

## Submission #4

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**Submission information**Form: [Capital Request Form - Vehicles](#)Submitted by Anonymous (not verified)  
September 22, 2021 - 2:59pm  
71.126.253.36**Department Name**

DPW

**Department Head Name**

Karen

**Department Head Title**

Superintendent

**Fiscal Year Requested**

FY23

**Item Description**

Mini Excavator. This will replace the DPW's second/back-up (1988) backhoe. This piece of equipment is more versatile than a backhoe. There are attachments for the minis that are universal, from mowing heads to hydraulic hammers. Minis are more maneuverable, take up less space at a work site, and can load trucks regardless of where the truck is located in relation to the front of the machines.

The DPW has a 2012 CAT 303.5 excavator. The equipment is versatile and is used for water service breaks, grave digging, and road work from catch basin repairs to swale cleaning to drain installation. The DPW would like to keep the current mini and purchase a slightly bigger, wheeled, excavator that can handle the trench boxes and large rocks more easily and can travel on the road more quickly.

**Select how your project fits into one or more of the following conditions from the town's Capital Plan**

Scheduled replacement (i.e. motor vehicles, roofs, computers)

**Picture of Vehicle Requested**[mini\\_exc.png](#)**New Or Used**

New

**Estimated Useful Life (in years)**

18

**Amount Requested**

120,000

**Expected Funding Source**

Combination (please include details in section below)

**What alternate funding sources have you pursued to offset any portion of the amount requested?**

general fund - water

**Describe whether this vehicle meets or is exempt from the provisions of the Town's Green Community Status**

Exempt

**Describe and quantify any revenue that this vehicle creates for the town (if applicable)**

NA

**Estimated Annual Maintenance Cost of Vehicle Requested**

1,000

**Description of Item Being Replaced (if applicable)**

1988 426 CAT Backhoe

**Estimated Trade In Value of Item Being Replaced (if applicable)**

5,000

**Estimated Mileage of Item Being Replaced (if applicable)****Estimated Annual Maintenance Cost of Vehicle Being Replaced (if applicable)**

1,000

**Provide details of the timeline for purchase and delivery of the vehicle, upon funding**

About 9 months from order

**Please provide any supporting documentation that supports the amount requested including any available vendor quotes.**[brochure\\_ew60e\\_t4f\\_en\\_22\\_voe2230009471.pdf](#)**Please provide any additional files that you believe may be helpful with our review of this request****Date Submitted**

September 22, 2021

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Volvo Construction Equipment  
Building Tomorrow

# EW60E

Volvo Excavators 5.55-6.96 t / 12,240-15,350 lb 47.3 kW



# Space and comfort to work

The EW60E features an innovative cab design for a comfortable and more productive operator environment. Well-designed ergonomics and a modern LCD display give you perfect control in all operations. Plenty of storage space is available for personal belongings.

## Operator convenience

Ample storage space is available for operator comfort and convenience. A phone tray, two power sockets, cup holder and three other large storage areas makes the Volvo cab a more convenient working environment.



## Operator visibility

All-round visibility is enhanced by thin pillars, large glazed area and a large wiper blade. The rear view camera secures a better view for perfect and safe control through the 7" color LCD display. This ensures there are no blind spots even in the most confined working areas.



## Work in comfort

The comfortable and adjustable seat makes it easier for the operator to work hard all day and feel less tired by the end of it. The cab's air conditioning is efficient and in automatic mode, the temperature remains at a set level. Six adjustable vents allow for optimal airflow in the cab.

## Ease of control

Control your machine with minimal effort in order to get more done in less time. The keypad groups all controls on the right hand side and the 7" color LCD screen displays all machine information for access to functions through its easy to use menus. Through the hot keys, the operator can directly access pre-set functions for added convenience. The proportional joystick provides excellent grip, and the roller fits your thumb perfectly for easy and precise control.





# LARGER CAB

A comfortable working space results in better operation, increasing production and reducing fatigue. The cab design creates space behind the seat, allowing the operator to move more freely. The new generation Volvo Cab features excellent visibility and reduced noise levels.



# BOOSTED PERFORMANCE

Do more in less time with outstanding combined digging efforts, powerful travel force, fluid swing force and optimal lifting capacity. The EW60E has been designed to tackle the most challenging job sites and contracts using the powerful Volvo Tier 4 final engine and adjustable hydraulic flow. Its well-balanced driveline delivers optimum performance whether working on the job site or on the move.

# Power for performance

Climb quick, swing smooth, dig hard and load fast with the EW60E. The traction, swing force and lifting capacity gets you results, fast. This versatile and powerful machine can be tailored for any job and is suitable for a wide range of applications.

## Powerful Volvo Tier 4 final engine

Give your job site a boost and achieve fast results. Great power and effective cooling ensure optimized performance in any climate. For the ultimate combination of power and performance, the Tier 4 final engine helps to push through challenging conditions.



## Smooth operation

Smooth combined operations means you can make very accurate and precise movements. With responsive controls the machine does exactly what the operator intends for less fatigue and fluent movement.



## Versatility

Perform on any job site, whether you're working in a confined space or major construction area. The machine's compact design, long arm, optional fixed boom and offset boom, long dozer blade, auxiliary hydraulic and thumb piping makes the machine suitable for a wide range of jobs and applications.



## Wheeled performance

A top speed up to 18 mi/h (30km/h) and the four wheel drive allow you to go on and off-road for better mobility. Drive the machine easily between locations and access hard to reach job sites to save time and keep your machine in prime condition.



# Profit in your business

The EW60E is designed and built to increase your profitability and keep you working for longer. To reduce your running costs it features excellent service access, convenient maintenance points and Volvo's auto engine shutdown feature. With outstanding fuel efficiency this durable and reliable machine secures your costs and increases your uptime.

## Low fuel consumption

The Volvo engine and hydraulics together offer superior fuel efficiency. The standard auto idle feature helps to reduce your fuel consumption even further and increase your profits.



## Auto engine shutdown

A unique offering from Volvo, the engine stops automatically after a preselected time, lowering fuel costs and noise. A stopped hour meter reduces maintenance costs and increases the resale value of the machine.



## MATRIS and VCADS Pro

By working with your dealer and using Volvo MATRIS software you can analyze operator behavior to improve efficiency, boost productivity and reduce your fuel and maintenance costs. Volvo also offers the VCADS Pro diagnostic system, making it easy to control your machine.



## Durability and reliability

The EW60E is designed with the same high quality as all Volvo machines, including robust transmission system and axles, so you can be assured it's durable and reliable on your job site. You can depend on your machine to perform and work hard for peace of mind.





# SERVICEABILITY

Keep your machine up and running with a number of features combined to increase machine availability and reduce downtime. Ground level service access, including great access to the main control valve, convenient greasing points, a large tool box in the lower structure and an easy to clean cooling unit all reduce service time and maintenance costs. Check service intervals easily through the in-cab screen, which shows reminders when maintenance is needed.



# ATTACHMENTS VERSATILITY

The machine's attachment can be easily changed to save time and costs. Its design, hydraulics, piping and in-cab switches combined with the Volvo attachments range allows the EW60E to take on a variety of tasks. Volvo attachments work in harmony with the machine to deliver maximum productivity.

# One machine, many job sites

Volvo offers a wide range of durable attachments that are suitable for any job site, including utilities, building, agriculture, landscaping and forestry. Volvo attachments are an integrated part of the excavator for which they're intended – delivering maximum productivity and versatility.

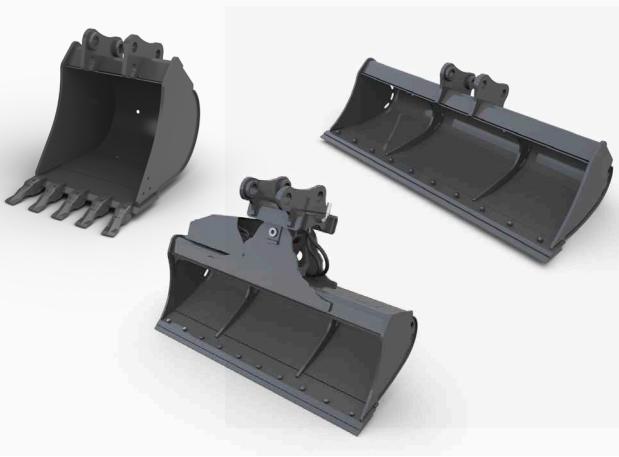
## Quick coupler

Both the mechanical and the hydraulic quick couplers allow a complete range of buckets to be changed quickly and efficiently.



## Buckets

A complete range of buckets from general purpose reinforced buckets to ditching buckets, allow the machine to work on many job sites for a wide range of applications. The durable buckets can work in loose gravel, crushed rock, dirt and soil.



## Breaker

Volvo's durable hydraulic breakers have been designed for ultimate compatibility with Volvo excavators. The wide range of breaker tools (or bits) has been built to break all kinds of materials and combines excellent performance with low noise and vibration levels.



## Thumb

Designed to work with both Volvo direct fit buckets and quick coupler, the Volvo thumb makes many tasks possible, including piling, placing, loading, lifting and carrying.



# A compact machine with big potential

## BOOSTED PERFORMANCE

Do more in less time with outstanding combined digging efforts, powerful travel force, fluid swing force and optimal lifting capacity.

### Smooth operation

Smooth combined operations means you can make very accurate and precise movements.

### MATRIS and VCADS Pro

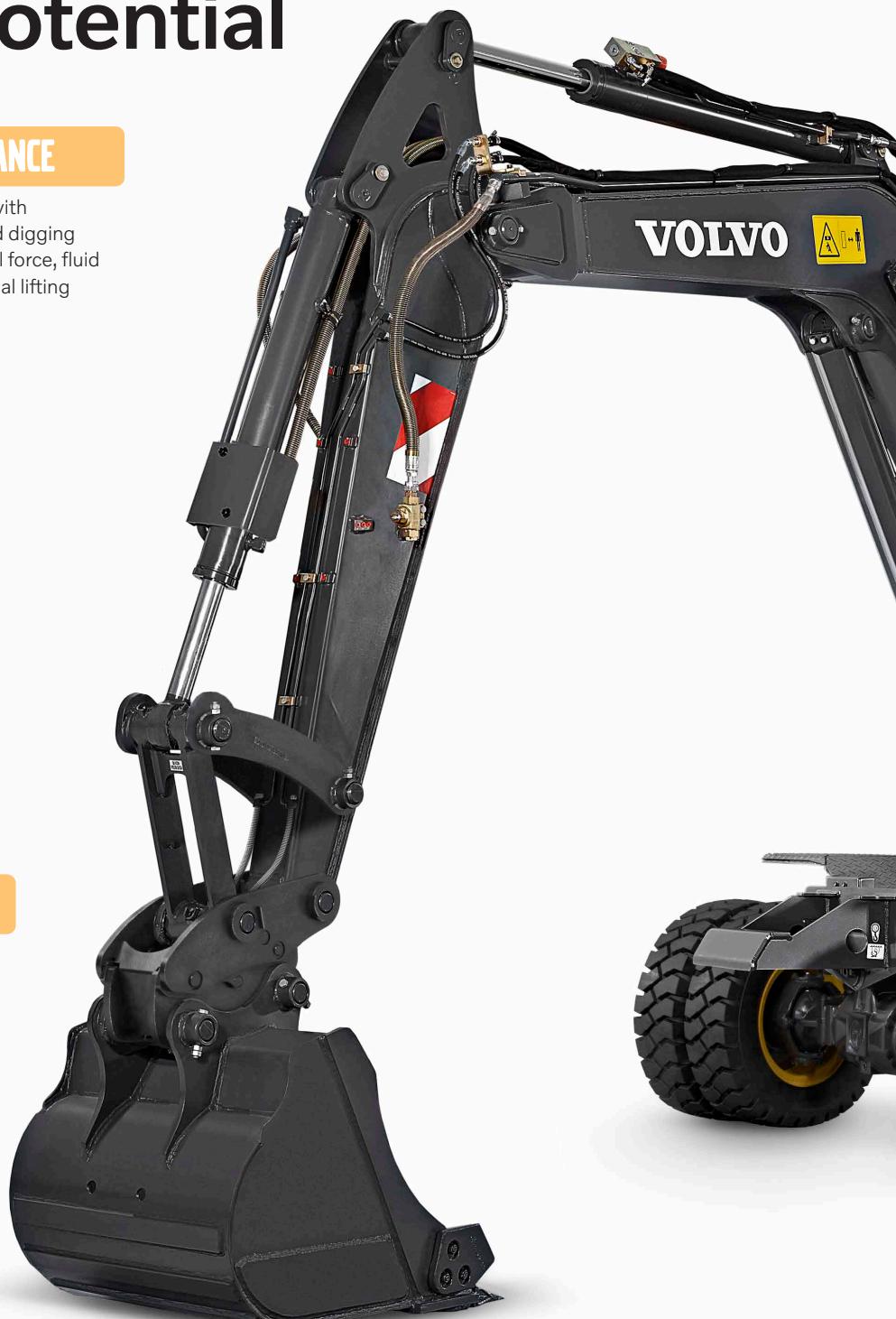
Volvo MATRIS analyses operator behaviour, improving efficiency and productivity. VCADS Pro helps to control your machine.

## ATTACHMENTS VERSATILITY

The Volvo attachments range allows the machine to take on a variety of tasks for a wide range of jobs and applications.

### Powerful Volvo Tier 4 final engine

For the ultimate combination of power and performance, the engine helps to push through challenging conditions.



### Auto engine shutdown

The auto engine shutdown provides lower fuel costs, less noise, much lower maintenance costs and a greater resale value.

### ECO mode

Volvo's unique ECO mode improves fuel efficiency without any loss of performance in most operating conditions.

## LARGER CAB

A comfortable working space results in better operation, increasing production and reducing fatigue.



## Ease of control

The keypad groups all controls on the right hand side and the LCD screen displays all machine information for access to functions.

## Operator convenience

Ample storage space in the cab is available for operator comfort and convenience.

## SERVICEABILITY

Ground level service access, including great access to the main control valve, convenient greasing points and easy to clean cooling unit reduce service time.

## Wheeled performance

A top speed up to 30km/h and the four wheel drive allow you to go on and off-road for better mobility.

## CUSTOMER SUPPORT AGREEMENTS

Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services.

# Adding value to your business

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.

## Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By

listening to your requirements, we can reduce your total cost of ownership and increase your revenue.



## Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



## Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.





# CUSTOMER SUPPORT AGREEMENTS

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

# Volvo EW60E in detail

## Engine

The new engine which provides excellent performance is equipped with a four-cylinder, vertical, electronic controlled high pressure fuel injectors, in-line turbo charger water cooled diesel engine. This engine fully meets the demands of the latest Tier 4f emissions regulations.

Engine	Volvo	D2.6H
Max. power at	r/min (r/s)	2,400 (40)
Net (ISO9249/SAEJ1349)	kW (hp)	45.2 (60.6)
Gross (ISO 14396/SAE J1995)	kW (hp)	47.3 (63.4)
Max. torque	Nm (ft lbf)	222 (163)
at engine speed	r/min (r/s)	1,500 (25)
No. of cylinders		4
Displacement	l (in <sup>3</sup> )	2.6 (160)
Bore	mm (in)	87 (3.4)
Stroke	mm (in)	110 (4.3)

## Electrical system

Voltage	V	12
Batteries	V	1 x 12
Battery capacity	Ah	100
Alternator	V/Ah	12/90
Start motor	V - kW	12 - 2.5

## Undercarriage

Drive train: One single variable axial-piston motor mounted to the two-step, Power Shift gearbox gives power to front and rear axles.		
Framework: All-welded robust torsion box frame.		
Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.		
Oscillation	± °	5
with mudguards	± °	5
Tire	type	12-16.5 12PR
Tractive force (net)	kN (lbf)	29 (6,519)
Travel speed, on road	km/h (mi/h)	20/30 (12/19)
Travel speed, off road	km/h (mi/h)	10 (6.2)
Min. turning radius	m (ft)	5.1 (16.7)
Travel speeds may depend on local regulations		

## Brake system

<b>Service brakes:</b> servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.
<b>Parking brake:</b> negative wet disc in gear housing, spring applied and pressure released.
<b>Digging brake:</b> service brake with mechanical lock system.
<b>Security system:</b> The 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.

## Swing system

The swing system is feed from the hydraulic system, eliminating the need for any additional maintenance to gear oil replenishing.		
Built-in parking brake: Parking brake is built into the hydraulic motor, enabling safer parking on an incline.		
Shockless function: Pressure relieve valves are fitted into the swing circuit to eliminate shocks for smooth operation when changing direction.		
Max. slew speed	r/min	10
Max. slew torque	kNm (ft lbf)	11.6 (8,556)

## Cab

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO <sub>2</sub> -eq
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC

## Sound Level

Sound pressure level in cab according to ISO 6396		
L <sub>pA</sub>	dB	78
L <sub>WA</sub>	dB	98

## Hydraulic system

Open-center, negative hydraulic system providing accurate controllability. The following working modes are included in the system:

**Parking mode (P):** Parking position for optimal safety.

**Travel mode (T):** Engine speed is controlled by travel pedal stroke and mode selection switch for low fuel consumption and noise. Work equipment are not able to move at this mode for optimal safety.

**Working mode (W):** Full working flow with adjustable engine rpm for normal working and best speed utilisation.

### Main pump (Type: Variable-displacement pump)

Max. flow	l/min (gal/min)	2 x 60 (2 x 15.9)
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### Pilot pump (Type: Gear pump)

Max. flow	l/min (gal/min)	1 x 21.4 (1 x 5.7)
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### Swing + steering pump (Type: Low noise gear pump)

Max. flow	l/min (gal/min)	1 x 38.9 (1 x 10.3)
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### Relief valve setting pressure

Implement	MPa (psi)	23 (3,263)
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Travel system	MPa (psi)	23 (3,263)
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Slew system	MPa (psi)	19 (2,698)
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Pilot system	MPa (psi)	3.1 (454)
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## Hydraulic Cylinders

Boom		1
Bore x Stroke	ø x mm (ø x in)	110 x 707 (4.3 x 27.8)
Boom 2nd		2
Bore x Stroke	ø x mm (ø x in)	90 x 406 (3.5 x 16)
Arm		1
Bore x Stroke	ø x mm (ø x in)	90 x 813 (3.5 x 32)
Bucket		1
Bore x Stroke	ø x mm (ø x in)	80 x 660 (3.1 x 26)
Dozer blade		1
Bore x Stroke	ø x mm (ø x in)	105 x 230 (4.1 x 9.1)
Boom swing		1
Bore x Stroke	ø x mm (ø x in)	90 x 570 (3.5 x 22.4)

## Service Refill

Fuel tank	l (gal)	105 (27.7)
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Hydraulic system, total	l (gal)	120 (31.7)
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Hydraulic tank	l (gal)	76 (20.1)
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Engine oil	l (gal)	11 (2.9)
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Engine coolant	l (gal)	10 (2.6)
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Transmission	l (gal)	1.7 (0.4)
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## Total Machine Weights

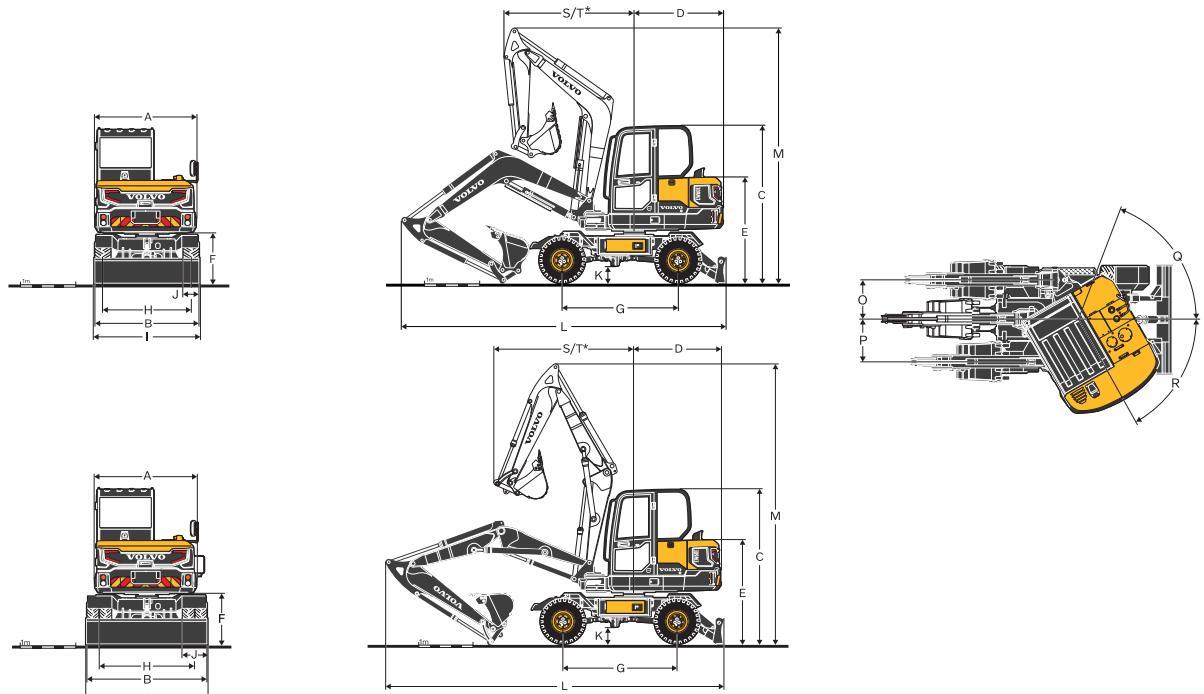
Machine with 2.9m / 9'6" boom, 1.6m / 5'3" arm, 0.142m<sup>3</sup> / 37.5gal bucket, standard counterweight, dozer blade, without quick coupler and 75kg operator weight

With dozer blade

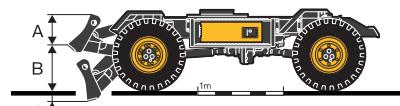
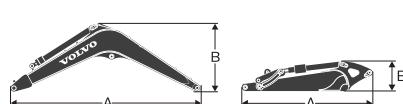
kg (lb)

5 920 (13,050)

# Specifications



DIMENSIONS	Unit	EW60E							
		m	ft in	2.9	9'6"	2.9	9'6"	3.24	10'8"
<b>Boom</b>									
<b>Arm</b>									
A Overall width of upper structure	mm ft in	1,845	6'1"	1,845	6'1"	1,845	6'1"	1,845	6'1"
B Overall width	mm ft in	1,930	6'4"	1,930	6'4"	2,200	7'3"	2,200	7'3"
C Overall height of cab	mm ft in	2,855	9'4"	2,855	9'4"	2,833	9'4"	2,833	9'4"
D Tail swing radius	mm ft in	1,650	5'5"	1,650	5'5"	1,675	5'6"	1,675	5'6"
E Overall height of engine hood	mm ft in	1,901	6'3"	1,901	6'3"	1,887	6'2"	1,887	6'2"
F Counterweight clearance	mm ft in	960	3'2"	960	3'2"	940	3'1"	940	3'1"
G Wheel base	mm ft in	2,100	6'11"	2,100	6'11"	2,100	6'11"	2,100	6'11"
H Tread width	mm ft in	1,595	5'3"	1,595	5'3"	1,714	5'7"	1,714	5'7"
I Dozerblade width	mm ft in	1,930	6'4"	1,930	6'4"	2,200	7'3"	2,200	7'3"
J Tire width	mm ft in	305	1'0"	305	1'0"	452	1'6"	452	1'6"
K Min. ground clearance	mm ft in	295	1'0"	295	1'0"	276	0'11"	276	0'11"
L Overall length	mm ft in	5,869	19'3"	5,895	19'4"	6,203	20'4"	6,220	20'5"
M Overall height of boom raise	mm ft in	4,599	15'1"	4,600	15'1"	5,150	16'11"	5,150	16'11"
S Front swing radius	mm ft in	2,352	7'9"	2,368	7'9"	2,423	7'11"	2,571	8'5"
T* Front swing radius (Max. offset)	mm ft in	1,386	4'7"	1,386	4'7"	1,957	6'5"	1,957	6'5"
O Boom swing distance	mm ft in	756	2'6"	756	2'6"	756	2'6"	756	2'6"
P Boom swing distance	mm ft in	863	2'10"	863	2'10"	863	2'10"	863	2'10"
Q Boom swing angle	°		80				80		
R Boom swing angle	°		50				50		



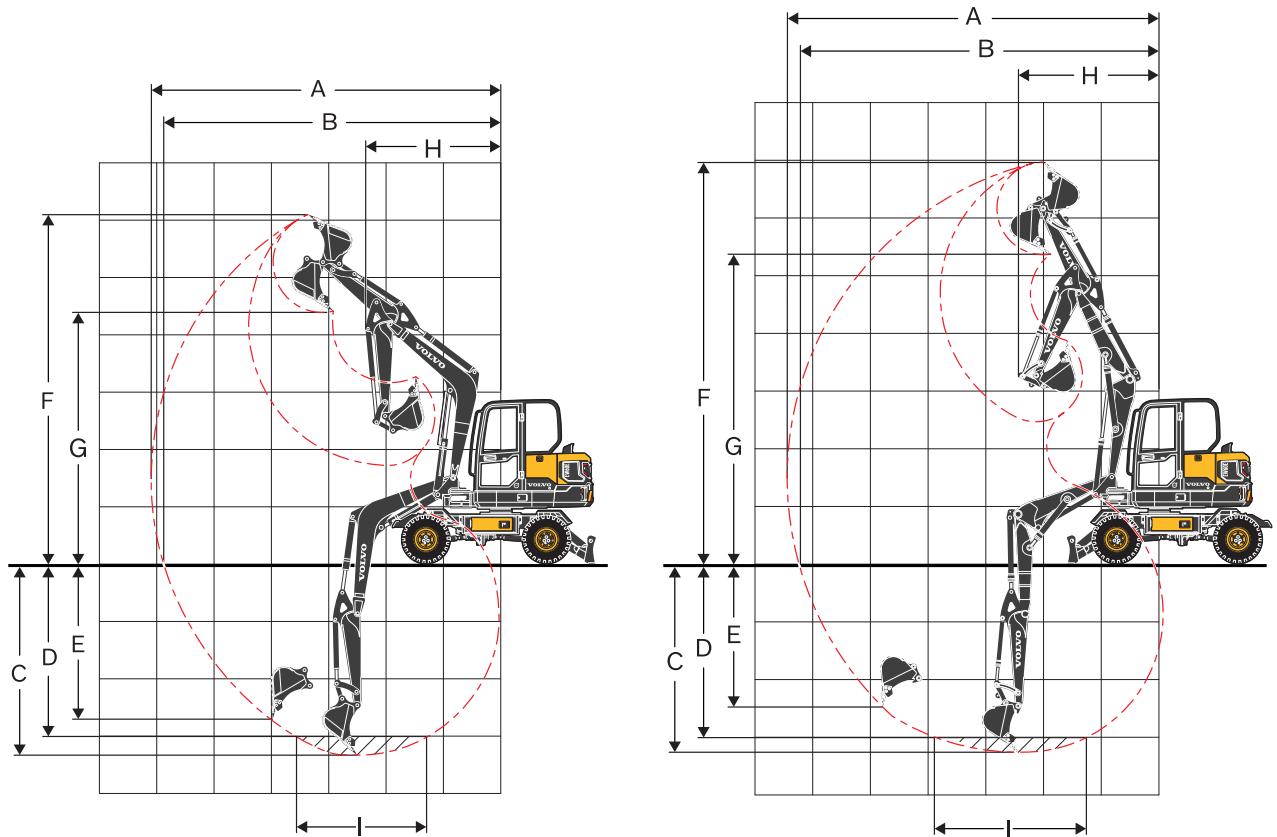
DIMENSIONS	Unit	Boom				Arm					
		m	ft in	2.9	9'6"	3.24	10'8"	1.6	5'3"	1.9	6'3"
A Length	mm ft in	3,008	9'10"	3,362	11'0"	2,102	6'11"	2,402	7'11"		
B Height	mm ft in	1,169	3'10"	865	2'10"	488	1'7"	497	1'8"		
C Width	mm ft in	336	1'1"	532	1'9"	300	1'0"	300	1'0"		
Weight	kg lb	3524	780	489	1,080	206	450	181	400		

Boom \* Includes cylinder, piping and pin, excludes boom cyl. Pin

Arm \* Includes cylinder, linkage and pin

DIMENSIONS	Unit	STD Dozer blade		Wide Dozer blade			
		A Height	mm ft in	465	1'6"	465	1'6"
Width	mm ft in	1,930	6'4"	2,200	7'3"		
B Lifting height	mm ft in	440	1'5"	440	1'5"		
C Digging depth	mm ft in	140	0'6"	140	0'6"		

# Specifications



## WORKING RANGES

Description	Unit									
	m	ft in	2.9		9'6"		3.24		10'8"	
Boom	m	ft in	1.6	1.9	5'3"	6'3"	1.6	1.9	5'3"	6'3"
Arm	m	ft in								
A Max. digging reach	mm	ft in	6,024	6,313	19'9"	20'9"	6,432	6,729	21'1"	22'1"
B Max. digging reach on ground	mm	ft in	5,810	6,111	19'1"	20'1"	6,239	6,546	20'6"	21'6"
C Max. digging depth	mm	ft in	3,292	3,592	10'10"	11'9"	3,304	3,603	10'10"	11'10"
D Max. digging depth (l=2 440 mm level)	mm	ft in	2,905	3,188	9'6"	10'6"	3,119	3,432	10'1"	11'2"
E Max. vertical wall digging depth	mm	ft in	2,368	2,642	7'9"	8'8"	2,786	3,028	8'3"	8'11"
F Max. cutting height	mm	ft in	6,007	6,210	19'8"	20'4"	6,924	7,201	22'9"	23'7"
G Max. dumping height	mm	ft in	4,443	4,647	14'7"	15'3"	5,320	5,597	17'6"	18'6"
H Min. front swing radius	mm	ft in	2,350	2,367	7'9"	7'9"	2,423	2,550	7'11"	8'5"

## DIGGING FORCES WITH DIRECT FIT BUCKET

	1.6 m / 5'3" Arm				1.9 m / 6'3" Arm	
	SAE J1179	kN	lbf			
Breakout force (bucket)	SAE J1179	kN	lbf	37.7	8,475	37.7
	ISO 6015	kN	lbf	43.3	9,734	43.3
Tearout force (arm)	SAE J1179	kN	lbf	28.2	6,340	25.0
	ISO 6015	kN	lbf	28.8	6,474	25.4
Rotation angle, bucket		°			196	

## LIFTING CAPACITY EW60E

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.0 m / 3.3 ft		2.0 m / 6.6 ft		3.0 m / 9.0 ft		4.0 m / 13.2 ft		5.0 m / 16.5 ft		Max. reach		
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom: 2.9 m / 9'6"	5.0 m kg													*1,520 1,470 3.4 m
	16.5 ft lb													*3,390 3,290 11.2 ft
	4.0 m kg							*1,520 1,170						*1,270 980 4.4 m
	13.2 ft lb							*3,360 2,550						*2,800 2,180 14.5 ft
	3.0 m kg							*1,610 1,150						*1,190 810 4.9 m
	9.9 ft lb							*3,540 2,510						*2,620 1,790 16.2 ft
	2.0 m kg					*2,540 1,690		*1,840 1,100	*1,530 780					*1,200 740 5.2 m
	6.6 ft lb					*5,530 3,690		*4,030 2,410	*3,360 1,720					*2,640 1,630 17.0 ft
	1.0 m kg					*3,030 1,580		*2,040 1,050	*1,570 770					*1,280 720 5.2 m
	3.3 ft lb					*6,620 3,460		*4,470 2,310	*3,440 1,680					*2,820 1,600 17.1 ft
	0.0 m kg					*2,110 *2,110	*3,040 1,540	*2,070 1,030						*1,470 760 5.0 m
	0.0 ft lb					*4,700 *4,700	*6,660 3,370	*4,540 2,240						*3,230 1,690 16.3 ft
	-1.0 m kg	*3,000 *3,000	*4,060 3,020	*2,650 1,540		*1,800 1,020								*1,420 890 4.5 m
Machine: Front direction Dozer blade: Down	-3.3 ft lb	*6,630 *6,630	*8,880 6,570	*5,790 3,370		*3,940 2,240								*3,130 1,960 14.6 ft
	-2.0 m kg			*2,450 *2,450	*1,680 1,590									*1,180 *1,180 3.5 m
	-6.6 ft lb			*5,330 *5,330	*3,630 3,470									*2,590 *2,590 11.5 ft
	5.0 m kg													*1,520 1,380 3.4 m
	16.5 ft lb													*3,390 3,100 11.2 ft
	4.0 m kg							*1,520 1,100						*1,270 920 4.4 m
Boom: 2.9 m / 9'6"	13.2 ft lb							*3,360 2,410						*2,800 2,060 14.5 ft
	3.0 m kg							*1,610 1,080						*1,190 760 4.9 m
	9.9 ft lb							*3,540 2,360						*2,620 1,690 16.2 ft
	2.0 m kg					*2,540 1,580		*1,840 1,030	1,410 740					*1,200 690 5.2 m
	6.6 ft lb					*5,530 3,460		*4,030 2,270	2,960 1,610					*2,640 1,530 17.0 ft
	1.0 m kg					*3,030 1,480		1,950 990	1,390 720					*1,280 680 5.2 m
	3.3 ft lb					6,600 3,240		4,100 2,160	2,910 1,570					2,770 1,500 17.1 ft
	0.0 m kg					*2,110 *2,110	*3,040 1,440	1,920 960						1,390 710 5.0 m
	0.0 ft lb					*4,700 *4,700	6,480 3,140	4,030 2,100						2,940 1,580 16.3 ft
	-1.0 m kg	*3,000 *3,000	*4,060 2,770	*2,650 1,440		*1,800 960								*1,420 830 4.5 m
	-3.3 ft lb	*6,630 *6,630	*8,880 6,040	*5,790 3,140		*3,940 2,100								*3,130 1,840 14.6 ft
	-2.0 m kg			*2,450 *2,450	*1,680 1,480									*1,180 1,180 3.5 m
	-6.6 ft lb			*5,330 *5,330	*3,630 3,240									*2,590 *2,590 11.5 ft
Machine: Front direction Dozer blade: Up	5.0 m kg													*1,520 1,470 3.4 m
	16.5 ft lb													*3,390 3,290 11.2 ft
	4.0 m kg							*1,520 1,170						*1,270 980 4.4 m
	13.2 ft lb							*3,360 2,550						*2,800 2,180 14.5 ft
	3.0 m kg							*1,610 1,150						*1,190 810 4.9 m
	9.9 ft lb							*3,540 2,510						*2,620 1,790 16.2 ft
	2.0 m kg					*2,540 1,690		*1,840 1,100	*1,530 780					*1,200 740 5.2 m
	6.6 ft lb					*5,530 3,690		*4,030 2,410	*3,360 1,720					*2,640 1,630 17.0 ft
	1.0 m kg					*3,030 1,580		*2,040 1,050	*1,570 770					*1,280 720 5.2 m
	3.3 ft lb					*6,620 3,460		*4,470 2,310	*3,440 1,680					*2,820 1,600 17.1 ft
	0.0 m kg					*2,110 *2,110	*3,040 1,540	*2,070 1,030						*1,470 760 5.0 m
	0.0 ft lb					*4,700 *4,700	*6,660 3,370	*4,540 2,240						*3,230 1,690 16.3 ft
	-1.0 m kg	*3,000 *3,000	*4,060 3,020	*2,650 1,540		*1,800 1,020								*1,420 890 4.5 m
	-3.3 ft lb	*6,630 *6,630	*8,880 6,570	*5,790 3,370		*3,940 2,240								*3,130 1,960 14.6 ft
	-2.0 m kg			*2,450 *2,450	*1,680 1,590									*1,180 *1,180 3.5 m
	-6.6 ft lb			*5,330 *5,330	*3,630 3,470									*2,590 *2,590 11.5 ft
Machine: Rear direction Dozer blade: Down	5.0 m kg													1,370 1,380 3.4 m
	16.5 ft lb													3,090 3,100 11.2 ft
	4.0 m kg													920 920 4.4 m
	13.2 ft lb													2,060 2,060 14.5 ft
	3.0 m kg													760 760 4.9 m
	9.9 ft lb													1,690 1,690 16.2 ft
	2.0 m kg							1,570 1,580	1,030 1,030					1,200 740 5.2 m
	6.6 ft lb							3,450 3,460	2,270 2,270					2,940 1,580 16.3 ft
	1.0 m kg							1,470 1,480	990 990					1,280 680 5.2 m
	3.3 ft lb							3,230 3,240	2,160 2,160					2,820 1,600 17.1 ft
	0.0 m kg					*2,110 *2,110	1,430 1,440	960 960						720 710 5.0 m
	0.0 ft lb					*4,700 *4,700	3,130 3,140	2,100 2,100						1,580 1,580 16.3 ft
	-1.0 m kg	*3,000 *3,000	*4,060 2,770	*2,650 1,440		*1,800 960								830 830 4.5 m
	-3.3 ft lb	*6,630 *6,630	5,980 6,040	3,140 3,140		2,100 2,100								1,840 1,840 14.6 ft
	-2.0 m kg			*2,450 *2,450	1,470 1,480									1,180 1,180 3.5 m
	-6.6 ft lb			*5,330 *5,330	3,230 3,240									*2,590 *2,590 11.5 ft
Machine: Front direction Dozer blade: Up	5.0 m kg													1,370 1,380 3.4 m
	16.5 ft lb													3,090 3,100 11.2 ft
	4.0 m kg													920 920 4.4 m
	13.2 ft lb													2,060 2,060 14.5 ft
	3.0 m kg													760 760 4.9 m
	9.9 ft lb													1,690 1,690 16.2 ft
	2.0 m kg							1,570 1,580	1,030 1,030					1,200 740 5.2 m
	6.6 ft lb							3,450 3,460	2,270 2,270					2,940 1,580 16.3 ft
	1.0 m kg							1,470 1,480	990 990					1,280 680 5.2 m
	3.3 ft lb							3,230 3,240	2,160 2,160					2,820 1,600 17.1 ft
	0.0 m kg					*2,110 *2,110	1,430 1,440	960 960						720 710 5.0 m
	0.0 ft lb					*4,700 *4,700	3,130 3,140	2,100 2,100						1,580 1,580 16.3 ft
	-1.0 m kg	*3,000 *3,000	*4,060 2,770	*2,650 1,440		*1,800 960								830 830 4.5 m
	-3.3 ft lb	*6,630 *6,630	5,980 6,040	3,140 3,140		2,100 2,100								1,840 1,840 14.6 ft
	-2.0 m kg			*2,450 *2,450	1,470 1,480									1,180 1,180 3.5 m
	-6.6 ft lb			*5,330 *5,330	3,230 3,240									*2,590 *2,590 11.5 ft

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Specifications

## LIFTING CAPACITY EW60E

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.0 m / 3.3 ft		2.0 m / 6.6 ft		3.0 m / 9.0 ft		4.0 m / 13.2 ft		5.0 m / 16.5 ft		Max. reach		
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom: 2.9 m / 9'6"	5.0 m kg													*1,200 *1,200 3.9 m
	16.5 ft lb													*2,670 *2,670 12.7 ft
	4.0 m kg							*1,350 1,180						*1,030 870 4.8 m
	13.2 ft lb							*2,990 2,580						*2,280 1,930 15.6 ft
	3.0 m kg							*1,470 1,150	*1,380 800					*970 730 5.3 m
	9.9 ft lb							*3,230 2,520	*3,040 1,750	*2,150 1,620				17.2 ft
	2.0 m kg					*2,300 1,710		*1,720 1,100	*1,450 780					*980 670 5.5 m
	6.6 ft lb					*5,010 3,740		*3,770 2,410	*3,200 1,710	*2,170 1,480				18.0 ft
	1.0 m kg					*2,890 1,580		*1,970 1,050	*1,530 750	*1,040 660				5.5 m
	3.3 ft lb					*6,330 3,470		*4,310 2,290	*3,370 1,660	*2,300 1,450				18.0 ft
	0.0 m kg	*1,330	*1,330	*2,060	*2,060	*3,050	1,520	*2,060 1,010	*1,520 740	*1,170 690				5.3 m
	0.0 ft lb	*2,930	*2,930	*4,600	*4,600	*6,680	3,330	*4,520 2,210	*3,320 1,620	*2,580 1,520				17.3 ft
	-1.0 m kg	*2,520	*2,520	*3,610	2,950	*2,790	1,510	*1,900 1,000						*1,340 780 4.8 m
	-3.3 ft lb	*5,570	*5,570	*8,040	6,430	*6,100	3,300	*4,160 2,190						*2,960 1,730 15.8 ft
	-2.0 m kg	*4,040	*4,040	*3,130	3,010	*2,040	1,540							*1,200 1,040 4.0 m
	-6.6 ft lb	*8,980	*8,980	*6,820	6,580	*4,450	3,370							*2,650 2,300 13.0 ft
Arm: 1.9 m / 6'3"	5.0 m kg													*1,200 1,130 3.9 m
	16.5 ft lb													*2,670 2,540 12.7 ft
	4.0 m kg							*1,350 1,110						*1,030 820 4.8 m
	13.2 ft lb							*2,990 2,430						*2,280 1,810 15.6 ft
	3.0 m kg							*1,470 1,090	1,370 750	*970 690				5.3 m
	9.9 ft lb							*3,230 2,380	3,000 1,650	*2,150 1,520				17.2 ft
	2.0 m kg					*2,300 1,600		*1,720 1,030	*1,350 730	*980 630				5.5 m
	6.6 ft lb					*5,010 3,500		*3,770 2,270	*2,950 1,600	*2,170 1,390				18.0 ft
	1.0 m kg					*2,890 1,480		*1,870 980	1,320 710	*1,040 610				5.5 m
	3.3 ft lb					*6,330 3,240		*4,090 2,150	*2,890 1,550	*2,300 1,360				18.0 ft
	0.0 m kg	*1,330	*1,330	*2,060	*2,060	2,950	1,420	1,830 940	1,300 690	*1,170 640				5.3 m
	0.0 ft lb	*2,930	*2,930	*4,600	*4,600	6,440	3,100	3,990 2,070	2,850 1,520	*2,580 1,420				17.3 ft
	-1.0 m kg	*2,520	*2,520	*3,610	2,710	*2,790	1,410	1,810 930						*1,340 730 4.8 m
	-3.3 ft lb	*5,570	*5,570	*8,040	5,910	*6,100	3,080	3,970 2,050						*2,960 1,620 15.8 ft
	-2.0 m kg	*4,040	*4,040	*3,130	2,770	*2,040	1,430							*1,200 970 4.0 m
	-6.6 ft lb	*8,980	*8,980	*6,820	6,050	*4,450	3,140							*2,650 2,160 13.0 ft
Shoe: 1.9 m / 6'3"	5.0 m kg													*1,200 *1,200 3.9 m
	16.5 ft lb													*2,670 *2,670 12.7 ft
	4.0 m kg							*1,350 1,180						*1,030 870 4.8 m
	13.2 ft lb							*2,990 2,580						*2,280 1,930 15.6 ft
	3.0 m kg							*1,470 1,150	*1,380 800					*970 730 5.3 m
	9.9 ft lb							*3,230 2,520	*3,040 1,750	*2,150 1,620				17.2 ft
	2.0 m kg					*2,300 1,710		*1,720 1,100	*1,450 780	*980 670				5.5 m
	6.6 ft lb					*5,010 3,740		*3,770 2,410	*3,200 1,710	*2,170 1,480				18.0 ft
	1.0 m kg					*2,890 1,580		*1,970 1,050	*1,530 750	*1,040 660				5.5 m
	3.3 ft lb					*6,330 3,470		*4,310 2,290	*3,370 1,660	*2,300 1,450				18.0 ft
	0.0 m kg	*1,330	*1,330	*2,060	*2,060	*3,050	1,520	*2,060 1,010	*1,520 740	*1,170 690				5.3 m
	0.0 ft lb	*2,930	*2,930	*4,600	*4,600	*6,680	3,330	*4,520 2,210	*3,320 1,620	*2,580 1,520				17.3 ft
	-1.0 m kg	*2,520	*2,520	*3,610	2,950	*2,790	1,510	*1,900 1,000						*1,340 780 4.8 m
	-3.3 ft lb	*5,570	*5,570	*8,040	6,430	*6,100	3,300	*4,160 2,190						*2,960 1,730 15.8 ft
	-2.0 m kg	*4,040	*4,040	*3,130	3,010	*2,040	1,540							*1,200 1,040 4.0 m
	-6.6 ft lb	*8,980	*8,980	*6,820	6,580	*4,450	3,370							*2,650 2,300 13.0 ft
Single wheel	5.0 m kg													*1,200 1,130 3.9 m
	16.5 ft lb													*2,670 2,540 12.7 ft
	4.0 m kg							*1,350 1,110						*1,030 820 4.8 m
	13.2 ft lb							*2,990 2,430						*2,280 1,810 15.6 ft
	3.0 m kg							*1,470 1,090	1,370 750	*970 690				5.3 m
	9.9 ft lb							*3,230 2,380	3,000 1,650	*2,150 1,520				17.2 ft
	2.0 m kg					*2,300 1,710		*1,720 1,100	*1,450 780	*980 670				5.5 m
	6.6 ft lb					*5,010 3,740		*3,770 2,410	*3,200 1,710	*2,170 1,480				18.0 ft
	1.0 m kg					*2,890 1,480		*1,870 980	1,320 710	*1,040 610				5.5 m
	3.3 ft lb					*6,330 3,470		*4,310 2,290	*3,370 1,660	*2,300 1,450				18.0 ft
	0.0 m kg	*1,330	*1,330	*2,060	*2,060	2,950	1,420	1,830 940	1,300 690	*1,170 640				5.3 m
	0.0 ft lb	*2,930	*2,930	*4,600	*4,600	6,440	3,100	3,990 2,070	2,850 1,520	*2,580 1,420				17.3 ft
	-1.0 m kg	*2,520	*2,520	*3,610	2,710	*2,790	1,410	1,810 930						*1,340 730 4.8 m
	-3.3 ft lb	*5,570	*5,570	*8,040	5,910	*6,100	3,080	3,970 2,050						*2,960 1,620 15.8 ft
	-2.0 m kg	*4,040	*4,040	*3,130	2,770	*2,040	1,430							*1,200 970 4.0 m
	-6.6 ft lb	*8,980	*8,980	*6,820	6,050	*4,450	3,140							*2,650 2,160 13.0 ft
CWT: 350 kg / 772 lb	5.0 m kg													*1,200 *1,200 3.9 m
	16.5 ft lb													*2,670 *2,670 12.7 ft
	4.0 m kg							*1,350 1,110						*1,030 820 4.8 m
	13.2 ft lb							*2,990 2,430						*2,280 1,810 15.6 ft
	3.0 m kg							*1,470 1,090	1,370 750	*970 690				5.3 m
	9.9 ft lb							*3,230 2,380	3,000 1,650	*2,150 1,520				17.2 ft
	2.0 m kg					*2,300 1,710		*1,720 1,100	*1,450 780	*980 670				5.5 m
	6.6 ft lb					*5,010 3,500		*3,770 2,270	*2,950 1,600	*2,170 1,390				18.0 ft
	1.0 m kg					*2,890 1,480		*1,870 980	1,320 710	*1,040 610				5.5 m
	3.3 ft lb					*6,330 3,470		*4,310 2,290	*3,370 1,660	*2,300 1,450				18.0 ft
	0.0 m kg	*1,330	*1,330	*2,060	*2,060	2,950	1,420	1,830 940	1,300 690	*1,170 640				5.3 m
	0.0 ft lb	*2,930	*2,930	*4,600	*4,600	6,440	3,100	3,990 2,070	2,850 1,520	*2,580 1,420				17.3 ft
	-1.0 m kg	*2,520	*2,520	*3,610	2,710	*2,790	1,410	1,810 930						*1,340 730 4.8 m
	-3.3 ft lb	*5,570	*5,570	*8,040	5,910	*6,100	3,080	3,970 2,050						*2,960 1,620 15.8 ft
	-2.0 m kg	*4,040	*4,040	*3,130	2,770	*2,040	1,430							*1,200 970 4.0 m
	-6.6 ft lb	*8,980	*8,980	*6,820	6,050	*4,450	3,140							*2,650 2,160 13.0 ft
Machine: Front direction	5.0 m kg													*1,200 *1,200 3.9 m
	16.5 ft lb													*2,670 *2,670 12.7 ft
	4.0 m kg													*1,030 870 4.8 m
	13.2 ft lb													*2,280 1,930 15.6 ft
	3.0 m kg													*970 730 5.3 m
	9.9 ft lb													
	2.0 m kg	</td												

## LIFTING CAPACITY EW60E

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.0 m / 3.3 ft		2.0 m / 6.6 ft		3.0 m / 9.0 ft		4.0 m / 13.2 ft		5.0 m / 16.5 ft		Max. reach		
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom: 3.24 m / 10'8"	6.0 m kg													*2,650 *2,650 2.4 m
	19.8 ft lb													*6,120 *6,120 7.6 ft
	5.0 m kg					*2,000 *2,000		*1,770 1,500						*1,560 1,440 4.1 m
	16.5 ft lb					*4,410 *4,410		*3,890 3,270						*3,470 3,220 13.3 ft
	4.0 m kg					*2,040 *2,040		*1,690 1,520						*1,310 1,070 4.9 m
	13.2 ft lb					*4,480 *4,480		*3,720 3,330						*2,890 2,370 16.1 ft
	3.0 m kg					*2,400 2,330		*1,800 1,480		*1,480 1,040				*1,210 910 5.4 m
	9.9 ft lb					*5,240 5,100		*3,950 3,230		*3,250 2,270				*2,670 2,020 17.6 ft
	2.0 m kg					*2,860 2,150		*1,950 1,410		*1,510 1,010				*1,180 840 5.6 m
	6.6 ft lb					*6,260 4,700		*4,280 3,080		*3,300 2,210				*2,620 1,870 18.4 ft
	500 kg / 1,102 lb					*2,600 2,020		*2,000 1,340		*1,480 980				*1,160 830 5.6 m
	Machine:													
	Front direction													
	Dozer blade:													
	Down													
Boom: 3.24 m / 10'8"	-1.0 m kg					*2,020 *2,020		*1,920 *1,920		*1,440 1,310				*780 *780 4.9 m
	-3.3 ft lb					*4,450 *4,450		*4,210 *4,210		*3,140 2,870				*1,730 *1,730 16.2 ft
	-2.0 m kg							*930 *930		*520 *520				*320 *320 4.2 m
	-6.6 ft lb							*2,010 *2,010		*1,060 *1,060				*690 *690 13.6 ft
	6.0 m kg													*2,650 *2,650 2.4 m
	19.8 ft lb													*6,120 *6,120 7.6 ft
	5.0 m kg					*2,000 *2,000		*1,770 1,320						*1,560 1,260 4.1 m
	16.5 ft lb					*4,410 *4,410		*3,890 2,870						*3,470 2,820 13.3 ft
	4.0 m kg					*2,040 *2,040		*1,690 1,340						*1,310 930 4.9 m
	13.2 ft lb					*4,480 *4,480		*3,720 2,930						*2,890 2,070 16.1 ft
	3.0 m kg					*2,400 2,030		*1,800 1,290		*1,480 910				*1,210 800 5.4 m
	9.9 ft lb					*5,240 4,440		*3,950 2,840		*3,250 1,990				*2,670 1,760 17.6 ft
	2.0 m kg					*2,860 1,850		*1,950 1,230		*1,510 880				*1,180 740 5.6 m
	6.6 ft lb					*6,260 4,060		*4,280 2,690		*3,300 1,930				*2,620 1,630 18.4 ft
	500 kg / 1,102 lb													
	Machine:													
	Front direction													
	Dozer blade:													
	Up													

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Specifications

## LIFTING CAPACITY EW60E

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.0 m / 3.3 ft		2.0 m / 6.6 ft		3.0 m / 9.0 ft		4.0 m / 13.2 ft		5.0 m / 16.5 ft		Max. reach		
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom: 3.24 m / 10'8"	6.0 m kg													*2,650 *2,650 2.4 m
	19.8 ft lb													*6,120 *6,120 7.6 ft
	5.0 m kg					*2,000 *2,000		*1,770 1,510						*1,560 1,450 4.1 m
	16.5 ft lb					*4,410 *4,410		*3,890 3,290						*3,470 3,240 13.3 ft
	4.0 m kg					*2,040 *2,040		*1,690 1,530						*1,310 1,070 4.9 m
	13.2 ft lb					*4,480 *4,480		*3,720 3,350						*2,890 2,380 16.1 ft
	3.0 m kg					*2,400 2,340		*1,800 1,480		*1,480 1,040				*1,210 920 5.4 m
	9.9 ft lb					*5,240 5,130		*3,950 3,250		*3,250 2,280				*2,670 2,030 17.6 ft
	2.0 m kg					*2,860 2,160		*1,950 1,410		*1,510 1,020				*1,180 850 5.6 m
	6.6 ft lb					*6,260 4,730		*4,280 3,100		*3,300 2,220				*2,620 1,880 18.4 ft
	1.0 m kg					*2,600 2,030		*2,000 1,350		*1,480 990				*1,160 840 5.6 m
	3.3 ft lb					*6,020 4,450		*4,390 2,960		*3,240 2,160				*2,560 1,850 18.4 ft
	0.0 m kg					*2,560 2,000		*1,850 1,320		*1,310 970				*1,020 880 5.4 m
	0.0 ft lb					*5,620 4,370		*4,050 2,890		*2,860 2,130				*2,240 1,940 17.7 ft
	-1.0 m kg					*2,020 *2,020		*1,920 *1,920		*1,440 1,320				*780 *780 4.9 m
	-3.3 ft lb					*4,450 *4,450		*4,210 *4,210		*3,140 2,890				*1,730 *1,730 16.2 ft
	-2.0 m kg					*930 *930		*520 *520						*320 *320 4.2 m
	-6.6 ft lb					*2,010 *2,010		*1,060 *1,060						*690 *690 13.6 ft
Arm: 1.6 m / 5'3"	6.0 m kg													*2,650 *2,650 2.4 m
	19.8 ft lb													*6,120 *6,120 7.6 ft
	5.0 m kg					*2,000 *2,000		*1,770 1,320						*1,560 1,260 4.1 m
	16.5 ft lb					*4,410 *4,410		*3,890 2,870						*3,470 2,820 13.3 ft
	4.0 m kg					*2,040 *2,040		*1,690 1,340						*1,310 930 4.9 m
	13.2 ft lb					*4,480 *4,480		*3,720 2,930						*2,890 2,070 16.1 ft
	3.0 m kg					*2,400 2,030		*1,800 1,290		*1,480 910				*1,210 800 5.4 m
	9.9 ft lb					*5,240 4,440		*3,950 2,840		*3,250 1,990				*2,670 1,760 17.6 ft
	2.0 m kg					*2,860 1,850		*1,950 1,230		*1,510 880				*1,180 740 5.6 m
	6.6 ft lb					*6,260 4,060		*4,280 2,690		*3,300 1,930				*2,620 1,630 18.4 ft
	1.0 m kg					*2,600 1,730		*2,000 1,160		*1,480 850				*1,160 720 5.6 m
	3.3 ft lb					*6,020 3,790		*4,390 2,550		*3,240 1,870				*2,560 1,600 18.4 ft
	0.0 m kg					*2,560 1,700		*1,850 1,130		*1,310 840				*1,020 760 5.4 m
	0.0 ft lb					*5,620 3,710		*4,050 2,480		*2,860 1,840				*2,240 1,680 17.7 ft
	-1.0 m kg					*2,020 *2,020		*1,920 1,710		*1,440 1,130				*780 *780 4.9 m
	-3.3 ft lb					*4,450 *4,450		*4,210 3,740		*3,140 2,480				*1,730 *1,730 16.2 ft
	-2.0 m kg					*930 *930		*520 *520						*320 *320 4.2 m
	-6.6 ft lb					*2,010 *2,010		*1,060 *1,060						*690 *690 13.6 ft
Machine: 500 kg / 1,102 lb	6.0 m kg					*2,170 *2,170								*1,780 *1,780 3.2 m
	19.8 ft lb					*4,630 *4,630								*4,010 *4,010 10.2 ft
	5.0 m kg							*1,600 1,540						*1,240 1,230 4.5 m
	16.5 ft lb							*3,550 3,360						*2,740 *2,740 14.7 ft
	4.0 m kg							*1,580 1,540		*1,410 1,050				*1,060 950 5.3 m
	13.2 ft lb							*3,480 3,360		*3,100 2,300				*2,350 2,120 17.2 ft
	3.0 m kg					*2,010 *2,010		*1,710 1,490		*1,420 1,040				*990 830 5.7 m
	9.9 ft lb					*4,410 *4,410		*3,740 3,260		*3,120 2,280				*2,190 1,830 18.7 ft
	2.0 m kg					*2,720 2,180		*1,880 1,410		*1,470 1,010				*980 770 5.9 m
	6.6 ft lb					*5,930 4,770		*4,130 3,090		*3,230 2,210				*2,150 1,710 19.3 ft
	1.0 m kg					*2,940 2,020		*1,980 1,340		*1,480 970				*1,000 760 5.9 m
	3.3 ft lb					*6,440 4,430		*4,340 2,930		*3,240 2,130				*2,200 1,680 19.4 ft
	0.0 m kg					*2,700 1,960		*1,890 1,290		*1,370 950				*950 790 5.7 m
	0.0 ft lb					*5,930 4,290		*4,150 2,830		*3,000 2,080				*2,110 1,760 18.7 ft
	-1.0 m kg					*2,320 *2,320		*2,150 1,960		*1,570 1,280				*770 *770 5.3 m
	-3.3 ft lb					*5,170 *5,170		*4,710 4,290		*3,430 2,810				*1,690 *1,690 17.3 ft
	-2.0 m kg					*1,290 *1,290		*1,270 *1,270		*890 *890				*420 *420 4.6 m
	-6.6 ft lb					*2,820 *2,820		*2,760 *2,760		*1,910 *1,910				*910 *910 14.9 ft

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

## LIFTING CAPACITY EW60E

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.0 m / 3.3 ft		2.0 m / 6.6 ft		3.0 m / 9.0 ft		4.0 m / 13.2 ft		5.0 m / 16.5 ft		Max. reach					
		Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.			
Boom: 3.24 m / 10'8" Arm: 1.9 m / 6'3" Shoe: Twin wheel CWT: 500 kg / 1,102 lb Machine: Front direction Dozer blade: Up	6.0 m kg					*2,170	2,100						*1,780	*1,780	3.2 m		
	19.8 ft lb					*4,630	4,570						*4,010	*4,010	10.2 ft		
	5.0 m kg							*1,600	1,350				*1,240	1,080	4.5 m		
	16.5 ft lb							*3,550	2,950				*2,740	2,410	14.7 ft		
	4.0 m kg							*1,580	1,350	*1,410	920		*1,060	830	5.3 m		
	13.2 ft lb							*3,480	2,960	*3,100	2,020		*2,350	1,850	17.2 ft		
	3.0 m kg					*2,010	*2,010	*1,710	1,300	*1,420	910		*990	720	5.7 m		
	9.9 ft lb					*4,410	*4,410	*3,740	2,860	*3,120	1,990		*2,190	1,600	18.7 ft		
	2.0 m kg					*2,720	1,880	*1,880	1,230	*1,470	880		*980	670	5.9 m		
	6.6 ft lb					*5,930	4,120	*4,130	2,700	*3,230	1,920		*2,150	1,480	19.3 ft		
	1.0 m kg					*2,940	1,730	*1,980	1,160	*1,480	840		*1,000	660	5.9 m		
	3.3 ft lb					*6,440	3,790	*4,340	2,540	*3,240	1,850		*2,200	1,460	19.4 ft		
	0.0 m kg					*2,700	1,670	*1,890	1,120	*1,370	820		*950	690	5.7 m		
	0.0 ft lb					*5,930	3,660	*4,150	2,450	*3,000	1,800		*2,110	1,520	18.7 ft		
	-1.0 m kg					*2,320	*2,320	*2,150	1,670	*1,570	1,110		*1,040	820	*770	*770	5.3 m
	-3.3 ft lb					*5,170	*5,170	*4,710	3,660	*3,430	2,420		*2,240	1,800	*1,690	*1,690	17.3 ft
	-2.0 m kg					*1,290	*1,290	*1,270	*1,270	*890	*890			*420	*420	4.6 m	
	-6.6 ft lb					*2,820	*2,820	*2,760	*2,760	*1,910	*1,910			*910	*910	14.9 ft	
Boom: 3.24 m / 10'8" Arm: 1.9 m / 6'3" Shoe: Twin wheel CWT: 500 kg / 1,102 lb Machine: Rear direction Dozer blade: Down	6.0 m kg					*2,170	*2,170						*1,780	*1,780	3.2 m		
	19.8 ft lb					*4,630	*4,630						*4,010	*4,010	10.2 ft		
	5.0 m kg							*1,600	1,540				*1,240	1,240	4.5 m		
	16.5 ft lb							*3,550	3,370				*2,740	*2,740	14.7 ft		
	4.0 m kg							*1,580	1,550	*1,410	1,060		*1,060	960	5.3 m		
	13.2 ft lb							*3,480	3,380	*3,100	2,310		*2,350	2,130	17.2 ft		
	3.0 m kg					*2,010	*2,010	*1,710	1,500	*1,420	1,050		*990	830	5.7 m		
	9.9 ft lb					*4,410	*4,410	*3,740	3,280	*3,120	2,290		*2,190	1,850	18.7 ft		
	2.0 m kg					*2,720	2,190	*1,880	1,420	*1,470	1,010		*980	780	5.9 m		
	6.6 ft lb					*5,930	4,800	*4,130	3,110	*3,230	2,220		*2,150	1,720	19.3 ft		
	1.0 m kg					*2,940	2,030	*1,980	1,350	*1,480	980		*1,000	770	5.9 m		
	3.3 ft lb					*6,440	4,450	*4,340	2,950	*3,240	2,140		*2,200	1,690	19.4 ft		
	0.0 m kg					*2,700	1,970	*1,890	1,300	*1,370	950		*950	800	5.7 m		
	0.0 ft lb					*5,930	4,320	*4,150	2,850	*3,000	2,090		*2,110	1,770	18.7 ft		
	-1.0 m kg					*2,320	*2,320	*2,150	1,970	*1,570	1,290		*1,040	950	*770	*770	5.3 m
	-3.3 ft lb					*5,170	*5,170	*4,710	4,310	*3,430	2,830		*2,240	2,090	*1,690	*1,690	17.3 ft
	-2.0 m kg					*1,290	*1,290	*1,270	*1,270	*890	*890			*420	*420	4.6 m	
	-6.6 ft lb					*2,820	*2,820	*2,760	*2,760	*1,910	*1,910			*910	*910	14.9 ft	
Boom: 3.24 m / 10'8" Arm: 1.9 m / 6'3" Shoe: Twin wheel CWT: 500 kg / 1,102 lb Machine: Rear direction Dozer blade: Up	6.0 m kg					*2,170	2,100						*1,780	*1,780	3.2 m		
	19.8 ft lb					*4,630	4,570						*4,010	*4,010	10.2 ft		
	5.0 m kg							*1,600	1,350				*1,240	1,080	4.5 m		
	16.5 ft lb							*3,550	2,950				*2,740	2,410	14.7 ft		
	4.0 m kg							*1,580	1,350	*1,410	920		*1,060	830	5.3 m		
	13.2 ft lb							*3,480	2,960	*3,100	2,020		*2,350	1,850	17.2 ft		
	3.0 m kg					*2,010	*2,010	*1,710	1,300	*1,420	910		*990	720	5.7 m		
	9.9 ft lb					*4,410	*4,410	*3,740	2,860	*3,120	1,990		*2,190	1,600	18.7 ft		
	2.0 m kg					*2,720	1,880	*1,880	1,230	*1,470	880		*980	670	5.9 m		
	6.6 ft lb					*5,930	4,120	*4,130	2,700	*3,230	1,920		*2,150	1,480	19.3 ft		
	1.0 m kg					*2,940	1,730	*1,980	1,160	*1,480	840		*1,000	660	5.9 m		
	3.3 ft lb					*6,440	3,790	*4,340	2,540	*3,240	1,850		*2,200	1,460	19.4 ft		
	0.0 m kg					*2,700	1,670	*1,890	1,120	*1,370	820		*950	690	5.7 m		
	0.0 ft lb					*5,930	3,660	*4,150	2,450	*3,000	1,800		*2,110	1,520	18.7 ft		
	-1.0 m kg					*2,320	*2,320	*2,150	1,670	*1,570	1,110		*1,040	820	*770	*770	5.3 m
	-3.3 ft lb					*5,170	*5,170	*4,710	3,660	*3,430	2,420		*2,240	1,800	*1,690	*1,690	17.3 ft
	-2.0 m kg					*1,290	*1,290	*1,270	*1,270	*890	*890			*420	*420	4.6 m	
	-6.6 ft lb					*2,820	*2,820	*2,760	*2,760	*1,910	*1,910			*910	*910	14.9 ft	

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

# Equipment

## STANDARD EQUIPMENT

### Engine

Low-emission Volvo T4f diesel engine

Standard cooling system

Two-stage air filter

Fuel filter and water separator

Alternator, 90 A

### Electric / Electronic control system

Safe engine start function

Automatic idling system

Engine auto shut down

Halogen working lights;

Cab-mounted 1 (Front), Boom-mounted 1(LH)

Battery, 12 V / 100 Ah

Start motor, 12 V / 2.5 kW

Monitor and keypad

Master electrical disconnect switch

Electric dozer blade switch on joystick

Pattern change valve

Travel alarm

### Frame

Rearview mirror

Heavy counterweight

Under cover

Fender

Dozer blade

### Undercarriage

Single wheels: 12.00-16.5 12PR

### Hydraulic system

Automatic two speed travel motors

Cylinder cushioning

Hydraulic fluid mineral 46

Travel motor 30km/h (18.6mi/h)

### Cab and interior

Cab

Fabric operator seat with suspension

Seat belt, 3 inch retractable

Climate control with Air conditioning

Control joystick

Master key

Mechanical hour meter

### Digging equipment

Boom: 2.9m (9'6"), Arm: 1.6m (5'3")

Offset boom

Linkage

### Service

Tool kit-daily maintenance

## OPTIONAL EQUIPMENT

### Engine

Water separator (With heater)

### Electric / Electronic control system

Fuel filler pump: 35 l/min (9.3gal/min), with automatic shut-off

Halogen extra working lights;

Cab-mounted 1 (Rear)

Boom-mounted 1(RH)

Carettrack

Rotating warning beacon

Rearview Camera

Green light beacon

### Frame

Standard counterweight

Wide fender

Wide dozer blade

### Undercarriage

Twin wheels: 7.50-15.0 14PR

### Hydraulic system

Hydraulic piping:

Breaker & shear (X1 Double Acting)

- Max. Flow: 60 l/min (16 gpm)

- Max. Pressure: 22.5 Mpa (3,270 psi)

Slope & rotator (X3)

- Max. Flow: 22 l/min (6 gpm)

- Max. Pressure: 14.7 Mpa (2,130 psi)

Thumb (with three way valve)

Grapple

Quick coupler

Hose rupture valve for boom, arm

Overload warning device

Hydraulic oil, ISO VG 32, 68

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32, 46, 68

### Cab and interior

Fabric operator seat with suspension with heater

PVC operator seat with suspension

Seat belt, 2 inch retractable

Radio with MP3/AUX/Bluetooth

Cab mounted FOG (Falling Object Guard)

FOPS (Falling Object Protection Structure)

Sun visor

### Digging equipment

Fixed boom

2pcs boom: 3.24 m (10'8")

Long arm: 1.9 m (6'3")

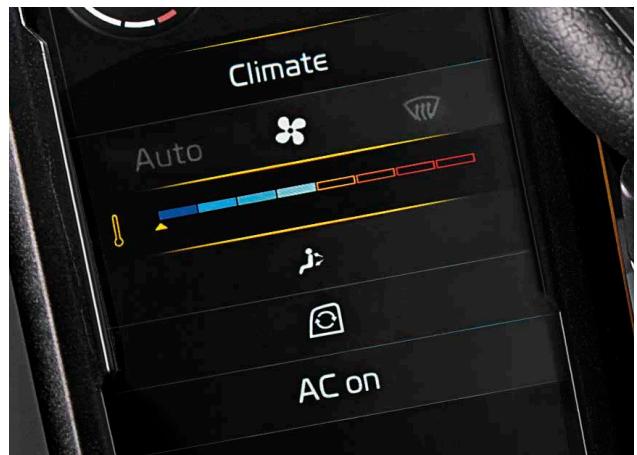
### Service

Tool kit, full scale

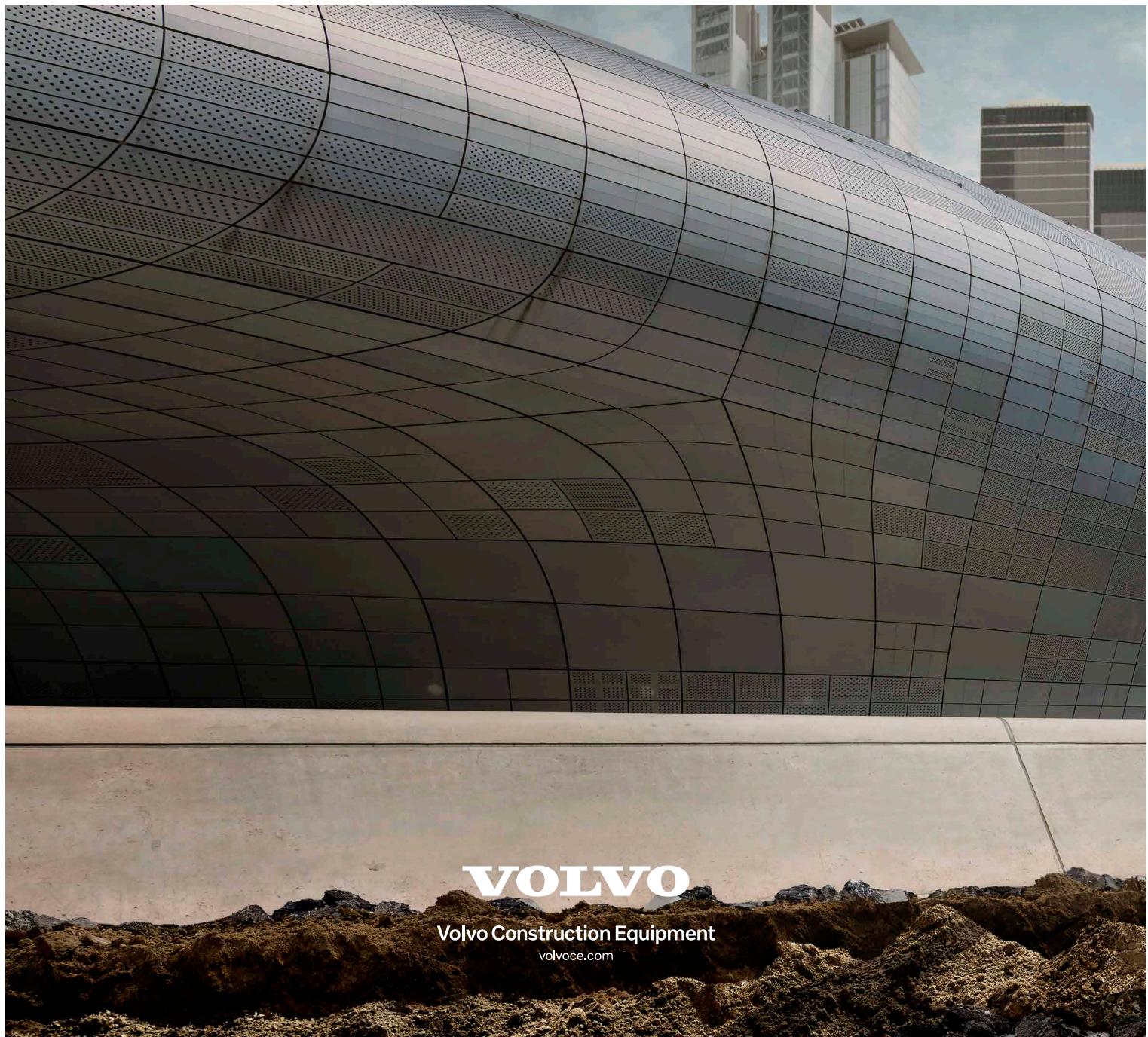
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**SELECTION OF VOLVO OPTIONAL EQUIPMENT**

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**Electric dozer blade switch on joystick****Rear view camera****Two-piece boom****LED Light****Twin tires****Auto Air Conditioning**

Not all products are available in all markets. 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.



**VOLVO**

Volvo Construction Equipment

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