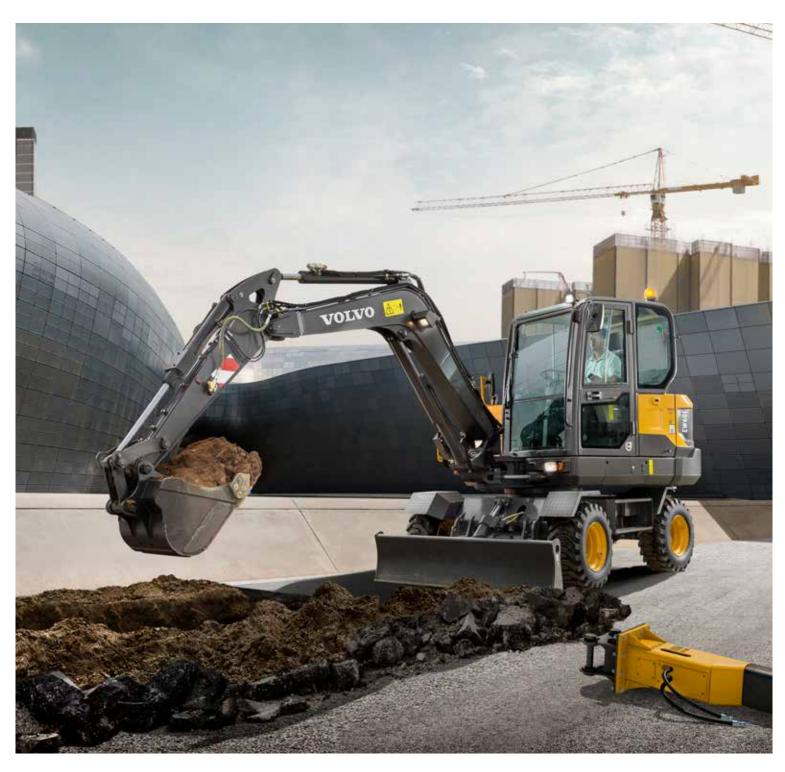


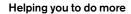
EW60E

Volvo Excavators 5.15-6.07 t 47.3 kW



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.



Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.





You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.













Volvo Trucks

Renault Truck

































Volvo Penta

Volvo Financial Services

UD Trucks

More space, more comfort, more work

The new and improved EW60E features a larger cab design for a comfortable and more productive operator environment. Improved ergonomics and a modern LCD display give you perfect control in all operations. Plenty of storage has been added for personal belongings.

Operator convenience

Increased 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.



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 10% more efficient and in automatic mode, the temperature remains at a set level. Six adjustable vents allow for optimal airflow in the cab.



Operator visibility

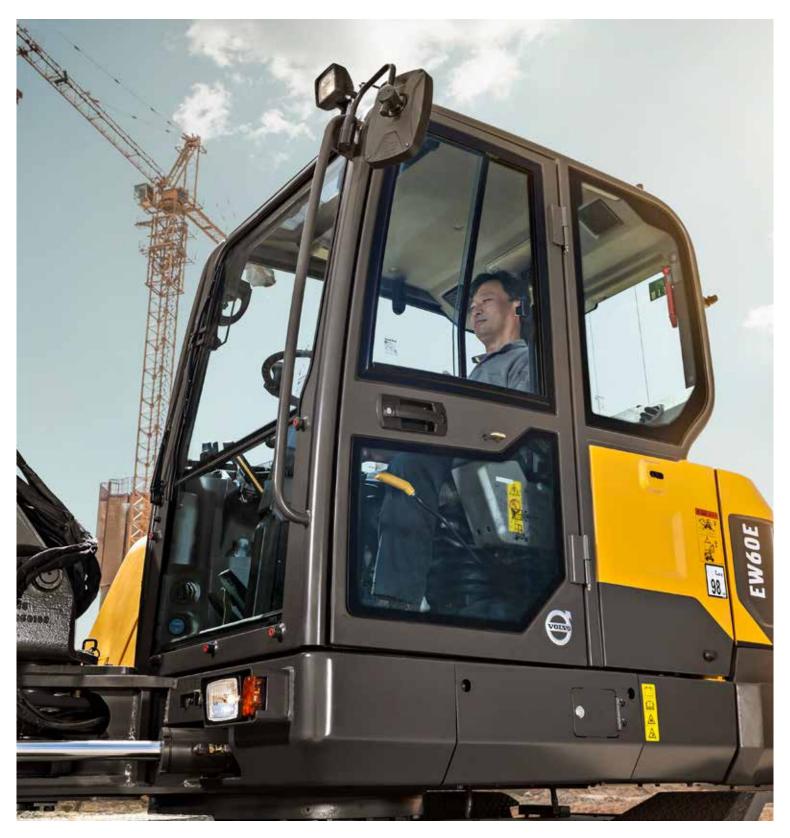
All-round visibility is improved by thinner pillars, larger glazed area and enlarged wiper blade. The rear view camera secures a better view for perfect and safe control through the 7" color LCD display. This ensures there are no blind spots even in the most confined working areas.



Ease of control

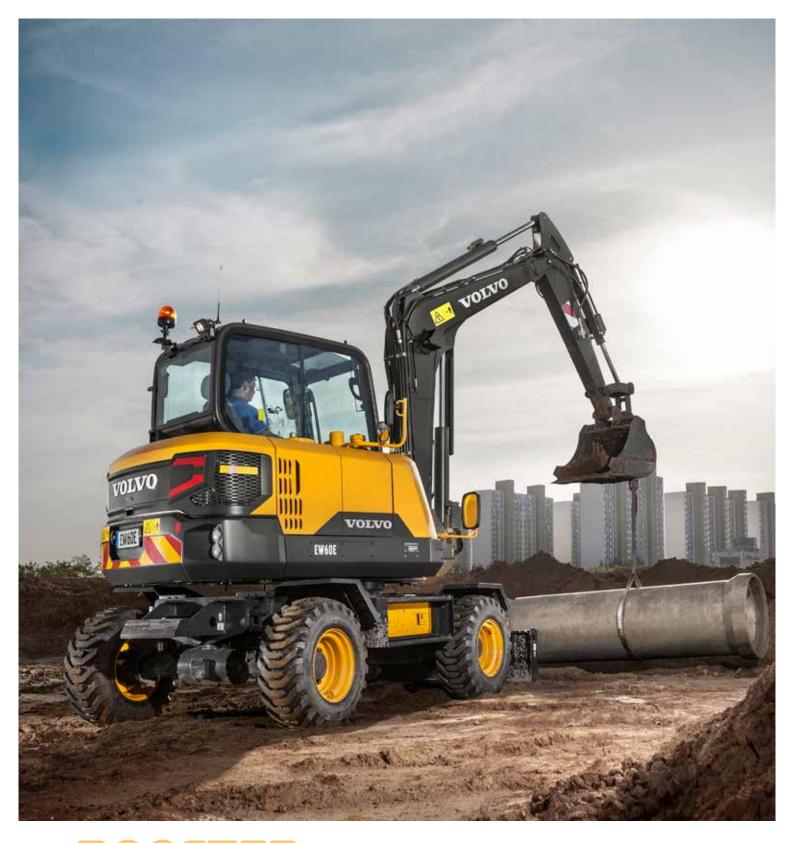
Control your machine with minimal effort in order to get more done in less time. The keypad groups all controls on the right hand side and the 7" color LCD screen displays all machine information for access to functions through its easy to use menus. Through the hot keys, the operator can directly access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





LARGER Cab

10% more space results in comfortable and relaxed operation, increasing production and reducing fatigue. The new cab design creates more space behind the seat, allowing the operator to move more freely within the space. The new generation Volvo Cab features more in cab room, increased glazed area and reduced noise levels.



BOOSTED PERFORMANCE

Do more in less time with increased combined digging efforts, a 5% increase in swing force, 4% in travel force and 10% in lifting capacity. The EW60E has been designed to tackle the most challenging job sites and contracts using the powerful Stage IIIB / 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 quicker, swing smoother, dig harder and load faster with the EW60E. Improved 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 Stage IIIB / 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 engine helps to push through challenging conditions.



Smooth operation

Smooth combined operation 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, longer dozer blade, auxiliary hydraulic and thumb pipings makes the machine suitable for a wide range of jobs and applications.



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. 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 better fuel efficiency than the previous machine series, this durable and reliable machine secures your costs and increases your uptime.

Low fuel consumption

The new Volvo engine and improved 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 idle 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

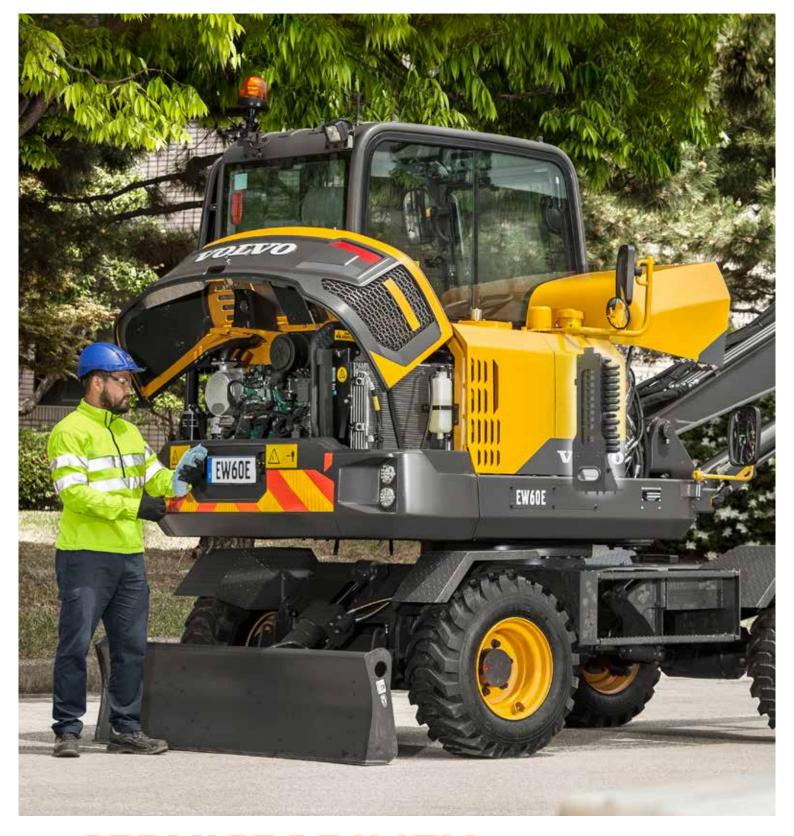
By working with your dealer and using Volvo MATRIS software you can analyse operator behaviour to improve efficiency, boost productivity and reduce your fuel and maintenance costs. Volvo also offers the VCADS Pro diagnostic system, making it easy to control your machine.



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 new main control valve location, convenient greasing points, a 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 attachments to be changed quickly and efficiently. Making it easier on site, the quick coupler picks different Volvo buckets and is the perfect match for the breakers and thumb.



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 combined digging efforts, a 10% improvement in traction, swing force and lifting capacity.

Smooth operation

Smooth combined operation 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 Stage IIIB / 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.

LARGER CAB

More space results in comfortable and relaxed operation, increasing production and reducing fatigue.



CUSTOMER SUPPORT AGREEMENTS

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

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.

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 and water cooled diesel engine type. This engine fully meets the demands of the latest Tier 4f (Stage IIIB) emsissions regulations.

Engine	Volvo	D2.6H
Max. power at	r/min	2 400
Net (ISO9249/SAEJ1349)	kW	45
	hp	61
Gross (ISO 14396/SAE J1995)	kW	47
	hp	64
Max. torque	Nm	222
at engine speed	r/min	1 500
No. of cylinders		4
Displacement	1	2.6
Bore	mm	87
Stroke	mm	110
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 big variable axial-piston motor on 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

Oscillating	±°	5
with mudguards	±۰	5
Tire	type	12-16.5 12PR
Tractive force (net)	kN	29
Travel speed, on road	km/h	30
Travel speed, off road	km/h	20
Travel speed, creep	km/h	10
Min. turning radius	m	5.1

Travel speeds may depend on to local regulations

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 CO2-eq

Sound Level

Sound level in cab according to ISO 6396		
LpA	dB(A)	78
External sound level according to ISO 6395	and EU Noise Directive 2000	0/14/EC
LwA	dB(A)	97

Hydraulic system

Open-center, negative hydraulic system providing accurate controllabilty. 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 read within the consumption.

working and best speed utilisation

Main pump (Type: Variable-displacement pun	np)	
Max. flow	2 x 60	
Pilot pump (Type: Gear pump)		
Max. flow	l/min	1 x 21.4
Swing + steering pump (Type: Low noise gea	ar pump)	
Max. flow	l/min	1 x 38.9
Relief valve setting pressure		
Implement	MPa	23
Travel system	MPa	23
Slew system	MPa	19
Pilot system	MPa	3.1
Hydraulic Cylinders		

Hydraulic Cylinders		
Boom		1
Bore x Stroke	ø x mm	110 x 707
Arm		1
Bore x Stroke	ø x mm	90 x 813
Bucket		1
Bore x Stroke	ø x mm	80 x 660
Dozer blade		1

Bore x Stroke	ø x mm	80 x 660
Dozer blade		1
Bore x Stroke	ø x mm	105 x 230
Boom swing		2
Bore x Stroke	ø x mm	90 x 570

Service brakes: servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits Parking brake: negative wet disc in gear housing, spring applied and pressure

released.

Digging brake: service brake with mechanical lock system.

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

Swing system

No need for gear oil replacement: The lubricating system uses hydraulic operation oil for the reduction gear, eliminating the need for gear oil

Built-in parking brake: Parking brake can be built into the hydraulic motor, enabling safer parking on an incline.

Shockless function: Shockless relief is standard equipment to enable smooth

traversing.

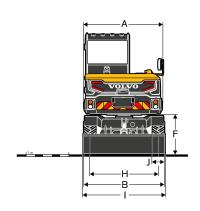
Max. slew torque	kNm	11.6
Max. slew speed	r/min	10
9		

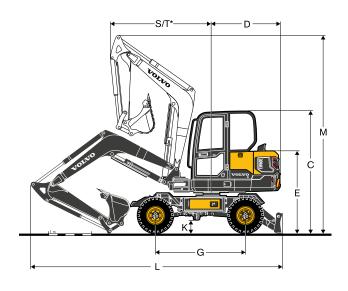
Total Machine Weights

Machine with 2.9m boom, 1.6m arm, 0.142m3 bucket, standard counterweight, dozer blade, without quick coupler and 75kg operator weight

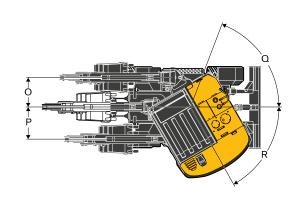
With dozer blade	kg	5 880
Service Refill		
Fuel tank	1	105
Hydraulic system, total	I	120
Hydraulic tank	- 1	76
Engine oil	I	11
Engine coolant	- 1	10
Transmission	I	1.7
Axle differential:		
Front axle	I	6.3
Rear axle	1	8

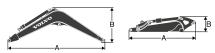
Specifications





DIM	EW60E			
Boo	Boom m			
Arm		m	1.6	
Α	Overall width of upper structure	mm	1 845	
В	Overall width	mm	1 930	
С	Overall height of cab	mm	2 855	
D	Tail swing radius	mm	1 650	
Е	Overall height of engine hood	mm	1 901	
F	Counterweight clearance	mm	960	
G	Wheel base	mm	2 100	
Н	Tread width	mm	1 595	
1	Dozerblade width	mm	1 930	
J	Tire width	mm	305	
K	Min. ground clearance	mm	295	
L	Overall length	mm	5 869	
М	Overall heght of boom raise	mm	4 599	
S	Front swing radius	mm	2 352	
T*	Front swing radius(Max. offset)	mm	1 386	
О	Boom swing distance	mm	756	
Р	Boom swing distance	mm	863	
Q	Boom swing angle	0	70	
R	Boom swing angle	۰	60	





DIMENSIONS			Boom	Arm
		m	2.9	1.6
Α	Length	mm	3 008	2 102
В	Height	mm	1 159	488
	Width	mm	336	300
	Weight	kg	349	206

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



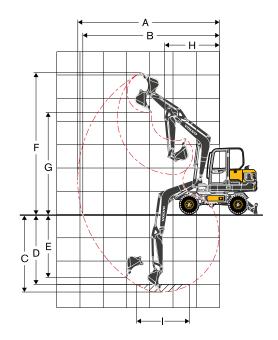
DIMENSIONS			Dozer blade
Α	Height	mm	465
	Width	mm	1 930
В	Lifting height	mm	440
С	Digging depth	mm	140

Specifications

wo	RKING RANGES					
Des	cription			Unit		
Boo	om			m 2.9		
Arm	m			m	1.6	
Α	Max. digging reach				6 090	
В	Max. digging reach of	on ground		mm	5 880	
С	Max. digging depth			mm	3 360	
D	Max.digging depth (I	Max.digging depth (I=2 440 mm level)				
Ε	Max. vertical wall dig	Max. vertical wall digging depth				
F	Max. cutting height			mm	6 070	
G	Max. dumping heigh	t		mm	4 380	
Н	Min. front swing radius mm 2 360			2 360		
DIG	GING FORCES WIT	H DIRECT FIT	BUCKE	Т		
D	SAE J1179 kN		39).5		
Breakout force (bucket) ISO 6015 kN 43.4				3.4		
SAF 11179 kN 27.2			' ?			

ISO 6015

kΝ



LIFTING CAPACITY EW60E

Tearout force (arm)

Rotation angle, bucket

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.

27.6

175

	Lifting hook related to ground level		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		Max. reach		
			Along UC	Across UC	mm										
Boom: 2.9 m Arm: 1.6 m GP Shoe: Wheel CWT: 350 kg Machine: Front direction Dozer blade: Down	5.0 m	kg											*1 520	1 470	3 449
	4.0 m	kg							*1 520	1 170			*1 270	980	4 421
	3.0 m	kg							*1 610	1 150			*1 190	810	4 947
	2.0 m	kg					*2 540	1 690	*1 840	1 100	*1 530	780	*1 200	740	5 190
	1.0 m	kg					*3 030	1 580	*2 040	1 050	*1 570	770	*1 280	720	5 197
	0.0 m	kg			*2 110	*2 110	*3 040	1 540	*2 070	1 030			*1 470	760	4 969
	-1.0 m	kg	*3 000	*3 000	*4 060	3 020	*2 650	1 540	*1 800	1 020			*1 420	890	4 464
	-2.0 m	kg			*2 450	*2 450	*1 680	1 590					*1 180	*1 180	3 530
Boom: 2.9 m Arm: 1.6 m GP Shoe: Wheel CWT: 350 kg Machine: Front direction Dozer blade: Up	5.0 m	kg											*1 520	1 380	3 449
	4.0 m	kg							*1 520	1 100			*1 270	920	4 421
	3.0 m	kg							*1 610	1 080			*1 190	760	4 947
	2.0 m	kg					*2 540	1 580	*1 840	1 030	1 410	740	*1 200	690	5 190
	1.0 m	kg					*3 030	1 480	1 950	990	1 390	720	*1 280	680	5 197
	0.0 m	kg			*2 110	*2 110	*3 040	1 440	1 920	960			1 390	710	4 969
	-1.0 m	kg	*3 000	*3 000	*4 060	2 770	*2 650	1 440	*1 800	960			*1 420	830	4 464
	-2.0 m	kg			*2 450	*2 450	*1 680	1 480					*1 180	1 180	3 530
Boom: 2.9 m Arm: 1.6 m GP Shoe: Wheel CWT: 350 kg Machine: Rear direction Dozer blade: Down	5.0 m	kg											*1 520	1 470	3 449
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	2.0 m	kg					*2 540		*1 840		*1 530		*1 200	740	5 190
	1.0 m	kg					*3 030	1 580			*1 570	770	*1 280	720	5 197
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	1.0 m	kg					1 470	1 480	990	990	720	720	680	680	5 197
	0.0 m	kg			*2 110	*2 110	1 430	1 440	960	960			720	710	4 969
	-1.0 m	kg	*3 000	*3 000	2 740	2 770	1 430	1 440	960	960			830	830	4 464
	-2.0 m	kg			*2 450	*2 450	1 470	1 480					1 180	1 180	3 530

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 T4 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

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

Travel alarm

Frame

Rearview mirror

350kg counterweight

Under cover

Dozer blade Undercarriage

Tyre: 12.00-16.5 12PR

Hydraulic system

Automatic two speed travel motors

Cylinder cushioning

Hydraulic fluid mineral 46

Travel motor (30km/h)

Cab and interior

Cab

Fabric operator seat with suspension

Seat belt, 2 inch retractable

Control joystick

Radio with MP3/AUX

Master key

Hour meter (non analog)

Digging Equipment Boom: 2

Linkage

Service

Tool kit-daily maintenance

OPTIONAL EQUIPMENT

Engine

Water separator (With heater)

Engine auto shut down

Electric / Electronic control system

Fuel filler pump: 35 l/min, with automatic shut-off

Halogen extra working lights;

Cab-mounted 1 (Rear)

Boom-mounted 1(RH)

Caretrack

Air compressor

Microphone

Rotating warning beacon

Electric pilot control change

Rearview Camera

Electric dozer blade switch on joystick

Hydraulic system

Hydraulic piping:

Breaker & shear

Slope & rotator

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

Travel motor (20km/h)

Cab and interior

Heater and air-conditioner

Fabric operator seat with suspension with heater

PVC operator seat with suspension

Control joystick, X3 proportional Radio with MP3/AUX/Bluetooth

Mechanical hour meter

Cab mounted FOG (Falling Object Guard)

FOPS (Falling Object Protection Structure)

Sun screen, front/roof

Safety net Service

Tool kit, full scale

Spare parts

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Electric dozer blade switch on joystick



Rear view camera



Auxiliary hydraulic piping (X3)



LED Light



Heated seat



Fixed boom



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.

