

Volvo Construction Equipment Building Tomorrow



Volvo Articulated Haulers 55 t 673 hp



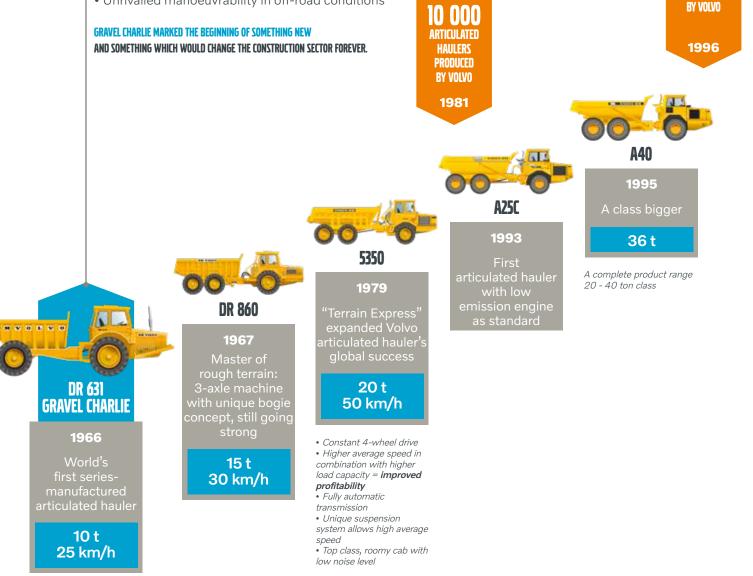


1966: DR 631 GRAVEL CHARLIE WORLD'S FIRST SERIES-MANUFACTURED ARTICULATED HAULER

By today's standards Gravel Charlie was not a big machine – but its impact

on transport operations in the construction sector was massive.

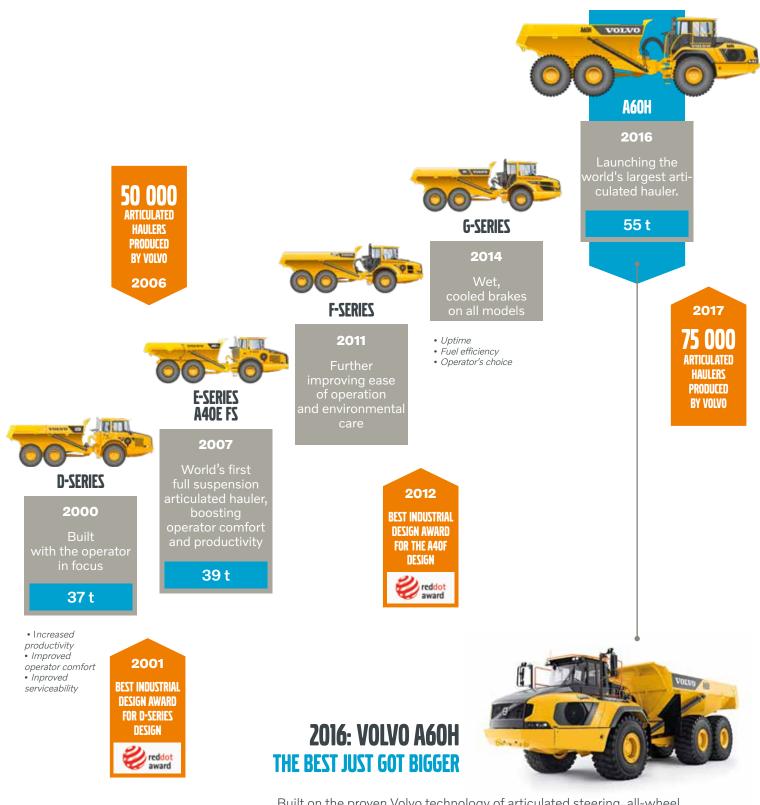
- The world's first series manufactured articulated hauler
- Pioneering solutions including articulated steering, all-wheel drive and differential locks
- Unrivalled manoeuvrability in off-road conditions



25 000

ARTICULATED

HAULERS PRODUCED



Built on the proven Volvo technology of articulated steering, all-wheel drive and differential locks, the Volvo A60H has evolved to be bigger and bolder!

The largest true articulated hauler on the market
55 t payload capacity
Meeting a growing demand for larger, higher payload haulers

BY EVOLVING OUR PRODUCT LINE-UP TO RESPOND TO CUSTOMER DEMANDS, The volvo a60h continues our proud heritage of innovation and market leadership in Hauler Solutions.

Pure uptime

Get continuous production with this bigger, durable and superior machine – always available and ready to work. Count on superb reliability thanks to the machine's robust design, easy service access and outstanding Volvo dealer network. Guarantee pure uptime.

Guaranteed durability

Increase your uptime using heavy-duty front and rear frames, hitch and wet disk brakes. Volvo proven durability and the support of extensive warranty options means you never need to worry about getting the job done. Strength and durability are hallmarks of the Volvo articulated hauler.

Over fifty years strong

Fifty years and fifty tonnes later, Volvo is the world's leading manufacturer of articulated haulers. We invented the concept and have been developing and building these machines for over 50 years – it has come a long way from its original 10 tonne articulated hauler. With proven success over the years, the machines include innovative technology and the renowned Volvo engine.





Service access

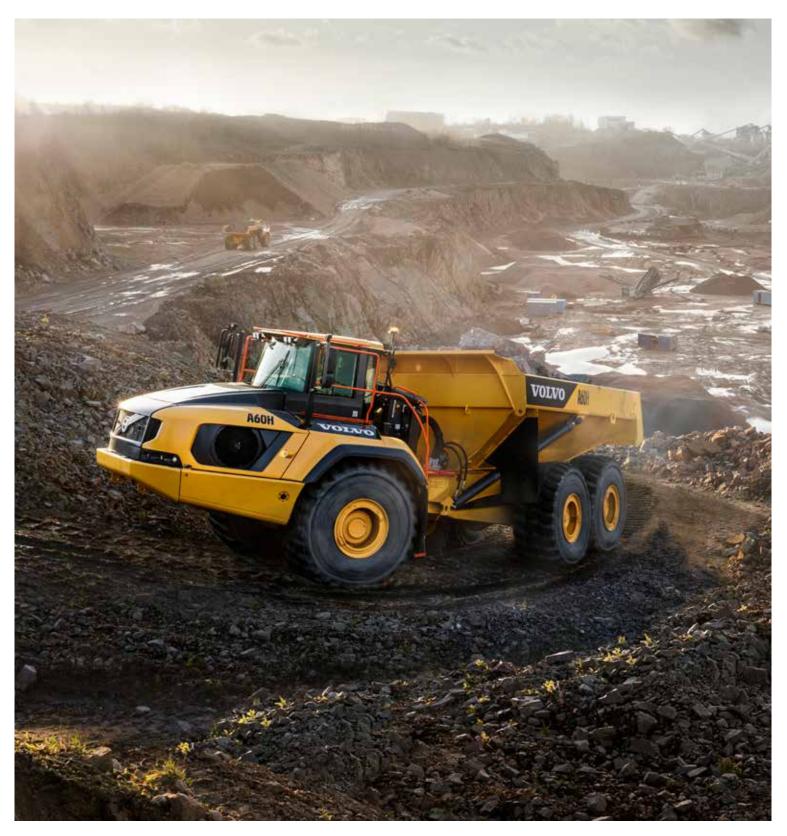
With industry-leading access, servicing your machine is quick and easy. The front grill swings down, opening a service platform with anti-slip steps. The electric hood opens to 90 degrees, allowing full and safe access to the engine compartment.



Volvo dealer network

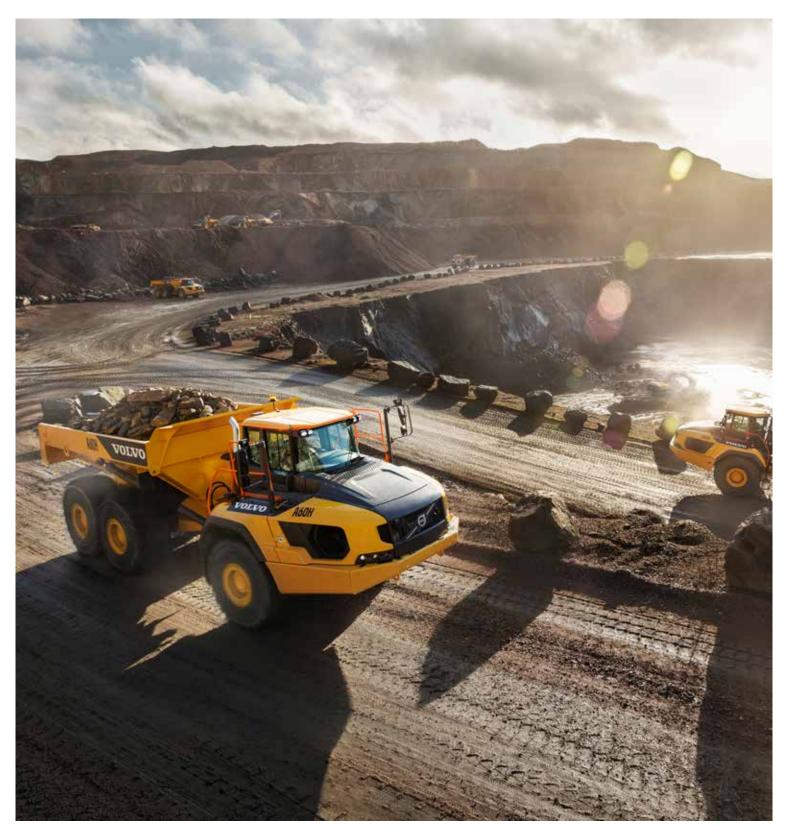
The exclusive Volvo dealer network is there to support you whenever you need it. Volvo offers a number of services, local knowledge and global experience, including telematics machine monitoring – CareTrack[™] and MATRIS[™] – as well as superb parts availability.







Get ready to work with the all new A60H. Designed for heavy hauling in severe off-road operation, the machine's long service life, quality, reliability and durability is everything you expect from a Volvo. Hauling is easier and more efficient.



PROFITABILITY

Reduce cost per tonne with a higher payload. The state-of-the-art design allows for more capacity while improving fuel efficiency so you can move more for less.

Move more, make more

Increase your business's profitability by moving more for less. Industry-leading fuel efficiency, innovative technology and vital operational data tools help to optimize production and control your maintenance costs, maximising your return on investment.

Fuel efficiency guarantee

The A60H, powered by the world-renowned Volvo engine, delivers excellent fuel efficiency without compromising on power or performance. With guaranteed fuel efficiency, this machine will increase your profitability and improve your return on investment.



Control your maintenance costs

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.



Maximize your investment

Meet your targets faster with the A60H. Increase your earnings with a higher payload and greater productivity for lower cost per tonne.



Operational data

Receive valuable data to improve onsite efficiency and save costs. With intelligent systems from Volvo such as MATRIS™, CareTrack™ and the On Board Weighing system, you will optimize your production and minimise your operational costs.



Bigger and bolder

Achieve astounding productivity with the A60H. This machine is the ultimate hauler, featuring 100% off-road performance, proven Volvo technology and impressive payload – contributing to sustainable operations, year after year.

Articulated hauler concept

Go where others can't. The A60H embodies the full articulated hauler concept and provides total versatility so you can access the entire jobsite and climb steeper gradients. Work in all seasons, terrains and applications using tailored machine configurations and tires, optimized for this 60 tonne machine.



Simply the best

The ground-breaking A60H is the best articulated hauler on the market and the latest innovation from Volvo. With matched drivetrain, automatic drive combinations including 100% differential locks, all-terrain bogie, hydro-mechanical steering and active suspension, this machine is unbeatable.



Comfort at speed

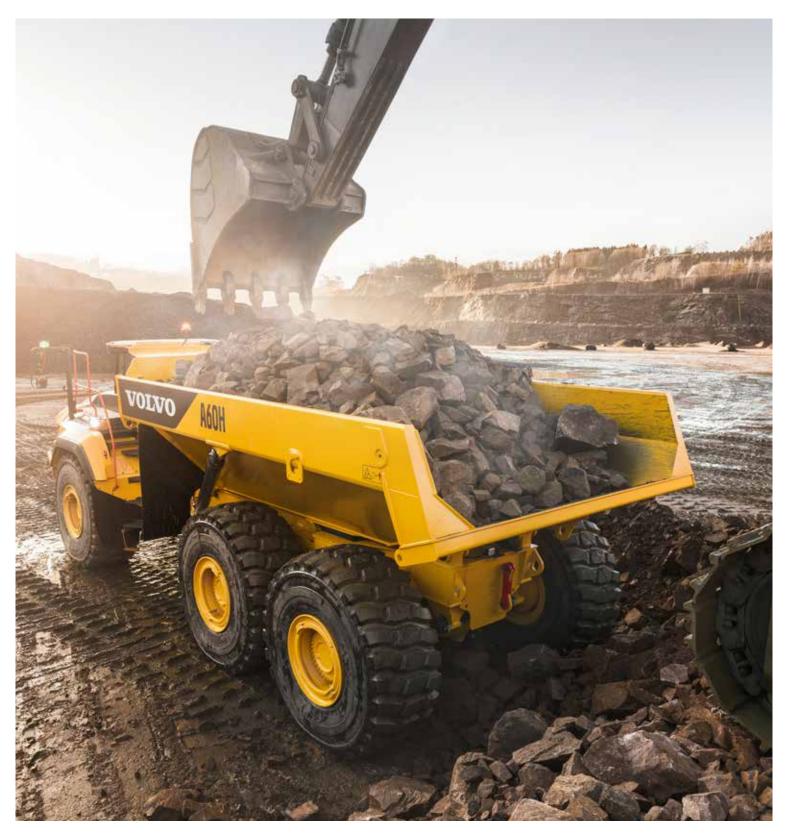
A60H is fitted with active hydraulic front suspension – permitting high hauling speeds in tough conditions. This optimizes operator comfort and stability during travel. Move more material in a shorter time for unmatched productivity.



Load optimization

The On Board Weighing System guarantees the optimal load every cycle. This maximizes production, boosts fuel efficiency and reduces machine wear in all site conditions and operations.





PRODUCTIVITY

The A60H can move more tonnes per hour and give a 100% in all conditions. The largest articulated hauler on the market has a bigger payload for your application, delivering up to 40% more productivity.

Simply the best and the biggest

VOLVO

Maximize your investment

Meet your targets faster. Increase your earnings with higher payload and greater productivity for lower cost per tonne.

PROFITABILITY

The state-of-the-art design allows for more capacity while improving fuel efficiency so you can move more for less.

Over fifty years strong

Over fifty years later, Volvo is still the world's leading manufacturer of articulated haulers.

Guaranteed durability

Increase your uptime using heavy-duty front and rear frames, hitch and wet disk brakes.

Simply the best

The ground-breaking A60H is the best articulated hauler on the market and the latest innovation from Volvo.

PRODUCTIVITY

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Load optimization

The On Board Weighing System guarantees the optimal load every cycle.

OPERATOR'S CHOICE

Its comfortable cab and ease of operation, even in adverse conditions, makes operators choose this machine.

Fuel efficiency guarantee

The A60H is powered by the world-renowned Volvo engine delivers excellent fuel efficiency without compromising on power or performance.

Service access

With industry-leading access, servicing your machine is quick and easy.

UPTIME

Designed for heavy hauling in severe off-road operation, its long service life, quality, reliability and durability is everything you expect from a Volvo.

Articulated hauler concept

Go where others can't. The machine embodies the full articulated hauler concept and provides total versatility.



OPERATOR'S Choice

When many other machines are onsite, most operators prefer the Volvo. Its comfortable cab and ease of operation, even in adverse conditions, makes operators choose this machine.

The ultimate operating environment

The A60H is the number one operator's choice because of its industry-leading spacious cab and comfortable work environment. Its superior comfort, control, ease of operation and safety appeals to operators, maintaining productivity all day, every day.

Total operator control

Stay in control at all times. The dump support system, dynamic Volvo engine brake and load and dump brake, all help the operator to control the machine for extra productivity and safety.



Operator comfort

Feel comfortable and spend more time in the A60H. The centrally positioned operator, superior steering, excellent suspension, low noise levels, climate control, space and visibility, reduce operator fatigue for more effective operations.



Ease of operation

The ergonomic, comfortable controls are easy to understand and suit all operators, combined with automatic functions for increased ease of operation.



Safety

Whether its operators, trainers, technicians or site workers – safety on site is of fundamental importance. In the A60H superior visibility and efficient lighting combine with a number of safety features, such as the brake test and dump support, helping to keep the operator and people working around the machine safe, even in the most demanding working environments.



Volvo A60H in detail

E	n	 •••
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16 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhea has wet replaceable cylinder liners and replaceable valve guides and valve seats.	d camshaft and electro	nically controlled unit injectors. The engine
Engine model	Volvo	D16F
Max power - SAE J1995 Gross	kW	495
	hp	673
at engine speed	r/min	1800
Flywheel power - ISO 9249, SAE J1349 Net	kW	492
	hp	669
at engine speed	r/min	1800
Max torque - SAE J1995 Gross	Nm	3 200
Max torque - ISO 9249, SAE J1349 Net	Nm	3 177
at engine speed	r/min	1 050
Displacement	I	16.1

Electrical system

All cables, sockets and pins are identified. Cables are enclosed in plastic conduits and secured to main frame. Halogen lights. Prewired for options. Connectors meet IP67 standard for water-proofing as necessary.					
Voltage V					
Battery	V	2x12			
Battery capacity	Ah	2x225			
Alternator	kW/A	2.264/80			
Starter motor	kW	9			

Drivetrain

Torque converter with built-in lock-up function. Transmission: Fully automatic Allison planetary transmission with 6 forward gears and 2 reverse gears. Internal torsional damper in the torque converter. Dropbox: Volvo-developed, in-line design with high ground clearance and 100% longitudinal "dog clutch" type differential lock. Axles: Heavy duty, purpose built Volvo design with fully floating axle shafts, planetary type hub reductions and 100% dog clutch type diff-lock.

Automatic traction control system (ATC).

Torque converter		1.85:1
Transmission	Volvo	6630 ORS
Dropbox	Volvo	IL3 ATC
Axles	Volvo	AHW80

Brake system

Fully hydraulic, wet multiple disc brakes with enclosed, forced oil-cooled multiple discs on all wheels. Two circuit brake system. Complies with ISO 3450 at

total machine weight. Circuit division: One circuit for front axle and one for bogie axles. Parking brake: Spring-applied disc brake on the propeller shaft, designed to hold a loaded machine on a grade of up to 18%. When the parking brake is applied, the longitudal differential is locked. Retarder: Service brake retarder function and Volvo Engine Brake (VEB).

Steering System

Hydro-mechanical articulated steering, self compensating design.

Two double-acting steering cylinders.

Steering angle: 3,4 steering wheel turns lock-to-lock, ±45°. Steering system, including secondary steering fulfi IIs ISO 5010.

Chassis

Frames: box type, heavy duty. High strength steel, robot welded. Rotating hitch: 100% maintenance free, fully sealed, with permanently greased tapered roller bearings.

Cab		
Mounted on rubber pads. Ergonimically designed. Easy entry and exit. Wide angle forward Operator centerally positioned above the front axle. Adjustable operators seat with retract. Tilt/telescopic steering wheel. Ergonomically positioned controls. Filtered air. Optional clin Operator communication system: Contronics. Large color display, user-friendly and easy-to-understand information, all vital machine fun Instructor seat with seat belt. Safety: ROPS/FOPS standards approved according to ISO3471, SAE J1040 / ISO3449	able seat belt. nate control system. ctions are constantly monito	red.
Sound level in cab (ISO 6396) - LpA	dB(A)	72
External sound level (ISO 6395) - LwA	dB(A)	113

External sound level with sound kit: 111 dB(A)

Suspension		
Front suspension: Unique, full hydraulic, with automatic leveling and stabilizer. Rear suspension: 100% maintenance free. Straddle mounted bogie beam. Independent w	/heel movement via	a a 3-point mounting system.
Hydraulic cylinders (struts), front/rear		2/
Accumulators, oil-nitrogen, high pressure, front		
Levelling sensors		
Hydraulic system		
Pumps: Five variable displacement piston pumps driven by the flywheel PTO. One ground-dependent piston pump for secondary steering mounted on the dropbox. Two return oil fi Iters with magnetic cores provide effective oil filtration.		
System max working pressure	MPa	2
Dumping System		
Patented Load and Dump Brake. Dumping Cylinders: two single stage double acting cylinders.		
Tipping angle	٥	
Tipping time with load	s	-
Lowering time	S	
Body		
Plate thickness		
Front	mm	
Sides	mm	- -
Bottom	mm	-
Chute	mm	- -
Material		HB400 ste
Yield strength	N/mm ²	100
Tensile strength	N/mm²	1 25

Load Capacity		
Standard Body		
Load capacity	kg	55 000
Body, struck	m³	25.8
Body, heaped 2:1	m³	33.6
With overhung tailgate		
Body, struck	m ³	26.5
Body, heaped 2:1	m ³	35.1

Specifications

REFILL CAPACITIES					
Crankcase	I	55			
Fuel tank	Ι	750			
Cooling system	I.	75			
Brake cooling system	Ι	131			
Transmission	I.	58			
Dropbox	I	12			
Axles, front/bogie	I.	74/147			
Hydraulic tank	I	198			

SPEED		
Forward		
1	km/h	7
2	km/h	10
3	km/h	13
4	km/h	19
5	km/h	26
6	km/h	55
Reverse		
1	km/h	5
2	km/h	8

OPERATING WEIGHT UNLOADED					
Tires 33.25R29					
Front	kg	22 350			
Rear	kg	21 050			
Total	kg	43 400			
Payload	kg	55 000			

 TOTAL WEIGHT

 Tires
 33.25R29

 Front
 kg
 28 700

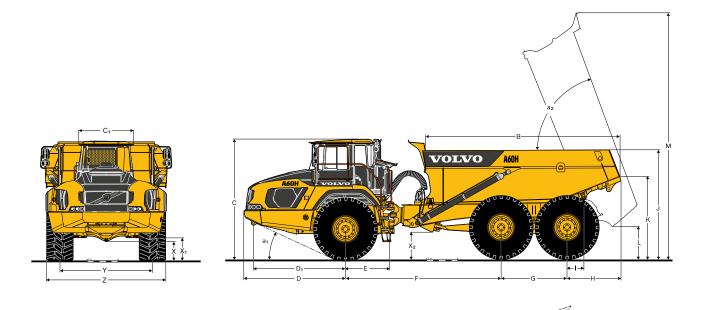
 Rear
 kg
 69 700

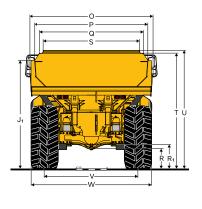
 Total
 kg
 98 400

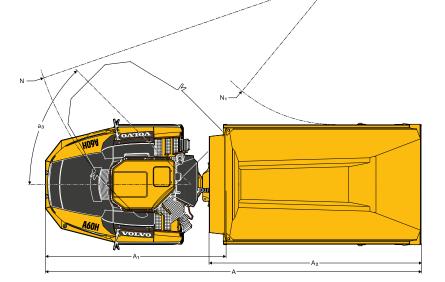
Operating weight includes all fluids and operator

GROUND PRESSURE				
Tires		33.25R29		
Unloaded				
Front	kPa	125		
Rear	kPa	58		
Loaded				
Front	kPa	159		
Rear	kPa	193		

Excavator PASS MATCHING			Wheel loader PASS MATCHING				
	EC480	EC750	EC950		L220	L250	L350
	Number of passes		_	Number of passes			
A60H	11	7	6	A60H	6	5	4
	Well matched, 4-6 b	ouckets.			Well matched, 2-4 b	uckets.	
	Excavator under cap	acity, 7 buckets or mo	ore.	Loader under capacity, 5 buckets or more.			
	Excavator undersize	d for optimum match.		Loader undersized for optimum match, reach might be an is			ch might be an issue







IMENSIONS		
Pos	Unit	A60H
А	mm	12 225
A1	mm	5 872
A2	mm	6 900
В	mm	6 310
С	mm	3 852
C1	mm	1 772
D	mm	3 293
D1	mm	2 986
E	mm	1 4 4 0
F	mm	5 050
G	mm	2 140
Н	mm	1743
I	mm	541
J	mm	3 510
К	mm	2 658
L	mm	1 0 3 0
Μ	mm	7 960
Ν	mm	10 014
N1	mm	4 761

DIMENSIONS		
Pos	Unit	A60H
0	mm	3 989
Р	mm	3 673
Q	mm	3 370
R	mm	677
R1	mm	778
S	mm	3 126
Т	mm	3 734
U	mm	3 833
V	mm	3 010
W	mm	3 884
Х	mm	601
X1	mm	727
X2	mm	845
Y	mm	3 010
Z	mm	3 884
a1	o	24.9
a2	o	70
аЗ	o	45

A60H: Unloaded machine with 33.25R29 tires.

Equipment

STANDARD EQUIPMENT	STANDARD
Engine	Comfort
Direct injected, electronically controlled, turbocharged, intercooled	ACC control
Grouped oil filters, for ease of change	Ashtray
Preheater for easier cold starts	Cab heater v
VEB (exhaust retarder EPG + compression brake)	Can holder /
Tires	Cigarette lig
33.25R29	Instructor se
800/80R29	Overhead co
Drivetrain	Sliding wind
6x4 and 6x6 automatically engaged drive modes	Space for lur
Dog clutch type 100% diff-locks in all axles	Storage box
Full automatic transmission	Sun visor
Two-stage dropbox with longitudinal diff-lock	Tilt/telescop
Torque converter with automatic lock-up	Tinted glass
Electrical system	Operator info
80 A alternator	Gauges:
Battery disconnect switch	Brake pressu
Extra 24 V socket for lunch cooler	Fuel
Lights:	Speedomete
Back-up light	Tachometer
Brake lights	Wet disc bra
Cab lighting	Warning ligh
Direction indicators	Central warn
Headlights	Central posi
Instrument lighting	Automatic p
Parking lights	Clock
Rear lights	Hour meter
Brake system	 Operational
Hill assist	Troubleshoo
Load & Dump Brake	Exterior
Retarder pedal	Front mudgu
Parking brake on propeller shaft	Service and
Two circuit, fully hydraulic, wet discs on all axles	Electrical en
Body	Drainage hos
Body prepared for exhaust heating and optional equipment	Machine Tra
On board weighing (OBW)	Service platf
Safety	Tool box
Anti-slip steps and platforms	
Dump body lock	
Handrails on steps and platforms	OPTIONAL E
Hazard lights	Engine
Horn	Air pre-clean
Protective grill for cab rear window	Air pre-clean
Rear-view mirrors	Air filter, hea
Retractable 3-inch safety belt	Engine heate
ROPS/ FOPS protected Care Cab	Engine heate
Secondary steering	Engine auto
Steering joint lock	Engine shute
Windshield washers	External eme
Windshield wipers with interval function	Fuel filter, ex
Dump support system	High engine
/	5 5 5

STANDARD EQUIPMENT
Comfort
ACC control panel
Ashtray
Cab heater with filtered fresh air and defroster
Can holder /storage tray
Cigarette lighter
Instructor seat with seat belt
Overhead console for radio
Sliding window
Space for lunch cooler
Storage box
Sun visor
Tilt/telescopic steering wheel
Tinted glass
Operator information interface
Gauges:
Brake pressure
Fuel
Speedometer
Tachometer
Wet disc brakes cooling oil temperature
Warning lights grouped and easy to read
Central warning (3 levels) for all vital functions
Central positioned information display
Automatic pre-start checks
Clock
Hour meter
Operational information, easy-to-navigate menu
Troubleshooting diagnostics
Exterior
Front mudguard wideners and rear mudflups
Service and maintenance
Electrical engine hood and belly plate
Drainage hose
Machine Tracking Information System MATRIS
Service platform integrated in the front grill
Tool box
OPTIONAL EQUIPMENT
Engine
Air pre-cleaner, cyclone type
Air pre-cleaner, oil-bath type
Air filter, heavy duty, EON

Air filter, heavy duty, EON
Engine heater, 240 V
Engine heater, diesel (Eberspächer)
Engine auto shutdown
Engine shutdown timer
External emergency engine stop
Fuel filter, extra

High engine idle speed

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT	
Electrical system	Body	
Headlights, LED	Body exhaust heating	
Warning beacon, LED	Front spillguard, extra	
Working lights, LED	Side extension, light material	
Entrance light	Tailgate, overhung, wire-operated	
Seat belt indicator, external	Wear plates	
Anti-theft system (pin code)	Safety	
Rear view camera	Fire suppression system	
Reverse alarm	Warning triangle	
CAN-BUS interface, extra	First aid kit and fire extinguisher	
Cab	Fire extinguisher	
Noise reduction kit (fulfils 2000/14/EC)	Wheel chocks	
Anchorage, operator's manual	Service and maintenance	
Cab heating/ventilation timer	Lube system, standard machine	
Cable kit, for cab heater	Tool kit	
HEPA cab air filter	Other	
Bluetooth radio kit	Siberian kit -40°C	
Rear view mirrors, adjustable, el.heated	Arctic oil kit	
Seat belt XXL, non-retractable	CareTrack	
Sun blinds, side windows	Fast fuelling system	
Universal key	Jump start connector, NATO -type	
Air suspended, heated, fully adjustable seat		
Armrest for operator seat		
Headrest for operator seat		
Air blow gun		

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Rear view camera and monitor



Fast fuelling



Tailgate



Volvo fire suppression system



Oil bath pre-cleaner



Light material kit



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.

