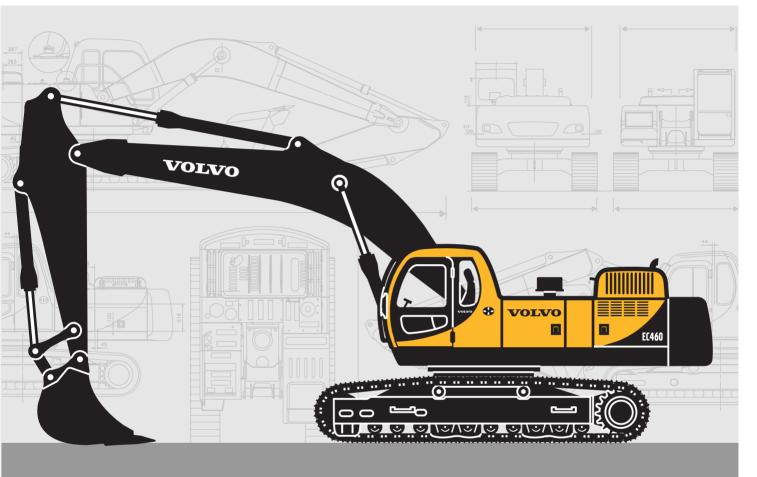
VOLVO EXCAVATOR

EC460



- Engine power, gross: 239 kW 321 hp
- Operating weight: 44.3 ~ 46.0 t
 97,570 ~ 101,470 lb
- Buckets (SAE): 1750 ~ 3850 | 2.29 ~ 5.04 yd³
- Low-emission, turbocharged Cummins diesel engine with direct injection
- Integrated mode selection system and electronically controlled system (ACS)
- 2 variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by the "Automatic sensing work mode."
 - Cab
 - Ergonomic environment
 - Low sound level

- Filtered air
- Hydraulic dampening mounts
- Strong attachment, produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Prepared for a number of optional items





ENGINE

The engine is a low-emission, turbocharged, 4-stroke diesel engine with water cooling, direct injection and aftercooler, especially developed for excavator use.

The machine can work at any job site, contributing to good fuel economy, low sound level, less wear and a longer life.

Air filter: 3-stage, includes pre-cleaner

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

Maker ······ CUMMINS	
Model ······M11-C	
Power output at ······ 33 r/s	2000 rpm
Net (ISO 9249/DIN 6271) … 221 kW	296 hp
Gross (SAE J1349) 239 kW	321 hp
Max. torque ····· 1177 N·m at	1500 rpm
868 lb ft at 1	500 rpm
No. of cylinders6	
Displacement 10.8	659 cu.in
Bore125 mm	4.92"
Stroke	5.79"



ELECTRICAL SYSTEM

Well-protected electrical system with high capacity. Double lock harness plugs are waterproof to ensure secure connections and prevent corrosion.

The relays and solenoid valves are shielded to prevent accidental damage or terminal contact.

The master switch, for disconnecting the battery, is standard.

ACS system, providing integrated mode selection functions and self-diagnostic mode, is standard.

Voltage ·····	24 V
Batteries	2 x 12 V
Battery capacity	200 Ah
Alternator	24 V / 50 A



Fuel tank 665	176 gal
Hydraulic system, total 540 I	143 gal
Hydraulic tank 285 I	75 gal
Engine oil	9 gal
Engine coolant 49	13 gal
Swing reduction units 2 x 6.0 I	2 x 1.6 gal
Travel reduction units 2 x 5.0 I	2 x 1.3 gal



SWING SYSTEM

The superstructure is swung by the means of two axial piston motors and planetary reduction units. Automatic swing holding brakes and anti-rebound valves are standard.

Max. swing speed 8.0 rpm

•

UNDERCARRIAGE

The undercarriage has an X-shaped frame. The greased and sealed track chain is standard.

No. of track pads 2	2 x 52
Link pitch 2	216 mm 8.5 "
Shoe width, triple grouser	600/700/750(Std.)/800/900 mm
2	24"/28"/30"(Std.)/32"/36"
Shoe width, double grouser ··· 6	600 mm 24 "
No. of lower track rollers 2	2 x 10
No. of upper rollers 2	2 x 2



DRIVE

Each track is powered by an automatic two-speed travel motor.

The track brakes are multi-disc, spring-applied and hydraulic-released.

The travel motors, brake and planetary gears are wellprotected in the track frame.

Max. tractive effort	320.	7 kN
	72,10	00 lb
Max. travel speed(1st/2nd)	2.8 /	4.3 km/h
	1.7/2	2.7 mph
Gradeability	35°	70 %

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 priority, arm priority, swing priority, and regeneration system of the arm flow are provided for the best operation.

The following important functions are included in the system.

Summation system: Providing full use of the pump oil flow.

Boom priority: Providing priority to the boom operation for fast raising during loading or deep excavation.

Arm priority: Providing priority to the arm operation for faster cycle times during leveling and for increased bucket filling factors while digging.

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

Regeneration system: Enhancing the cylinder life cycle, preventing cavitation and providing priority to other movements during simultaneous operations.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves are standard.

Power Max: All function speeds are increased.

Pumps

· · · ·		
Main pumps:		
Туре	2 x variable disp piston pumps	lacement axial
Maximum flow	2 x 330 l/min	2 x 87 gpm
Pilot pump:		
Туре	Gear pump	
Maximum flow	30 l/min	7.9 gpm
Hydraulic motors		
Travel	2 x variable disp	lacement axial
	piston motors	
Swing	2 x fixed displac	ement piston
	motors with mee	chanical brakes
Relief valve setting		
Attachment	31.4/34.3 MPa	4550/4980 psi
Travel circuit	31.3 MPa	4550 psi
Swing circuit	24.5 MPa	3560 psi
Pilot circuit	3.9 MPa	570 psi
Hydraulic cylinders		
Boom	2	
bore×stroke	Ø 165 mm x 15	90 mm
	Ø6.5" x 62.6"	
Arm	1	
bore×stroke	Ø 190 mm x 18	80 mm
	Ø 7.5" x 74.0"	
Bucket	1	
bore×stroke	Ø 165 mm x 13	35 mm
	Ø6.5" x 52.6"	



Easily accessible cab with a wide door and lined with soundabsorbing material.

The cab, which is supported by hydraulic dampening mounts to reduce shock and vibration, has all-around visibility. The front windshield can slide up into the ceiling, and the lower front glass can be removed.

Integrated air-conditioning and heating system:

The pressurized and filtered cab air is supplied by a 4-speed fan. The air is distributed via 8 vents.

Ergonomic operator's seat: The adjustable seat and control consoles move independently to accommodate the operator well. The seat has eight different adjustments and a seat belt to meet any operator's requirement.

Sound level (Preliminary): According to the Directive 86/662/EEC.

Exterior noise (ISO 6395) mean value of L_{WA} (sound power level) 106 dB(A) Operator's position (ISO 6396) with the door closed mean value of L_{PA} (sound pressure level) 75 dB(A)

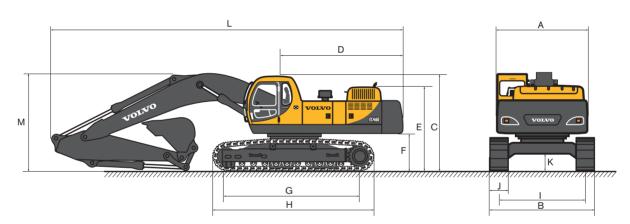


GROUND PRESSURE

• Machine with Std. 7.0 m, 23' 0" boom, Std. 3.35 m, 11' 0" arm, 1730 kg, 3,810 lb bucket and 9300 kg, 20,510 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
	600 mm	44500 kg	77.5 kPa	3470 mm
	24 ''	98,120 lb	11.2 psi	11' 5 "
	700 mm	45000 kg	66.7 kPa	3570 mm
	28 "	99,230 lb	9.7 psi	11' 9 "
Triple	Std. 750 mm	45240 kg	62.8 kPa	3620 mm
grouser	Std. 30 ''	99,750 lb	9.1 psi	11' 11"
	800 mm	45550 kg	58.8 kPa	3670 mm
	32 ''	100,330 lb	8.5 psi	12' 0''
	900 mm	46020 kg	53.0 kPa	3770 mm
	36''	1 01,470 lb	7.7 psi	12' 4 "
Double grouser	600 mm	44250 kg	76.5 kPa	3470 mm
	24 "	97,570 lb	11.1 psi	11' 5"

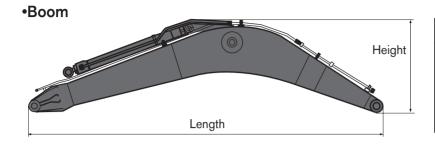
DIMENSIONS



Boom	unit	6.3 m,	20' 8''			Std. 7	'.0 m, 2 3	3' 0''			
Arm	unit	2.55 m	, 8' 4"	2.55 m	, 8' 4"	Std. 3.35	m, 11' 0''	3.9 m,	12' 10"	4.8 m,	15' 9"
A. Overall width of upper structure	mm, ft-in	2990,	9' 10''	2990,	9' 10''	2990,	9' 10''	2990,	9' 10"	2990,	9' 10''
B. Overall width	mm, ft-in	3620,	11' 11"	3620,	11' 11"	3620,	11' 11"	3620,	11' 11"	3620,	11' 11"
C. Overall height of cab	mm, ft-in	3230,	10' 7"	3230,	10' 7"	3230,	10' 7"	3230,	10' 7"	3230,	10' 7"
D. Tail swing radius	mm, ft-in	3730,	12' 3"	3730,	12' 3"	3730,	12' 3"	3730,	12' 3"	3730,	12' 3"
E. Overall height of engine hood	mm, ft-in	2850,	9' 4''	2850,	9' 4''	2850,	9' 4''	2850,	9' 4"	2850,	9' 4''
F. Counterweight clearance*	mm, ft-in	1250,	4' 1"	1250,	4' 1"	1250,	4' 1"	1250,	4' 1"	1250,	4' 1"
G. Tumbler length	mm, ft-in	4370,	14' 4"	4370,	14' 4"	4370,	14' 4"	4370,	14' 4"	4370,	14' 4"
H. Track length	mm, ft-in	5370,	17' 7"	5370,	17' 7"	5370,	17' 7"	5370,	17' 7"	5370,	17' 7"
I. Track gauge	mm, ft-in	2870,	9' 5"	2870,	9' 5"	2870,	9' 5"	2870,	9' 5"	2870,	9' 5''
J. Shoe width-Std.	mm, in	750,	30"	750,	30"	750,	30"	750,	30"	750,	30"
K. Min. ground clearance*	mm, ft-in	525,	1' 9"	525,	1' 9"	525,	1' 9"	525,	1' 9"	525,	1' 9"
L. Overall length	mm, ft-in	11390,	37' 4"	12090,	39' 8''	12040,	39' 6''	12090,	39' 8''	11870,	38' 11"
M. Overall height of boom	mm, ft-in	4120,	13' 6"	3980,	13' 1"	3650,	12' 0"	3860,	12' 8"	4790,	15' 9"

* Without shoe grouser

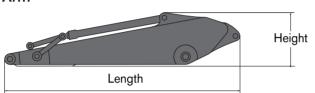
DIMENSIONS



Description	6.3 m, 2	0' 8''	Std. 7.0 m,	23' 0"
Length	6550 mm,	21' 6"	7240 mm,	23' 9"
Height	2000 mm,	6' 7"	1840 mm,	6' 0''
Width	960 mm,	3' 2"	960 mm,	3' 2"
Weight *	3870 kg,	8,530 lb	3925 kg,	8,650 lb

* Includes cylinder, piping and pin

•Arm



Description	2.55 m, 8' 4 ''	Std. 3.35 m, 11' 0 "	3.9 m, 12' 10''	4.8 m, 15' 9 "
Length	3620 mm, 11'11"	4555 mm, 14'11''	5115 mm, 16' 9''	6080 mm, 19'11''
Height	1235 mm, 4' 1''	1140 mm, 3'9''	1230 mm, 4' 0''	1230 mm, 4'0''
Width	600 mm, 2' 0''	600 mm, 2' 0''	600 mm, 2' 0''	600 mm, 2' 0''
Weight *	2110 kg, 4,650 lb	2365 kg, 5,210 lb	2505 kg, 5,520 lb	2905 kg, 6,410 lb

* Includes cylinder, linkage and pins

BUCKET & ARM COMBINATION

Note: Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose.

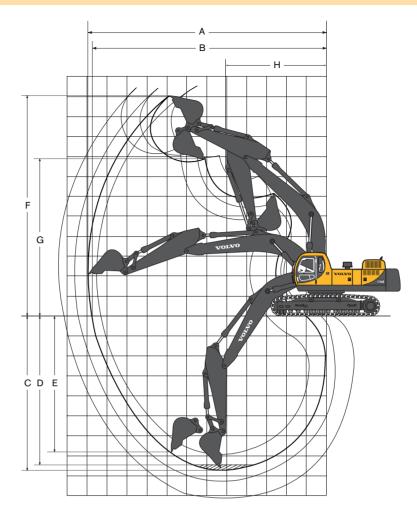
• Max. permitted sizes for pin on buckets: Counterweight: 9300 kg, 20,510 lb

Boom		6.3 m, 20' 8''		Std. 7.0 m, 23' 0''			
Arm	unit	2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0''	3.9 m, 12' 10''	4.8 m, 15' 9 "	
GP bucket 1.5 t/m³, 2,530 lb/yd ³	l, yd ³	3850, 5.04	3375, 4.41	3075, 4.02	2825, 3.70	2475, 3.24	
GP bucket 1.8 t/m³, 3,030 lb/yd ³	l, yd ³	3350, 4.38	2950, 3.86	2675, 3.50	2475, 3.24	2175, 2.84	
RB bucket 1.8 t/m³, 3,030 lb/yd ³	l, yd ³	3100, 4.05	2725, 3.56	2475, 3.24	2275, 2.98	2000, 2.62	
RB bucket 2.0 t/m³, 3,370 lb/yd ³	l, yd ³	2875, 3.76	2525, 3.30	2300, 3.01	2125, 2.78	1850, 2.42	

• Max. permitted sizes for hook on buckets: Counterweight: 9300 kg, 20,510 lb

Boom		6.3 m, 20' 8''		Std. 7.0) m, 23' 0''	
Arm	unit	2.55 m, 8' 4"	2.55 m, 8' 4''	Std. 3.35 m, 11' 0''	3.9 m, 12' 10''	4.8 m, 15' 9"
GP bucket 1.5 t/m³, 2,530 lb/yd ³	l, yd ³	3700, 4.84	3250, 4.25	2925, 3.83	2700, 3.53	2350, 3.07
GP bucket 1.8 t/m³, 3,030 lb/yd ³	l, yd ³	3250, 4.25	2825, 3.70	2575, 3.37	2350, 3.07	2050, 2.68
RB bucket 1.8 t/m³, 3,030 lb/yd ³	l, yd ³	3000, 3.92	2625, 3.43	2375, 3.11	2175, 2.84	1900, 2.49
RB bucket 2.0 t/m³, 3,370 lb/yd ³	l, yd ³	2775, 3.63	2425, 3.17	2200, 2.88	2025, 2.65	1750, 2.29

WORKING RANGES



• Pin on bucket

Boom		6.3 m, 20' 8''	6.3 m, 20' 8 " Std. 7.0 m, 23' 0 "						
Arm	unit	2.55 m, 8' 4''	2.55 m, 8' 4''	Std. 3.35m, 11' 0"	3.9 m, 12' 10''	4.8 m, 15' 9''			
A. Max. digging reach	mm, ft-in	10810, 35' 6''	11520, 37' 10''	12100, 39' 8''	12630, 41' 5 "	13370, 43' 10''			
B. Max. digging reach on ground	mm, ft-in	10570, 34' 8''	11290, 37' 0''	11890, 39' 0''	12420, 40' 9''	13180, 43' 3''			
C. Max. digging depth	mm, ft-in	6320, 20' 9''	6940, 22' 9''	7740, 25' 5''	8290, 27' 2''	9190, 30' 2''			
D. Max. digging depth (8' level)	mm, ft-in	6140, 20' 2''	6770, 22' 3''	7590, 24' 11"	8160, 26' 9''	9080, 29' 9''			
E. Max. vertical wall digging depth	mm, ft-in	5130, 16' 10''	5870, 19' 3''	6920, 22' 8''	7430, 24' 5''	7920, 26' 0''			
F. Max. cutting height	mm, ft-in	11130, 36' 6 "	11570, 38' 0''	11220, 36' 10''	11480, 37' 8''	11490, 37' 8''			
G. Max. dumping height	mm, ft-in	7500, 24' 7''	7940, 26' 1''	7790, 25' 7''	8050, 26' 5''	8140, 26' 8''			
H. Min. front swing radius	mm, ft-in	4450, 14' 7''	5020, 16' 6''	5050, 16' 7''	4980, 16' 4''	5090, 16' 8''			

• Digging forces with pin on bucket

Boom			6.3 m, 20' 8''		Std. 7.0	m, 23' 0''		
Arm		unit	2.55 m, 8' 4"	2.55 m, 8' 4''	Std. 3.35m, 11' 0"	3.9 m, 12' 10''	4.8 m, 15' 9 "	
Bucket tip radius		mm, in	1850, 73''					
Breakout force-bucket (Normal / Power boost)	SAE	kN Ib	218.8 / 239.3 49,190 / 53,800					
Tearout force-arm (Normal / Power boost)	SAE	kN Ib	227.4 / 248.7 51,130 / 55,920	227.4 / 248.7 51,130 / 55,920	188.5 / 206.1 42,380 / 46,350	170.2 / 186.2 38,280 / 41,870	155.6 / 170.2 34,990 / 38,280	
Rotation angle, bucket		o	183°	183°	183°	183°	183°	

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

Across under-	Lifting hook		4.5 m, 15'				6 m, 20'				7.5 m, 25'					9 m	, 30'	_	Max.reach					
Along under-	related to ground level		Ċ		[ŀ	Ç		[ŀ	Ç		E	ŀ	Ċ		[ŀ	Ċ		Ē	Ŀ	Max.	
C carriage	m/ft		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m / ft	
	7.5	25'																	11.2	25,280	*12.2	*27,210	7.2 / 23.4	
	6	20'					*13.2	*28,750	*13.2	*28,750	10.6	22,880	*12.3	*27,120					9.3	20,620	*11.2	*24,840	8.1 / 26.5	
Boom	4.5	15'	*19.2	*41,180	*19.2	*41,180	14.6	31,420	*14.9	*32,340	10.4	22,450	*13.0	*28,250					8.3	18,320	*10.8	*23,790	8.7 / 28.4	
6.3 m 20' 8''	3	10'					13.9	30,070	*16.9	*36,650	10.1	21,820	*13.9	*30,230					7.8	17,240	*10.8	*23,710	8.9 / 29.3	
+	1.5	5'					13.4	29,000	*18.5	*40,090	9.9	21,250	*14.8	*32,010					7.7	17,030	*11.1	*24,390	8.9 / 29.3	
Arm	0	0'	20.2	43,400	*20.7	*49,320	13.2	28,410	*19.2	*41,550	9.7	20,910	15.0	32,250					8.0	17,660	*11.7	*25,890	8.7 / 28.4	
2.55 m	-1.5	-5'	20.2	43,510	*24.7	*53,580	13.1	28,310	*18.7	*40,530	9.7	20,920	*14.5	*31,330					8.8	19,420	*12.7	*27,890	8.1 / 26.6	
8' 4"	-3 -	-10'	20.5	44,120	*21.9	*47,350	13.3	28,720	*16.7	*35,940									10.5	23,270	*12.3	*27,000	7.2 / 23.6	
	-4.5 ·	-15'																						
	7.5	25'									10.7	23,040	*11.0	*24,330					9.4	20,990	*11.3	*25,050	8.1 / 26.3	
5	6	20'					*12.7	*27,450	*12.7	*27,450	10.6	22,760	*11.3	*24,770					8.0	17,720	*11.2	*24,590	8.9 / 29.1	
Boom 7.0 m	4.5	15'					14.2	30,640	*14.7	*31,690	10.2	22,090	*12.3	*26,690	7.8	16,720	*11.2	*24,460	7.2	15,990	10.9	24,130	9.4 / 30.8	
23' 0"	3	10'					13.5	29,140	*16.8	*36,240	9.9	21,330	*13.4	*29,030	7.6	16,410	11.5	24,860	6.9	15,140	10.4	22,930	9.6 / 31.6	
+	1.5	5'					13.0	28,090	*18.3	*39,520	9.6	20,700	*14.3	*31,020	7.5	16,100	11.4	24,530	6.8	14,970	10.3	22,740	9.6 / 31.6	
Arm	0	0'					12.8	27,600	*18.8	*40,800	9.4	20,320	14.7	31,620	7.4	15,950	11.3	24,370	7.0	15,430	10.7	23,510	9.4 / 30.8	
2.55 m	-1.5	-5'	*19.2	42,610	*19.2	*45,320	12.8	27,550	*18.5	*40,080	9.4	20,260	*14.6	31,540					7.6	16,730	11.6	*25,540	8.9 / 29.1	
8' 4"	-3 -	-10'	20.1	43,160	*21.8	*47,390	12.9	27,880	*17.1	*37,050	9.5	20,610	*13.3	*28,530					8.7	19,390	*11.5	*25,270	8.1 / 26.4	
	-4.5 ·	-15'	*18.1	*38,890	*18.1	*38,890	13.3	28,780	*14.0	*29,600									10.7	*23,530	*10.7	*23,530	6.8 / 22.2	
	7.5	25'										*21,170		*21,170					*7.9	*17,490	*7.9	*17,490	8.8 / 28.6	
Boom	6	20'									*10.2	*22,290	*10.2	*22,290	8.0	17,150	*9.8	*21,540				*16,920	9.5 / 31.2	
7.0 m	4.5	15'	*17.3	*36,960	*17.3	*36,960	*13.2	*28,570	*13.2	*28,570	10.3	22,300	*11.3	*24,500	7.8	16,830	*10.2	*22,360	6.6	14,560	*7.7	*16,910	10.0 / 32.8	
23' 0"	3	10'	20.7	44,740	*22.0	*47,120	13.7	29,510	*15.5	*33,450	9.9	21,420	*12.5	*27,140	7.6	16,380	*10.9	*23,710	6.3	13,790	*7.9	*17,370	10.2 / 33.5	
+	1.5	5'	*14.2	*34,160	*14.2	*34,160	13.1	28,160	*17.4	*37,520	9.6	20,640	*13.6	*29,570	7.4	15,950	11.3	24,410	6.2	13,570	*8.3	*18,300	10.2 / 33.6	
Arm	0	0'	*17.4	*40,630	*17.4	*40,630	12.7	27,370	*18.4	*39,840	9.3	20,100	*14.4	*31,210	7.3	15,650	11.2	24,080	6.3	13,870	*9.0	*19,910	10.0 / 32.8	
3.35 m 11' 0"	-1.5	-5'	19.4	41,740	*24.8	*53,920	12.6	27,090	*18.6	*40,230	9.2	19,870	14.5	31,150	7.2	15,570	11.1	23,990	6.7	14,820	*10.2	*22,580	9.5 / 31.2	
11.0	-3 -	-10'	19.6	42,140	*23.3	*50,540	12.6	27,220	*17.8	*38,550	9.3	19,970	*14.0	*30,270					7.6	16,760	*11.3	*24,900	8.8 / 28.7	
	-4.5 ·	-15'	20.0	43,000	*20.5	*44,120	12.9	27,800	*15.8	*33,920									9.3	20,750	*11.4	*25,090	7.7 / 24.9	

EC460 (Std. shoe 750 mm, 30", counterweight 9300 kg, 20,510 lb)

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

2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift 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.

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

Across under- carriage	Lifting hook related		4.5 r	n, 1 !	5'	6 m, 20'					7.5 n	5'		9 m,	*	Max.reach						
Along	to ground level	l c	-		j,	CH- Ů		Ċ			ł				ł	G-			l _j	Max.		
e under- carriage	m/ft	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m / ft
Boom 7.0 m 23' 0'' + Arm 3.9 m 12' 10''	7.5 25' 6 20' 4.5 15' 3 10' 1.5 5' 0 0' -1.5 -5' -3 -10' -4.5 -15' -6 -20'	*18.7 *18.8 19.2 19.3 19.7	42,930 41,670 41,350 41,570 42,270	*18.7 *18.8 *23.8 *24.0 *21.7	*43,200 *44,800 *43,610 *54,410 *52,060	 13.8 13.1 12.7 12.5 12.5 12.6 	29,860 28,330 27,330 26,870 26,860 27,260	*14.5 *16.6 *18.0 *18.5 *18.1 *16.6	*40,010 *39,150 *35,780	10.4	21,540 20,670 20,020 19,670 19,640	*10.5 *11.9 *13.1 *14.0 14.4 *14.2	*20,580 *22,920 *25,730 *28,430 *30,440 30,960 *30,760 *27,550	8.2 8.1 7.9 7.6 7.4 7.2 7.1 7.1	17,330 16,920 16,410 15,910	*9.1 *9.6 *10.4 *11.1	*24,150 23,960	*6.4 6.1 5.8 5.7 5.8 6.1 6.8 8.1	12,730 13,490 15,030	*6.4 *6.4 *6.5 *6.9 *7.4 *8.2 *9.7 *10.8	*14,490 *14,050 *14,040 *14,350 *15,080 *16,280 *18,240 *21,450 *23,850 *23,330	9.4 / 30.6 10.1 / 33.0 10.5 / 34.5 10.8 / 35.3 10.8 / 35.3 10.5 / 34.6 10.1 / 33.1 9.4 / 30.7 8.3 / 27.2 6.8 / 22.0
Boom 7.0 m 23' 0'' + Arm 4.8 m 15' 9''	9 30' 7.5 25' 6 20' 4.5 15' 3 10' 1.5 5' 0 0' -1.5 -5' -3 -10' -4.5 -15' -6 -20'	20.3 19.3 18.9 18.8 19.0	43,730 41,550 40,630 40,490	*21.2 *22.7 *24.4 *24.5 *23.1	*45,790 *51,500 *53,680 *53,100 *49,880	 13.3 12.6 12.3 12.1 12.2 	28,570 27,200 26,420 26,140 26,300	*15.1 *16.9 *17.9 *18.1 *17.3	*36,600 *38,810 *39,160		20,660 19,810 19,250 19,030 19,150	*10.6 *12.1 *13.2 *14.0 14.1 *13.6	*20,040 *23,070 *26,130 *28,670 *30,290 30,300 *29,240 *24,310	*7.5	16,380 15,760 15,240 14,890 14,790	*7.5 *7.9 *8.6 *9.4 *10.3 11.0 10.8	23,700 23,320	*6.2 5.8 5.3 5.1 5.0 5.1 5.3		*6.2 *6.1 *6.3 *6.6 *7.1 *7.9 9.0 *10.1	*14,370 *13,670 *13,480 *13,480 *13,870 *14,600 *15,740 *15,740 19,930 *22,300 *22,950	9.3 / 30.2 10.2 / 33.4 10.9 / 35.6 11.3 / 37.0 11.5 / 37.7 11.5 / 37.7 11.3 / 37.1 10.9 / 35.7 10.2 / 33.5 9.3 / 30.3 8.0 / 25.8

EC460 (Std. shoe 750 mm, 30", counterweight 9300 kg, 20,510 lb)

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

2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift 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

Low-emission engine with air heater, complying with EPA (Environment Protection Association, USA) emission standards 2-stage air filter with indicator

Pre-cleaner Electric engine shut-off Fuel filter and water separator Alternator, 50 AMP

Electronic control system

Advanced control system (ACS) Integrated mode selection system Self-diagnostic system Machine status indication Engine speed sensing power control "Power Max" mode system Automatic idling system One-touch power boost Automatic engine warm-up Safety stop/start function Adjustable monitor Master disconnect switch Engine restart prevention circuit Powerful halogen lights:

Frame mounted 2
 Boom mounted 4
 Batteries, 2 x 12V/200Ah
 Start motor, 24V/7.8kW
 Travel alarm

Hydraulic system

Automatic sensing work mode - Summation system

- Boom priority
- Arm priority
- Swing priority
 Arm flow regeneration
 Swing anti-rebound valves
 Boom and arm holding valves
 Pilot-operated, wrist control joysticks, with 3 switches ea.
 Multi-stage filtering system
 Cylinder cushions
 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 - 9300 kg, **20,510 lbs** Tool storage area

Punched metal anti-slip plates

Cab and interior

Air-conditioner Heater Hydraulic dampening cab mounts Adjustable operator seat and control consoles Flexible antenna Hydraulic safety lock lever Cab, all-weather sound suppressed, includes:

- Ashtray
- Cigar lighter
- Clear tinted roof hatch
- Door locks
- Fabric seat with heater - Floor mat
- Horn

OPTIONAL EQUIPMENT

- Large storage area
- Pull-up type front window

- Removable lower windshield

- Seat belt
- Safety glass
- Sliding rear window
- Sun shield, front

- Windshield wiper with intermittent feature

Master ignition key Stereo cassette radio (AM/FM) Vandal guard preparation

Undercarriage

Hydraulic track adjusters Greased and sealed track chain Track guides

Track shoes

Std. track shoes 750 mm, **30**" with triple grousers

Attachment

Std. boom: 7.0 m, **23' 0''** Std. arm: 3.35 m, **11' 0''**

Engine

Alternator, 70 AMP Block and oil pan heater, 120V Fuel warmer Tropical kit Fuel filler pump: 50 lpm (13.2 gpm), with automatic shut-off

Electronic control system

Pump flow control for hammer & shear Extra work lights-4:

Cab mounted-3, (front 2, rear 1)
Counterweight mounted-1

Rotating warning beacon

Superstructure Undercover (heavy duty), 4.5 mm, (.18") Service walk Counterweight removal system

Hydraulic system

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

Volvo quick coupler piping Volvo hydraulic quick coupler-S3 size Hydraulic oil, ISO VG 32 Hydraulic oil, ISO VG 68

Cab and interior

Fabric seat Fabric seat, with heater and air suspension Control joystick, with 5 switches ea. Falling object guard (FOG) Cab mounted falling object protective structures (FOPS) Rain shield, front Safety screen for front window Vandalism kit

Undercarriage

Full track guides Undercover (heavy duty), 10 mm, (.39")

Track shoes

600 / 700 / 800 / 900 mm 24"/ 28"/ 32"/ 36" track shoes with triple grousers 600 mm, 24" track shoes with double grousers

Attachment

Boom: 6.0 m, **19' 8**" heavy duty Arms: 2.55 m / 3.9 m / 4.8 m **8' 4" / 12' 10" / 15' 9**"

Service Tool kit

*Specifications may vary by the region without notice.

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Under our policy of continuous 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.



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