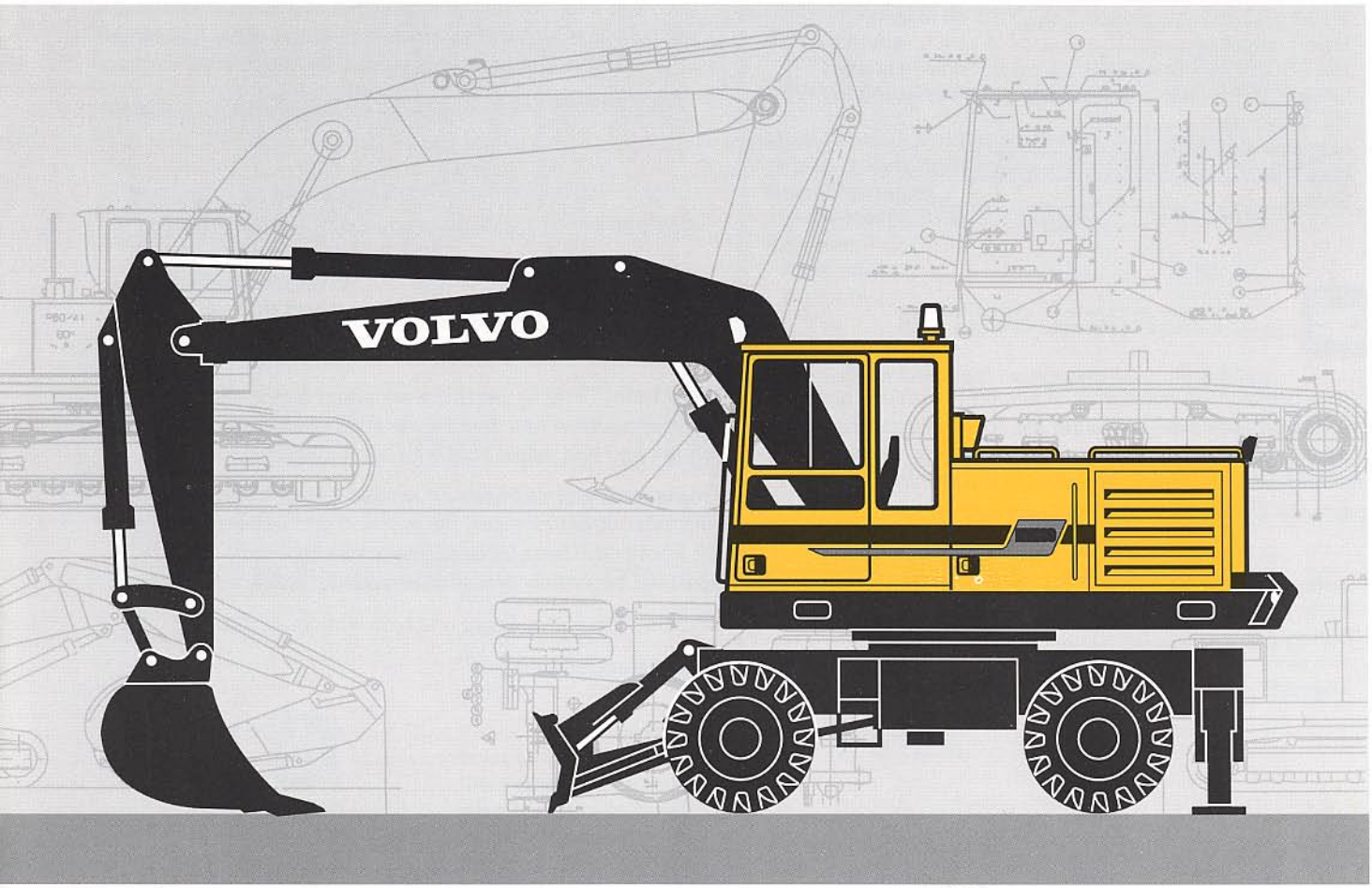
VOLVO EXCAVATOR

EW200



- **Engine Power: 110 kW (150 hp)**
- **Operating Weight: 16,0 – 18,0 t**
- **Buckets: 690 – 1 250 l**
- Low-emission, turbo-charged Volvo diesel engine with direct injection and intercooler
- Three-circuit multilevel priority hydraulic system
- COS = Capacity Optimized System – all three pumps for the digging movements
- Mode selector and hydraulic pump regulation (PSC) Pressure Sensing Control
- Care cab
  - computerized monitoring system
  - ergonomic environment
  - low sound level
  - filtered air
- Rugged digging equipment with spherical steel bearings
- Prepared for a number of optional items of equipment
- Individually operated outriggers and dozer blade
- Four travel speeds – Max. 30 km/h

VOLVO

ENGINE

The engine is a low-emission, turbocharged, 4-stroke diesel engine with intercooler, specially developed for excavator use. The machine can work at low engine speeds, contributing to good fuel economy, low sound level, less wear and longer life.

Air filter: 3-stage

Auto Idling: Reduces the engine speed to an idling speed when levers and pedals are not activated.

Make	Volvo	
Model	TD 63 KHE	
Power output at	30 r/s	1 800 rpm
Net (ISO 9249 / DIN 6271)	107 kW	(145 hp)
Gross (SAE J1349)	110 kW	(150 hp)
No. of cylinders	6	
Displacement, total	5,48 l	
Bore	98,43 mm	
Stroke	120 mm	

ELECTRICAL SYSTEM

Micro processor for monitoring of engine / hydraulic system. High capacity and well protected electrical system. Printed, circuit board based electric central with clearly arranged fuses and relays. Central prepared for connecting optional equipment. Battery disconnector standard.

Voltage	24 V
Battery	4 x 12 V
Battery capacity	120 Ah
Alternator	28 V / 55 A
Alternator rating	1 540 W

SLEWING SYSTEM

The superstructure is slewed by a axial piston motor through a servo released slew holding brake, into the slew gear giving torque to the inner tooth race of the slew ring.

Slew, start to stop*	
90° turn	5,0 s
180° turn	7,0 s
Slew speed	7,9 r/min

** Empty bucket – extended equipment*

SERVICE REFILL CAPACITIES

Fuel tank	290 l
Fuel pump capacity	60 l/min
Hydraulic system, total	320 l
Diesel engine oil	22 l
Cooling system (incl. glycol)	32 l
Slew gearbox	16,5 l
Travel gearbox	4,2 l

UNDERCARRIAGE

Drive train: One big variable axial-piston motor on the the mid-mounted two-step Power Shift gearbox gives power to front and rear axles, both with hub reductions.

Framework and support: All-welded robust torsion box frame with two outriggers on on the rear end and a dozer blade on the front end. These three supports can by choice be operated separately or simultaneously for quick repositioning.

Wheels: Alternative single and twin wheels available.

Front axle: Oscillating ±7°.

Twin wheels	10.00–20 PR14
Max. tractive force (brutto)	114 kN
Max. tractive force (net)	91 kN
Travel speed, road travel	30,0 km/h
Travel speed, site travel	7,0 km/h
Turning radius, front wheels	8,0 m

BRAKES

Brake system corresponds to ISO 3450.

Travel brakes: servo-hydraulically manoeuvred self-adjusting wet multidiscs in two separate brake circuits.

Parking brake: of drum type mounted on the gearbox, spring applied and pressure released.

Digging brake: without play is obtained through the same drum brake system.

Security system: the 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.

CARE CAB

Operator's cab with a supporting frame structure. Large panes for good all round visibility. The upper front pane can be pushed up into the ceiling. Sliding side window in the cab door.

Heater and defroster: Pressurizerd and filtered cab air is supplied by a 3-speed fan underneath the operator's seat. The air passes through the cab heater and can be distributed via 14 nozzles. Prepared for Air Conditioning.

Operator's seat: Electrically heated operator's seat with adjustable suspension and headrest. The fore / aft position, height and angle of the seat are adjustable, as is the lumbar support. Individually adjustable armrests and control levers.

Acoustics: Approved according to Directive 86/662/EEC.

Exterior noise (ISO 6 395)	
Average value L_{wA} (sound power level)	103 dB(A)
Operator's position (ISO 6 396)	
with the door closed	
L_{pA} (sound pressure level)	76 dB(A)

GROUND PRESSURE

Machine with **4,65 m monobloc boom,** 2,4 m dipper arm, 145 kg quickfit, 825 l bucket and 2 600 kg counterweight.

Operating weight	
incl. outriggers and dozer blade	17 350 kg
Axle load	
Front axle	7 950 kg
Rear axle	9 400 kg

Machine with **5,2 m monobloc boom,** 2,4 m dipper arm, 145 kg quickfit, 950 l bucket and 2 600 kg counterweight.

Operating weight	
incl. dozer blade (excl. outriggers)	17 500 kg
Axle load	
Front axle	7 700 kg
Rear axle	9 800 kg

Machine with **5,1 m 2-piece boom,** 2,4 m dipper arm, 145 kg quickfit, 900 l bucket and 2 600 kg counterweight.

Operating weight	
incl. dozer blade (excl. outriggers)	18 000 kg
Axle load	
Front axle	7 600 kg
Rear axle	10 400 kg

Operating weight	
(excl. dozer blade and outriggers)	17 400 kg
Axle load	
Front axle	6 750 kg
Rear axle	10 650 kg

HYDRAULIC SYSTEM

3-circuit hydraulic system all-servo controlled.

Pumps: P1 is a pressure controlled variable pump with priority to slew circuit. P2 and P3 are power- and pressure controlled variable pumps to the boom, dipper arm , bucket and travel circuits. Hydraulically controlled pump regulation for highest power output.

Mode selector: Three working modes:
HLD = Power Boost (Heavy Lift Device)
ECO = Economy
CAP = Capacity

Powerboost (HLD) is temporarily selectable 10 sec. even in Economy and Capacity mode.

Valve system: Boom, dipper arm and bucket are operated by dual main valves to obtain best combination of precision manoeuvrability and minimized fuel consumption.

Float position: Boom cylinder equipped with floating position valve for improved comfort and increased digging speed.

Security: Hose rupture valve on boom cylinder are standard.

Pump P1	
Max. pressure	28 MPa
Max. flow	64 l/min

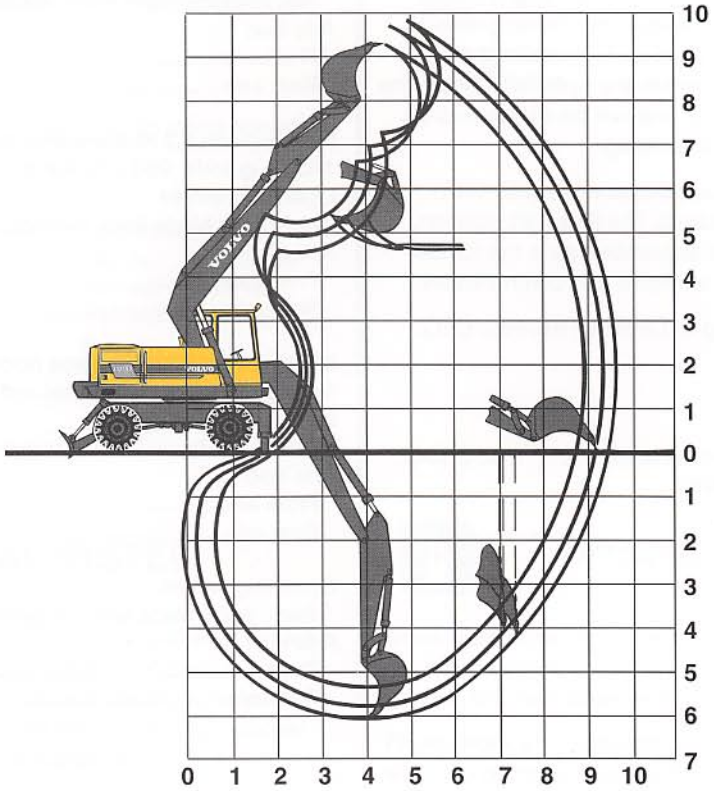
Pumps P2 and P3	
Max. pressure	26 MPa
Power boost (HLD)	30 MPa
Max. flow	2 x 114 l/min

Servo pump	
Pressure	6,5 MPa
Flow	18 l/min

Steering pump	
Pressure	14 MPa
Flow	29 l/min

DIGGING RANGES

Monobloc boom 4,65 m and dipper arm 2,0 m / 2,4 m / 2,8 m



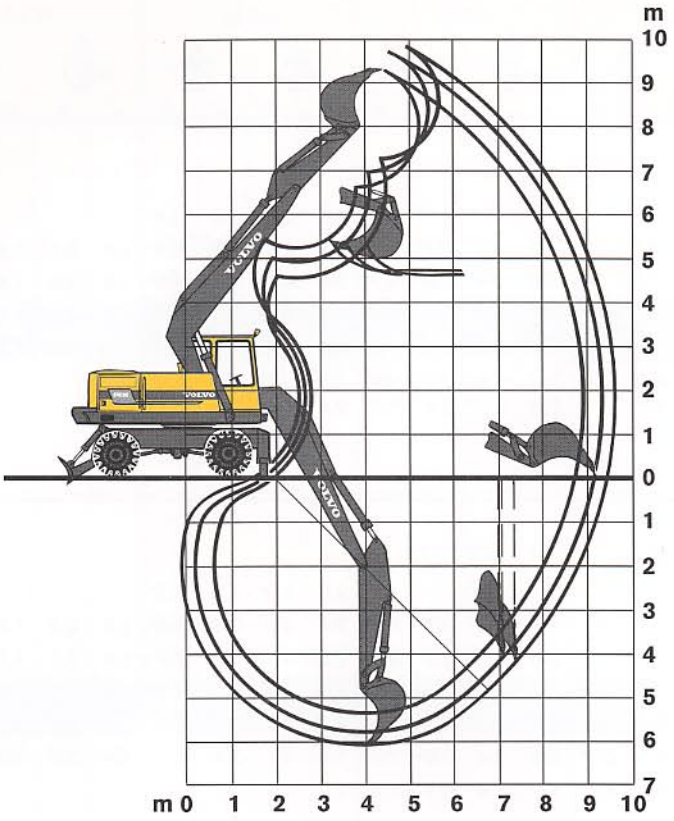
Monobloc boom	**m**	**4,65**	**4,65**	**4,65**
Dipper arm	**m**	**2,0**	**2,4**	**2,8**
Max. reach	m	8,5	8,9	9,2
Max. reach at ground level	m	8,3	8,7	9,0
Max. digging depth	m	5,0	5,4	5,7
Max. height ground				
– tooth tip	m	9,1	9,5	9,7
Max. dumping height	m	6,2	6,6	6,9
Max. practical dumping height	m	4,2	4,1	4,2
Practical digging depth for a material				
with a 45° angle of repose	m	4,1	4,4	4,6
Max. vertical digging depth	m	3,6	4,1	4,2
Min. front slew radius	m	3,1	3,3	3,4

Digging forces with quickfit and 725 l bucket:				
Breakout force	kN	126	126	126
Teraout force	kN	94	84	75

Max. permitted **buckets** for **quickfit**:				
GP-bucket 1,5 t/m³	l	1 250	1 140	1 040
GP-bucket 1,8 t/m³	l	1 090	990	910
RB-bucket 1,8 t/m³	l	1 030	940	860
RB-bucket 2,0 t/m³	l	950	860	790

DIGGING RANGES

Monobloc boom 5,2 m and dipper arm 2,0 m / 2,4 m / 2,8 m



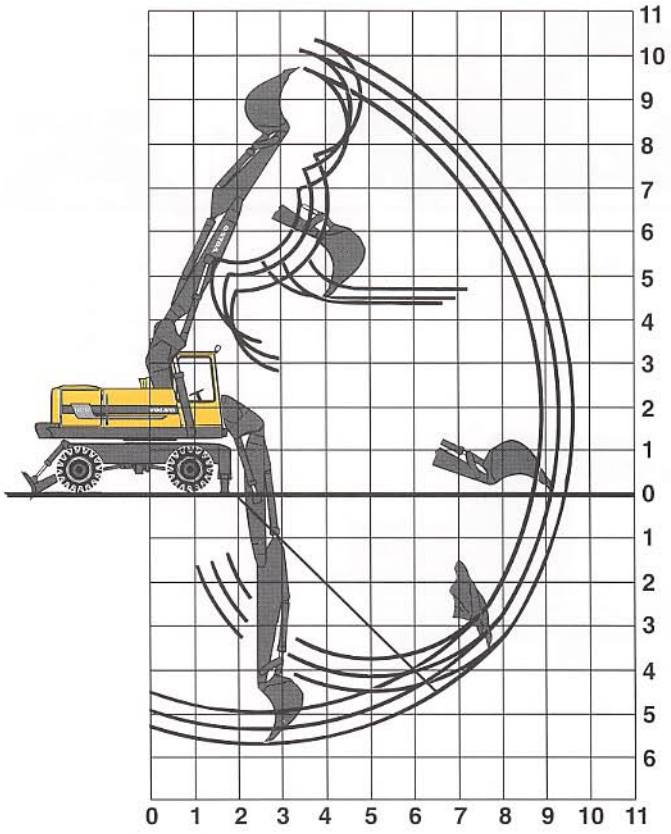
Monobloc boom	m	**5,2**	**5,2**	**5,2**
Dipper arm	m	**2,0**	**2,4**	**2,8**
Max. reach	m	9,1	9,4	9,7
Max. reach at ground level	m	8,9	9,2	9,5
Max. digging depth	m	5,6	5,8	6,1
Max. height ground				
– tooth tip	m	9,4	9,7	9,9
Max. dumping height	m	6,5	6,9	7,3
Max. practical dumping height	m	4,6	4,6	4,6
Practical digging depth for a material				
with a 45° angle of repose	m	4,5	4,7	4,9
Max. vertical digging depth	m	3,8	4,2	4,3
Min. front slew radius	m	3,3	3,5	3,5

Digging forces with quickfit and 725 l bucket:				
Breakout force	kN	126	126	126
Teraout force	kN	94	84	75

Max. permitted **buckets** for **quickfit**:				
GP-bucket 1,5 t/m³	l	1 070	980	910
GP-bucket 1,8 t/m³	l	930	850	790
RB-bucket 1,8 t/m³	l	890	810	750
RB-bucket 2,0 t/m³	l	820	750	700

DIGGING RANGES

2-piece boom 5,1 m and dipper arm 2,0 m / 2,4 m / 2,8 m

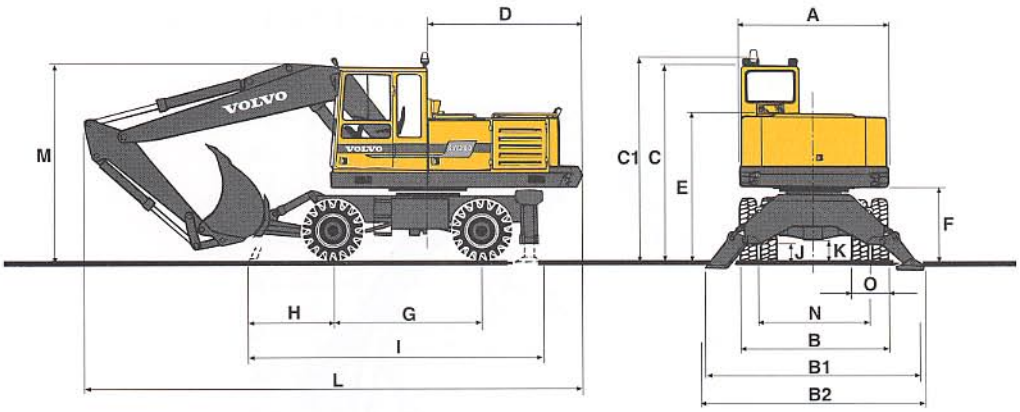


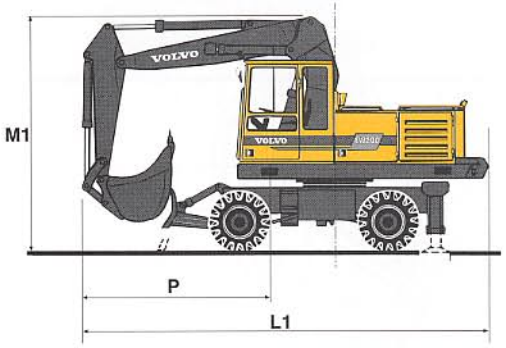
2-piece boom	**m**	**5,1**	**5,1**	**5,1**
Dipper arm	**m**	**2,0**	**2,4**	**2,8**
Max. reach	m	9,0	9,3	9,6
Max. reach at ground level	m	8,8	9,1	9,4
Max. digging depth	m	5,3	5,5	5,8
Max. height ground – tooth tip	m	9,8	10,1	10,3
Max. dumping height	m	6,8	7,6	7,7
Max. practical dumping height	m	4,3	4,4	4,7
Practical digging depth for a material with a 45° angle of repose	m	4,2	4,4	4,6
Max. vertical digging depth	m	3,1	3,4	3,6
Min. front slew radius	m	3,2	3,5	3,6

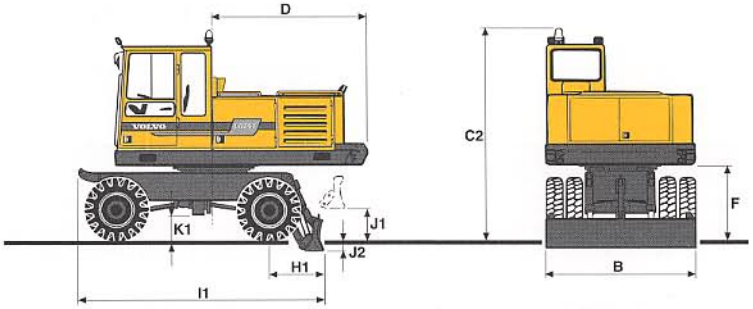
Digging forces with quickfit and 725 l bucket:				
Breakout force	kN	126	126	126
Teraout force	kN	94	84	75

Max. permitted **buckets** for **quickfit**:				
GP-bucket 1,5 t/m³	l	1 080	990	910
GP-bucket 1,8 t/m³	l	940	860	790
RB-bucket 1,8 t/m³	l	890	810	750
RB-bucket 2,0 t/m³	l	820	750	690

DIMENSIONS







			Boom	Dipper arm
A:	2 490 mm	L: 8 300 mm	4,65 m	2,0 m
B:	2 500 mm	L: 8 000 mm	4,65 m	2,8 m
B1:	3 690 mm	L: 8 800 mm	5,20 m	2,8 m
B2:	3 750 mm			
		L1: 6 860 mm	5,1 m 2-piece	2,0 m
C:	3 220 mm	L1: 6 970 mm	5,1 m 2-piece	2,4m and 2,8 m
C1:	3 360 mm			
C2:	3 490 mm	M: 3 500 mm	4,65 m	2,0 m
D:	2 600 mm	M: 3 800 mm	4,65 m	2,8 m
E:	2 410 mm	M: 3 700 mm	5,20 m	2,8 m
F:	1 180 mm			
		M1: 3 990 mm	5,1 m 2-piece	2,0 m and 2,4 m
G:	2 500 mm	M1: 4 300 mm	5,1 m 2-piece	2,8 m
H:	1 240 mm			
H1:	980 mm *(support blade rear)*	N: 1 910 mm		
I:	4 750 mm	O: 590 mm		
I1:	4 010 mm	P: 3 190 mm	5,1 m 2-piece	2,0 m
		P: 3 300 mm	5,1 m 2-piece	2,4 m and 2,8 m
J:	330 mm			
J1:	530 mm			
J2:	170 mm			
K:	360 mm			
K1:	430 mm			

LIFTING CAPACITY (At the quickfit lifting hook without bucket. Unit: tonne = 1 000kg)

Across undercarriage / Along undercarriage

Lifting point related to ground level m

Reach from machine center — u = support up — d = support down

Lifting point related to ground level m	3,0 m				4,5 m				6,0 m				7,5 m				Max. reach				Max.
	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m
4,65 m Monobloc boom 2,4 m Dipper arm Quickfit Outriggers and dozer blade 2 600 kg Counterweight																					
7,5 m																					
6,0 m									2,8	3,6*	2,8	3,6*					2,2	2,5*	2,2	2,5*	6,8
4,5 m					4,2	4,3*	4,1	4,3*	2,7	3,9*	2,7	3,9*	1,9	3,1*	1,8	3,1*	1,8	2,5*	1,8	2,5*	7,6
3,0 m					3,9	5,7*	3,8	5,7*	2,6	4,5*	2,5	4,5*	1,8	3,2	1,8	3,9*	1,6	2,6*	1,6	2,6*	8,0
1,5 m					3,5	6,7	3,4	7,0*	2,4	4,3	2,3	5,0*	1,7	3,1	1,7	4,1*	1,5	2,3*	1,5	2,3*	8,1
0,0 m					3,4	6,5	3,3	7,3*	2,3	4,2	2,2	5,3*	1,7	3,1	1,7	4,1*	1,6	2,9	1,6	3,0*	7,8
-1,5 m	6,3		6,0		3,4	6,5	3,3	6,9*	2,3	4,2	2,2	5,0*					1,8	3,0*	1,8	3,0*	7,2
-3,0 m	6,4		6,1		3,4	5,5*	3,4	5,5*	2,4	3,6*	2,3	3,6*					2,3	3,1*	2,3	3,1*	6,1
4,65 m Monobloc boom 2,8 m Dipper arm Quickfit Outriggers and dozer blade 2 600 kg Counterweight																					
7,5 m																					
6,0 m									2,5	3,2*	2,7	3,2*					1,8	2,4*	1,9	2,4*	7,2
4,5 m					3,8	3,8*	3,8*	3,8*	2,4	3,6*	2,6	3,6*	1,6	3,3	1,8	3,5*	1,4	2,1*	1,5	2,1*	8,0
3,0 m					3,5	5,2*	3,7	5,2*	2,3	4,2*	2,4	4,2*	1,6	3,2	1,7	3,7*	1,3	2,0*	1,4	2,0*	8,4
1,5 m					3,1	6,6*	3,3	6,6*	2,1	4,3	2,2	4,8*	1,5	3,1	1,6	4,0*	1,2	1,8*	1,3	1,8*	8,5
0,0 m	5,1	6,0*	5,4	6,0*	2,9	6,5	3,1	7,2*	2,0	4,2	2,1	5,2*	1,4	3,0	1,5	4,1*	1,3	2,4*	1,4	2,4*	8,2
-1,5 m	5,3	10,2*	5,5	10,2*	2,9	6,4	3,0	7,0*	1,9	4,1	2,1	5,1*	1,4	3,0	1,5	3,6*	1,4	2,8*	1,5	2,8*	7,6
-3,0 m	5,4	8,8*	5,7	8,8*	2,9	5,9*	3,1	5,9*	2,0	4,2	2,1	4,2*					1,8	2,9*	1,9	2,9*	6,6
5,2 m Monobloc boom 2,4 m Dipper arm Quickfit Outriggers and dozer blade 2 600 kg Counterweight																					
7,5 m									2,5	3,3*	2,6	3,3*					2,3	3,0*	2,5	3,0*	6,2
6,0 m									2,5	3,2*	2,6	3,2*					1,7	3,1*	1,8	3,1*	7,4
4,5 m					3,7	4,3*	3,9	4,3*	2,4	3,6*	2,5	3,6*	1,6	3,2	1,7	3,3*	1,4	2,6*	1,5	2,6*	8,2
3,0 m					3,2	5,7*	3,4	5,7*	2,2	4,3*	2,3	4,3*	1,5	3,1	1,6	3,6*	1,2	2,6	1,3	3,1*	8,5
1,5 m					2,9	6,4	3,1	6,8*	2,0	4,2	2,1	4,8*	1,4	3,0	1,6	3,9*	1,2	2,5	1,3	3,0*	8,6
0,0 m					2,8	6,3	3,0	7,1*	1,9	4,1	2,0	5,1*	1,4	3,0	1,5	4,0*	1,2	2,5	1,3	2,8*	8,4
-1,5 m	5,2	7,1*	5,5	7,1*	2,8	6,3	3,0	6,8*	1,8	4,0	2,0	5,0*	1,4	3,0	1,5	3,8*	1,3	2,8	1,4	3,4*	7,8
-3,0 m	5,3	8,3*	5,6	8,3*	2,8	5,8*	3,0	5,8*	1,9	4,1	2,0	4,2*					1,6	3,4*	1,8	3,4*	6,8
5,2 m Monobloc boom 2,8 m Dipper arm Quickfit Outriggers and dozer blade 2 600 kg Counterweight																					
7,5 m									2,6	2,9*	2,7	2,9*					2,0	2,7*	2,2	2,7*	6,7
6,0 m									2,5	2,9*	2,7	2,9*	1,7	3,0*	1,8	3,0*	1,5	2,3*	1,6	2,3*	7,9
4,5 m					3,7	3,8*	3,8*	3,8*	2,4	3,4*	2,5	3,4*	1,6	3,1*	1,7	3,1*	1,2	2,2*	1,3	2,2*	8,6
3,0 m					3,3	5,2*	3,5	5,2*	2,2	4,0*	2,3	4,0*	1,5	3,1	1,6	3,4*	1,1	2,4	1,2	2,5*	8,9
1,5 m					2,9	6,5	3,1	6,6*	2,0	4,2	2,1	4,6*	1,4	3,0	1,5	3,7*	1,0	2,3	1,1	2,4*	9,0
0,0 m					2,7	6,3	2,9	7,1*	1,8	4,1	2,0	5,0*	1,3	2,9	1,5	3,9*	1,1	2,3*	1,2	2,3*	8,8
-1,5 m	5,1	6,8*	5,3	6,8*	2,7	6,2	2,9	6,9*	1,8	4,0	1,9	5,0*	1,3	2,9	1,4	3,8*	1,2	2,6	1,3	3,0*	8,2
-3,0 m	5,2	8,9*	5,4	8,9*	2,7	6,1*	2,9	6,1*	1,8	4,0	2,0	4,5*					1,4	3,1	1,5	3,2*	7,3
-4,5 m					2,9	4,2*	3,1	4,2*									2,2	3,1*	2,4	3,1*	5,5

Note: For lift capacity including bucket, simply subtract actual weight of bucket from the above values.

* Load capacity limited by machine's hydraulic lifting capacity.

The above values have been calculated in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load with the machine on firm, level ground. Working pressure with HLD = 30 MPa (300 bar)

LIFTING CAPACITY (At the quickfit lifting hook without bucket. Unit: tonne = 1 000kg)

Across undercarriage / Along undercarriage	Lifting point related to ground level m	Reach from machine center — u = support up, d = support down																				Max. reach m
		3,0 m				4,5 m				6,0 m				7,5 m				Max. reach				
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	
5,1 m 2-piece boom 2,4 m dipper arm Quickfit Outriggers and dozer blade Counterweight 2 600 kg	7,5 m									2,7	4,0*	2,6	4,0*					2,6	3,5*	2,5	3,5*	6,1
	6,0 m									2,7	4,1*	2,7	4,1*					1,8	2,9*	1,8	2,9*	7,4
	4,5 m					4,1	5,5*	4,0	5,5*	2,6	4,4*	2,5	4,4*	1,8	3,2	1,7	3,8*	1,5	2,8	1,5	3,2*	8,1
	3,0 m					3,5	6,5*	3,4	6,5*	2,4	4,4	2,3	4,8*	1,7	3,1	1,7	3,9*	1,3	2,5	1,3	3,0*	8,5
	1,5 m					3,2	6,4	3,1	7,0*	2,2	4,1	2,1	5,1*	1,6	3,0	1,6	3,9*	1,3	2,4	1,3	2,6*	8,6
	0,0 m					3,1	6,2	3,0	6,8*	2,1	4,0	2,0	5,0*	1,5	2,9	1,5	3,8*	1,3	2,6	1,3	3,1*	8,3
	-1,5 m					3,1	5,8*	3,0	5,8*	2,1	4,0	2,0	4,3*	1,6	3,0	1,5	3,0*	1,5	2,7*	1,5	2,7*	7,7
5,1 m 2-piece boom 2,8 m Dipper arm Quickfit Outriggers and dozer blade 2 600 kg Counterweight	7,5 m									2,5	3,9*	2,6	3,9*					2,0	3,2*	2,1	3,2*	6,6
	6,0 m									2,5	3,9*	2,6	3,9*	1,6	3,3	1,7	3,6*	1,4	2,8*	1,6	2,8*	7,8
	4,5 m					3,7	4,3*	3,8	4,3*	2,3	4,2*	2,5	4,2*	1,6	3,2	1,7	3,6*	1,2	2,6	1,3	2,7*	8,5
	3,0 m					3,2	6,1*	3,4	6,1*	2,1	4,4	2,2	4,6*	1,5	3,1	1,6	3,8*	1,0	2,3	1,1	2,4*	8,9
	1,5 m					2,8	6,4	3,0	6,9*	1,9	4,1	2,0	5,0*	1,3	3,0	1,5	3,9*	1,0	2,3	1,1	2,9*	8,9
	0,0 m					2,6	6,2	2,8	6,8*	1,8	4,0	1,9	5,0*	1,3	2,9	1,4	3,8*	1,0	2,4	1,1	2,9*	8,7
	-1,5 m	4,8	6,2*	5,1	6,2*	2,6	6,0*	2,8	6,0*	1,7	3,9	1,9	4,5*	1,3	2,9	1,4	3,3*	1,1	2,5*	1,2	2,5*	8,2
5,1 m 2-piece boom 2,4 m Dipper arm Quickfit Support blade rear 2 600 kg Counterweight	7,5 m									2,7	2,7	2,3	4,0*					2,6	2,6	2,2	3,5*	6,1
	6,0 m									2,7	2,8	2,4	4,1*					1,8	1,8	1,6	3,0*	7,4
	4,5 m					4,1	4,1*	3,5	5,5*	2,6	2,6	2,2	4,4*	1,8	1,8	1,5	3,3	1,5	1,5	1,3	2,8	8,1
	3,0 m					3,5	3,6	3,0	6,5*	2,4	2,4	2,0	4,4	1,7	1,7	1,4	3,2	1,3	1,4	1,1	2,6	8,5
	1,5 m					3,2	3,2	2,7	6,5	2,2	2,2	1,8	4,2	1,6	1,6	1,3	3,0	1,3	1,3	1,1	2,5	8,6
	0,0 m					3,1	3,1	2,6	6,4	2,1	2,1	1,7	4,1	1,5	1,6	1,3	3,0	1,3	1,4	1,1	2,6	8,3
	-1,5 m					3,1	3,2	2,6	5,8*	2,1	2,1	1,7	4,1	1,6	1,6	1,3	3,0*	1,5	1,5	1,3	2,7*	7,7
5,1 m 2-piece boom 2,8 m Dipper arm Quickfit Support blade rear 2 600 kg Counterweight	7,5 m									2,4	2,8	2,4	3,9*					1,9	2,3	1,9	3,2*	6,6
	6,0 m									2,4	2,8	2,3	3,9*	1,5	1,8	1,5	3,3	1,4	1,7	1,4	2,8*	7,8
	4,5 m					3,6	4,2	3,5	4,3*	2,2	2,7	2,2	4,2*	1,5	1,8	1,5	3,3	1,1	1,4	1,1	2,6	8,5
	3,0 m					3,1	3,7	3,0	6,1*	2,0	2,4	2,0	4,5	1,4	1,7	1,4	3,1	1,0	1,2	1,0	2,4	8,9
	1,5 m					2,7	3,3	2,6	6,5	1,8	2,2	1,8	4,2	1,3	1,6	1,3	3,0	1,0	1,2	0,9	2,3	8,9
	0,0 m					2,5	3,1	2,4	6,3	1,7	2,1	1,6	4,0	1,2	1,5	1,2	2,9	1,0	1,2	1,0	2,4	8,7
	-1,5 m	4,6	5,9	4,4	6,2*	2,5	3,1	2,4	6,0*	1,6	2,0	1,6	4,0	1,2	1,5	1,2	2,9	1,1	1,4	1,1	2,5*	8,2

Note: For lift capacity including bucket, simply subtract actual weight of bucket from the above values.

* Load capacity limited by machine's hydraulic lifting capacity.

The above values have been calculated in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load with the machine on firm, level ground. Working pressure with HLD = 30 MPa (300 bar)

STANDARD EQUIPMENT

Engine and Electrical System
Computerized controlled monitoring system
Battery disconnector and fuel shut-off cock
Auto idling
3-stage air filter with indicator
Hour meter
Tachometer
Fuel level gauge
Temperature gauge for coolant and hydraulic oil
Electric preheating coil
24 V electrical system

Undercarriage
4-wheel drive
Oscillating front axle ±7°
Axles with hub reduction
2-circuit travel brakes

Safety and Comfort
Safety bar to prevent accidental actuation via levers and pedals
Hose rupture valve on boom cylinder
Hydraulically powered fuelling pump, 60 l/min
Overload alarm
Rotating warning beacon
Working lights (halogen):
3 front
1 rear
Interior lighting in cab, engine and fuel filling compartment
Rear view mirrors,
3 exterior
1 interior
Cab heating and filtered air intake
Ergonomic, electrically heated operator's seat
Adjustable steering wheel
Cab skylight
Sliding side window in the cab door
Emergency exit through rear window
Tinted windows (clear front)
Interior sun visor
Upper and lower windscreen wipers with intermittent funticon
Windscreen washer
Horn

Hydraulics
Float position
3 variable axial piston pumps
Mode selector, 3 steps
Power boost (HLD)
Dual main valve for the travel and equipment functions
Standard filter cartridges for return, leak oil and breathing filter
Swing-out oil cooler

Digging Equipment
Spherical steel link bearings in all large pivot points
Electric end dampening on boom- and dipper arm cylinder
Safety lifting hook
Friction welded piston rod eyes

ALTERNATIVE EQUIPMENT

Undercarriage
Twin wheels
10.00 – 20 PR14
11.00 – 20 PR 16
Solid tyres
Single wheels
Dozer blade in front, and two outriggers rear
Dozer blade 2,5 m or 2,6 m
Oscillating outriggers plates
Support blade, rear

Superstructure
Counterweight 2 600 kg

Digging Equipment
Booms
4,65 m monobloc
5,1 m 2-piece
5,2 m monobloc

Dipper arms
2,0 m
2,4 m
2,8 m

Buckets
Buckets for quickfit
725 l
825 l
900 l

Hydraulic quickfit
(weight: 145 kg)

OPTIONAL EQUIPMENT *(Standard on certain markets)*

Engine and Electrical System
Diesel driven engine and cab heater with digital timer
Electric over speed protector
Electric engine heater, 220 V
Extra headlights on boom

Undercarriage
Tool box
Mud guards
Widening rings 2 x 50 mm
Stone protection rings

Safety and Comfort
Protective net for windshield
Protective bars for skylight (jFOPS 3 449 approved)
Protective cab roof (FOGS ISO 10 262 approved)
Fire extinguisher
Seat belts
Protection against overfilling fuel
Extra circulation pump for the heating system
Extra hose rupture valve on dipper arm/bucket cylinder
Exterior sun visor
Wheelknob
Spark screen for dipper arm cylinder
Rear window jalousie
Air conditioning
Micro filter for cab
Radio with tape player
Cruise controller
Tool kit

Hydraulics
Biodegradeable hydraulic oil
Hydraulic equipment for:
Slope bucket
Roto-tilt
Grab
Hydraulic hammer
Shears
Crusher
Jib
Magnet
Hydraulic Quickfit
Installation of a 4th working pump
Thermostat kit

VOLVO

Volvo Construction Equipment Group

Ref. No. 21 1 430 0155 English global
Printed in Sweden 10.98 – 4,0 EXC
Volvo, Eslöv