

V O L V O



Volvo Excavators 16.6 - 17.5 t 270 kWh

EWR150 ELECTRIC

Volvo Construction Equipment

EW150 ELECTRIC

The most compact design in its class, no exhaust emissions and near silent operation make this electric 15-tonne wheeled excavator a perfect fit for a range of inner-city applications.



More business opportunities



Zero exhaust emissions and a near-silent operation unlock even more business opportunities:

- Access jobsites with low carbon and low noise requirements
- Operate indoors without needing costly fume extraction systems or spark arrestors
- Work outside of standard hours.

Work a full day



A full day of work is possible, across most applications, without needing to recharge thanks to:

- Energy recovery functions such as electric traveling, extending your uptime.
- My Equipment digital tool helps ensure your machine is ready for action with valuable insights into battery status, machine hours and geographic location.

Most compact 15 t Electric Wheeled Excavator

The multi-talented 15-tonne EWR150 Electric wheeled excavator features the shortest tail radius in its class. It is an ideal solution for inner-city use or space-restricted jobsites. Based on the proven design of its market-leading diesel counterpart, the Volvo EWR150, it has been upgraded with the latest technology. This ensures the same great features and options that customers have come to expect, but now with even more compact dimensions and an enhanced performance – together with zero emissions and a near silent operation.



Flexible charging

We provide a wide range of AC and DC chargers to keep you up and running, including:

- An integrated on-board 22 kW AC charger (32 Ampere/400 V) for overnight charging, including the required charging cable, plug and adapters to charge from a wall socket or wallbox.
- Optional fast off-board chargers, including 150 kW DC. A CCS2 interface/Type 2 automotive standard inlet enables easy access to common chargers.



Lower operating costs

While other manufacturers provide converted machines, the EWR150 Electric is assembled from the factory – making it a significantly more energy efficient solution. This combines with low maintenance electrical components and a durable design to lower total cost of ownership.

- State-of-the-art batteries equipped with thermo-management system for maximum performance and lifetime
- 30% less maintenance requirements thanks to the electric driveline and maintenance free motors.



Enhanced operator comfort

The EWR150 Electric provides all the great features you have come to expect from its conventional counterpart, but now packaged in an improved state-of-the-art cab, a benefit enjoyed as part of the updated design for F-series excavators.

- Large intuitive display with integrated Volvo Co-Pilot
- Unrivalled visibility thanks to a large windshield and windows, clear view to the right, as well as rear and side view cameras
- Responsive, customizable electric joysticks
- Comfort Drive Control with joystick steering up to 20 km/h
- Automatic digging brake, Boom float function, drawer type toolboxes...



More performance and versatility

Reach further, lift heavier loads and squeeze in tighter spaces than ever before, thanks to the upgraded digging equipment kinematic. You can enjoy a minimized front swing radius, as well as all the proven features and benefits that you experience with the conventional model such as:

- Market-leading tail radius at 1 720 mm
- Multiple undercarriage combinations: outriggers, blade with different widths, hitches
- Steelwrist Tiltrotator and a range of Volvo Attachments
- Dig Assist apps: On-Board Weighing, In-Field Design

Volvo EWR150 Electric in detail

Electric Power System

High voltage system architecture. Full battery electric wheeled excavator. Emission free. Common architecture with other electric VCE products & Volvo Trucks , sharing electric components, safety architecture and system integration.		
System Voltage	V	600
Battery Type	Lithium-Ion (NCA)	
Installed Battery capacity	kWh	270
	Ah	-
Number of electric motors		3
Nominal electric Motor power - Propulsion	kW	80
Nominal electric Motor power - Main Hydraulic	kW	100
Nominal electric Motor power - Boom Hydraulic	kW	140
Max AC charging power (on board)	kW	22
Max DC charging power	kW	150
Charging Interface	CCS2	

Electrical System

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.		
Voltage	V	24
Battery	V	2 x 12
Battery capacity	Ah	2 x 100
System charging	Onboard DCDC converter	
DCDC rating	W	7 500

Undercarriage

Drivetrain: An electric motor in combination with a power shift gearbox supplies 3 speeds. The gearbox distributes the energy via propeller shafts to the axles. Bolted undercarriage with parallel blade and outriggers in different combinations Wheels: Alternative single and twin wheels available. Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.		
Oscillation	±°	9
with mudguards	±°	6
Twin wheels	type	10 - 20
Tractive force (net)	kN	113
Travel speed, on road	km/h	20 / 30 / 35
Travel speed, off road	km/h	8.5
Travel speed, creep	km/h	3
Min. turning radius	m	6.4*
*with Mitas 10" twin tyres, depending on tyres and lower frame configuration		

Cab

Redesigned Volvo Cab with operator protective structure, with new seats and new large storage space below the consoles and new interior lightning. Integrated wireless phone charger and extra Cooling box behind the operator.

Audio system with remote control and Bluetooth system for hands free phoning. Independently adjustable joystick consoles with 2 type of arm rests fixed to the console . The unique 12.8" touchscreen is attached to the righthand console for optimum view and takes away a lot of switches from the consoles . The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels.

Excellent all-round visibility provided by maximized cab class, transparent roof hatch, 2-piece sliding door window. The liftable front windshield can easily be stored in the inside roof space and clipped in position. The removable lower front glass can be stored in the side door pocket.

Sound Level

Sound level in cab, according to ISO 6396		
L _{pA}	dB	70
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
L _{WA}	dB	99

Hydraulic System

The new electro-hydraulic system with closed-centre load sensing Main Control Valve with pressure compensated valves and the electronic controlled pump provide superior controllability and new adjustment possibilities like speed and priority settings. Load independence of movements, flow sharing feature and superior manoeuvrability are given from the Diesel twin. Powered by the E³ Hybrid system with it's 3 electric motor, which allow electric and hydraulic energy recuperation, the efficiency and economy is elevated to a new level.

Main pump: low noise high efficient fix displacement pump

Max. flow	l/min	250*
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Boom (double) pump: low noise high efficient fix displacement pump

Max. flow	l/min	220
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Attachment circuit

Max. flow	l/min	220
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Max. pressure

Implement	MPa	34 / 37.5
Pilot system	MPa	3.8

*at engine speed 2 100 rpm.

Brake System

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.

Swing System

The superstructure is slewed by the means of a axial piston motor with reduction gear. Automatic slew holding brake and anti-rebound valve are standard.

Max. slew speed	rpm	8
Max. slew torque	kN/m	38

Total Machine Weights

Machine with 4.92 m 2-piece boom, 2.4 m dipper arm, quickcoupler S60, Mitas 10" twin tyres, 410 kg bucket.

With bolted dozer blade front and outriggers rear	kg	17 700
With bolted dozer blade rear only	kg	16 600

Service Refill

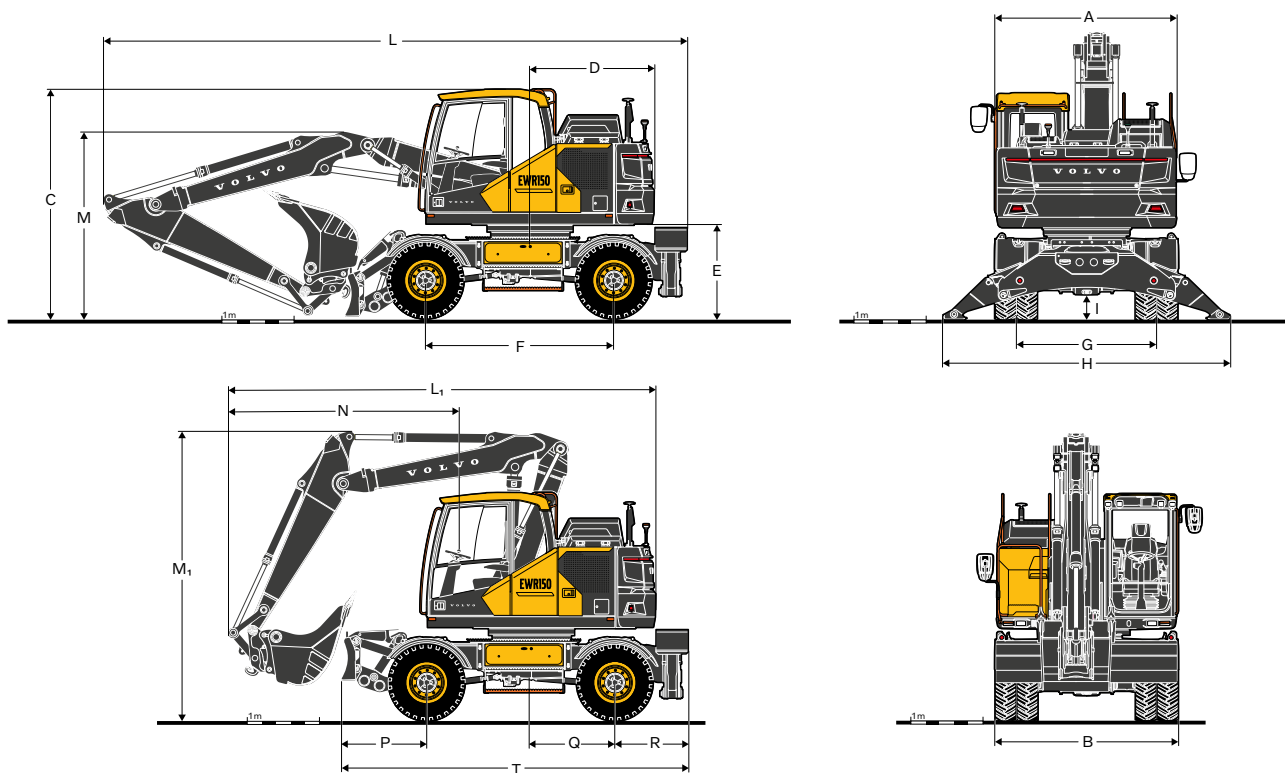
Hydraulic system, total	l	230
Hydraulic tank	l	96
Coolant	l	42
Transmission	l	2.5

Axle differential:

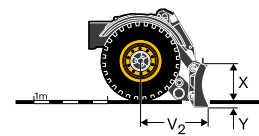
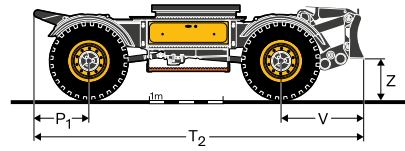
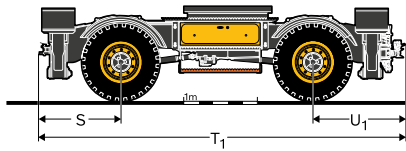
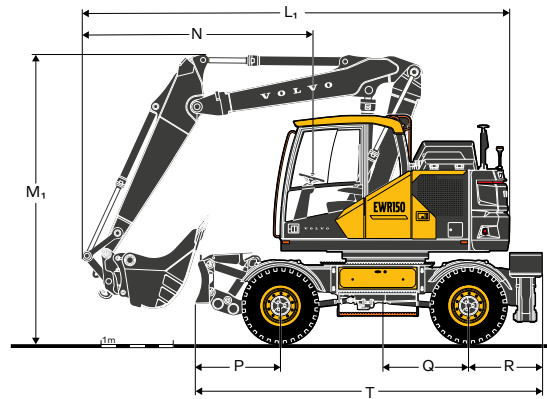
Front axle	l	9.5
Rear axle	l	12.5
Final drive	l	4 x 2.5



Specifications



DIMENSIONS		EWR150 Electric	
Description	Unit	2-piece boom	
	m	4.9	
A Overall width of superstructure	mm	2 520	
B Overall width	mm	2 550	
C Overall height of cab	mm	3 150	
D Tail slew radius	mm	1 720	
E Counterweight clearance	mm	1 270	
F Wheel base	mm	2 600	
G Tread	mm	1 940	
H Outrigger width (front or rear)	mm	3 980	
I Min. ground clearance	mm	350	
Description	Unit	2-piece boom	
	m	4.9	
		Arm	
	m	2.4	
L Overall length	mm	8 080	
M Overall height of boom	mm	2 550	
L ₁ Overall length	mm	6 430	
M ₁ Overall height of boom	mm	4 000	
N Front overhang	mm	3 200	

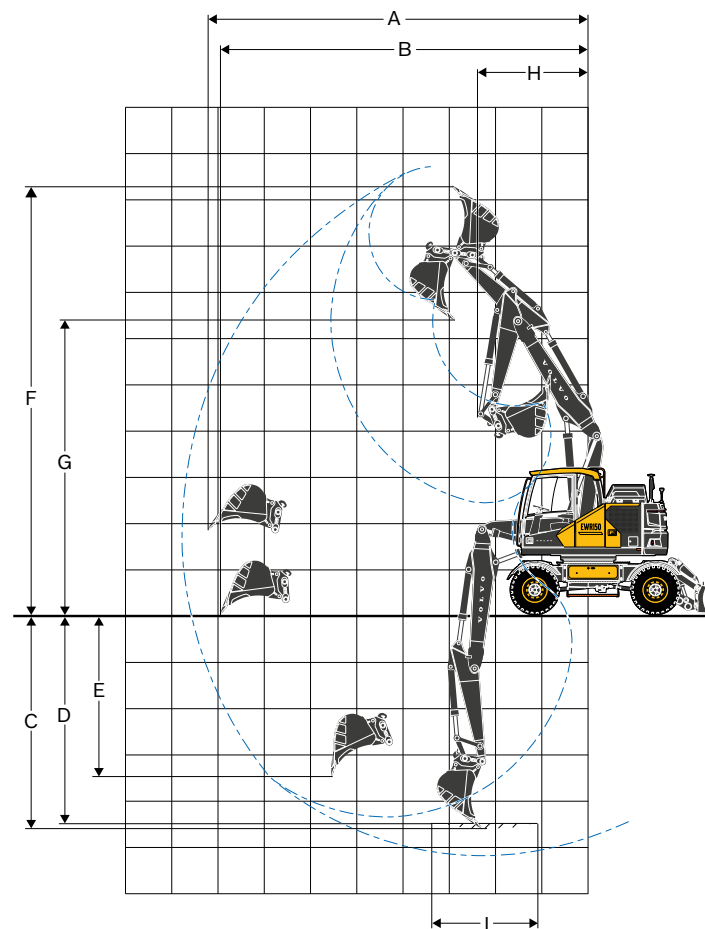


DIMENSIONS

Description	Unit	In case of parralle blade
P	mm	1 180
P ₁	mm	750
Q	mm	1 150
R	mm	1 060
S	mm	1 110
U	mm	1 060
U ₁ *	mm	1 250
T ₁	mm	4 970
T	mm	4 840
T ₂	mm	4 470
V	mm	1 120
V ₂	mm	920
X	mm	460
Y	mm	140
Z	mm	530

*with trailer hitch

Specifications



WORKING RANGES WITH DIRECT FIT BUCKET

	EWR150 Electric 4.9 m 2-piece boom	
	Unit	Arm
	m	2.4
A. Max. digging reach	mm	8 960
B. Max. digging reach on ground	mm	8 780
C. Max. digging depth	mm	5 230
D. Max. digging depth (I = 2 440 mm level)	mm	5 130
E. Max. vertical wall digging depth	mm	4 140
F. Max. cutting height	mm	10 410
G. Max. dumping height	mm	7 360
H. Min. front slew radius	mm	1 930

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	(ISO)	kN	108.5
Tearout force	(ISO)	kN	67

Max. recommended sizes for direct fit buckets

GP-Bucket (1.8 t/m³)	I	670
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Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m³)	I	610
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Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose. | 2. "Max permitted sizes" are for reference only and are not necessarily available from the factory.

LIFTING CAPACITY EWR150 Electric - Bolted undercarriage

At the arm end, without bucket and quick fit. Unit: 1 000 kg.

For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.

	Lifting point	Reach from machine centre (u = support up/d = support down)																				
		3.0 m				4.5 m				6.0 m				7.0 m				Max.				
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.
		m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d
2P Boom: 4.92 m Arm: 2.0 m Parallel blade front/ outrigger rear	7.5	7.2*	7.2*	7.2*	7.2*	-	-	-	-	-	-	-	-	-	-	-	-	4.8	6.0*	6.0*	6.0*	4.6
	6	6.6*	6.6*	6.6*	6.6*	4.0	5.8*	5.8*	5.8*	-	-	-	-	-	-	-	-	2.7	4.7	4.5	4.9*	6.1
	4.5	7.1	8.6*	8.6*	8.6*	3.8	6.3*	6.3*	6.3*	2.4	4.2	4.0	5.2*	-	-	-	-	2.1	3.7	3.5	4.7*	6.9
	3	-	-	-	-	3.5	6.4	6.0	7.1*	2.3	4.1	3.9	5.4*	-	-	-	-	1.9	3.3	3.1	4.7*	7.3
	1.5	-	-	-	-	3.3	6.1	5.8	7.6*	2.2	4.0	3.8	5.6*	-	-	-	-	1.8	3.2	3.0	4.6*	7.4
	0	-	-	-	-	3.2	6.0	5.6	7.4*	2.2	3.9	3.7	5.4*	-	-	-	-	1.9	3.3	3.1	4.4*	7.2
-1.5	-	-	-	-	3.2	6.0	5.6	6.2*	2.2	3.9	3.7	4.3*	-	-	-	-	2.1	3.8	3.6	4.0*	6.6	
2P Boom: 4.92 m Arm: 2.4 m Parallel blade front/ outrigger rear	7.5	6.2*	6.2*	6.2*	6.2*	4.0	5.1*	5.1*	5.1*	-	-	-	-	-	-	-	-	3.8	4.7*	4.7*	4.7*	4.0
	6	5.2*	5.2*	5.2*	5.2*	4.0	5.4*	5.4*	5.4*	2.5	4.3	4.0	4.4*	-	-	-	-	2.4	4.0*	4.0	4.0*	5.6
	4.5	6.3*	6.3*	6.3*	6.3*	3.9	5.9*	5.9*	5.9*	2.5	4.2	4.0	5.0*	-	-	-	-	1.9	3.4	3.2	3.8*	6.5
	3	-	-	-	-	3.6	6.4	6.1	6.8*	2.4	4.1	3.9	5.3*	-	-	-	-	1.7	3.0	2.9	3.8*	6.9
	1.5	-	-	-	-	3.3	6.1	5.8	7.5*	2.2	4.0	3.8	5.5*	-	-	-	-	1.6	2.9	2.8	4.0*	7.0
	0	5.1*	5.1*	5.1*	5.1*	3.2	6.0	5.6	7.5*	2.2	3.9	3.7	5.4*	-	-	-	-	1.7	3.0	2.9	4.2*	6.8
-1.5	-	-	-	-	3.2	5.9	5.6	6.6*	2.1	3.9	3.7	4.7*	-	-	-	-	1.9	3.4	3.2	3.8*	6.1	
2P Boom: 4.92 m Arm: 2.6 m Parallel blade front/ outrigger rear	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5*	7.5*	7.5*	7.5*	1.8
	7.5	5.6*	5.6*	5.6*	5.6*	4.0	5.2*	5.2*	5.2*	-	-	-	-	-	-	-	-	3.4	4.2*	4.2*	4.2*	4.9
	6	4.7*	4.7*	4.7*	4.7*	4.1	5.2*	5.2*	5.2*	2.5	4.3	4.1	4.7*	-	-	-	-	2.3	3.7*	3.7*	3.7*	6.3
	4.5	5.3*	5.3*	5.3*	5.3*	3.9	5.7*	5.7*	5.7*	2.5	4.3	4.1	4.9*	-	-	-	-	1.8	3.2	3.1	3.5*	7.1
	3	-	-	-	-	3.6	6.5	6.2	6.7*	2.4	4.1	4.0	5.2*	1.7	2.9	-	3.6*	1.6	2.9	2.8	3.5*	7.5
	1.5	-	-	-	-	3.3	6.1	5.9	7.5*	2.2	4.0	3.8	5.5*	1.6	2.9	-	4.3*	1.6	2.8	2.7	3.7*	7.6
	0	5.4*	5.4*	5.4*	5.4*	3.2	5.9	5.7	7.5*	2.1	3.9	3.7	5.5*	-	-	-	-	1.6	2.9	2.8	4.0	7.4
-1.5	5.7	9.3*	9.3*	9.3*	3.1	5.9	5.6	6.7*	2.1	3.9	3.7	4.8*	-	-	-	-	1.8	3.2	3.1	3.8*	-	

LIFTING CAPACITY EWR150 Electric - Bolted undercarriage

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		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.
		m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d
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	6	6.6*	6.6*	6.6*	6.6*	3.7	4.3	5.8*	5.8*	-	-	-	-	-	-	-	-	2.6	3.0	4.4	4.9*	6.1
	4.5	6.7	7.9	8.6*	8.6*	3.6	4.1	6.3	6.3*	2.3	2.6	3.9	5.2*	-	-	-	-	2.0	2.3	3.5	4.7*	6.9
	3	-	-	-	-	3.3	3.9	6.0	7.1*	2.2	2.5	3.8	5.4*	-	-	-	-	1.7	2.0	3.1	4.7*	7.3
	1.5	-	-	-	-	3.1	3.6	5.7	7.6*	2.1	2.4	3.7	5.6*	-	-	-	-	1.7	1.9	3.0	4.6*	7.4
	0	-	-	-	-	3.0	3.5	5.6	7.4*	2.0	2.4	3.7	5.4*	-	-	-	-	1.7	2.0	3.1	4.4*	7.2
	-1.5	-	-	-	-	3.0	3.5	5.6	6.2*	2.0	2.4	3.7	4.3*	-	-	-	-	2.0	2.3	3.6	4.0*	6.6
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	6	5.2*	5.2*	5.2*	5.2*	3.8	4.4	5.4*	5.4*	2.3	2.7	4.0	4.4*	-	-	-	-	2.3	2.6	3.9	4.0*	5.6
	4.5	6.3*	6.3*	6.3*	6.3*	3.6	4.2	5.9*	5.9*	2.3	2.7	4.0	5.0*	-	-	-	-	1.8	2.1	3.2	3.8*	6.5
	3	-	-	-	-	3.4	3.9	6.0	6.8*	2.2	2.5	3.9	5.3*	-	-	-	-	1.6	1.9	2.8	3.8*	6.9
	1.5	-	-	-	-	3.1	3.6	5.7	7.5*	2.1	2.4	3.7	5.5*	-	-	-	-	1.5	1.8	2.7	4.0*	7.0
	0	5.1*	5.1*	5.1*	5.1*	2.9	3.5	5.5	7.5*	2.0	2.3	3.6	5.4*	-	-	-	-	1.6	1.8	2.8	4.2*	6.8
	-1.5	-	-	-	-	2.9	3.5	5.5	6.6*	2.0	2.3	3.6	4.7*	-	-	-	-	1.8	2.1	3.2	3.8*	6.1
2P Boom: 4.92 m Arm: 2.6 m Parallel blade rear	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5*	7.5*	7.5*	7.5*	1.8
	7.5	5.6*	5.6*	5.6*	5.6*	3.8	4.3	5.2*	5.2*	-	-	-	-	-	-	-	-	3.2	3.7	4.2*	4.2*	4.9
	6	4.7*	4.7*	4.7*	4.7*	3.8	4.4	5.2*	5.2*	2.3	2.7	4.0	4.7*	-	-	-	-	2.1	2.5	3.7*	3.7*	6.3
	4.5	5.3*	5.3*	5.3*	5.3*	3.7	4.2	5.7*	5.7*	2.3	2.7	4.0	4.9*	-	-	-	-	1.7	2.0	3.0	3.5*	7.1
	3	-	-	-	-	3.4	3.9	6.1	6.7*	2.2	2.6	3.9	5.2*	1.5	1.8	-	3.6*	1.5	1.8	2.7	3.5*	7.5
	1.5	-	-	-	-	3.1	3.6	5.7	7.5*	2.1	2.4	3.7	5.5*	1.5	1.7	-	4.2	1.5	1.7	2.6	3.7*	7.6
	0	5.3	5.4*	5.4*	5.4*	2.9	3.5	5.5	7.5*	2.0	2.3	3.6	5.5*	-	-	-	-	1.5	1.8	2.7	4.0*	7.4
	-1.5	5.3	6.4	9.3*	9.3*	2.9	3.4	5.5	6.7*	2.0	2.3	3.6	4.8*	-	-	-	-	1.7	2.0	3.0	3.8*	-

Equipment

STANDARD EQUIPMENT
Electric/Electronic control system
Energy Storage System 600 V
AC- Charging cable 400 V, 16 A & 32 A
On Board Charger
Master electrical disconnect switch
Single 12.8" touch screen
LED Headlights & rear lights
Basic package (7) working lights
CareTrack via GSM
Rear and Side view camera
Undercarriage
3 speeds (creep / offroad / road speed up to 35 km/h)
Efficient recuperating electric travel system
Oscillating front axle $\pm 9^\circ$ without mudguards/ 6° with mudguards
Bolted type undercarriage
Trailer hitch at rear on Blade or Outrigger
Superstructure
Service walkway with anti-slip grating
Centralised lubricating point for slew bearing and boom
Auto lubrication system with linkage
Kinematic sensor package
White noise travel alarm
Counterweight with integrated LED lights and licenceplate holder
Digging equipment
4.92 m 2-piece boom
2.4 m digging arm
Linkage without lifting eye

STANDARD EQUIPMENT
Cab and interior
Volvo Care Cab with fixed roof hatch /ROPS
Automatic digging brake
Door locks, floor mat, horn, Safety glass, light tinted
Extra Large storage area
Premium seat with airsuspension, 3 step heat/Vent, 2-point seatbelt
Standard Armrest
Pull-up type front window
Removable lower windshield
Retractable 2point seat belt
Windshield wiper with washer and intermittent feature
Lower wiper
Cooling box
Sun shield, front, roof & rear
Anti-theft system
Bluetooth connection
2 USB ports
Start/Stop Button
Heater & air-conditioner, automatic
Hydraulic dampening cab mounts
Adjustable operator seat and joystick control console
Adjustable steering column
Hydraulic safety lock lever
L8 Control joysticks
Hydraulic system
Load sensing hydraulic system
Cylinder cushioning
Cylinder contamination seals
Return filter of full flow type 3 000 h exchange interval
Hose rupture valve for boom and arm
E ³ -Hybrid (hydraulic power split)
Dynamic RPM control with auto idle
Hydraulic long life oil ISO VG 46
X1 Circuit (e.g. Hammer & shears)with flow control
X3 with Flow&Press Control
Others
Tool kit daily maintenance
Licenceplate holder

OPTIONAL EQUIPMENT
Electric / Electronic control system
Flashing led orange beacon on cab
2 flashing led orange beacons on CWT
Extra work lights: standard (+6 extra LED)
Extra work lights: Deluxe standard (+7 extra LED, + arm end light +remote welcome home system)
2 electric heated and adjustable side mirrors
1 extra righthand mirror
Hydraulic system
Hydraulic oil, biodegradable ISO VG 46
Hydraulic long life oil ISO VG 32
Hydraulic long life oil ISO VG 68
HoldingValve_BucketCylBothSide
Pressure control for X1
Oil leak line
Cab and interior
Volvo Care Cab with openable PC roof hatch / ROPS
A9 joystick
Falling object guard (FOG)
Cab mounted falling object protective structures (FOPS)
Safety net for front window
Rain shield, front
Sun shield roof hatch
Sun visor right hand window
Smart Connect MiC 4.0
Volvo Smart View system
Unique combination key
Deluxe seat with airsuspension, 3 step heat/Vent, X-Isolator & elect lumbar support, 2-point seatbelt
ISRI Premium seat with airsuspension, heat, 3-point seatbelt
ISRI Deluxe seat with airsuspension, 3 step heat/Vent, X-Isolator & elect lumbar support, automatic weight adjustment, 3-point seatbelt
Deluxe Armrest

OPTIONAL EQUIPMENT
Undercarriage
Twin tires 10.00 – 20 / 11.00 – 20
Single tires 18R – 19.5 / 620/40-22.5
Single tires 650/45-22.5
Trailer hitch 40 mm or 50 mm with 1 outlet single acting
Travel speeds 20, 30 or 35 km/hrs
Bolted parallel dozer blade at rear or front
Bolted outrigger at rear
Grab holder at front
Mudguards, front/rear, plastic or metal
Tool box, left hand side/right hand side
Drawer type Toolbox
Hydraulic trailer brake
Quick fit piping
Quick fit piping SQF Volvo
Quick fit pip.UQF- Steelwrist
Auto-connect SQ prep.
Hydraulic quick fit
Full hydraulic Quick coupler (SQ)
S60 system
Service
Veritas (France)
SMV_Plate (Warning Triangle)
Wheel chocks
TÜV (Germany) incl. trailer_hitch
Attachments
Buckets, direct fit and for Quick Couplers
Quick couplers
Linkage with lifting eye
Tilt rotator Steelwrist MIC 4.0
Pallet forks

V O L V O