

V O L V O



Volvo Wheeled Excavator 6.1-7.4 t 68 hp

EW65

Volvo Construction Equipment

EW65

Get ready for more power, control and comfort in the Volvo EW65. With a host of impressive performance upgrades, new intuitive 8" display and enhanced uptime features, this versatile machine is equipped to achieve maximum results across a range of sectors.



Drive productivity to a new level

When a compact wheeled excavator is the right choice for your operation, count on the EW65 to deliver big results. Featuring a range of performance upgrades, including 6 % more engine power, improved swing performance and 9 % more boom lifting force, get ready to achieve optimum results across utilities, building, agriculture, landscaping, forestry and more. With a new 8" HD intuitive touchscreen display, enhanced controls and a range of comfort improvements, the EW65 continues the proud Volvo tradition of providing class-leading operator environments to the market. Engineered for maximum uptime, count on the EW65 for easy servicing, longer service intervals and a larger fuel tank – so you can work harder for longer.

Operator control



- New 8" high-definition touchscreen interface
- Operators can now control all essential machine functions from display
- Keyless engine start/stop
- Larger right-hand console for improved dozer blade control
- Hydraulic dozer blade lever with integrated high-speed travel and floating mode buttons

Extensive performance upgrades



- 6 % more engine power
- 6 % improved swing performance on the slope
- 5 % increased swing pressure and torque
- 9 % increase in boom lifting force
- 30 kmph top speed

Operator comfort



- New sliding seat, including 3-point seatbelt
- New, wider and height adjustable arm rest
- New tiltable left-hand console for easy entry/exit
- Conveniently located in-cab storage locations, with cupholder, document holder, phone holder and glove compartment
- Chargeable USB sockets

Easy servicing



- Wide opening hood
- Ground level service access
- Grouped filters

Longer service intervals



- DPF cleaning every 8 000 hours (up from 6 000 compared to the previous generation).
- Hydraulic return filter changes every 1 500 hours – 3 times longer than the previous generation
- 3 000-hour suction filter interval (50 % longer than previous generation)
- 6 000-hour long life oil interval (20 % longer than previous generation)

Work for longer



- Larger 120 litre fuel tank capacity (14 % increase compared to previous generation)
- Auto engine shutdown (operator sets pre-set shutdown time between 5-60 mins)
- CareTrack telematics with Active Care
- New software architecture for seamless future updates
- 14-PR single tire for greater tire durability

Attachment versatility



- Range of Volvo attachments
- 120 lpm hydraulic flow for attachments/accessories (double the previous generation)

New options



- New sliding air suspension seat, including 3-point seatbelt
- Additional oil drain line
- Engine block heater
- Side view camera
- White noise alarm

New intuitive display

- Featuring a new 8" high-definition touchscreen interface (inherited from larger Volvo Excavators)
- Operators can now control all essential machine functions from the convenience of the display and simplified interface
- The easy-to-use menu intuitively guides operators through key machine functions including attachment pre-set and selection, rear and side camera view, mobile phone Bluetooth pairing, and serviceability interval adjustments

One machine, many jobsites

- With range of Volvo Attachments, the EW65 can be equipped to take on a wide array of tasks
- With double the auxiliary hydraulic flow compared to the previous generation, the machine can now handle the most powerful attachments
- Whether utilities, building, agriculture, landscaping, forestry and more; Volvo attachments are designed to work in perfect harmony with your Volvo machine to deliver maximum results
- Optional 2-piece boom, heavier counterweight and twin tires



Wheeled performance

- Top speed up to 30 kmph
- Outstanding mobility
- Four-wheel drive allows you to travel on and off road with front axle locking when working
- Parking, work and transport modes
- Drive the machine easily between locations and access hard to reach job sites

Easy to service

- Servicing is quick and easy
- Wide opening hood
- Safe and easy access
- All service check points are located under the wide-opening engine hood and are accessed from ground level
- Grouped filters ensure regular maintenance is straightforward, helping to maximize uptime

More power to perform

- Dig powerfully, load efficiently and swing smoothly
- 5.8 % more engine power
- Improved swing performance on the slope
- 5 % increased swing pressure and torque and 9 % increase in boom lifting force
- This versatile machine delivers fast, reliable results across a wide range of applications



Volvo EW65 in detail

Engine

The new engine which provide 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 Stage V emissions regulations.

Engine	Brand	Kubota D2.6H
Max power at	rpm	2,400
Net, ISO 9249/SAE J1349	kW	48.8
	hp	66.4
Gross, ISO 14396/SAE J1995	kW	50
	hp	68
Max torque	Nm	225
	at engine speed	rpm
No. of cylinders		4
Displacement	lit	2.62
Bore	mm	87
Stroke	mm	110

Electrical System

Voltage	V	12
Battery capacity	Ah	100
Alternator	V/A	12/90
Start motor	V - kW	12 - 2.5

Undercarriage

Drivetrain: One big variable axial-piston motor on the two-step Power Shift gearbox gives power to front and rear axles.

Oscillation	±°	4.8
with mudguards	±°	4.8
Tire	type	12.00-16.5 12PR
Tractive force (net)	kN	29
Travel speed, on road	km/h	30
Travel speed, off road	km/h	10
Min. turning radius	m	5.1

Sound Level

Sound level in cab according to ISO 6396		
L _{PA}	dB	78
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
L _{WA}	dB	97

Hydraulic System

Open-center, negative hydraulic system providing accurate controllability.

Main pump: Variable-displacement pump

Max. flow	l/min	2 x 60
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Brake + steering pump: Low noise gear pump

Max. flow	l/min	1 x 38.9
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Pilot pump: Gear pump

Max. flow	l/min	1 x 21.4
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Implement	MPa	22.5
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Travel system	MPa	22.5
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Slew system	MPa	19.6
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Pilot system	MPa	3.13
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Maximum flow for accessories	l/min	120
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Maximum pressure for accessories	MPa	22.5
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Maximum flow for 2nd accessory circuit	l/min	28
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Maximum pressure for 2nd accessory circuit	MPa	15
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Hydraulic Cylinders

Boom		1
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Bore x Stroke	ø x mm	115 x 707
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Arm		1
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Bore x Stroke	ø x mm	90 x 813
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Bucket		1
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Bore x Stroke	ø x mm	80 x 660
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Dozer blade		1
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Bore x Stroke	ø x mm	105 x 230
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Boom swing		1
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Bore x Stroke	ø x mm	90 x 570
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Brake System

Service brakes: servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.

Swing System

-No need for gear oil replacement

Max. slew speed	rpm	9.1
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Max. slew torque	kN/m	12.3
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Service Refill

Fuel tank	lit	120
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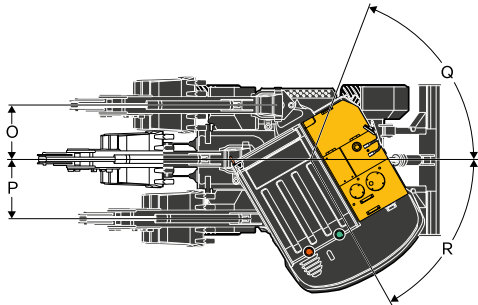
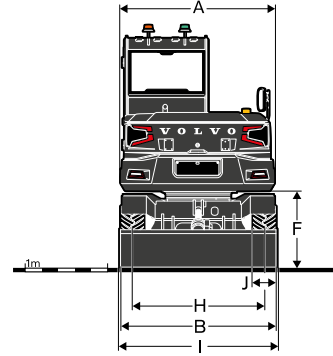
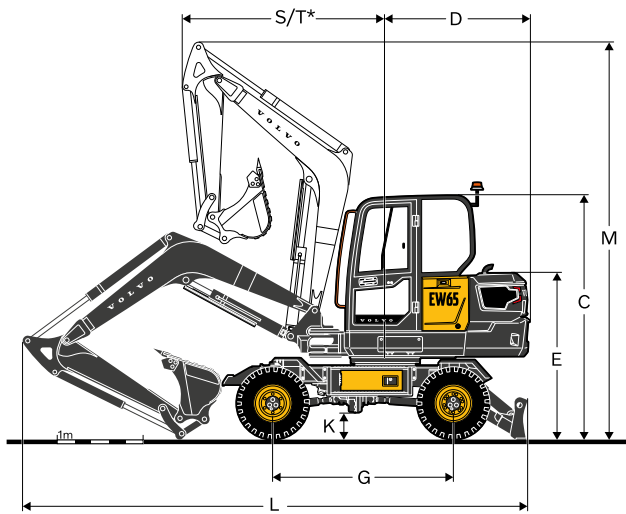
Hydraulic system, total	lit	105
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Hydraulic tank	lit	60
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Engine oil	lit	11
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Engine coolant	lit	10
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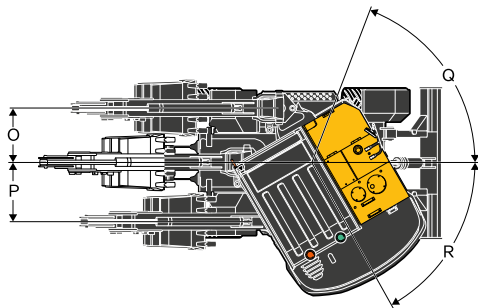
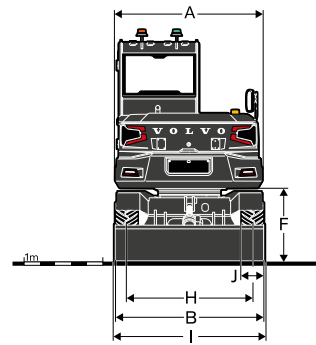
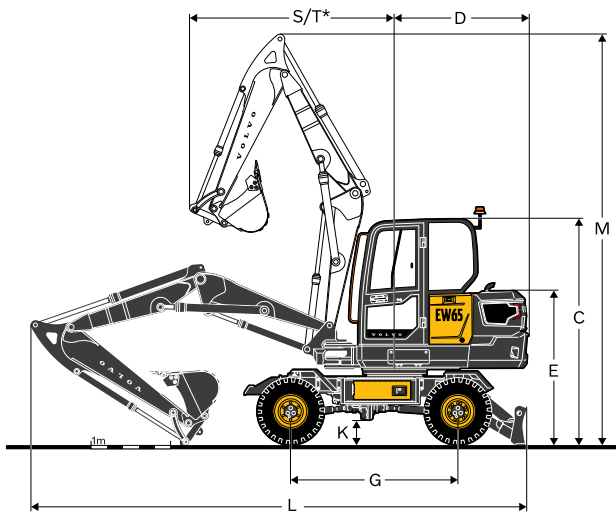
Specifications



DIMENSIONS

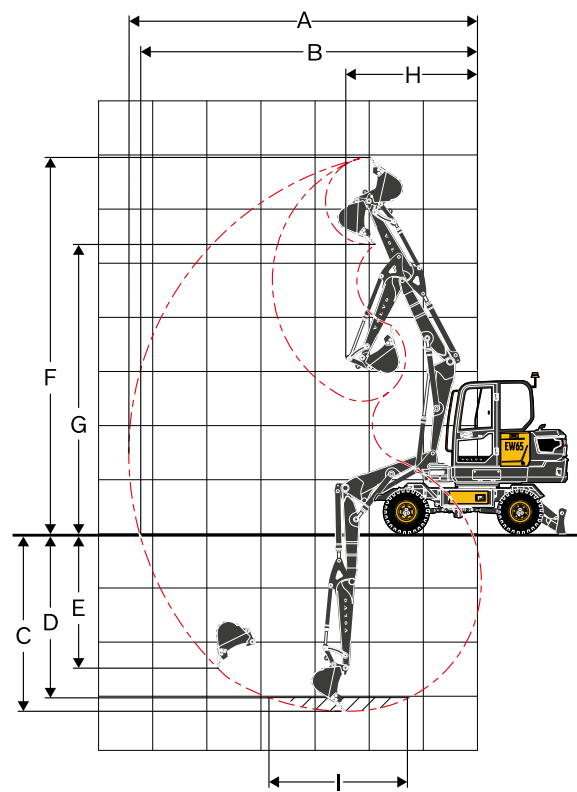
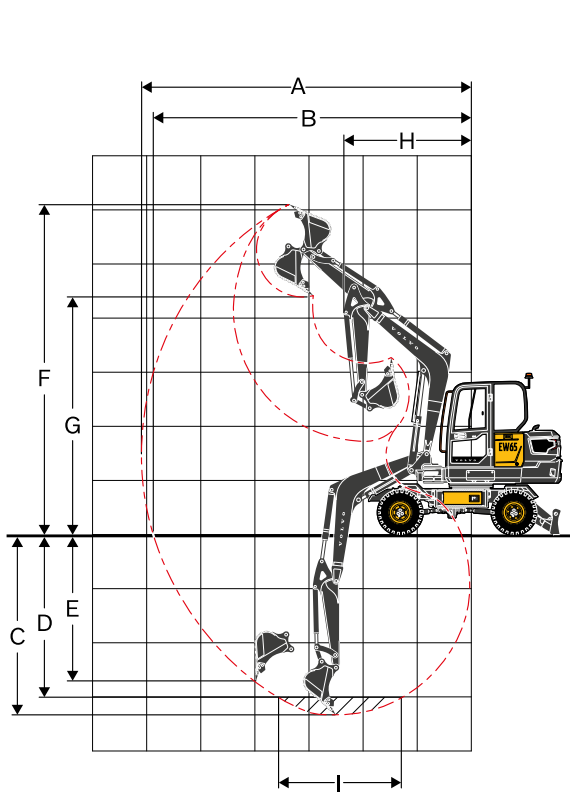
Description		EW65			
Boom		2.9 m Mono Boom + Single Tire		3.24 m Mono Boom + Twin Tire	
Arm	Unit	1.6 m	1.9 m	1.6 m	1.9 m
A Overall width of upper structure	mm	1 880	1 880	1 880	1 880
B Overall width	mm	1 930	1 930	2 210	2 210
C Overall height of cab	mm	2 855	2 855	2 820	2 820
D Tail swing radius	mm	1 690	1 690	1 690	1 690
E Overall height of engine hood	mm	1 925	1 925	1 885	1 885
F Counterweight clearance	mm	945	945	910	910
G Wheel base	mm	2 100	2 100	2 100	2 100
H Tread width	mm	1 595	1 595	1 715	1 715
I Dozer blade width	mm	1 930	1 930	2 210	2 210
J Tire width	mm	305	305	452	452
K Min. ground clearance	mm	295	295	275	275
L Overall length	mm	5 870	5 920	5 870	5 920
M Overall height of boom raise	mm	4 600	4 600	5 100	5 100
S Front swing radius	mm	2 350	2 370	2 350	2 370
T Front swing radius(Max. offset)	mm	1 385	1 385	1 385	1 385
O Boom swing distance	mm	756	756	756	756
P Boom swing distance	mm	863	863	863	863
Q Boom swing angle	°	80	80	80	80
R Boom swing angle	°	50	50	50	50

Specifications



DIMENSIONS

Description		EW65	
Boom		3.24 m 2-pieces Boom + Twin Tire	
Arm	Unit	1.6 m	1.9 m
A Overall width of upper structure	mm	1 880	1 880
B Overall width	mm	2 210	2 210
C Overall height of cab	mm	2 820	2 820
D Tail swing radius	mm	1 690	1 690
E Overall height of engine hood	mm	1 885	1 885
F Counterweight clearance	mm	910	910
G Wheel base	mm	2 100	2 100
H Tread width	mm	1 715	1 715
I Dozer blade width	mm	2 210	2 210
J Tire width	mm	452	452
K Min. ground clearance	mm	275	275
L Overall length	mm	6 085	6 100
M Overall height of boom raise	mm	5 135	5 135
S Front swing radius	mm	2 230	2 230
T Front swing radius(Max. offset)	mm	1 955	1 955
O Boom swing distance	mm	756	756
P Boom swing distance	mm	863	863
Q Boom swing angle	°	80	80
R Boom swing angle	°	50	50



WORKING RANGES

Description	Unit	EW65			
		2.9 m Mono Boom	3.24 m 2-pieces Boom	2.9 m Mono Boom	3.24 m 2-pieces Boom
Boom	m				
Arm	m	1.6 m		1.9 m	
A Max. digging reach	mm	6 024	6 432	6 313	6 729
B Max. digging reach on ground	mm	5 810	6 239	6 111	6 546
C Max. digging depth	mm	3 292	3 304	3 592	3 603
D Max. digging depth (l=2 440 mm level)	mm	2 905	3 119	3 188	3 432
E Max. vertical wall digging depth	mm	2 368	2 786	2 642	3 028
F Max. cutting height	mm	6 007	6 924	6 210	7 201
G Max. dumping height	mm	4 443	5 320	4 647	5 597
H Min. front swing radius	mm	2 350	2 423	2 367	2 550

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	SAE J1179	kN	37.7	37.7
	ISO 6015	kN	43.3	43.3
Tearout force (arm)	SAE J1179	kN	28.2	25.0
	ISO 6015	kN	28.8	25.4
Rotation angle, bucket		°	195.8	

Specifications

BUCKETS

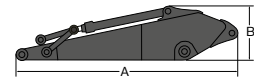
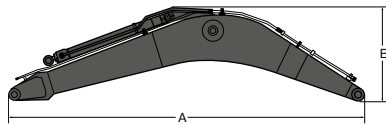
Width	Weight	Capacity
mm	kg	l
350	97	70
450	100	98
600	129	142
750	145	187
900	164	235
1 500	176	265

Max. permitted buckets

Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.
 2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.
 3. Bucket widths are less than bucket's tip radius.

BUCKET SELECTION GUIDE

		2.9 m Boom, Direct Fit	
		1.6 m Arm	
Description	Material density (t/m ³)	Volume (L)	Weight (kg)
GP Bucket	1.5	325	250
	1.8	275	200



DIMENSIONS

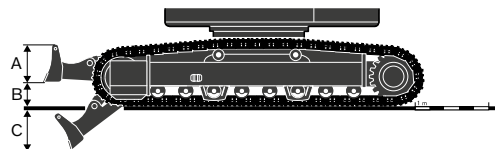
Description		Unit	Boom		Description		Unit	Arm	
			2.9 m	3.24 m				1.6 m	1.9 m
A	Length	mm	3 010	3 360	A	Length	mm	2 100	2 400
B	Height	mm	1 170	865	B	Height	mm	490	495
	Width	mm	335	530		Width	mm	300	300
	Weight	kg	355	490		Weight	kg	210	185

Includes cylinder, piping and pin, excludes boom cyl. Pin

Includes cylinder, linkage and pin

DIMENSIONS

Dozer blade		Unit	Standard Dozer	Wide for Twin Tire
A	Height	mm	465	465
	Width	mm	1 930	2 210
B	Lifting height	mm	440	440
C	Digging depth	mm	140	140



LIFTING CAPACITY EW65

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		2.0 m		3.0 m		4.0 m		5.0 m		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. reach	
Boom : 2.9 m Arm : 1.6 m GP Shoe : Single wheel CWT : 500 kg Machine: Front direction Dozerblade: Down	5 m	kg											*1 550	*1 550	3.4 m	
	4 m	kg							*1 670	1 250			*1 290	1 060	4.4 m	
	3 m	kg							*1 770	1 230			*1 210	870	4.9 m	
	2 m	kg						*2 790	1 810	*2 020	1 180	*1 690	850	*1 220	800	5.2 m
	1 m	kg						*3 330	1 700	*2 250	1 130	*1 730	830	*1 300	780	5.2 m
	0 m	kg			*2 150	*2 150	*3 350	1 660	*2 290	1 110				*1 500	820	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	3 250	*2 920	1 660	*1 990	1 110				*1 570	960	4.5 m
	-2 m	kg			*2 720	*2 720	*1 860	1 710						*1 310	*1 310	3.5 m
Boom : 2.9 m Arm : 1.6 m GP Shoe : Single wheel CWT : 500 kg Machine: Front direction Dozerblade: Up	5 m	kg											*1 550	1 480	3.4 m	
	4 m	kg							*1 670	1 180			*1 290	1 000	4.4 m	
	3 m	kg							*1 770	1 160			*1 210	820	4.9 m	
	2 m	kg						*2 790	1 700	*2 020	1 110	1 430	800	*1 220	750	5.2 m
	1 m	kg						3 200	1 600	1 990	1 070	1 410	780	*1 300	740	5.2 m
	0 m	kg			*2 150	*2 150	3 150	1 550	1 950	1 040				1 410	780	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	2 990	*2 920	1 560	1 950	1 040				*1 570	900	4.5 m
	-2 m	kg			*2 720	*2 720	*1 860	1 600						*1 310	1 280	3.5 m
Boom : 2.9 m Arm : 1.6 m GP Shoe : Single wheel CWT : 500 kg Machine: Rear direction Dozerblade: Down	5 m	kg											*1 550	*1 550	3.4 m	
	4 m	kg							*1 670	1 250			*1 290	1 060	4.4 m	
	3 m	kg							*1 770	1 230			*1 210	870	4.9 m	
	2 m	kg						*2 790	1 810	*2 020	1 190	*1 690	850	*1 220	800	5.2 m
	1 m	kg						*3 330	1 710	*2 250	1 140	*1 730	830	*1 300	780	5.2 m
	0 m	kg			*2 150	*2 150	*3 350	1 660	*2 290	1 110				*1 500	830	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	3 250	*2 920	1 670	*1 990	1 110				*1 570	960	4.5 m
	-2 m	kg			*2 720	*2 720	*1 860	1 710						*1 310	*1 310	3.5 m
Boom : 2.9 m Arm : 1.6 m GP Shoe : Single wheel CWT : 500 kg Machine: Rear direction Dozerblade: Up	5 m	kg											*1 550	1 480	3.4 m	
	4 m	kg							*1 670	1 180			*1 290	1 000	4.4 m	
	3 m	kg							*1 770	1 160			*1 210	820	4.9 m	
	2 m	kg						*2 790	1 700	*2 020	1 110	1 490	800	*1 220	750	5.2 m
	1 m	kg						3 330	1 600	2 060	1 070	1 470	780	*1 300	740	5.2 m
	0 m	kg			*2 150	*2 150	3 270	1 550	2 030	1 040				1 470	780	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	2 990	*2 920	1 560	*1 990	1 040				*1 570	900	4.5 m
	-2 m	kg			*2 720	*2 720	*1 860	1 600						*1 310	1 280	3.5 m
Boom : 2.9 m Arm : 1.9 m GP Shoe : Single wheel CWT : 500 kg Machine: Front direction Dozerblade: Down	5 m	kg											*1 230	*1 230	3.9 m	
	4 m	kg							*1 490	1 270			*1 050	940	4.8 m	
	3 m	kg							*1 620	1 240	*1 530	870	*990	790	5.3 m	
	2 m	kg						*2 530	1 830	*1 900	1 190	*1 610	840	*1 000	730	5.5 m
	1 m	kg						*3 190	1 710	*2 170	1 130	*1 700	820	*1 060	710	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	*3 370	1 640	*2 280	1 090	*1 680	800	*1 190	750	5.3 m	
	-1 m	kg	*2 570	*2 570	*3 680	3 180	*3 080	1 630	*2 110	1 080				*1 480	850	4.8 m
	-2 m	kg	*4 120	*4 120	*3 470	3 250	*2 270	1 670						*1 340	1 120	4.0 m
Boom : 2.9 m Arm : 1.9 m GP Shoe : Single wheel CWT : 500 kg Machine: Front direction Dozerblade: Up	5 m	kg											*1 230	1 220	3.9 m	
	4 m	kg							*1 490	1 200			*1 050	890	4.8 m	
	3 m	kg							*1 620	1 170	1 460	820	*990	750	5.3 m	
	2 m	kg						*2 530	1 720	*1 900	1 120	1 430	800	*1 000	690	5.5 m
	1 m	kg						*3 190	1 600	1 980	1 060	1 400	770	*1 060	670	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	3 130	1 540	1 940	1 030	1 390	750	*1 190	700	5.3 m	
	-1 m	kg	*2 570	*2 570	*3 680	2 930	*3 080	1 530	1 930	1 020				1 470	800	4.8 m
	-2 m	kg	*4 120	*4 120	*3 470	3 000	*2 270	1 560						*1 340	1 060	4.0 m

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 EW65

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		2.0 m		3.0 m		4.0 m		5.0 m		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. reach	
Boom : 2.9 m Arm : 1.9 m GP Shoe : Single wheel CWT : 500 kg Machine: Rear direction Dozerblade: Down	5 m	kg										*1 230	*1 230	3.9 m	
	4 m	kg						*1 490	1 270			*1 050	940	4.8 m	
	3 m	kg						*1 620	1 240	*1 530	870	*990	790	5.3 m	
	2 m	kg					*2 530	1 840	*1 900	1 190	*1 610	850	*1 000	730	5.5 m
	1 m	kg					*3 190	1 710	*2 170	1 130	*1 700	820	*1 060	720	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	*3 370	1 650	*2 280	1 100	*1 680	800	*1 190	750	5.3 m
	-1 m	kg	*2 570	*2 570	*3 680	3 190	*3 080	1 640	*2 110	1 090			*1 480	850	4.8 m
-2 m	kg	*4 120	*4 120	*3 470	3 260	*2 270	1 670					*1 340	1 130	4.0 m	
Boom : 2.9 m Arm : 1.9 m GP Shoe : Single wheel CWT : 500 kg Machine: Rear direction Dozerblade: Up	5 m	kg										*1 230	1 220	3.9 m	
	4 m	kg						*1 490	1 200			*1 050	890	4.8 m	
	3 m	kg						*1 620	1 170	1 510	820	*990	750	5.3 m	
	2 m	kg					*2 530	1 720	*1 900	1 120	1 490	800	*1 000	690	5.5 m
	1 m	kg					*3 190	1 600	2 060	1 060	1 460	770	*1 060	670	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	3 250	1 540	2 020	1 030	1 440	750	*1 190	700	5.3 m
	-1 m	kg	*2 570	*2 570	*3 680	2 930	*3 080	1 530	2 010	1 020			*1 480	800	4.8 m
-2 m	kg	*4 120	*4 120	*3 470	3 000	*2 270	1 560					*1 340	1 060	4.0 m	
Boom : 2.9 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Down	5 m	kg										*1 550	*1 550	3.4 m	
	4 m	kg						*1 670	1 520			*1 290	1 290	4.4 m	
	3 m	kg						*1 770	1 500			*1 210	1 070	4.9 m	
	2 m	kg					*2 790	2 240	*2 020	1 450	*1 690	1 040	*1 220	980	5.2 m
	1 m	kg					*3 330	2 130	*2 250	1 400	*1 730	1 020	*1 300	970	5.2 m
	0 m	kg			*2 150	*2 150	*3 350	2 080	*2 290	1 370			*1 500	1 020	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	4 200	*2 920	2 080	*1 990	1 370			*1 570	1 190	4.5 m
-2 m	kg			*2 720	*2 720	*1 860	*1 860					*1 310	*1 310	3.5 m	
Boom : 2.9 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Up	5 m	kg										*1 550	*1 550	3.4 m	
	4 m	kg						*1 670	1 350			*1 290	1 140	4.4 m	
	3 m	kg						*1 770	1 320			*1 210	950	4.9 m	
	2 m	kg					*2 790	1 950	*2 020	1 280	1 540	920	*1 220	860	5.2 m
	1 m	kg					*3 330	1 840	2 140	1 230	1 520	900	*1 300	850	5.2 m
	0 m	kg			*2 150	*2 150	*3 350	1 800	2 100	1 200			*1 500	900	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	3 500	*2 920	1 800	*1 990	1 200			*1 570	1 040	4.5 m
-2 m	kg			*2 720	*2 720	*1 860	1 840					*1 310	*1 310	3.5 m	
Boom : 2.9 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Down	5 m	kg										*1 550	*1 550	3.4 m	
	4 m	kg						*1 670	1 530			*1 290	*1 290	4.4 m	
	3 m	kg						*1 770	1 510			*1 210	1 080	4.9 m	
	2 m	kg					*2 790	2 250	*2 020	1 460	*1 690	1 050	*1 220	990	5.2 m
	1 m	kg					*3 330	2 140	*2 250	1 410	*1 730	1 030	*1 300	970	5.2 m
	0 m	kg			*2 150	*2 150	*3 350	2 090	*2 290	1 380			*1 500	1 030	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	4 220	*2 920	2 090	*1 990	1 380			*1 570	1 190	4.5 m
-2 m	kg			*2 720	*2 720	*1 860	*1 860					*1 310	*1 310	3.5 m	
Boom : 2.9 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Up	5 m	kg										*1 550	*1 550	3.4 m	
	4 m	kg						*1 670	1 350			*1 290	1 140	4.4 m	
	3 m	kg						*1 770	1 320			*1 210	950	4.9 m	
	2 m	kg					*2 790	1 950	*2 020	1 280	1 630	920	*1 220	860	5.2 m
	1 m	kg					*3 330	1 840	*2 250	1 230	1 610	900	*1 300	850	5.2 m
	0 m	kg			*2 150	*2 150	*3 350	1 800	2 230	1 200			*1 500	900	5.0 m
	-1 m	kg	*3 050	*3 050	*4 230	3 500	*2 920	1 800	*1 990	1 200			*1 570	1 040	4.5 m
-2 m	kg			*2 720	*2 720	*1 860	1 840					*1 310	*1 310	3.5 m	

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 EW65

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		2.0 m		3.0 m		4.0 m		5.0 m		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. reach	
Boom : 2.9 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Down	5 m	kg											*1 230	*1 230	3.9 m	
	4 m	kg							*1 490	*1 490			*1 050	*1 050	4.8 m	
	3 m	kg							*1 620	1 510	*1 530	1 060	*990	980	5.3 m	
	2 m	kg						*2 530	2 260	*1 900	1 460	*1 610	1 040	*1 000	900	5.5 m
	1 m	kg						*3 190	2 130	*2 170	1 400	*1 700	1 010	*1 060	890	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	*3 370	2 060	*2 280	1 360	*1 680	1 000	*1 190	930	5.3 m	
	-1 m	kg	*2 570	*2 570	*3 680	*3 680	*3 080	2 050	*2 110	1 350			*1 480	1 050	4.8 m	
	-2 m	kg	*4 120	*4 120	*3 470	*3 470	*2 270	2 090					*1 340	*1 340	4.0 m	
Boom : 2.9 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Up	5 m	kg											*1 230	*1 230	3.9 m	
	4 m	kg							*1 490	1 360			*1 050	1 010	4.8 m	
	3 m	kg							*1 620	1 330	*1 530	940	*990	860	5.3 m	
	2 m	kg						*2 530	1 970	*1 900	1 280	1 540	920	*1 000	790	5.5 m
	1 m	kg						*3 190	1 850	2 130	1 230	1 510	890	*1 060	780	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	3 370	1 780	2 090	1 190	1 500	870	*1 190	810	5.3 m	
	-1 m	kg	*2 570	*2 570	*3 680	3 440	*3 080	1 770	2 080	1 180			*1 480	930	4.8 m	
	-2 m	kg	*4 120	*4 120	*3 470	*3 470	*2 270	1 800					*1 340	1 220	4.0 m	
Boom : 2.9 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Down	5 m	kg											*1 230	*1 230	3.9 m	
	4 m	kg							*1 490	*1 490			*1 050	*1 050	4.8 m	
	3 m	kg							*1 620	1 520	*1 530	1 070	*990	980	5.3 m	
	2 m	kg						*2 530	2 270	*1 900	1 460	*1 610	1 050	*1 000	910	5.5 m
	1 m	kg						*3 190	2 140	*2 170	1 410	*1 700	1 020	*1 060	890	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	*3 370	2 080	*2 280	1 370	*1 680	1 000	*1 190	930	5.3 m	
	-1 m	kg	*2 570	*2 570	*3 680	*3 680	*3 080	2 060	*2 110	1 360			*1 480	1 060	4.8 m	
	-2 m	kg	*4 120	*4 120	*3 470	*3 470	*2 270	2 100					*1 340	*1 340	4.0 m	
Boom : 2.9 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Up	5 m	kg											*1 230	*1 230	3.9 m	
	4 m	kg							*1 490	1 360			*1 050	1 010	4.8 m	
	3 m	kg							*1 620	1 330	*1 530	940	*990	860	5.3 m	
	2 m	kg						*2 530	1 970	*1 900	1 280	*1 610	920	*1 000	790	5.5 m
	1 m	kg						*3 190	1 850	*2 170	1 230	1 600	890	*1 060	780	5.5 m
	0 m	kg	*1 350	*1 350	*2 110	*2 110	*3 370	1 780	2 210	1 190	1 590	870	*1 190	810	5.3 m	
	-1 m	kg	*2 570	*2 570	*3 680	3 440	*3 080	1 770	*2 110	1 180			*1 480	930	4.8 m	
	-2 m	kg	*4 120	*4 120	*3 470	*3 470	*2 270	1 800					*1 340	1 220	4.0 m	
Boom : 3.24 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Down	6 m	kg											*2 700	*2 700	2.4 m	
	5 m	kg						*2 190	*2 190	*1 950	1 470			*1 590	1 410	4.1 m
	4 m	kg						*2 240	*2 240	*1 860	1 490			*1 330	1 040	4.9 m
	3 m	kg						*2 640	2 290	*1 990	1 440	*1 640	1 010	*1 230	890	5.4 m
	2 m	kg						*3 160	2 100	*2 160	1 370	*1 670	980	*1 200	820	5.6 m
	1 m	kg						*2 650	1 970	*2 220	1 310	*1 640	950	*1 250	810	5.6 m
	0 m	kg						*2 840	1 940	*2 050	1 270	*1 460	940	*1 130	850	5.4 m
	-1 m	kg			*2 270	*2 270	*2 140	1 950	*1 600	1 270				*880	*880	4.9 m
-2 m	kg					*1 050	*1 050	*600	*600				*370	*370	4.2 m	
Boom : 3.24 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Up	6 m	kg											*2 700	*2 700	2.4 m	
	5 m	kg						*2 190	2 130	*1 950	1 290			*1 590	1 240	4.1 m
	4 m	kg						*2 240	2 100	*1 860	1 310			*1 330	910	4.9 m
	3 m	kg						*2 640	1 990	*1 990	1 270	1 520	880	*1 230	770	5.4 m
	2 m	kg						*3 160	1 810	2 120	1 200	1 490	860	*1 200	710	5.6 m
	1 m	kg						*2 650	1 690	2 050	1 130	1 460	830	1 230	700	5.6 m
	0 m	kg						*2 840	1 650	2 010	1 100	1 440	810	*1 130	740	5.4 m
	-1 m	kg			*2 270	*2 270	*2 140	1 670	*1 600	1 100				*880	840	4.9 m
-2 m	kg					*1 050	*1 050	*600	*600				*370	*370	4.2 m	

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 EW65

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		2.0 m		3.0 m		4.0 m		5.0 m		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. reach		
Boom : 3.24 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Down	6 m	kg											*2 700	*2 700	2.4 m	
	5 m	kg				*2 190	*2 190	*1 950	1 480				*1 590	1 420	4.1 m	
	4 m	kg				*2 240	*2 240	*1 860	1 500				*1 330	1 050	4.9 m	
	3 m	kg				*2 640	2 300	*1 990	1 450	*1 640	1 020		*1 230	890	5.4 m	
	2 m	kg				*3 160	2 110	*2 160	1 380	*1 670	990		*1 200	820	5.6 m	
	1 m	kg				*2 650	1 980	*2 220	1 320	*1 640	960		*1 250	810	5.6 m	
	0 m	kg				*2 840	1 950	*2 050	1 280	*1 460	940		*1 130	850	5.4 m	
	-1 m	kg			*2 270	*2 270	*2 140	1 960	*1 600	1 280				*880	*880	4.9 m
	-2 m	kg					*1 050	*1 050	*600	*600				*370	*370	4.2 m
Boom : 3.24 m Arm : 1.6 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Up	6 m	kg											*2 700	*2 700	2.4 m	
	5 m	kg				*2 190	2 130	*1 950	1 290				*1 590	1 240	4.1 m	
	4 m	kg				*2 240	2 100	*1 860	1 310				*1 330	910	4.9 m	
	3 m	kg				*2 640	1 990	*1 990	1 270	1 610	880		*1 230	770	5.4 m	
	2 m	kg				*3 160	1 810	*2 160	1 200	1 580	860		*1 200	710	5.6 m	
	1 m	kg				*2 650	1 690	2 180	1 130	1 550	830		*1 250	700	5.6 m	
	0 m	kg				*2 840	1 650	*2 050	1 100	*1 460	810		*1 130	740	5.4 m	
	-1 m	kg			*2 270	*2 270	*2 140	1 670	*1 600	1 100				*880	840	4.9 m
	-2 m	kg					*1 050	*1 050	*600	*600				*370	*370	4.2 m
Boom : 3.24 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Down	6 m	kg				*2 260	*2 260						*1 820	*1 820	3.2 m	
	5 m	kg						*1 770	1 510				*1 270	1 210	4.5 m	
	4 m	kg						*1 740	1 510	*1 560	1 030		*1 080	930	5.3 m	
	3 m	kg				*2 040	*2 040	*1 880	1 460	*1 580	1 020		*1 010	810	5.7 m	
	2 m	kg				*3 000	2 140	*2 080	1 380	*1 630	980		*1 000	750	5.9 m	
	1 m	kg				*3 260	1 970	*2 200	1 310	*1 640	950		*1 020	740	5.9 m	
	0 m	kg				*3 000	1 910	*2 100	1 260	*1 530	920		*1 070	770	5.7 m	
	-1 m	kg			*2 370	*2 370	*2 400	1 910	*1 750	1 250	*1 160	920		*870	*870	5.3 m
	-2 m	kg			*1 480	*1 480	*1 430	*1 430	*1 010	*1 010				*480	*480	4.6 m
Boom : 3.24 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Front direction Dozerblade: Up	6 m	kg				*2 260	2 080						*1 820	*1 820	3.2 m	
	5 m	kg						*1 770	1 330				*1 270	1 060	4.5 m	
	4 m	kg						*1 740	1 330	1 550	900		*1 080	820	5.3 m	
	3 m	kg				*2 040	2 030	*1 880	1 280	1 530	890		*1 010	700	5.7 m	
	2 m	kg				*3 000	1 840	*2 080	1 200	1 500	860		*1 000	650	5.9 m	
	1 m	kg				*3 260	1 690	2 050	1 130	1 460	820		*1 020	640	5.9 m	
	0 m	kg				*3 000	1 630	2 000	1 090	1 430	800		*1 070	670	5.7 m	
	-1 m	kg			*2 370	*2 370	*2 400	1 630	*1 750	1 080	*1 160	800		*870	750	5.3 m
	-2 m	kg			*1 480	*1 480	*1 430	*1 430	*1 010	*1 010				*480	*480	4.6 m
Boom : 3.24 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Down	6 m	kg				*2 260	*2 260						*1 820	*1 820	3.2 m	
	5 m	kg						*1 770	1 520				*1 270	1 210	4.5 m	
	4 m	kg						*1 740	1 520	*1 560	1 040		*1 080	940	5.3 m	
	3 m	kg				*2 040	*2 040	*1 880	1 470	*1 580	1 020		*1 010	810	5.7 m	
	2 m	kg				*3 000	2 150	*2 080	1 390	*1 630	990		*1 000	760	5.9 m	
	1 m	kg				*3 260	1 990	*2 200	1 310	*1 640	950		*1 020	750	5.9 m	
	0 m	kg				*3 000	1 930	*2 100	1 270	*1 530	930		*1 070	780	5.7 m	
	-1 m	kg			*2 370	*2 370	*2 400	1 920	*1 750	1 260	*1 160	930		*870	*870	5.3 m
	-2 m	kg			*1 480	*1 480	*1 430	*1 430	*1 010	*1 010				*480	*480	4.6 m
Boom : 3.24 m Arm : 1.9 m GP Shoe : Twin wheel CWT : 500 kg Machine: Rear direction Dozerblade: Up	6 m	kg				*2 260	2 080						*1 820	*1 820	3.2 m	
	5 m	kg						*1 770	1 330				*1 270	1 060	4.5 m	
	4 m	kg						*1 740	1 330	*1 560	900		*1 080	820	5.3 m	
	3 m	kg				*2 040	2 030	*1 880	1 280	*1 580	890		*1 010	700	5.7 m	
	2 m	kg				*3 000	1 840	*2 080	1 200	1 590	860		*1 000	650	5.9 m	
	1 m	kg				*3 260	1 690	2 180	1 130	1 550	820		*1 020	640	5.9 m	
	0 m	kg				*3 000	1 630	*2 100	1 090	1 520	800		*1 070	670	5.7 m	
	-1 m	kg			*2 370	*2 370	*2 400	1 630	*1 750	1 080	*1 160	800		*870	750	5.3 m
	-2 m	kg			*1 480	*1 480	*1 430	*1 430	*1 010	*1 010				*480	*480	4.6 m

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 AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Engine

Low-emission Volvo T4 diesel engine	•
Two-stage air filter	•
Electric engine shutoff	•
Fuel filter and water separator without heater	•
Water separator with heater	o
Fuel filler pump: 35 l/min, with automatic shut-off	o
Alternator, 90 A	•

Electric/Electronic control system

Safe engine start function	•
Automatic idling system	•
LED working lights;	•
-Cab-mounted 1 (Front), Boom-mounted 1 (LH)	•
Extra working lights;	o
-Cab-mounted 1 (Rear), Boom-mounted 1 (RH)	o
Master electrical disconnect switch	•
Rear view camera	•
Battery, 12 V / 100 Ah	•
Start motor, 12 V / 2.5 kW	•
Caretrack	o
Air compressor	o
Rotating warning beacon	o
Microphone	o

Hydraulic system

Automatic two speed travel motors	•
Hammer & shear hydraulic piping	•
Hydraulic piping:	o
Slope & rotator	o
Grapple	o
Quick coupler	o
Cylinder cushioning	•
Hydraulic fluid mineral 46	•
Hydraulic oil, ISO VG 32, 68	o
Hydraulic oil, biodegradable 46	o
Hydraulic oil, longlife oil 32, 46, 68	o
Hose rupture valve for boom	•
Overload warning device	•
Pilot control change	o

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

Cab and interior

Adjustable fabric operator seat with suspension	•
PVC operator seat with suspension	o
Delux seat (Fabric, PVC)	o
Seat belt, 2 inch retractable	•
Seat belt, 3 inch retractable	o
Control joystick	•
Heater and air-conditioner	•
Master key	•
Hour meter (non analog)	•

Frame

500 kg counterweight	•
Under cover	•
Dozer blade	•

Digging equipment

Boom: 2.9m	•
Arm: 1.6m	•
Linkage	•

Service

Tool kit-daily maintenance	•
Tool kit, full scale	o
Spare parts	o

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.

V O L V O