EC140B LC



- Engine power, gross: 73 kW 98 hp
- Operating weight: 13.4 ~ 15.2 t 29,529 ~ 33,450 lb
- Buckets (SAE):
 600 ~ 975 I
 0.78 ~ 1.28 yd³
- Turbocharged Volvo diesel engine with direct injection
- Contronics advanced mode selection system and electronically-controlled system
- Two variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by "Automatic Sensing Work Mode."
- Cab
- Ergonomic environment
- Low sound level
- Filtered air
- Hydraulic dampening mounts
- Fabric seat with heater and air suspension

- Strong digging equipment produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Auxiliary hydraulic valve as standard
- Prepared for a number of optional items





ENGINE

The engine is a turbocharged, 4-stroke diesel engine with water cooling, direct injection. The engine has been developed especially for excavator use, providing good fuel economy, low noise levels and a long service life.

Air Filter: 2-stage

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 level.

Low-Emission Engine

Make · · · · · · · · · · VOLVO Model · · · · · · · D4D EAE1

Power output at · · · · · 35 r/s 2,100 rpm

Net (ISO 9249/

DIN 6271) · · · · · 69 kW 93 hp Gross (SAE J1349) · · 73 kW 98 hp Max. torque · · · · · · 390 N·m at 1,500 rpm

288 lb·ft at 1,500 rpm

No. of cylinders · · · · · 4

 Displacement
 4 |
 244 cu.in

 Bore
 101 mm
 3.98"

 Stroke
 126 mm
 4.96"



ELECTRICAL SYSTEM

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

Contronics provides advanced monitoring of machine function and important diagnostic information.

Voltage · · · · · · · 24 V

Batteries · · · · · · 2 x 12 V

Battery capacity · · · · 100 Ah (MF)

Alternator · · · · · · 28 V/80 A



SERVICE REFILL CAPACITIES

Fuel tank · · · · · · · · · · · · · · · · · · ·	260 I	68.7 gal
Hydraulic system, total · · · · · · ·	205 I	54.2 gal
Hydraulic tank · · · · · · · · · · · · · · · · · · ·	100 I	26.4 gal
Engine oil · · · · · · · · · · · · · · · · · · ·	15.5 l	4.1 gal
Engine coolant · · · · · · · · · · · · · · · · · · ·	20.3 I	5.4 gal
Swing reduction unit · · · · · · · ·	3.8 I	1.0 gal
Travel reduction unit2	x 3.5 l	2 x 0.9 gal



SWING SYSTEM

The superstructure is swung by the means of an axial piston motor and a planetary reduction gear. Automatic swing holding brake and anti-rebound valve are standard.

Max. swing speed · · · · · · · · · · 11.0 rpm



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 in the track frame.

Max. drawbar pull (tractive effort) · · · ·	109.8 kN
•	24,700 lb
Max. travel speed · · · · · · · · · · · · · · · · · ·	
	2.0/3.4 mph
Gradeability	35° 70 %



UNDERCARRIAGE

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

No. of track pads $\,\,\cdots\,$ $\,\,$ $\,$ $\,$ 46

Shoe width, triple grouser $\,\cdots\,500/600(Std.)/700/750$ mm

20"/24"(Std.)/28"/30"

No. of bottom track rollers $\cdots 2 \times 7$ No. of top rollers $\cdots 2 \times 1$

HYDRAULIC SYSTEM

The hydraulic system, named "Automatic Sensing Work Mode," is designed for high productivity, high digging capacity, high maneuvering precision and good fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provides optimum performance.

The following important functions are included in the system:

Summation system: Combining 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 deep excavation.

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

Swing priority: Supplies priority to the swing operation for faster swing during simultaneous operations.

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

Power boost: All digging and lifting forces are increased.

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

Main pump

Type · · · · · · 2 x variable displacement axial piston pumps

Maximum flow · · · 2 x 118 l/min 2 x 31 gpm

Pilot pump

Type · · · · · Gear pump

Maximum flow · · · 1 x 21 l/min 5.5 gpm

Hydraulic motors

Travel · · · · · · Variable displacement axial piston motors Swing · · · · · Fixed displacement axial piston motor with

mechanical brake

Relief valve setting

Hydraulic cylinders

Boom 2

bore x stroke · · ø105 x 980 mm

ø 4.1" x 38.6"

Arm · · · · · · · 1

bore x stroke $\,\cdot\cdot\,$ ø120 x 1,045 mm

ø 4.7" x 41.1"

Bucket · · · · · · 1

bore x stroke · · ø100 x 865 mm

ø 3.9" x 34.1"

A

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 a 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. The glass is stored in the door.

Integrated air-conditioning and heating system:

The pressurized and filtered cab air is supplied by automatically controlled fan. The air is distributed via 13 vents.

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

Sound Level:

Sound level in cab	
according to ISO 6396	LpA 72 dB(A)
External sound level	
according to ISO 6395	LwA 100 dB(A)
(Directive 2000/14/EC)	

GROUND PRESSURE

• LC undercarriage with Std. 4.6 m, 15' 1" boom, Std. 2.5 m, 8' 2" arm, 400 kg, 880 lb bucket and 2,100 kg, 4,630 lb counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
	500 mm	13,390 kg	40.3 kPa	2,490 mm
	20"	29,520 lb	5.9 psi	8' 2"
Triple grouser	Std. 600 mm	13,600 kg	34.1 kPa	2,590 mm
	24 "	29,990 lb	5.0 psi	8' 6"
	700 mm	13,810 kg	29.7 kPa	2,690 mm
	28 "	30,450 lb	4.3 psi	8' 10"
	750 mm	13,920 kg	28.0 kPa	2,740 mm
	30 "	30,690 lb	4.1 psi	9' 0 "

• LC undercarriage with Std. 4.6 m, 15' 1" boom, Std. 2.5 m, 8' 2" arm, 400 kg, 880 lb bucket and 2,450 kg, 5,400 lb counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
	500 mm	13,740 kg	41.4 kPa	2,490 mm
	20 "	30,300 lb	6.0 psi	8' 2"
Triple grouser	Std. 600 mm	13,950 kg	35.0 kPa	2,590 mm
	24 "	30,760 lb	5.1 psi	8' 6"
	700 mm	14,160 kg	30.5 kPa	2,690 mm
	28 "	31,220 lb	4.4 psi	8' 10"
	750 mm	14,270 kg	28.7 kPa	2,740 mm
	30 "	31,470 l b	4.2 psi	9' 0 "

• LC undercarriage dozer blade with Std. 4.6 m, 15' 1" boom, Std. 2.5 m, 8' 2" arm, 400 kg, 880 lb bucket and 2,100 kg, 4,630 lb counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
	500 mm	14,290 kg	43.0 kPa	2,490 mm
	20"	31,510 lb	6.2 psi	8' 2"
Triple grouser	Std. 600 mm	14,500 kg	36.4 kPa	2,590 mm
	24"	31,970 lb	5.3 psi	8' 6"
	700 mm	14,710 kg	31.6 kPa	2,690 mm
	28 "	32,440 lb	4.6 psi	8' 10"
	750 mm	14,820 kg	29.8 kPa	2,740 mm
	30 "	32,680 lb	4.3 psi	9' 0 "

• LC undercarriage dozer blade with Std. 4.6 m, 15' 1" boom, Std. 2.5 m, 8' 2" arm, 400 kg, 880 lb bucket and 2,450 kg, 5,400 lb counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
	500 mm	14,640 kg	44.1 kPa	2,490 mm
	20 "	32,280 lb	6.4 psi	8' 2"
Triple grouser	Std. 600 mm	14,850 kg	37.3 kPa	2,590 mm
	24 "	32,740 lb	5.4 psi	8' 6"
	700 mm	15,060 kg	32.4 kPa	2,690 mm
	28 "	33,210 lb	4.7 psi	8' 10 "
	750 mm	15,170 kg	30.5 kPa	2,740 mm
	30 "	33,450 lb	4.4 psi	9' 0"

MAX. PERMITTED BUCKETS

Note: 1. Bucket size based on SAE-J296, 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.

• LC undercarriage, max. permitted sizes for pin-on buckets: Counterweight 2,100 kg, 4,630 lb

Boom	1.1		Std. 4.6 m, 15' 1"	
Arm	Unit	2.1 m, 6' 11"	Std. 2.5 m, 8' 2"	3.0 m, 9' 10"
GP bucket 1.5 t/m³, 2,530 lb/yd³	l, yd³	925, 1.21	825, 1.08	725, 0.95
GP bucket 1.8 t/m³, 3,030 lb/yd³	l, yd³	800, 1.05	725, 0.95	650, 0.85

• LC undercarriage, max. permitted sizes for hook-on buckets: Counterweight 2,100 kg, 4,630 lb

Boom	1.1		Std. 4.6 m, 15' 1"	
Arm	Unit	2.1 m, 6' 11"	Std. 2.5 m, 8' 2"	3.0 m, 9' 10"
GP bucket 1.5 t/m³, 2,530 lb/yd ³	l, yd³	875, 1.14	800, 1.05	700, 0.92
GP bucket 1.8 t/m³, 3,030 lb/yd³	l, yd³	775, 1.01	700, 0.92	600, 0.78

• LC undercarriage, max. permitted sizes for pin-on buckets: Counterweight 2,450 kg, 5,400 lb

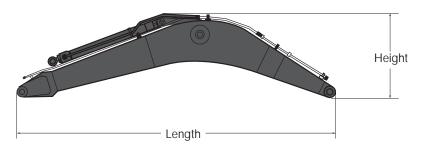
Boom	1.1		Std. 4.6 m, 15' 1"	
Arm	Unit	2.1 m, 6' 11"	Std. 2.5 m, 8' 2"	3.0 m, 9' 10"
GP bucket 1.5 t/m³, 2,530 lb/yd³	l, yd³	975, 1.28	900, 1.18	800, 1.05
GP bucket 1.8 t/m³, 3,030 lb/yd³	l, yd³	850, 1.11	775, 1.01	700, 0.92

• LC undercarriage, max. permitted sizes for hook-on buckets: Counterweight 2,450 kg, 5,400 lb

Boom	1.1		Std. 4.6 m, 15' 1"	
Arm	Unit	2.1 m, 6' 11"	Std. 2.5 m, 8' 2"	3.0 m, 9' 10"
GP bucket 1.5 t/m³, 2,530 lb/yd³	l, yd³	950, 1.24	850, 1.11	750, 0.98
GP bucket 1.8 t/m³, 3,030 lb/yd³	l, yd³	825, 1.08	750, 0.98	650, 0.85

DIMENSIONS

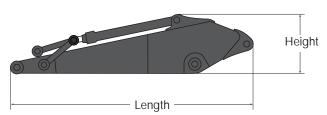
• Boom



Description	4.6 m, 15' 1"
Length	4,770 mm, 15' 8"
Height	1,370 mm, 4' 6"
Width	545 mm, 1' 9"
Weight	1,000 kg, 2,210 lb

^{*} Includes cylinder, pin and piping

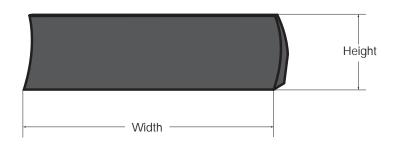
Arm



Description	2.1m, 6' 11"	Std. 2.5 m, 8' 2"	3.0 m, 9' 10"				
Length	2,800 mm, 9' 2"	3,190 mm, 10' 6"	3,690 mm, 12' 1"				
Height	760 mm, 2' 6"	760 mm, 2' 6"	760 mm, 2'6"				
Width	300 mm, 1' 0"	300 mm, 1' 0 "	300 mm, 1'0"				
Weight	570 kg, 1,260 lb	645 kg, 1, 420 lb	720 kg, 1,590 lb				

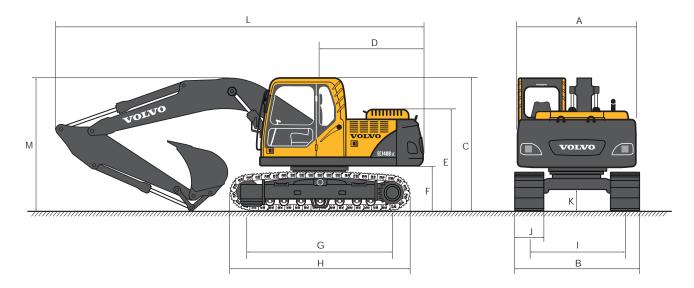
^{*} Includes cylinder, piping and linkage

• Front dozer blade (for LC only)



Description	Measurement						
Height	580 mm, 1' 11"						
Width	2,590 mm, 8' 6"						
Weight	900 kg, 1, 980 lb						
Digging depth	562 mm, 1' 10"						
Lift height	504 mm, 1'8"						

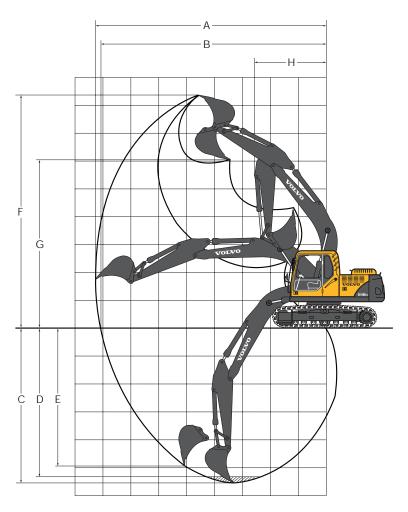
DIMENSIONS



Boom	1.114	Std. 4.6 m, 15' 1"											
Arm	Unit	2.1 m,	6' 11"	Std. 2.5 n	n, 8' 2"	3.0 m,	9' 10"						
A. Overall width of superstructure	mm, ft-in	2,450,	8' 0"	2,450,	8' 0"	2,450,	8' 0"						
B. Overall width	mm, ft-in	2,590,	8' 6"	2,590,	8' 6"	2,590,	8' 6"						
C. Overall height of cab	mm, ft-in	2,770,	9' 1"	2,770,	9' 1"	2,770,	9' 1"						
D. Tail swing radius	mm, ft-in	2,130,	7' 0"	2,130,	7' 0"	2,130,	7' 0"						
E. Overall height of engine hood	mm, ft-in	2,080,	6' 10"	2,080,	6' 10"	2,080,	6' 10"						
F. Counterweight clearance *	mm, ft-in	900,	2' 11"	900,	2' 11"	900,	2' 11"						
G. Tumbler length	mm, ft-in	3,000,	9' 10"	3,000,	9' 10"	3,000,	9' 10"						
H. Track length	mm, ft-in	3,740,	12' 3"	3,740,	12' 3"	3,740,	12' 3"						
I. Track gauge	mm, ft-in	1,990,	6' 6"	1,990,	6' 6"	1,990,	6' 6"						
J. Shoe width	mm, in	600,	24"	600,	24"	600,	24"						
K. Min. ground clearance *	mm, ft-in	430,	1' 5"	430,	1' 5"	430,	1' 5"						
L. 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"						

^{*} Without shoe grouser

WORKING RANGES & DIGGING FORCES



• Machine with pin-on bucket:

Boom	11-2	Std. 4.6 m, 15' 1"										
Arm	Unit	2.1 m,	6' 11"	Std. 2.5	m, 8' 2"	3.0 m,	9' 10"					
A. Max. digging reach	mm, ft-in	7,960,	26' 1"	8,330,	27' 4"	8,820,	28' 11"					
B. Max. digging reach on ground	mm, ft-in	7,810,	25' 7"	8,190,	26' 10"	8,690,	28' 6"					
C. Max. digging depth	mm, ft-in	5,130,	16' 10"	5,530,	18' 2"	6,030,	19' 9"					
D. Max. digging depth (8' level)	mm, ft-in	4,870,	16' 0"	5,310,	17' 5"	5,850,	19' 2"					
E. Max. vertical wall digging depth	mm, ft-in	4,580,	15' 0"	5,060,	16' 7"	5,500,	18' 1"					
F. Max. cutting height	mm, ft-in	8,180,	26' 10"	8,420,	27' 7"	8,770,	28' 9"					
G. Max. dumping height	mm, ft-in	5,740,	18' 10"	5,980,	19' 7"	6,320,	20' 9"					
H. Min. front swing radius	mm, ft-in	2,570,	8' 5"	2,630,	8' 8"	2,840,	9' 4"					

• Digging forces with pin-on bucket:

Boom		Unit	Std. 4.6 m, 15' 1"							
Arm	rm		2.1 m, 6' 11"	Std. 2.5 m, 8' 2"	3.0 m, 9' 10"					
Bucket tip radius		mm, in	1,250, 49"	1,250, 49"	1,250, 49"					
Breakout force – bucket (Normal/Power boost)	SAE	kN Ib	82.4/87.3 18,520/19,620	82.4/87.3 18,520/19,620	82.4/87.3 18,520/19,620					
Teaout force – arm (Normal/Power boost)	SAE	kN Ib	69.6/73.5 15,660/16,540	61.8 / 65.7 13,890/14,770	54.9/58.8 12,350/13,230					
Rotation angle, bucket		deg	174°	174°	173°					

LIFTING CAPACITY (At the arm end without bucket)

Note: For lifting capacity including bucket, simply subtract actual weight of the pin-on bucket or the bucket with quick coupler from the following values.

EC140B LC (Std. shoe 600 mm, 24")

Across under-carriage	Lifting hook	9		1.5 r	n, 5'			3.0 m	, 10			4.5 m	, 15			6.0 m	, 20			Ν	∕lax. r	each	
Along under-	to gro		Ė	•	Ċ	-	Ė	-	Ċ	+	Ė	-	Ċ	+	إ		Ċ	+	Ë	4	C	-	Max.
carriage	level		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m / ft
with CWT	6.0	20'									*3.3	*7,480	*3.3	*7,480					*3.5	*7,730	3.2	7,270	4.9 / 15.7
2,100 kg,	4.5 3.0	15' 10'					*6.2	*13,260	*6.2	*12 260	*3.5 *4.3	*7,610 *9,390	*3.5	*7,610	3.4	7,390	2.2	4 920	3.5	7,830	2.3	5,130 4,320	6.0 / 19.5 6.5 / 21.4
4,630 lb	1.5	5'					0.2	13,200	0.2	*13,260	5.2	11,150	3.2	7,440 6,990	3.3	7,210	2.2	4,820 4,640	2.8	6,640 6,240	1.8	4,030	6.7 / 22.0
Std. boom 4.6 m, 15' 1"	0	0,					*5.2	*12,140	*5.2	12,090	5.0	10,820	3.1	6,690	3.3	7,060	2.1	4,510	2.9	6,400	1.9	4,100	6.5 / 21.4
+ Arm	-1.5	-5'	*4.8	*10,830	*4.8	*10,830	*9.5	*20,520	5.6	12,130	5.0	10,730	3.1	6,620	0.0	7,000		1,010	3.3	7,280	2.1	4,640	6.0 / 19.6
2.1 m, 6' 11"	-3.0	-10'					*8.2	*17,770	5.8	12,400	5.1	10,920	3.1	6,780					4.5	9,990	2.8	6,270	4.9 / 15.9
	6.0	20'									*2.8	*6,330	*2.8	*6,330					*3.2	*7,030	2.7	6,210	5.4 / 17.4
with CWT 2,100 kg,	4.5	15'									*3.1	*6,710	*3.1	*6,710	*3.2	*7,060	2.3	4,940	*3.1	*6,810	2.1	4,590	6.4 / 20.9
4,630 lb	3.0	10'					*5.3	*11,320	*5.3	*11,320	*3.9	*8,540	3.5	7,480	3.4	7,400	2.2	4,810	2.7	6,050	1.8	3,920	6.9 / 22.7
Std. boom	1.5	5'					*6.3	*15,590	5.8	· ·	*5.1	*10,940	3.2	6,980	3.3	7,170	2.1	4,600	2.6	5,710	1.7	3,670	7.1 / 23.2
4.6 m, 15' 1" + Std. Arm	0	0,					*5.7	*13,440	5.6		5.0	10,750	3.1	6,620	3.2	6,990	2.1	4,440	2.6	5,820	1.7	3,710	6.9 / 22.7
2.5 m, 8' 2 "	-1.5	-5'	*4.4	*9,900	*4.4	*9,900	*9.3	*20,780	5.5	11,900	4.9	10,600	3.0	6,490	3.2	6,930	2.0	4,380	2.9	6,510	1.9	4,130	6.4 / 20.9
	-3.0	-10'	*8.6	*19,460	*8.6	*19,460	*8.7	*18,730	5.6	12,110	5.0	10,710	3.1	6,580					3.8	8,460	2.4	5,320	5.4 / 17.6
with CWT	6.0	20'																	*2.7	*6,030	2.3	5,160	6.0 / 19.5
2,100 kg,	4.5	15'													*2.8	*6,110	2.3	4,980	*2.6	*5,630	1.8	3,990	6.9 / 22.6
4,630 lb	3.0	10'					+7.0	*45.40		10010	*3.4	*7,420	*3.4	*7,420	*3.1	*6,840	2.2	4,810	2.4	5,380	1.6	3,450	7.4 / 24.3
Std. boom	1.5	5'					*7.3	*15,640	6.0	· ·	*4.6	*9,960	3.3	7,010	3.3	7,150	2.1	4,570	2.3	5,100	1.5	3,240	7.6 / 24.8
4.6 m, 15' 1" + Arm	-1.5	-5'	*3.8	*8,560	*3.8	*8,560	*6.2 *8.4	*14,510	5.5 5.4	11,910	5.0 4.9	10,710	3.0	6,560	3.2	6,910 6,800	2.0	4,360 4,250	2.3	5,170	1.5	3,270	7.4 / 24.3 6.9 / 22.7
3.0 m, 9' 10"		-10'	*7.0	*15,920	*7.0		*9.1	*19,260 *19,580	5.5	11,680 11,800	4.9	10,460 10,490	3.0	6,350 6,370	3.2	0,000	2.0	4,230	3.2	5,680 7,030	1.6 2.0	3,570 4,410	6.0 / 19.7
			7.0	10,720	7.0	10,720	7.1	17,000	0.0	11,000										·			
with CWT	6.0	20'									*3.3	*7,480	*3.3	*7,480					*3.5	*7,730	3.4	7,730	4.9 / 15.7
2,450 kg,	4.5 3.0	15' 10'					*6.2	*13,260	*4.2	*13,260	*3.5 *4.3	*7,610 *9,390	*3.5	*7,610 7,920	3.6	7,820	2.4	5,150	*3.6	*7,860 7,020	2.5	5,470 4,630	6.0 / 19.5 6.5 / 21.4
5,400 lb	1.5	5'					0.2	13,200	0.2	13,200	*5.4	*11,660	3.5	7,470	3.5	7,630	2.4	4,980	3.0	6,610	2.0	4,330	6.7 / 22.0
Std. boom 4.6 m, 15' 1"	0	0,					*5.2	*12,140	*5.2	*12,140	5.3	11,450	3.3	7,180	3.5	7,490	2.2	4,850	3.1	6,780	2.0	4,410	6.5 / 21.4
+ Arm	-1.5	-5'	*4.8	*10,830	*4.8	*10,830	*9.5	*20,520	6.0		5.3	11,360	3.3	7,100		.,		1,000	3.5	7,710	2.3	4,980	6.0 / 19.6
2.1 m, 6' 11"	-3.0	-10'					*8.2	*17,770	6.2		5.4	11,550	3.4	7,260					4.7	10,570	3.0	6,720	4.9 / 15.9
	6.0	20'									*2.8	*6,330	*2.8	*6,330					*3.2	*7,030	2.9	6,610	5.4 / 17.4
with CWT 2,450 kg,	4.5	15'									*3.1	*6,710	*3.1	*6,710	*3.2	*7,060	2.5	5,270	*3.1	*6,810	2.2	4,910	6.4 / 20.9
5,400 lb	3.0	10'					*5.3	*11,320	*5.3	*11,320	*3.9	*8,540	3.7	7,970	*3.5	*7,610	2.4	5,150	2.9	6,410	1.9	4,210	6.9 / 22.7
Std. boom	1.5	5'					*6.3	*15,590		13,450		*10,940	3.5	7,470	3.5	7,600	2.3	4,940	2.7	6,060	1.8	3,950	7.1 / 23.2
4.6 m, 15' 1" + Std. Arm	0	0,					*5.7	*13,440		12,820		11,380	3.3	7,100		7,410	2.2	4,770		6,180	1.8	4,000	6.9 / 22.7
+ Sta. Arm 2.5 m, 8' 2 "	-1.5	-5'	*4.4	*9,900	*4.4	*9,900		*20,780		12,750		11,230	3.2	6,970	3.4	7,350	2.2	4,720		6,900	2.0	4,450	6.4 / 20.9
, 0 _	-3.0	-10'	*8.6	*19,460	*8.6	*19,460	*8.7	*18,730	6.0	12,970	5.3	11,340	3.3	7,060					4.0	8,970	2.6	5,720	5.4 / 17.6
with CWT	6.0	-																	*2.7	*6,030	2.5	5,510	6.0 / 19.5
2,450 kg,		15'									+0		+0		*2.8	*6,110	2.5	5,310			1.9	4,280	6.9 / 22.6
5,400 lb		10'					*7.0	*15 / 40	, ,	12 700	*3.4	*7,420	*3.4	*7,420	*3.1	*6,840	2.4	5,140	*2.5	*5,610	1.7	3,720	7.4 / 24.3
Std. boom 4.6 m, 15' 1"	1.5	5'					*6.2	*15,640 *14,510		13,720 12,770	*4.6	*9,960 11,340	3.5	7,490 7,050	3.5	7,570 7,340	2.3	4,900 4,690	2.5	5,420 5,500	1.6	3,500 3,530	7.6 / 24.8 7.4 / 24.3
+ Arm	-1.5	-5'	*3.8	*8,560	*3.8	*8,560	*8.4			12,770		11,100	3.3	6,840			2.2	4,580		6,040	1.8	3,860	6.9 / 22.7
3.0 m, 9' 10"	-3.0			*15,920		*15,920		*19,580		12,650		11,120	3.2	6,850	J.4	1,220	2.1	7,500	3.4	7,460	2.1	4,750	
				,, 23		,, 23	/	,555	2.7	,000		,.20	٥ـ	-,000						.,.55		.,,,,,,,	

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

- 2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lifting Capacity Standards.
- 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
- 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
- 5. Contains metric and U.S. measurement charts.

STANDARD EQUIPMENT

Engine

Turbocharged, 4-stroke diesel engine with water cooling and direct injection 2-stage air filter with indicator Air intake heater Electric engine shut-off Fuel filter and water separator Coolant filter Alternator, 80 A

Electric/Electronic control system

Contronics

- Advanced mode control system
- Self-diagnostic system Machine status indication Engine speed sensing power control Automatic idling system One-touch power boost Safety stop/start function Travel alarm Adjustable monitor Master switch

Engine restart prevention circuit

High-capacity halogen lights:

- Frame mounted 2
- Boom mounted 2

Batteries, 2 x 12 V / 100 Ah Start motor, 24 V / 4.8 kW

Hydraulic system

Automatic hydraulic system

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

Hydraulic piping

- Hammer & shear: 1 pump flow
- Quick coupler piping Boom and arm regeneration valves

Swing anti-rebound valves Boom and arm holding valves Pump flow control for hammer & shear

Multi-stage filtering system Cylinder cushioning

Cylinder contamination seals Auxiliary hydraulic valve Straight travel circuit

Automatic two-speed travel motors Hydraulic oil, ISO VG 46

Superstructure

Access way with handrail Full height counterweight 2,100 kg, 4,630 lb Tool storage area Punched metal anti-slip plates Undercover (heavy-duty 4,5 mm,

Cab and interior

0.18")

Fabric seat with heater and air suspension

Pilot-operated wrist control joysticks with 3 switches each

Heater & air-conditioner, automatic Hydraulic dampening cab mounts Adjustable operator seat and joystick control console

Flexible antenna

Hydraulic safety lock lever Cab, all-weather sound suppressed, includes:

- Ashtray
- Cup holder
- Lighter
- Tinted glass
- Door locks
- Floor mat

- Horn
- Large storage area
- Pull-up type front window
- Removable lower windshield
- Seat belt
- Safety glass
- Sun shield, front, roof, rear
- Windshield wiper with intermittent feature
- Stereo cassette radio

Anti-vandalism kit assembly preparation

Master ignition key

Undercarriage

Hydraulic track adjusters Greased and sealed track chain Track quards Undercover (4,5 mm, 0.18")

Track shoes

Track shoes 600 mm, 24" with triple grousers

Digging equipment

Boom: 4.6 m, 15' 1" Arm: 2.5 m, 8' 2"

OPTIONAL EQUIPMENT (Standard in certain markets)

Enaine

Block heater: 120 V Diesel coolant heater Tropical cooling kit Fuel filler pump: 50 l/min, 13.2 gpm with automatic shut-off

Electric

Extra lamps:

- Cab-mounted 3, (front 2, rear 1)
- Counterweight-mounted 1 Overload warning device Rotating warning beacon

Hydraulic system

Hose rupture valve: boom, arm Hydraulic piping

- Hammer & shear: 2 pump flow Additional return filter
- Extra piping for slope & rotator
- Slope & rotator
- Grapple
- Oil leak (drain) line

Volvo hydraulic quick-coupler, S6 size Hydraulic oil, ISO VG 32 Hydraulic oil, ISO VG 68 Hydraulic oil, biodegradable 32 Hydraulic oil, biodegradable 46

Superstructure

Full height counterweight 2,450 kg, 5,400 lb

Cab and interior

Fabric seat Fabric seat with heater Control joystick with semi-long levers Control joystick with 5 switches each Pilot control pattern change Air-conditioner, manual Falling object guard (FOG) Cab-mounted falling object protective structures (FOPS) Sunlight protection, roof (steel) Rain shield, front Safety screen for front window Lower wiper

Track shoes

Anti-vandalism kit

500 mm, **20"** /700 mm, **28"** / 750 mm, 30" track shoes

Undercarriage

Front dozer blade Undercover (heavy-duty 10 mm, 0.39")

Digging equipment

Arm: 2.1 m, 6' 11" 3.0 m. 9' 10"

Service

Hand lamp Spare parts Tool kit, full scale

All products are not available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice. The illustrations do not necessarily show the standard version of the machine.



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