAE	
Output at	30,0	r/s	(1800 r/min)
SAE J1349	gross 370	kW	(503 hp)
SAE J1349	net 366	kW	(498 hp)
Max. torque at	16,7	r/s	(1000 r/min)
SAE J1349	gross 2370	Nm	
SAE J1349	net 2330	Nm	
Displacement	16,12	l	



ELECTRICAL SYSTEM

Contronic monitoring system with complete information on the status of the machine's various systems is standard. Electrical system with circuit board, mounted in the cab, is well protected by fuses. Prewied for optional equipment.

Central warning: Central warning lamp for the following functions: engine oil pressure, engine coolant temperature (with buzzer), transmission oil pressure, transmission oil temperature, brake pressure, parking brake (buzzer), front axle oil temperature. Engine shut down to idle.

Voltage	24	V	
Batteries, series/parallel	4x12	V	
Battery capacity, total	238	Ah	
Cold cranking capacity, ea	1250	A	
Reserve capacity, ea	320	min	
Alternator rating	2240	W / 80 A	
Starter-motor output	7,5	kW	(10.0 hp)

DRIVETRAIN

Drivetrain and working hydraulics well-matched to achieve optimum productivity. Dependable well proven design throughout the whole drivetrain.

Torque converter: Single-stage.

Transmission: Power shift, countershaft with single lever control. Directional and range modulation provide fast and smooth shifting.

Shifting system: Volvo Automatic Power Shift (APS II) with mode selector.

Axles: Fully floating axle shafts with planetary-type heavy duty hub reductions. Cast-steel axle housing. Fixed front axle and oscillating rear axle. Posi-Torq limited-slip differentials in front and rear axle.

Torque Converter	C9672	
Transmission	C8421H	
Torque multiplication	2,29:1	
Speeds, max		
1 forward/reverse	6,6	km/h
2 forward/reverse	11,6	km/h
3 forward/reverse	19,9	km/h
4 forward only	34,2	km/h

Measured with tires	35/65R33 XLD D1* L-4	
Front axle and rear axle	21D 5568	
Oscillation, rear axle	±12	°
Total	564	mm

BRAKE SYSTEM

Simple, reliable system ensures high availability and safety. Self-adjusting, forced oil-cooled wet disc brakes give long service life.

Service brakes: Fully hydraulic operated system with outboard mounted oil-cooled, wet disc brakes at each wheel. Filtered and cooled oil circulates through each brake when engine is running. Transmission declutch during braking can be pre-selected by a switch on the instrument panel.

Parking brake: Dry disc type mounted on front axle input shaft. Spring applied, electro-hydraulically released via a switch on the instrument panel. Applies automatically when the key is turned off.

Secondary brake: Dual circuit axle-by-axle system. Actuated by service brake pedal. Low pressure alarm. Dead engine braking capability provided by two nitrogen-charged accumulators.

Pump: One variable-flow axial piston pump common with the pilot system.

Standards: The brake system complies with the requirements of ISO 3450, SAE J1473.

Brake pressure setting	6,55 MPa
Number of discs/wheel	6
Number of accumulators	2
Accumulators, volume each	4,0 l

STEERING SYSTEM

Low-effort hydrostatic, load-sensing steering system gives short work cycle times. Power-efficient system provides good directional stability and smooth ride and contributes to good fuel economy.

System supply: The steering system is fed by two load-sensing variable-flow axial piston pumps. The pumps will also feed the main hydraulic system, but steering system flow always has priority.

Cylinders: Double-acting cylinders with frame mounted rubber cushioned steer stops.

Steering cylinder	2	
Bore	125	mm
Piston rod diameter	70	mm
Stroke	493	mm
Relief pressure	21,5	MPa
Max. flow	370	l/min.
Articulation	± 35°	

Standards: Steering system complies with ISO 5010 and SAE J1511

CAB

Care Cab with easy entry and wide door opening. Lined with sound-absorbent material. Sound and vibration-suppressing suspension. Good all-round visibility, large glass areas. Curved windshield of laminated, green-tinted glass. Ergonomically located controls and instruments permit a comfortable operating position.

Instrumentation: All important information is readily visible to the operator is easily visible in front of him. Cab display for Contronic monitoring system.

Heater/defroster/air conditioner: Heating element and air conditioner with filtered fresh air and four-speed fan. Defroster outlets for all windows. Cab air can be recirculated.

Operator's seat: Spring suspended, adjustable operator's seat with belt. The seat is mounted on a bracket on the rear wall. The force from the belt is absorbed by the seat rails.

Standards: Tested and approved according to the following standards: ROPS (ISO 3471, SAE J1040), FOPS (ISO 3449, SAE J231). Complies with (ISO 6055) and "Operator Restraint System" (SAE J386).

Emergency exits	2	
Sound level in cab		
as per ISO 6394, max.	74	dB (A)
Exterior sound level		
ISO 6393	LwA 115	dB (A)
Ventilation	10	m^3/min
Heating capacity	11	kW
Air conditioning capacity	8	kW

HYDRAULIC SYSTEM

Load-sensing hydraulics distribute exactly the quantity of oil required for the function used. Load-sensing system gives precise control of the hydraulics throughout the lifting range. High pump capacity provides quick and smooth movements.

System supply: Four load-sensing variable-flow axial piston pumps. Steering function always has priority from two of the pumps.

Valve: Twin double-acting 2-spool valves. The main valves are actuated by a pilot valve.

Lift function: The valve has four functions: raise, hold, lower and float. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lift height.

Tilt function: The valve has three functions: rollback, hold and dump. Inductive/magnetic automatic bucket positioner can be switched on and off.

Cylinders: Double-acting cylinders for each function.

Filter: Full-flow filtration through 20 micron (absolute) filter cartridge.

Main system		
Relief pressure	21,5	MPa
Flow	740	l/min
at	10	MPa
and engine speed	30,0 r/s	(1800 r/min)
Pilot system		
Relief pressure	3,5	MPa
Cycle times		
Raise*	8,5	s
Dump*	1,8	s
Lower, empty	4,5	s
Total cycle time	14,8	s

** with load as per ISO 5998 and SAE J818*

LIFT-ARM SYSTEM

The Z-bar system is a dependable linkage with good breakout qualities. Ideal as a primary production unit.

Lift cylinder	2	
Bore	230	mm
Piston rod diameter	120	mm
Stroke	1170	mm
Tilt cylinder	2	
Bore	190	mm
Piston rod diameter	90	mm
Stroke	808	mm

OPERATIONAL DATA VOLVO L330C (STANDARD BOOM)

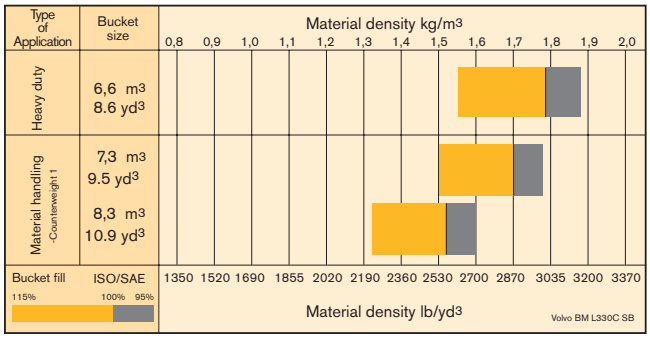
		HEAVY DUTY AND MATERIAL HANDLING								Material handling	
Tires 35/65R33 XLD D1 L-4 Michelin		Straight edge, STE	STE with teeth*	STE with BOE**	STE w/teeth* & wear caps	Spade nose, SPN	SPN with teeth*	SPN with BOE**	SPN w/teeth* & wear caps	Straight with BOE**	STE with BOE**
Volume, heaped	m^3	6,6	6,6	6,9	6,9	6,6	6,6	6,8	6,8	7,3	8,3
Volume, struck	m^3	5,6	5,6	5,9	5,9	5,6	5,6	5,8	5,8	6,4	7,1
Bucket weight	kg	4 510	4 940	5 030	5 270	5 070	5 490	5 640	5 820	4 700	4 940
Static tipping load, straight	kg	36 050	35 450	35 230	34 720	35 240	34 600	34 300	34 020	35 470	34 710
Static tipping load, at full turn	kg	31 830	31 210	31 000	30 470	30 990	30 340	30 040	29 760	31 250	30 500
Breakout force	kN	499,7	499,7	467,6	466,8	392,7	392,7	372,1	371,4	460,3	420,1
A	mm	9 960	10 320	10 080	10 360	10 350	10 720	10 470	10 760	10 100	10 260
L	mm	7 280	7 280	7 280	7 280	7 160	7 160	7 160	7 160	7 010	7 150
J	mm	4 690	4 690	4 650	4 640	4 690	4 690	4 650	4 640	4 650	4 630
H	mm	3 750	3 510	3 660	3 480	3 490	3 260	3 410	3 220	3 650	3 540
M	mm	1 700	1 980	1 740	1 940	2 000	2 280	2 040	2 250	1 760	1 860
N	mm	2 450	2 670	2 470	2 630	2 690	2 900	2 710	2 850	2 490	2 570
T	mm	90	90	130	140	90	90	130	140	130	140
E	mm	1 200	1 200	1 300	1 320	1 520	1 520	1 610	1 620	1 320	1 440
Operating weight	kg	47 910	48 340	48 430	48 670	48 470	48 900	49 040	49 230	48 100	48 340

Counterweight 1 included in operational data. Counterweight 1 may be used in material handling.
**Teeth, Combi-parts C5T9. Dimensions measured to tips of teeth. Other teeth may affect dimensions differently.*
***BOE – Bolt-on edges.*
Maximum grading angle = 46°

BUCKET SELECTION CHART

The volume handled varies with the bucket fill and is often greater than indicated by the bucket's ISO/SAE volume. The table shows optimum bucket choice with regard to the material density.

Material	**Bucket fill %**	**Density t/m³**
Earth	100–115	1,4–1,6
Clay	110–120	1,4–1,6
Sand	100–110	1,6–1,9
Gravel	100–110	1,7–1,9
Rock	75–100	1,5–1,9



BUCKET DIMENSIONS

Bucket dimensions		Straight edge, STE	STE with teeth*	STE with BOE**	STE w/teeth* & wear caps	Spade nose, SPN	SPN with teeth*	SPN with BOE**	SPN w/teeth* & wear caps	Straight with BOE**	STE with BOE**
b	mm	1 830	2 200	1 920	2 200	2 230	2 590	2 320	2 590	2 000	2 090
c	mm	1 820	1 820	1 860	1 860	1 790	1 790	1 830	1 830	1 850	1 890
d	mm	1 400	1 770	1 490	1 770	1 820	2 180	1 910	2 180	1 570	1 660
e	mm	3 850	3 850	3 850	3 850	3 900	3 900	3 900	3 900	3 830	3 830
V	mm	3 970	3 970	3 970	3 970	3 970	3 970	3 970	3 970	3 970	3 970
y	mm	65	65	65	65	65	65	65	65	65	65
a_1 clearance circle	mm	18 020	18 300	18 090	18 300	17 960	18 230	17 970	18 230	18 120	18 190

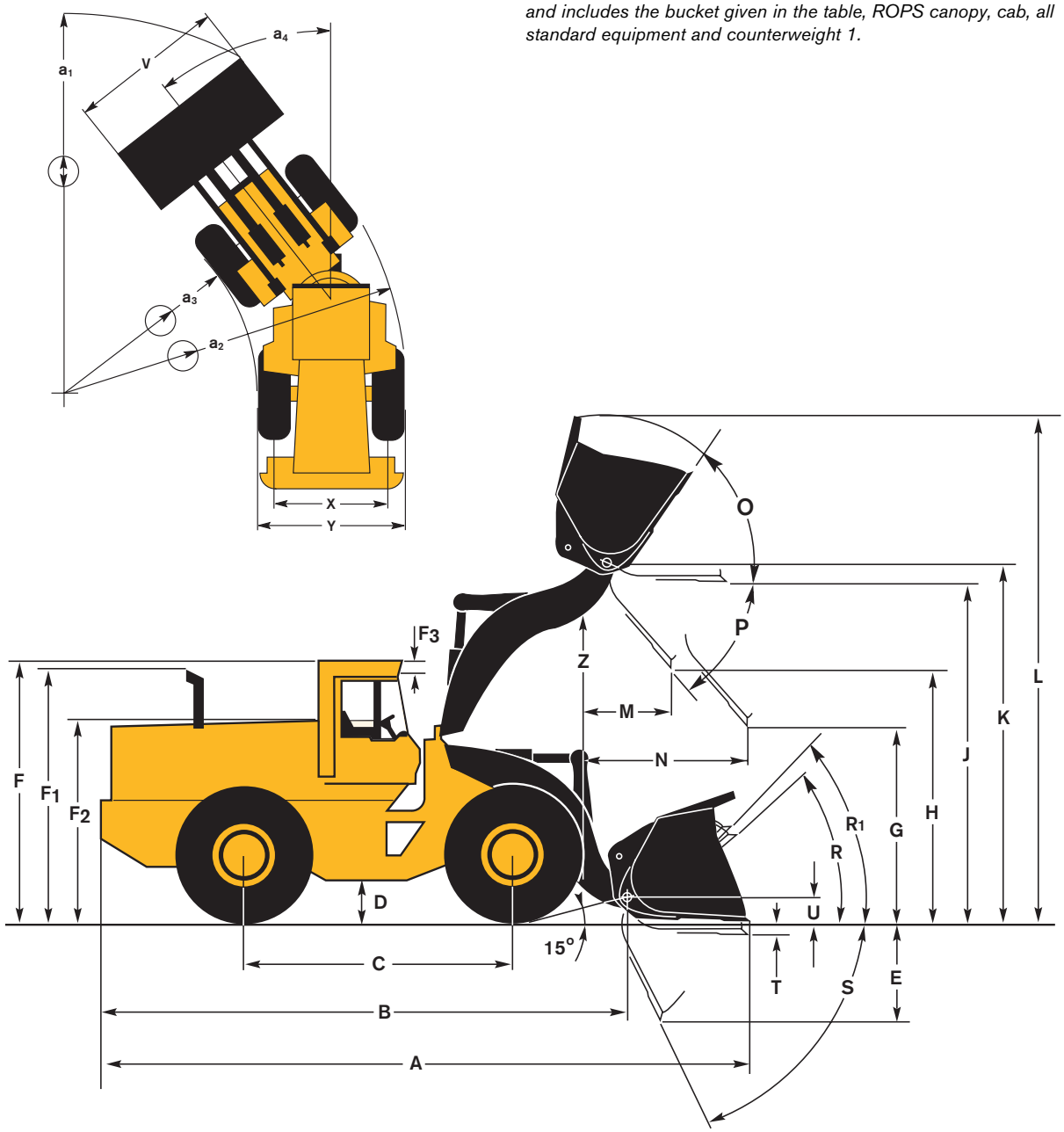
OPERATIONAL DATA & DIMENSIONS (STANDARD BOOM)

Tires 35/65R33 XLD D1 L-4 Michelin

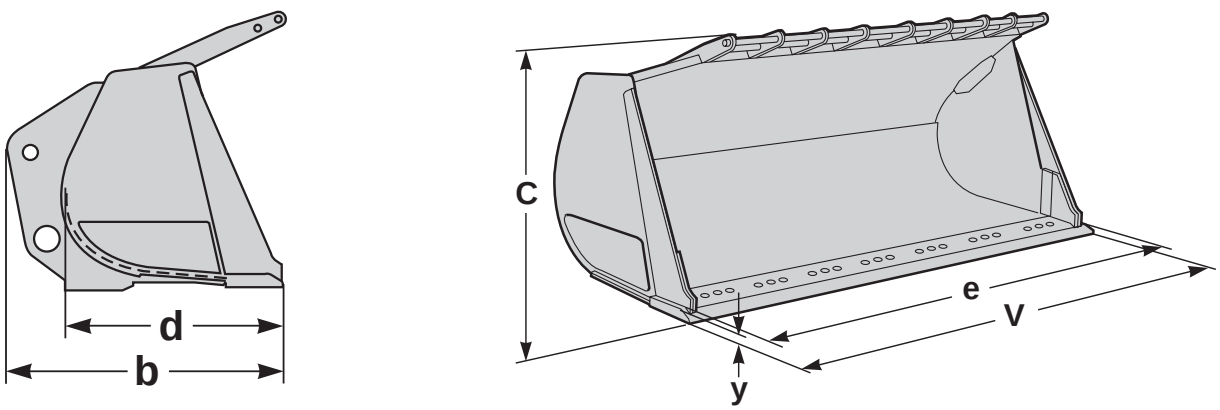
B	8 320	mm
C	4 060	mm
D	550	mm
F	4 170	mm
F1	3 840	mm
F2	3 150	mm
F3	40	mm
G	2 135	mm
K	5 040	mm
O	66	°
P	45	°
R	44	°
R_1*	51	°
S	57	°
U	400	mm
V	3 970	mm
X	2 720	mm
Y	3 630	mm
Z	4 140	mm
a_2	8 250	mm
a_3	4 620	mm
a_4	±35	°

** Carry position SAE*

Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 5998, SAE J818, ISO 8313.
Changes from the standard configuration may change machine dimensions and operating data. Operating weight is approximate and includes the bucket given in the table, ROPS canopy, cab, all standard equipment and counterweight 1.



BUCKET DIMENSIONS



SUPPLEMENTAL OPERATING DATA (STANDARD BOOM)

Tires 35/65R33 XLD D1 L-4 Michelin and counterweight 1

SUPPLEMENTAL OPERATING WEIGHT		Change in operating weight	Change in static tipping load, straight	Change in static tipping load, full turn
Counterweight #1 (removal)	kg	–1 040	- 2 300	- 2 050
ROPS canopy (removal) (for shipping only)	kg	– 760		
Optional tires: 35/65-33 (30PR) L-4 Firestone/ 35/65-33 (36PR) L-4 Firestone	kg	+ 990	+ 740	+ 670
35/65-33 (30PR) L-4 Goodyear	kg	+ 785	+ 585	+ 530
35/65-33 (30PR) L-5 Firestone	kg	+ 1 480	+ 1 110	+ 1 010
35/65-33 (30PR) L-5 Goodyear	kg	+ 1 470	+ 1 100	+ 1 000
35/65R33 RL-5K* L-5 Goodyear	kg	+ 1 180	+ 880	+ 803
35/65R 33 XLD D2* L-5 Michelin	kg	+ 640	+ 410	+ 360
35/65R 33 X MINE L-5 Michelin	kg	+ 1 230	+ 940	+ 880

SUPPLEMENTAL OPERATING DIMENSIONS		Change in height dimensions	Change in width
Optional tires: 35/65-33 (30PR) L-4 Firestone/ 35/65-33 (36PR) L-4 Firestone	mm	+ 40	– 17
35/65-33 (30PR) L-4 Goodyear	mm	+ 10	– 7
35/65-33 (30PR) L-5 Firestone	mm	+ 40	– 25
35/65-33 (30PR) L-5 Goodyear	mm	+ 10	– 13
35/65R33 RL-5K* L-5 Goodyear	mm	+ 20	– 9
35/65R 33 XLD D2* L-5 Michelin	mm	+ 15	
35/65R 33 X MINE L-5 Michelin	mm	+ 33	

SUPPLEMENTAL SHIPPING DIMENSIONS		Height dimensions without ROPS canopy	Height dimensions
Lower center hinge – top of cab	mm	3 560	
Rear frame – top of cab	mm	3 550	
Bottom of planetary – top of cab	mm	3 530	
Bottom of differential – top of cab	mm	3 500	
Bottom of wooden wheels – top of cab	mm	3 730	
Bottom of wooden wheels – planetary	mm		200
Bottom of wooden wheels – differential	mm		235

OPERATIONAL DATA VOLVO L330C (LONG BOOM)

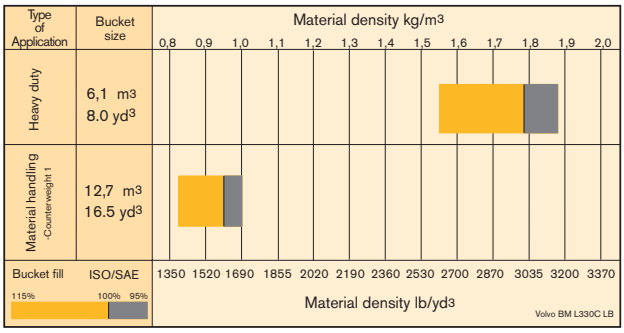
		Heavy duty and material handling								
Tires 35/65R33 XLD D1 L-4 Michelin		Straight edge, STE	STE with teeth*	STE with BOE**	STE w/teeth* & wear caps	Spade nose, SPN	SPN with teeth*	SPN with BOE**	SPN w/teeth* & wear caps	STE w/BOE**
Volume, heaped	m^3	6,1	6,1	6,4	6,4	6,1	6,1	6,3	6,3	12,7
Volume, struck	m^3	5,0	5,0	5,2	5,4	5,2	5,2	5,4	5,4	10,2
Bucket weight	kg	4 350	4 770	4 850	5 110	5 060	5 490	5 630	5 820	5 860
Static tipping load, straight		35 290	34 700	34 300	33 930	33 230	32 630	32 350	32 080	31 840
Static tipping load, at full turn	kg	31 140	30 550	30 150	29 780	29 180	28 570	28 290	28 010	27 740
Breakout force	kN	558,3	558,3	520,7	520,1	395,9	395,9	376,5	375,7	361,2
A	mm	10 190	10 550	10 300	10 310	10 730	11 090	10 840	11 130	10 920
L	mm	7 500	7 500	7 500	7 500	7 550	7 550	7 550	7 550	7 770
J	mm	5 080	5 080	5 040	5 030	5 070	5 070	5 040	5 020	5 030
H	mm	4 260	4 040	4 180	4 170	3 920	3 690	3 840	3 650	3 790
M	mm	1 720	2 010	1 760	1 760	2 140	2 420	2 190	2 390	2 250
N	mm	2 680	2 910	2 710	2 700	3 010	3 220	3 040	3 180	2 990
T	mm	80	80	120	130	90	90	120	140	130
E	mm	1 030	1 030	1 120	1 130	1 430	1 430	1 520	1 530	1 580
Operating weight	kg	49 110	49 530	49 610	49 870	49 820	50 250	50 390	50 580	50 620

Counterweight 1+2 included in operational data. Counterweight 1+2 may be used in material handling.
**Teeth, Combi-parts C5T9. Dimensions measured to tips of teeth. Other teeth may affect dimensions differently.*
***BOE – Bolt-on edges.*
Maximum grading angle = 46°

BUCKET SELECTION CHART

The volume handled varies with the bucket fill and is often greater than indicated by the bucket's ISO/SAE volume.The table shows optimum bucket choice with regard to the material density.

Material	**Bucket fill %**	**Density t/m³**
Earth	100–115	1,4–1,6
Clay	110–120	1,4–1,6
Sand	100–110	1,6–1,9
Gravel	100–110	1,7–1,9
Rock	75–100	1,5–1,9



BUCKET DIMENSIONS

Bucket dimensions		Straight edge, STE	STE with teeth*	STE with BOE**	STE w/teeth* & wear caps	Spade nose, SPN	SPN with teeth*	SPN with BOE**	SPN w/teeth* & wear caps	STE w/BOE**
b	mm	1 680	2 050	1 770	2 050	2 230	2 590	2 320	2 590	2 309
c	mm	2 030	2 030	2 070	2 070	2 070	2 070	2 110	2 110	2 325
d	mm	1 260	1 620	1 350	1 620	1 820	2 180	1 910	2 180	2 043
e	mm	3 850	3 850	3 850	3 850	3 900	3 900	3 900	3 900	4 371
V	mm	3 970	3 970	3 970	3 970	3 970	3 970	3 970	3 970	4 500
y	mm	65	65	65	65	65	65	65	65	65
a_1 clearance circle	mm	18 230	18 520	18 300	18 520	18 160	18 440	18 160	18 440	19 137

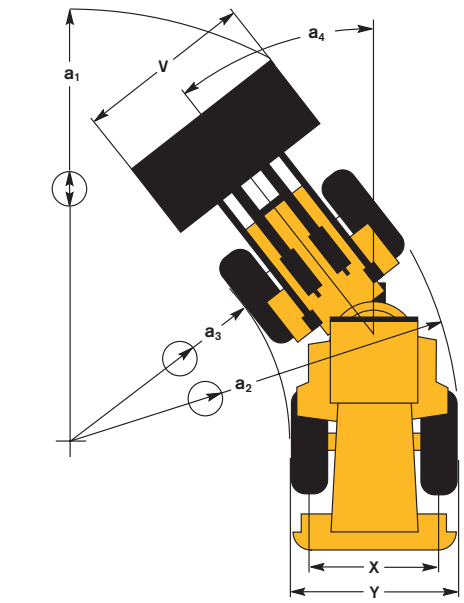
OPERATIONAL DATA & DIMENSIONS (LONG BOOM)

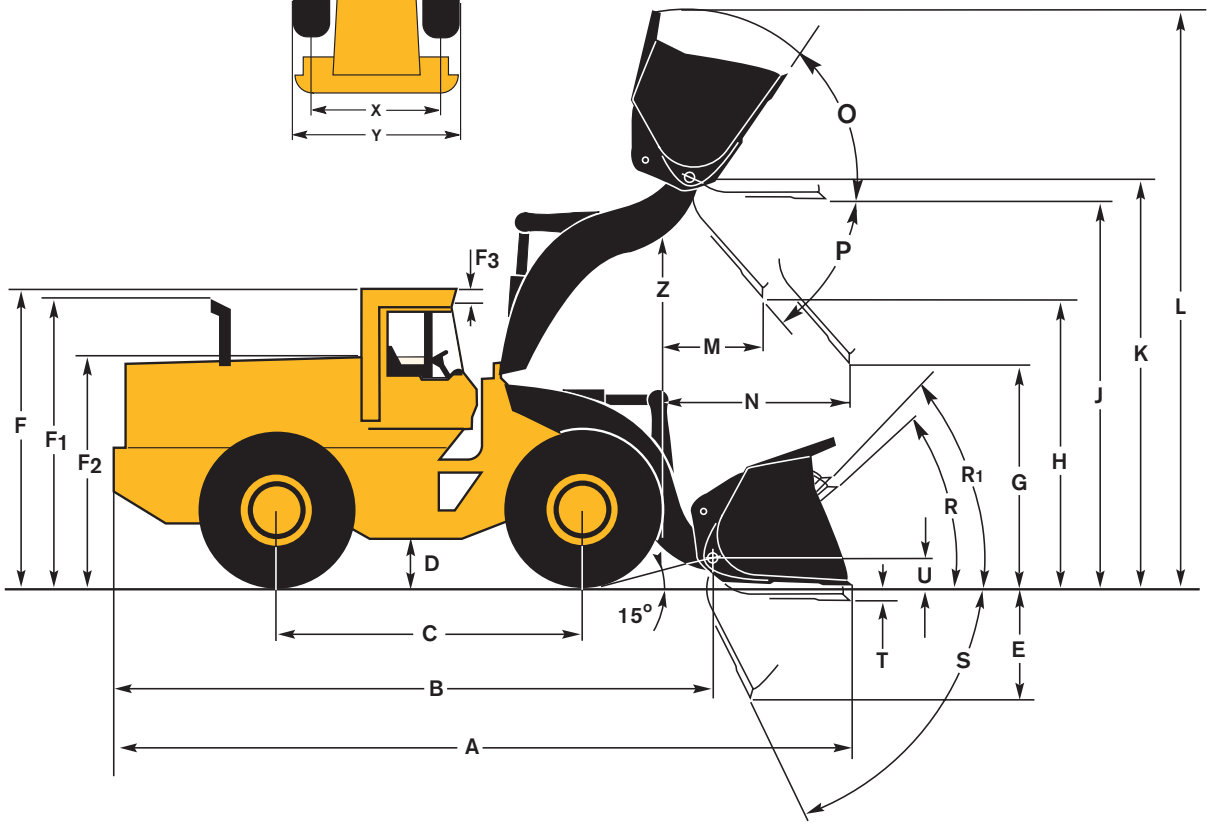
Tires 35/65R33 XLD D1 L-4 Michelin

B	8 700	mm
C	4 060	mm
D	550	mm
F	4 170	mm
F1	3 840	mm
F2	3 150	mm
F3	40	mm
G	2 135	mm
K	5 420	mm
O	66	°
P	45	°
R	44	°
R_1*	51	°
S	52	°
U	520	mm
V	3 970/4 500	mm
X	2 720	mm
Y	3 630	mm
Z	4 330	mm
a_2	8 250	mm
a_3	4 620	mm
a_4	±35	°

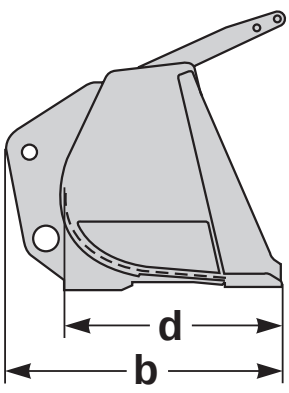
** Carry position SAE*

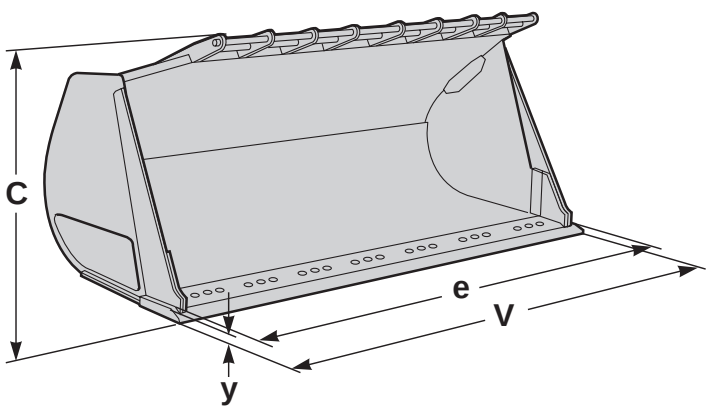
Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 5998, SAE J818, ISO 8313.
Changes from the standard configuration may change machine dimensions and operating data. Operating weight is approximate and includes the bucket given in the table, ROPS canopy, cab, all standard equipment and counterweight 1+2.





BUCKET DIMENSIONS





SUPPLEMENTAL OPERATING DATA (LONG BOOM)

Tires 35/65R33 XLD D1 L-4 Michelin and counterweight 1+2

SUPPLEMENTAL OPERATING WEIGHT		Change in operating weight	Change in static tipping load, straight	Change in static tipping load, full turn
Counterweight #1 (removal) (for shipping only)	kg	–1 040		
Counterweight #2 (removal)	kg	– 1 040	- 2 140	- 1 900
ROPS canopy (removal) (for shipping only)	kg	– 760		
Optional tires: 35/65-33 (30PR) L-4 Firestone/ 35/65-33 (36PR) L-4 Firestone	kg	+ 990	+ 690	+ 630
35/65-33 (30PR) L-4 Goodyear	kg	+ 785	+ 545	+ 495
35/65-33 (30PR) L-5 Firestone	kg	+ 1 480	+ 1 030	+ 940
35/65-33 (30PR) L-5 Goodyear	kg	+ 1 470	+ 1 025	+ 930
35/65 R33 RL-5K* L-5 Goodyear	kg	+ 1180	+ 820	+ 745
35/65 R 33* XLD D2 L-5 Michelin	kg	+ 640	+ 370	+ 330
35/65 R33* XMINE D2 L-5 Michelin	kg	+ 1 230	+ 770	+ 700

SUPPLEMENTAL OPERATING DIMENSIONS		Change in height dimensions	Change in width
Optional tires: 35/65-33 (30PR) L-4 Firestone/ 35/65-33 (36PR) L-4 Firestone	mm	+ 40	– 17
35/65-33 (30PR) L-4 Goodyear	mm	+ 10	– 7
35/65-33 (30PR) L-5 Firestone	mm	+ 40	– 25
35/65-33 (30PR) L-5 Goodyear	mm	+ 10	– 13
35/65R33 RL-5K* L-5 Goodyear	mm	+ 20	– 9
35/65 R 33* XLD D2 L-5 Michelin	mm	+ 15	
35/65 R33* XMINE D2 L-5 Michelin	mm	+ 33	

SUPPLEMENTAL SHIPPING DIMENSIONS		Height dimensions without ROPS canopy	Height dimensions
Lower center hinge – top of cab	mm	3 560	
Rear frame – top of cab	mm	3 550	
Bottom of planetary – top of cab	mm	3 530	
Bottom of differential – top of cab	mm	3 500	
Bottom of wooden wheels – top of cab	mm	3 730	
Bottom of wooden wheels – planetary	mm		200
Bottom of wooden wheels – differential	mm		235

STANDARD EQUIPMENT

Service and maintenance
Engine oil remote drain and fill
Lubrication manifolds, ground accessible
Radiator remote drain and fill
Transmission remote drain and fill
Pressure test ports: transmission and hydraulic, quick connect, grouped on console for easy access
Fan, hydraulic driven, swing out
Grille, rear, swing out

Engine
Air cleaner, dry type, dual element, with exhaust aspirated precleaner
Coolant filter
Coolant level sight gauge
Engine intake manifold pre-heater
Exhaust rain protection
Flat-round radiator
Low emission

Electrical System
24 volt – prewired for optional equipment
Alternator, 24 Volt, 80 Amp
Back-up alarm, acoustic
Battery disconnect switch, lockable
Gauges:
• engine temperature
• fuel level
• transmission temperature
Hourmeter
Horn, electric
Lights:
• instrument lighting
• parking lights
• stop/tail combination (2 rear)
• turn signals with hazard warning switch
• working lights, 60 watt
• halogen (6 front and 2 rear)

Contronic Monitoring System, ECU
Engine shut down to idle
Brake test
Neutral start feature
Test function for warning & monitoring lights
Information panel (Contronic): start configuration, setting language and units, operating hours, general operating information, stop wath/trip meter, cycle counter, service intervals
engine
electrical system
transmission
axlea/brakes
Central Warning (light with buzzer): engine oil pressure, engine coolant temperature (buzzer),transmission oil pressure, transmission oil temperature,
brake system pressure, parking brake applied and transmission in forward or reverse (buzzer),
front axle oil temperature (buzzer),
hydraulic oil temperature, high speed/gear (buzzer) transmission oil filter, fan circuit
Warning and Monitoring Lights:
• engine oil pressure
• engine coolant temperature
• air cleaner restriction
• alternator malfunction
• working lights
• preheating coil
• direction indicator
• hazard warning flasher
• transmission oil pressure
• transmission oil temperature
• brake system pressure
• parking brake applied
• front axle oil temperature
Neutral start feature
Test function for monitor and warning lights during start-up

Drivetrain
Countershaft transmission with directional and range modulation
Single lever control
Automatic Power Shift (APS II)
Operator controlled declutch
Kickdown to 1st switch on shift lever and hydraulic console
Brakes, full hydraulic, wet disc, continuous oil-cooled, 4 wheel dual-circuit, axle by axle
Secondary brake system, accumulator supplied
Differentials: Posi-Torq limited-slip front and rear

Tyres and rims
35/65-33

Cab and ROPS Canopy
ROPS Canopy (ROPS, SAE J1040, ISO 3471) FOPS, SAE J231, ISO 3449)
Cab (ROPS, SAE J1040, ISO 3471)
Acoustical lining
Air conditioner, 7kW, 24,000 Btu/h
Ashtray
Cigarette lighter
Door lockable (left side access)
Door-open struts
Heater/defroster/pressurizer 11 kW (37,500 Btu/h) with four speed blower fan
Filtered air for cab
Floor mat
Instrument panel with symbols
Interior light
Mirror, rearview interior
Mirror, rearview, exterior (2)
Operator seat, ISRI, air suspended, heated
Safety glass, tinted
Seat belt (SAE J386) retractable
Steering wheel, telescoping, adjustable tilt
Windshield washers front/rear
Storage compartment
Sun visor
Windshield wiper, front and rear
Window openable, right-hand side
Wiper, intermittent, front
Cab access steps, hand rails, service platforms with anti-skid surfaces (SAE J185)

Hydraulic System
Main, load-sensing valves, 2 spool, pilot-operated
Pilot valve, 3 spool
Four variable-flow axial piston pumps (2 have steering priority)
Boom and bucket control levers, fingertip
Boom lever detents
Boom lowering system
Boom kickout, automatic, adjustable
Bucket lever detents
Bucket leveler, automatic, adjustable
Control lever safety latch
Steer, load-sensing valve Orbitrol, hydrostatic
Hydraulic pressure test ports, quick connect
Hydraulic fluid level sight gauge
Hydraulic oil cooler

External
Drawbar with pin
Isolation mounts: cab, engine, transmission, radiator
Lifting lugs
Side panels, engine hood
Steering frame lock
Tie-down locations
Vandalism lock, provision for, batteries, engine coolant, fuel, hydraulic fluid, transmission/torque converter fluid, engine side panels
Boom to buckets pins with dual double-tapered roller bearings
Fenders, front
Mudflap

OPTIONAL EQUIPMENT *(May be standard in certain markets)*

Service and maintenance
Tool kit
Tool box, lockable
Automatic lubrication system

Engine equipment
Engine block heater, 120 V (US)
Engine block heater, 240 V 2500W (US)
Engine block heater, 220 V 1500W (Europ)
Universal

Electrical system
Rotating beacon
Working lights rear, extra
Battery for extrem cold weather

Drivetrain
Switch, forward/reverse at hydr. controls

Tyres and rims
35/65-33 (30 PR) L4 FS
35/65-33 (36 PR) L4 FS
35/65-33 (42 PR) L4 FS
35/65-33 (30 PR) L5 FS
35/65-33 (30 PR) L4 GY
35/65-33 (30 PR) L5 GY
35/65R33 RL-5K* L5 GY
35/65R33 XLD DI* L4 MI
35/65-33 XLD D2* L5 MI
35/65R33 XMINE D2* L5 MI

Wood protected rims
Heavy duty rims

Cab
Armrest (left) for ISRI operator seat
Dual brake pedals
Instructor's seat
Radio installation kit
Seat belt 3in
Sliding window, door
Sliding window right side
Sound reduction kit
Throttle, lockable
Single key door/start

Hydraulic system
Attachment locking, without bracket
Biodegradable hydraulic fluid
Boom Suspension System
Hydraulic function, 3rd
Hydraulic function, 4rd

External equipment
Counterweight 1 - 2 x 520 kg required with long boom
Counterweight 2 - 2 x 520 kg
Rear fender, swing-out

Protective equipment
Guards for stop/tail lights
Guards for std. workung light rear
Guards for headlights front
Windshield guard
Window guards side and rear window
Protection plates under cab
Belly guard front
Belly guard rear
Hose protection for boom cyl.hoses

Other equipment
Comfort Drive Control, CDC
Long boom
Secondary steering
Fuel fill strainer

Under our policy of continuous product improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

VOLVO

Volvo Construction Equipment Group

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