

Volvo Construction Equipment Building Tomorrow



Volvo Articulated Haulers 55 t 639 hp



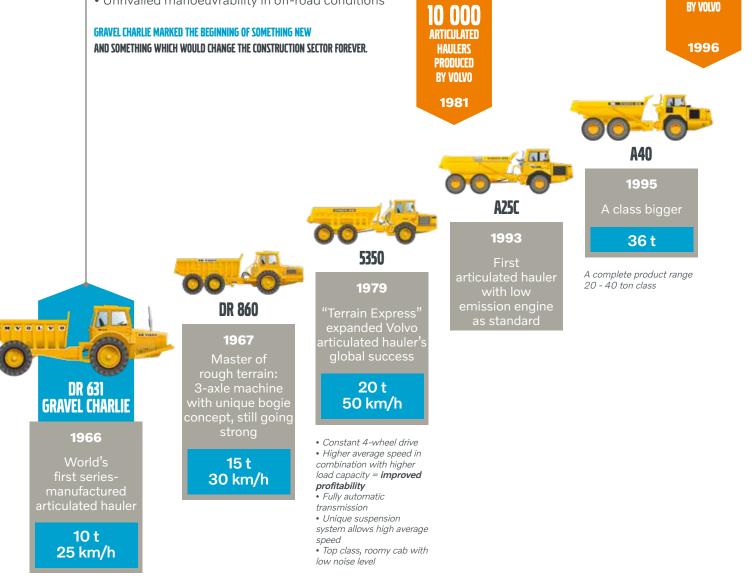


1966: DR 631 GRAVEL CHARLIE WORLD'S FIRST SERIES-MANUFACTURED ARTICULATED HAULER

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

on transport operations in the construction sector was massive.

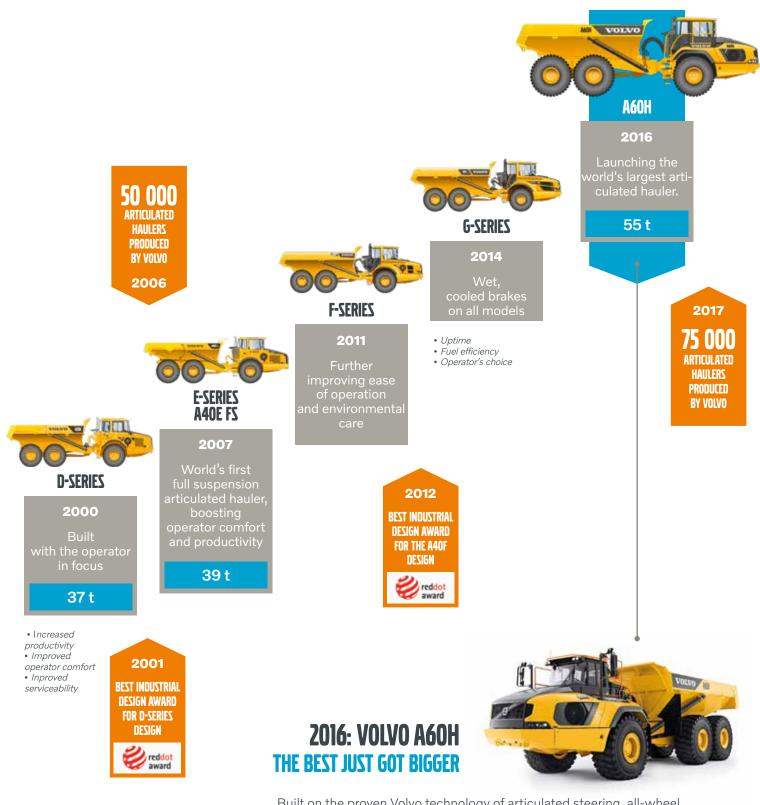
- The world's first series manufactured articulated hauler
- Pioneering solutions including articulated steering, all-wheel drive and differential locks
- Unrivalled manoeuvrability in off-road conditions



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

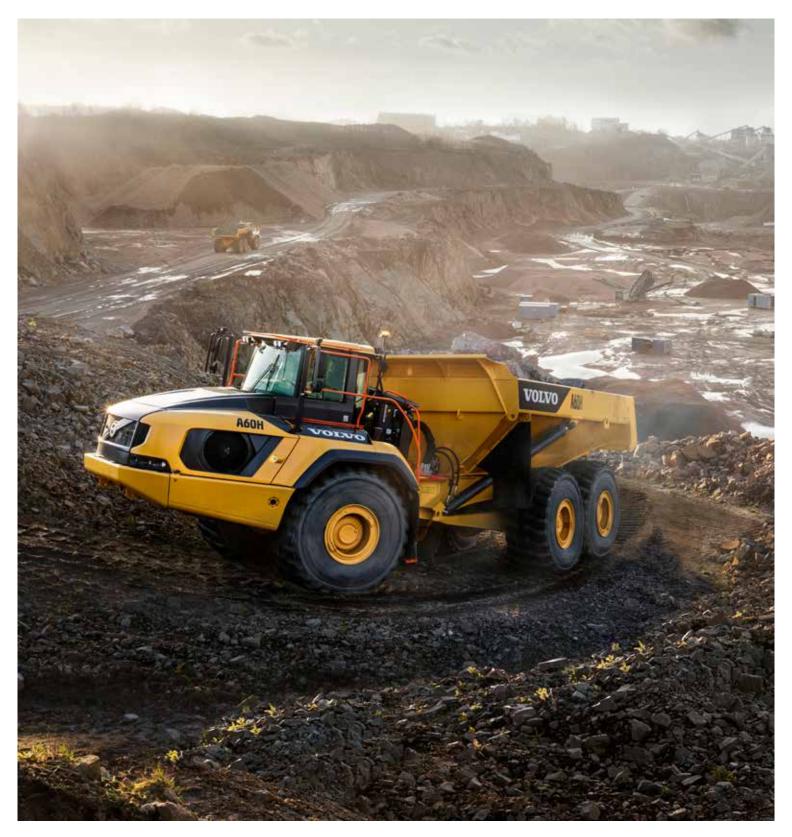
With industry-leading access, servicing your machine is quick and easy. The front grill swings down, opening a service platform with anti-slip steps. The electric hood opens to 90 degrees, allowing full and safe access to the engine compartment.



Volvo dealer network

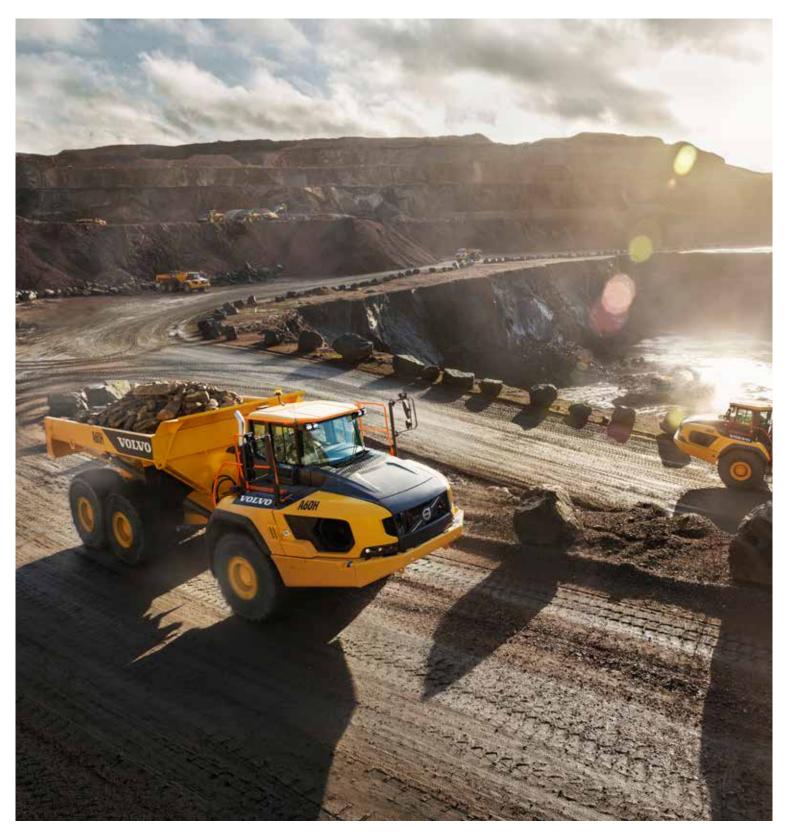
The exclusive Volvo dealer network is there to support you whenever you need it. Volvo offers a number of services, local knowledge and global experience, including telematics machine monitoring – CareTrack[™] and MATRIS[™] – as well as superb parts availability.







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

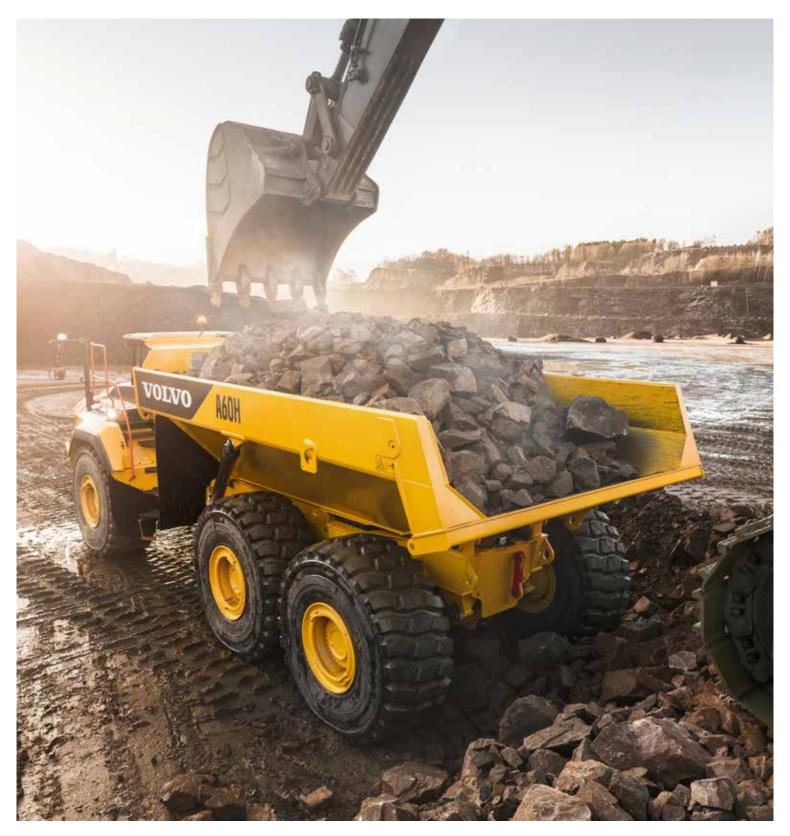
A60H is fitted with active hydraulic front suspension – permitting high hauling speeds in tough conditions. This optimizes operator comfort and stability during travel. Move more material in a shorter time for unmatched productivity.



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

V0LV0

Load optimization

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

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

The A60H can move more tonnes per hour and give a 100% in all conditions.

OPERATOR'S CHOICE

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



Maximize your investment

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

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

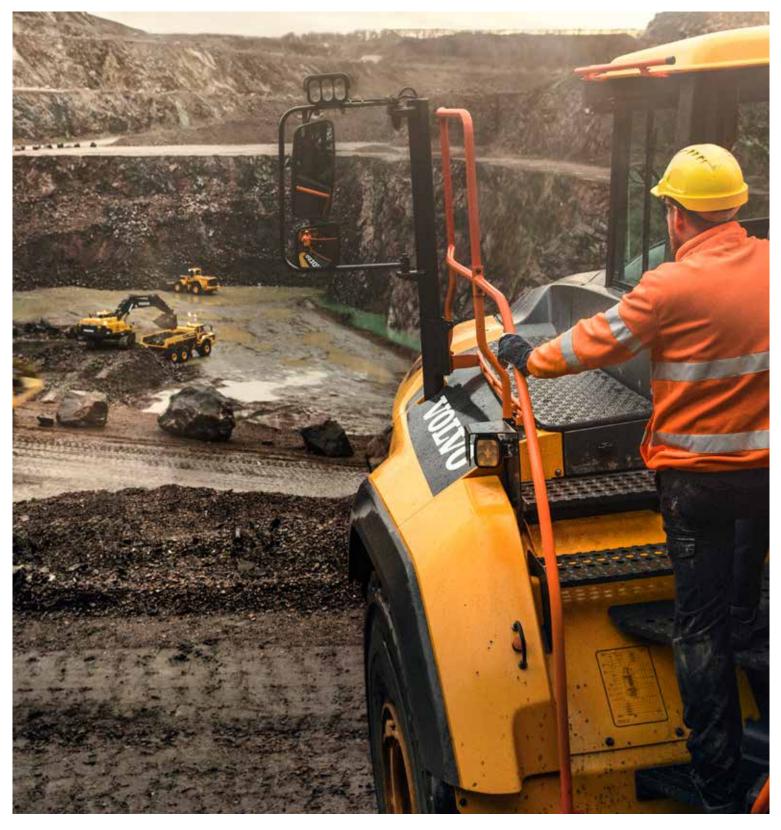
With industry-leading access, servicing your machine is quick and easy.

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

Engine

V-ACT, 16 liter, 6-cylinder straight VGT (Variable Geometry Turbocharged) diesel engine with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. It has wet replaceable cylinder liners and replaceable valve guides and valve seats. The engine has cooled EGR (Exhaust Gas Recirculation) and exhaust after treatment with EAT-Muffler (Exhaust After treatment) including DOC (Diesel Oxidation Catalyst), DPF (Diesel Particulate Filter) and SCR (Selective Catalytic Reduction) with an electronically controlled UDS (Urea Dosing System). After treatment system features passive DPF regeneration with an AHI (After treatment Hydro carbon Injection) device as back up.

Engine model	Volvo	D16J (Stage V)
Max power - SAE J1995 Gross	kW	470
	hp	639
at engine speed	r/min	1800
Flywheel power - ISO 9249, SAE J1349 Net	kW	467
	hp	635
at engine speed	r/min	1800
Max torque - SAE J1995 Gross	Nm	2 960
Max torque - ISO 9249, SAE J1349 Net	Nm	2 942
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 sect Connectors meet IP67 standard for water-proofing as necessary.	ured to main frame.	Halogen lights. Prewired for options.
Voltage	V	24
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, \pm 45°. Steering system, including secondary steering fulfi lls 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. actions are constantly monito	red.
Sound level in cab (ISO 6396) - LpA	dB(A)	72
External sound level (ISO 6395) - LwA	dB(A)	113

Internal sound level with sound kit: 70 dB(A) 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 wheel movement via a 3-point mounting system.	
Hydraulic cylinders (struts), front/rear	2/0
Accumulators, oil-nitrogen, high pressure, front	2
Levelling sensors	2

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	28	

Dumping System		
Patented Load and Dump Brake. Dumping Cylinders: two single stage double acting cylinders.		
Tipping angle	0	70
Tipping time with load	S	13
Lowering time	S	10

Body		
Plate thickness		
Front	mm	8
Sides	mm	14
Bottom	mm	16
Chute	mm	16
Material		HB400 steel
Yield strength	N/mm²	1000
Tensile strength	N/mm²	1 250

kg	55 000
m ³	25.8
m ³	33.6
m ³	26.5
m ³	35.1
	m ³ m ³ m ³

Specifications

REFILL CAPACITIES		
Crankcase	I	55
Fuel tank	I	750
Cooling system	1	75
Brake cooling system	I	131
Transmission	I	58
Dropbox	I	12
Axles, front/bogie	1	74/147
Hydraulic tank	I	198
DEF/AdBlue [®]	I	60

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OPERATING WEIGHT UNLOADED			
Tires		33.25R29	
Front	kg	22 750	
Rear	kg	21 000	
Total	kg	43 750	
Payload	kg	55 000	

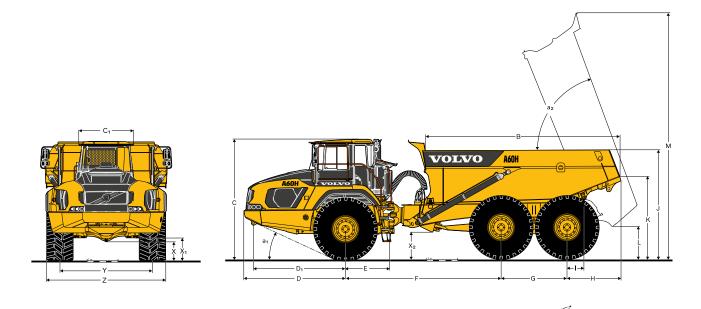
Operating weight includes all fluids and operator

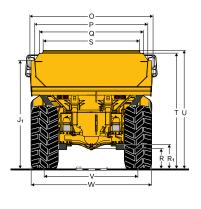
SPEED		
Forward		
1	km/h	7
2	km/h	10
3	km/h	13
4	km/h	19
5	km/h	26
6	km/h	55
Reverse		
1	km/h	5
2	km/h	8

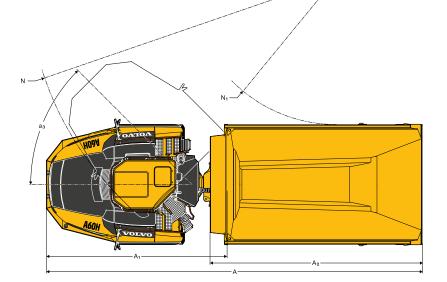
TOTAL WEIGHT		
Tires		33.25R29
Front	kg	28 900
Rear	kg	69 850
Total	kg	98 750

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

Excavator PASS MATCHING		Wheel lo	/heel loader PASS MATCHING			
	EC480	EC750		L220	L250	L350
	Number of passes				Number of passes	
A60H	11	7	A60H	6	5	4
	Well matched, 4-6 buckets.			Well matched, 2-4 b	ouckets.	
Excavator under capacity, 7 buckets or more.			Loader under capacity, 5 buckets or more.			
	Excavator undersized for optimum match.			Loader undersized for	or optimum match, read	ch might be an issue.







DIMENSIONS		
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	1 440
F	mm	5 0 5 0
G	mm	2 140
Н	mm	1 743
1	mm	541
J	mm	3 510
К	mm	2 658
L	mm	1 030
М	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
Υ	mm	3 010
Z	mm	3 884
a1	0	24.9
a2	o	70
a3	0	45

A60H: Unloaded machine with 33.25R29 tires.

Equipment

STANDARD EQUIPMENT	STANDARD EQUIPMENT
Ingine	Comfort
Direct injected, electronically controlled, turbocharged, intercooled	ACC control panel
Grouped oil filters, for ease of change	Ashtray
Preheater for easier cold starts	Cab heater with filtered fresh air and defroster
VEB (exhaust retarder EPG + compression brake)	Can holder /storage tray
lires	Cigarette lighter
33.25R29	Instructor seat with seat belt
800/80R29	Overhead console for radio
Drivetrain	Sliding window
6x4 and 6x6 automatically engaged drive modes	Space for lunch cooler
Dog clutch type 100% diff-locks in all axles	Storage box
Full automatic transmission	Sun visor
Two-stage dropbox with longitudinal diff-lock	Tilt/telescopic steering wheel
Torque converter with automatic lock-up	Tinted glass
Electrical system	Operator information interface
80 A alternator	Gauges:
Battery disconnect switch	Brake pressure
Extra 24 V socket for lunch cooler	Fuel
Lights:	Speedometer
Back-up light	Tachometer
Brake lights	Wet disc brakes cooling oil temperature
Cab lighting	Warning lights grouped and easy to read
Direction indicators	Central warning (3 levels) for all vital functions
Headlights	Central positioned information display
Instrument lighting	Automatic pre-start checks
Parking lights	Clock
Rear lights	Hour meter
Brake system	Operational information, easy-to-navigate menu
Hill assist	Troubleshooting diagnostics
Load & Dump Brake	Exterior
Retarder pedal	Front mudguard wideners and rear mudflups
Parking brake on propeller shaft	Service and maintenance
Two circuit, fully hydraulic, wet discs on all axles	Electrical engine hood and belly plate
Body	Drainage hose
Body prepared for exhaust heating and optional equipment	Machine Tracking Information System MATRIS
On board weighing (OBW)	Service platform integrated in the front grill
Safety	Tool box
Anti-slip steps and platforms	
Dump body lock	
Handrails on steps and platforms	
Hazard lights	
Horn	OPTIONAL EQUIPMENT
Protective grill for cab rear window	Engine
Rear-view mirrors	Air filter, heavy duty, EON
Retractable 3-inch safety belt	Engine heater, 240 V
ROPS/ FOPS protected Care Cab	Engine heater, diesel (Eberspächer)
Secondary steering	Engine auto shutdown
Steering joint lock	Engine shutdown timer
Windshield washers	External emergency engine stop
	High engine idle speed

High engine idle speed

Windshield wipers with interval function

Dump support system

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

LED lighting



Volvo fire suppression system



Tailgate



Light material kit



Fast fuelling



Haul Assist On-Board Weighing



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.

