VOLVO

Volvo Wheel Loader 11.0-13.6 t 166 hp

L60H

Volvo Construction Equipment

L60H

Leave the heavy-duty work for the L60H, designed to do more, be more comfortable and help you increase your productivity.

Designed to do more

Hard work has never felt so easy. H-Series wheel loaders are built with an industry-leading, strong frame, which, combined with the ideally-matched genuine Volvo drivetrain, achieves long-lasting performance. And with the help of a range of smart apps you can boost the efficiency of your operation from the comfort of the cab.

Loaded with versatility

- Torque Parallel linkage
- Volvo attachment bracket
- Range of purpose-built attachments
- Rehandling bucket
- 3rd and 4th hydraulic functions

Keep it moving

- Quick hydraulic oil fill thanks to new mounted nipple
- Improved cooling capacity
- Strong frame and central hinge
- Optional delayed engine shutdown

Safety as standard

- Anti-slip steps and strategically placed handrails
- Orange three-point seatbelt
- Redesigned side mirrors
- Rear-view camera

Strong and stable

- Optimized loading unit weight, heavy-duty counterweight for greater stability
- 5,5% higher tipping load
- Standard electro-servo controls
- Bucket leveling function

Increased productivity

- Optional lock-up converter
- Top speed of 50km/h with lock-up feature
- Rimpull control
- Smart Control
- Smooth Control
- Eco pedal

Greater access

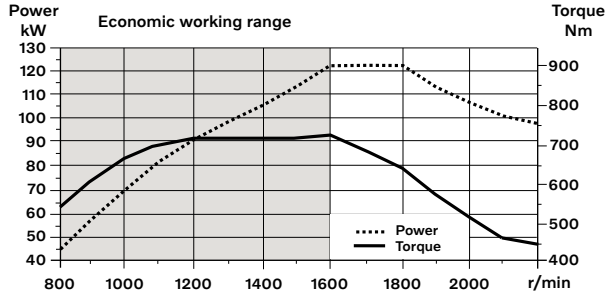
- Cooler installation slides out for easier cleaning
- Repositioned fill spouts for transmission and engine oil
- Ground-level access to service points
- Electronically-operated engine hood

Volvo L60H in detail

Engine

6-cylinder, 6 liters inline turbocharged diesel engine with an advanced fuel injection system with the common rail. Fuel is distributed under high pressure from a high-pressure accumulator, the rail. One belt driven high pressure pump deliver the fuel to the rail and then further on via high-pressure pipes to the electronically operated fuel injectors. Engine meets Tier 3 /Stage IIIA emission legislation.

Engine	Volvo	D6E
Max. power at	r/min	1 600 - 1 800
ISO 14396 gross	kW	122
	hp	166
ISO 9249, SAE J1349 net	kW	122
	hp	166
Max. torque at	r/min	1 600
ISO 14396 gross	Nm	730
ISO 9249, SAE J1349 net	Nm	730
Economic working range	r/min	1 100 - 1 600
Displacement	l	5.7



Electrical system

Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault, Low steering system pressure, Over speed warning engine, Interruption in communication (computer fault), Central warning light and buzzer with the gear engaged for the following functions: Low engine oil pressure, High engine oil temperature, High charge air temperature, Low coolant level, High coolant temperature, High crank case pressure, Low transmission oil pressure, High transmission oil temperature, Low brake pressure, Engaged parking brake, Fault on brake charging, Low hydraulic oil level, High hydraulic oil temperature, Overspeeding in engaged gear, High brake cooling oil temperature front and rear axles, etc.

Batteries	V	2 x 12
Battery capacity	Ah	2 x 110
Cold cranking capacity, approx	A	680
Alternator rating	W/A	3 135/80
Starter motor output	kW	5.5

Brake system

Service brake: Volvo dual-circuit system with outboard mounted, hydraulically operated, fully sealed and circulating oil cooled wet disc brakes. Four operator selectable transmission disengagement settings while braking.
Parking brake: Dry disc brake mounted on the transmission output shaft. Applied by spring force, electro-hydraulically released with a switch on the instrument panel.
Secondary brake: Dual brake circuits with rechargeable accumulators.
Standard: The brake system complies with the requirements of ISO 3450, 71/320/EEC

Number of brake discs per wheel		1
Accumulators	l	3 x 0.5
Accumulators for parking brake	l	1 x 0.5

Lift Arm System

Torque parallel linkage (TP-linkage) with high breakout torque and parallel lift-arm action.

Lift cylinders		2
Cylinder bore	mm	110
Piston rod diameter	mm	70
Stroke	mm	665
Tilt cylinder		1
Cylinder bore	mm	150
Piston rod diameter	mm	80
Stroke	mm	444

Steering System

System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement.
Steering cylinders: Two double-acting cylinders.

Steering cylinders		2
Cylinder bore	mm	70
Rod diameter	mm	45
Stroke	mm	386
Working pressure	MPa	21
Maximum flow	l/min	60
Maximum articulation	± °	40

Cab

Instrumentation: All important information is centrally located in the operator's field of vision. Display for Contronic monitoring system.
Heater and defroster: Heater coil with filtered fresh air and fan with auto and 11 manual speed settings. Defroster vents for all window areas.
Operator's seat: Operator's seat with adjustable air suspension and retractable seatbelt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails.
Standards: The cab is tested and approved according to ROPS (ISO 3471), FOPS (ISO 3449). The cab meets with requirements according to ISO 6055 (Operator overhead protection - Industrial trucks) and SAE J386 (Operator Restraint System).

Emergency exit: Use emergency hammer to break window

Ventilation	m^3/min	9
Heating capacity	kW	16
Air conditioning (optional)	kW	7.5

Sound Level

Sound pressure level in cab according to ISO 6396

L_{pA}	dB	68

External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC

L_{WA}	dB	105

Service Refill

Service accessibility: Large, electrically operated easy-to-open hood covering whole engine compartment. Fluid filters and component breather air filters are located from ground level access and promote long service intervals. Machine contronics have possibility to monitor, log and analyze data to facilitate troubleshooting. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill.

Fuel tank	l	222
Engine coolant	l	30
Hydraulic oil tank	l	90
Transmission oil (non lock-up)	l	21
Transmission oil (lock-up)	l	22
Engine oil	l	20
Axle oil front	l	25
Axle oil rear	l	25

Hydraulic system

Closed center load sensing hydraulic system with non pressurised hydraulic tank and pilot operated control valves.
System supply: Variable displacement axial piston pump supply the hydraulic system.
Valves: The central valve distributes pressure and flow out to the cooling fan, steering, brake, pilot and hydraulic system. Steering system gets priority over others.
Lift function: The valve has four positions; raise, hold, lower and float position. Automatic boom kickout position can be set to any position between maximum reach and full lifting height.
Tilt function: The valve has three functions; rollback, hold and dump. Automatic tilt out/tilt in can be adjusted to the desired bucket angle.
Cylinders: Double-acting cylinders for all functions.
Filter: Full flow filtration through 10 micron (absolute) filter cartridge.

Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa	26
Flow	l/min	145
at	MPa	10
engine speed	r/min	1 900
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa	21
Flow	l/min	33
at	MPa	10
engine speed	r/min	1 900
Pilot system, working pressure	MPa	3.5
Lift	s	5.4
Tilt	s	1.9
Lower, empty	s	2.7
Total cycle time	s	10

Drivetrain

Torque converter: Single-stage
Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM) valve.
Transmission: Volvo Automatic Power Shift (APS) gear shifting system with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO mode. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.
Axles: Volvo fully floating axle shafts with planetary hub reductions and cast steel axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

Transmission	Volvo	HTE 125C Non Lock-up / HTL 125 Lock-up
Torque multiplication, stall ratio		2.42:1 Non Lock-up / 2.59:1 Lock-up
Maximum speed		
1st gear	km/h	Converter 7.5 / Lock-up 7.5
2nd gear	km/h	Converter 15 / Lock-up 15
3rd gear	km/h	Converter 28 / Lock-up 29
4th gear	km/h	Converter 46 / Lock-up 50
4th gear: Shown in speedometer and limited by ECU		
Measured with tires		20.5R25
Front axle/rear axle		AWB 15/AWB 15
Rear axle oscillation	± °	13
Ground clearance	mm	470
at oscillation	°	13

Specifications

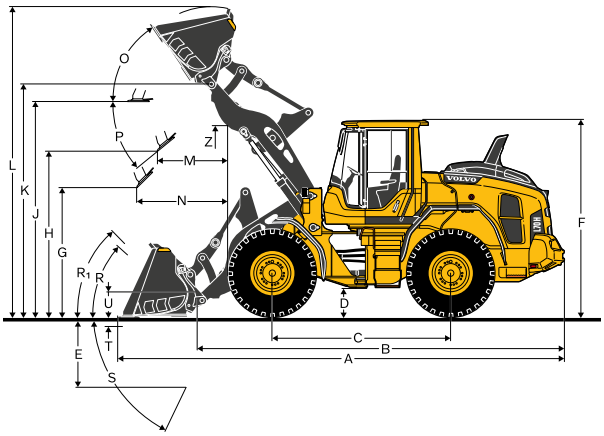
Tires 20.5 R25 L3

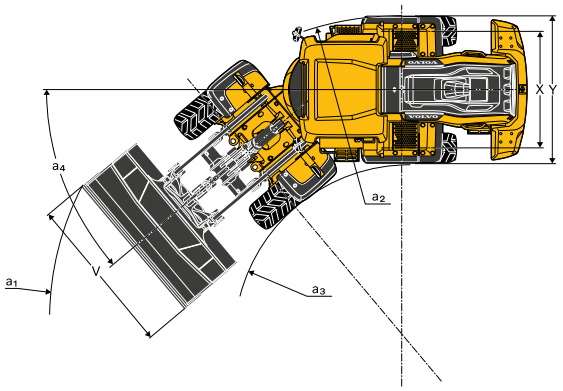
		L60H	
		Standard boom	Long boom
B	mm	6 010	6 520
C	mm	3 000	3 000
D	mm	440	430
F	mm	3 270	3 270
G	mm	2 133	2 134
J	mm	3 550	4 080
K	mm	3 870	4 380
O	°	56	56
P_{max}	°	45	42
R	°	43	45
R_1*	°	46	50
S	°	79	79
T	mm	123	150
U	mm	410	590
X	mm	1 900	1 900
Y	mm	2 430	2 430
Z	mm	3 210	3 590
a_2	mm	5 340	5 340
a_3	mm	2 900	2 900
a_4	±°	40	40

* Carry position SAE

**Calculated with additional protective guarding

Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818

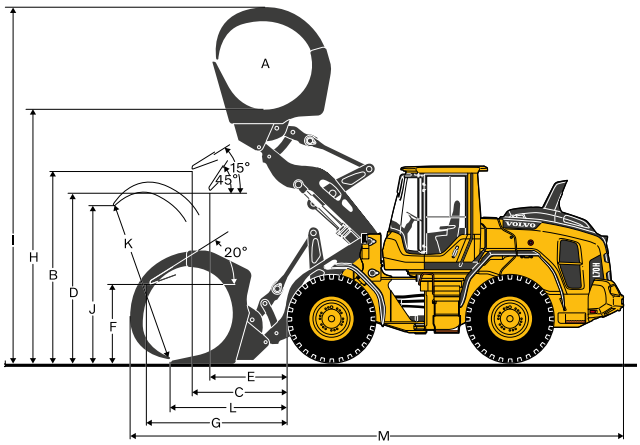




Tires: 20.5R25 L3

		L60H
SAE-Load	kg	3 450
Operating weight without load*	kg	12 883
Grapple sales code		82 194
A	m^2	1.3
B	mm	3 412
C	mm	1 483
D	mm	2 929
E	mm	1 175
F	mm	1 532
G	mm	2 350
H	mm	4 333
I	mm	5 878
J	mm	1 997
K	mm	2 080
L	mm	1 709
M	mm	7 861

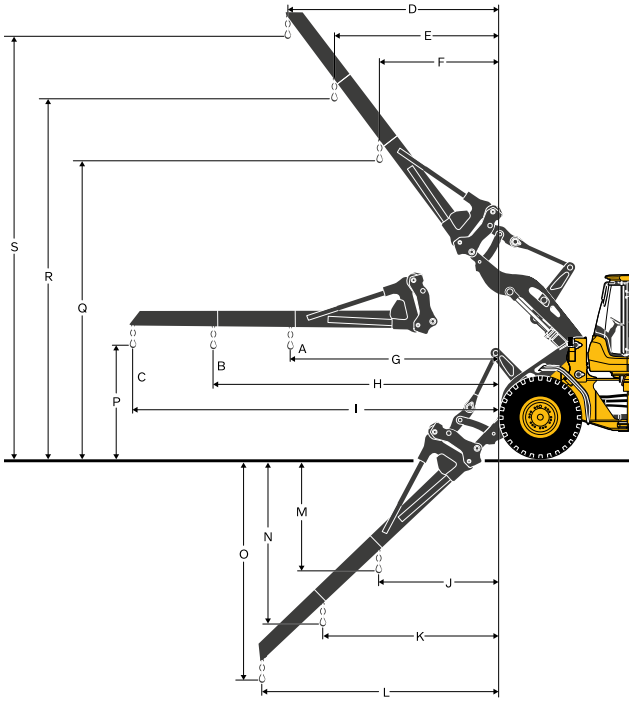
* Calculated with additional protective guarding



Tires: 20.5R25 L3		
		L60H
Material handling arm sales code		92007
A*	kg	1 800
B*	kg	1 400
C*	kg	1 150
Static tipping load, straight	kg	3 238
35deg. Turn	kg	2 910
at full turn	kg	2 814
D	mm	2 592
E	mm	2 002
F	mm	1 465
G	mm	3 270
H	mm	4 305
I	mm	5 439
J	mm	905
K	mm	1 227
L	mm	1 580
M	mm	2 258
N	mm	3 241
O	mm	4 319
P	mm	1 512
Q	mm	5 286
R	mm	6 171
S	mm	7 139
Operating weight without load	kg	11 885

* Op. load at full turn + tipping position
Tipping loads calculated for max. arm length

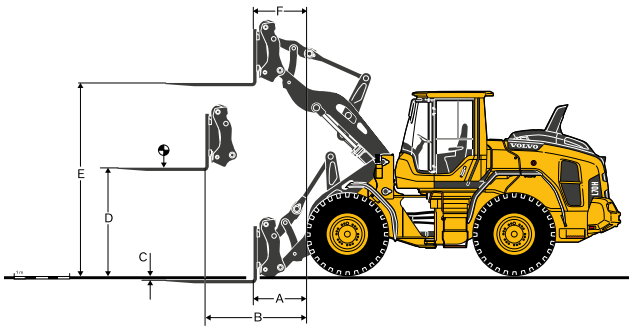
**Calculated with additional protective guarding



Tires: 20.5R25 L3		
		L60H
Fork frame sales code		83768
Fork tines sales code (R/L)		80042/80043
Static tipping load, straight	kg	6 930
35deg. Turn	kg	6 230
at full turn	kg	6 024
at load center distance*	mm	600
A	mm	798
B	mm	1 567
C	mm	-38
D	mm	1 831
E	mm	3 713
F	mm	700
Operating weight without load	kg	11 965

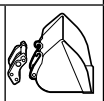
* Firm and level ground

**Calculated with additional protective guarding



Specifications

L60H*

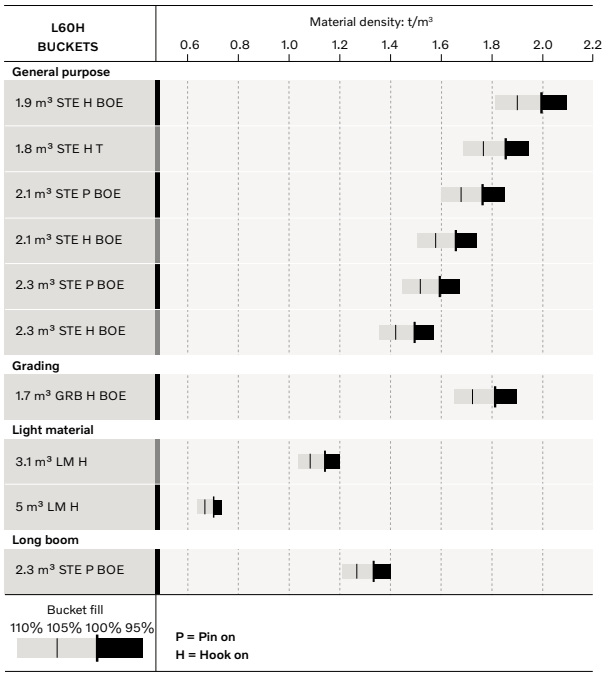
BR 20,5R25 VJT L3		GENERAL PURPOSE						GRADING	LIGHT MATERIAL		LONG BOOM
											
		1.8 m³ STE H T	1.9 m³ STE H BOE	2.1 m³ STE P BOE	2.1 m³ STE H BOE	2.3 m³ STE P BOE	2.3 m³ STE H BOE	1.7 m³ GRB H BOE	3.1 m³ LM H	5 m³ LM H	2.3 m³ STE P BOE
Volume, heaped ISO/SAE	m³	1.8	1.9	2.1	2.1	2.3	2.3	1.7	3.1	5.0	2.3
Volume at 110% fill factor	m³	2.0	2.1	2.3	2.3	2.5	2.5	1.9	3.4	5.5	2.5
Static tipping load, straight	kg	9 020	8 860	9 270	8 760	9 190	8 650	7 750	8 460	8 470	-1820
at 35° turn	kg	8 080	7 930	8 320	7 830	8 240	7 730	6 930	7 550	7 520	-1 680
at full turn	kg	7 800	7 650	8 040	7 560	7 960	7 460	6 690	7 280	7 250	-1 640
Breakout force	kN	84.9	80.2	82.9	76.1	79.0	72.8	60.2	61.7	53.8	+8.0
A	mm	7 410	7 340	7 300	7 400	7 370	7 470	7 650	7 680	7 910	+520
E	mm	1 190	1 140	1 110	1 200	1 160	1 260	1 400	1 480	1 700	+50
H	mm	2 750	2 800	2 820	2 760	2 780	2 720	2 510	2 580	2 430	+550
L	mm	5 110	5 110	5 120	5 170	5 190	5 240	4 530	5 280	5 480	+510
M	mm	1 070	1 050	1 020	1 090	1 060	1 140	1 130	1 320	1 500	+20
N	mm	1 580	1 590	1 570	1 610	1 590	1 630	1 490	1 630	1 670	+450
V	mm	2 500	2 500	2 500	2 500	2 500	2 500	2 500	2 550	2 650	0
a_1 clearance circle	mm	11 800	11 760	11 760	11 800	11 800	11 840	12 140	12 010	12 240	+480
Operating weight	kg	12 260	12 320	12 120	12 360	12 160	12 400	12 260	12 450	12 740	+230

*Calculated with additional protective guarding.

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration. Example: Sand and gravel. Fill factor ~ 105%. Density 1.65 t/m3. Result: The 1.9 m3 bucket carries 2.0 m3. For optimal stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m³	ISO/SAE bucket volume, m³	Actual volume, m³
Earth/Clay	~ 110	~ 1.55 ~ 1.40 ~ 1.30	1.9 2.1 2.3	2.1 2.3 2.5
Sand/Gravel	~ 105	~ 1.65 ~ 1.50 ~ 1.35	1.9 2.1 2.3	2.0 2.2 2.1
Aggregate	~ 100	~ 1.75 ~ 1.55 ~ 1.55	1.9 2.1 2.3	1.9 2.1 2.3
Rock	≤100	~ 1.70	1.7	1.7



How to read bucket fill factor

Supplemental Operating Data

		Standard boom			Long boom
Tires 20.5 R25 L3		17.5 R25 L2	20.5 R25 L2	600/65 R25 L3	600/65 R25 L3
Width over tires	mm	-130	+8	+96	+96
Ground clearance	mm	-68	-10	-30	-22
Tipping load, full turn	kg	-337	-166	-72	0
Operating weight	kg	-544	-112	+8	+3

Calculated with 2.3 m³ STE P BOE, additional protective guarding

Equipment

STANDARD EQUIPMENT
Engine
Exhaust after-treatment system
3-stage air cleaner, pre-cleaner, primary and secondary filter
Indicator glass for coolant level
Preheating of induction air
Fuel pre-filter with water trap
Fuel filter
Crank case breather oil trap
Exhaust heat ventilation
Tires
17.5R25
20.5R25
Drivetrain
Automatic Power Shift
Fully automatic gear shifting, 1-4
PWM-controlled gear shifting
Forward and reverse switch by hydraulic lever console
Rimpull control
Indicator glass for transmission oil level
Differentials: Front, 100% hydraulic diff lock. Rear, conventional
Electrical system
24 V, pre-wired for optional accessories
Alternator 80A/3135W
Battery disconnect switch
Maintenance-free batteries
Battery box, steel
Fuel gauge
Electric horn
Instrument cluster:
Fuel level
Diesel Exhaust Fluid/AdBlue level
Transmission temperature
Coolant temperature
Instrument lighting
Lighting:
Twin halogen front headlights with high and low beams
Parking lights
Double brake and tail lights
Turn signals with flashing hazard light function
Halogen work lights (2 front and 2 rear)

STANDARD EQUIPMENT
Contronic monitoring system
Warning and indicator lights:
Contronic display
Fuel consumption
Battery charging
Diesel Exhaust Fluid/AdBlue consumption
Parking brake
Ambient temperature
Warning and display message:
Clock
Regeneration
Test function for warning and indicator lights
Engine coolant temperature
Brake test
Charge air temperature
Engine oil temperature
Engine oil pressure
Transmission oil temperature
Transmission oil pressure
Hydraulic oil temperature
Brake pressure
Parking brake applied
Brake charging
Overspeed at direction change
Axle oil temperature
Steering pressure
Crank case pressure
Attachment lock open
Level warnings:
Fuel level
Diesel Exhaust Fluid/AdBlue level
Engine coolant level
Transmission oil level
Hydraulic oil level
Washer fluid level
Engine torque reduction in case of malfunction indication:
High engine coolant temperature
High engine oil temperature
Low engine oil pressure
High crank case pressure
High charge air temperature
Engine shutdown to idle in case of malfunction indication:
High transmission oil temperature
Slip in transmission clutches
Key pad, background lit
Start interlock when gear is engaged
Hydraulic system
Main valve, double acting 2-spool with hydraulic pilots
Quick hydraulic oil fill
Variable displacement axial piston pumps (2) for:
Working hydraulics, pilot hydraulics, steering system, brakes
Secondary steering with automatic test function
Cooling fan, brakes
Hydraulic control levers
Mechanical hydraulic lever lock
Automatic boom kick-out
Automatic bucket positioner
Double acting hydraulic cylinders
Indicator glass for hydraulic oil level

Equipment

OPTIONAL EQUIPMENT
Engine
Air pre-cleaner, cyclone type
Air pre-cleaner, oil-bath type
Air pre-cleaner, turbo type III
Engine auto shut down
Engine block heater, 120V / 230V
Fuel heater
Fuel fill strainer
Hand throttle control
Max. fan speed, hot climate
Reversible cooling fan
Drivetrain
Lock-up torque converter
Rear axle with limited slip
Speed limiter, 20 km/h
Speed limiter, 30 km/h
Speed limiter, 40 km/h
Hydraulic system
Arctic kit: Attachment locking, pilot hoses and hydraulic oil
Attachment bracket, cast, visibility-optimized
Attachment bracket, side-tilting
Separate attachment locking, long boom
Separate attachment locking, standard boom
Single acting lifting function
Boom suspension system
Hydraulic fluid, biodegradable, Volvo
Hydraulic fluid, fire resistant
Hydraulic fluid, for hot climate
Hydraulic, 3 functions, standard/long boom
Hydraulic, 4 functions, standard/long boom
Detent for 3rd hydraulic function
Adjustable flow for 3rd hydraulic function
Single lever control, 2 functions
Single lever control, 3 functions
Hydraulic, 2 functions Electro-servo, std/long boom
Hydraulic, 3 functions Electro-servo, std/long boom
Hydraulic, 4 functions Electro-servo, std/long boom
Single lever control, 2 funct Electro-servo, std/long boom
Single lever control, 3 funct Electro-servo, std/long boom
Single lever control, 4 funct Electro-servo, std/long boom
Brake system
Parking brake alarm, audible

OPTIONAL EQUIPMENT
Cab
ACC control panel, with Fahrenheit scale
Anchorage for Operator´s manual
Asbestos dust protection filter
Automatic Climate Control, ACC
Automatic Climate Control, ACC, corrosion protection condenser
Cab air pre-cleaner, cyclone type
Carbon filter - cab
Remote door opener
Lunch box holder
Operator’s seat, Volvo air-suspended, Heavy Duty
Operator’s seat, Volvo air-susp, 2pt seat belt
Operator’s seat, Volvo air-susp, 3pt seat belt
Operator’s seat, ISRI, heated, high back
Operator’s seat, ISRI, low back
Operator’s seat, Premium Comfort ISRI, 2pt seat belt
Operator’s seat, Premium Comfort ISRI, 3pt seat belt
Armrest, operator’s seat, ISRI, left only
Armrest, operator’s seat, Volvo, left
Safety belt, 3” (75mm) width
Safety belt warning
Radio installation kit including 12 volt outlet, left-side
Radio installation kit including 12 volt outlet, right-side
Radio installation kit, 12V, for USA
Radio with AUX, Bluetooth and USB connection
DAB Radio
Subwoofer
Forward view mirror
Rear view mirrors, el.adjusted and heated
Rear view mirrors, long arm right
Rear view mirrors, el.adjusted and heated, long arm right
Steering wheel knob
Sun blinds, rear windows
Sun blinds, side windows
Timer cab heating
Universal door/ignition key
Window, sliding, door
Cab, Hot applications. Roof, steel
Fire extinguisher cab
Outside steel protection cab
Rear view mirrors long arm, cab
Reinforced windshield, flat
Service and maintenance
Automatic lubrication system
Automatic lubrication system for long boom
Oil sampling valve
Refill pump for automatic lubrication system
Tool kit
Wheel nut wrench kit

OPTIONAL EQUIPMENT

Electrical
Battery disconnect switch, additional in cab
Anti-theft device
Halogen Economy package
Halogen Feature package
Halogen Power package
Headlights, assymetric left, halogen
Working lights, attachments, halogen
LED Economy package
LED Feature package
LED Power package
Headlights, assym. left
Headlights, assymetric right, LED
Headlights, assymetric left, LED
Working lights, attachments, LED
Emergency stop
License plate holder, lighting
Reduced function working lights when reverse gear activated
Side marker lamps
Forward camera, colour
Rear view camera including monitor, colour
Rear view mirrors, long arm, right side
Rearview mirrors, adjustable, el. heated
Reverse alarm
Reverse lights
Reversing warning light
Reverse warning light, strobe lightning
Warning beacon (flasher), LED automatic
Warning beacon (flasher), LED
Seatbelt indicator, external
Working lights, attachments, 1 LED
Warning beacon LED
Warning beacon LED automatic
LED Head Light
LED tail light
LED working lights, attachments
LED working lights on cab, front and rear
LED working lights on cab, front, 2 alt. 4 LED lamps
LED working lights on cab, rear, 2 alt. 4 LED lamps
LED working lights, rear in grille, 2 LED lamps
LED working lights, front above head lamps, 2 LED lamps
LED work lights, side on cab, 4 LED lamps
LED light packages
Working lights halogen, attachments
Working lights on cab halogen, front and rear
Working lights on cab halogen, rear
Co Pilot available
Rearview camera in Co pilot
OnBoard Weighing
OnBoard Weighing Task Mode
Tire Pressure Monitoring System
Connected Map
Operator Coaching Start
Operator Coaching Advanced
Max Boom height
Can Bus Interface
Jump start connector, ISO-Type
Delayed Engine Shutdown

OPTIONAL EQUIPMENT

Protective equipment
Anti-theft device
Bellyguard front
Bellyguard rear
Boom cylinder hose and tube guards
Cab roof, heavy duty
Center hinge and rear frame guard
Corrosion protection, painting of machine
Cover plate front frame, heavy-duty
Cover plate, under cab
Cover plates rear frame
Guards for front headlights
Guards for radiator grill
Guards for tail lights, heavy-duty
Wheel/axle seal guards
Window guards, side and rear
Windshield guard
External equipment
Deleted front mudguards
Fire extinguisher
Bracket for fire extinguisher
Fire suppression system
Mudguards, full cover, rear for 80-series tires
Mudflap kit for mudguards, full cover for 80-series tires
Mudguards, full cover, rear and front/rear for 65-series tires
Mudflap kit for mudguards, full cover for 65-series tires
Footsteps front frame
Footsteps, right-hand side
Flexible rear step
Cab ladder, rubber suspended
Other equipment
CareTrack, GSM/Satellite
CE-marking
Comfort Drive Control (CDC)
Comfort Drive Control (CDC) Electro-servo
Secondary steering
Counterweight, logging
Counterweight, signal painted, chevrons
Option for machines without dinitrol
Noise reduction kit, EU excluding decal
Sign, 50 km/h
Sign, slow moving vehicle
Agriculture package
Agri Powershift 1-4
Log Loader package
Waste Handler package
Scrap Handler package
Tires and Rims
17.5R25
20.5R25
600/65R25
620/75R26 Agriculture application only
750/65R26 Agriculture application only
Attachments
Buckets:
Straight
Spade nose
High tipping
Light material
Grading
Wear parts:
Bolt-on edge
Bolt-on or weld-on bucket teeth
Segments
Log grapples
Fork equipment
Material handling arm
Snow blade
Broom
Sand spreading bucket
Bale clamp
Drum rotator

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.

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