

Volvo Articulated Haulers 29 t / 63,934 lb 355 hp

A30G

Volvo Construction Equipment

A30G



Hauling heavy profits



Service and maintenance

- 250-hour greasing interval
- Half the fluid volume compared to the competition
- 1,000hr engine service intervals
- · Service reminders and fluid level monitoring
- Industry-leading service access and groundaccessible service points



Haul Assist

- On-Board Weighing: real-time payload monitoring
- Tire Pressure Monitoring System
- Map: real-time positioning of on-site traffic
- Productivity Reports, including the geo-tracking of moved material
- Over-the-air updates, easy upgrades, remote support

Only from Volvo

- Industry-leading Volvo engine and driveline: high performance, high fuel efficiency
- Terrain Memory function: optimized engagement of the traction control for excellent off-road mobility
- Volvo dynamic drive
- Automatic drive combinations including 100% differential locks, all-terrain bogie and hydromechanical steering
- OptiShift: fast and smooth directional changes



Solutions for you

- Easy machine monitoring: CareTrack, ActiveCare Direct
- Lifetime Frame and Structure Warranty
- 24hr parts delivery guarantee
- Genuine Volvo Parts
- Volvo Site Simulation: get recommendations on the best fleet configuration and site set-up
- Operator Training Program: unlock the full potential of your machine
- Uptime Services: control your maintenance costs

The operator's choice



- Ease of operation: ergonomic and easy-to-understand controls
- Centrally positioned operator for bestin-class visibility
- Cruise control, hill assist, dump support system, load and dump brake
- The downhill speed control function automatically maintains a constant speed when operating on downward gradients
- Built-in brake test: schedule and perform a stationary brake test, guided by the machine display



Volvo A30G in detail

Engine

V-ACT, 11 liter,6-cylinder straight VGT (Variable Geometry Turbocharged) diesel engine with 4 valves per cylinder, overhead camshaft. The Fuel system have a common rail with electronically controlled of 3 Pce of pumping injectors and 3 Pce of non-pumping 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.

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Engine model	Volvo	D11M
Max power - SAE J1995 Gross	kW (hp)	265 (355)
at engine speed	r/min (r/s)	2,000 (33.3)
Flywheel power - ISO 9249, SAE J1349 Net	kW (hp)	264 (354)
at engine speed	r/min (r/s)	2,000 (33.3)
Max torque - SAE J1995 Gross	Nm (ft lbf)	2,040 (1,505)
Max torque - ISO 9249, SAE J1349 Net	Nm (ft lbf)	2,030 (1,497)
at engine speed	r/min (r/s)	1,200 (20)
Displacement	l (in³)	10.8 (659)

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	24
Battery	V	2x12
Battery capacity	Ah	2x170
Alternator	kW/A	3.396/120
Starter motor	kW	9

Drivetrain

Torque converter with built-in lock-up function.

Transmission: Fully automatic Volvo PowerTronic planetary transmission

Iransmission: Fully automatic Volvo Power Ironic planetary transmission with six forward gears and two reverse gears. The transmission has the ability to skip gears for fast and accurate gear selection. **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).

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Torque converter		2.37:1
Transmission	Volvo	PT 2116
Dropbox	Volvo	IL1 ATC
Axles	Volvo	AHW64

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 acting on the trailer unit propeller shaft. When the parking brake is applied , the longitudinal differential 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 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

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Mounted on rubber pads. Ergonimically designed. Easy entry and exit. Wide angle forward view.

Operator centerally positioned above the front axle. Adjustable operators seat with retractable seat belt.

Tilt/telescopic steering wheel. Ergonomically positioned controls. Filtered air. Optional climate control system

Operator communication system: Contronics. Large color display, user-friendly and easy-to-understand information, all vital machine functions are constantly monitored. Instructor seat with seat belt.

Safety: ROPS/FOPS standards approved according to ISO3471, SAE J1040 / ISO3449, SAE J231.

Sound level in cab (ISO 6396) - L _{pA}	dB	72
External sound level (ISO 6395) - Lwa	dB	111

Internal sound level with sound kit: 70 dB(A)

External sound level with sound kit: 109 dB(A)

Hydraulic system								
Four variable displacement piston pumps driven by the flywheel PTO. Two load-sensing used for steering and tipping and two electrical controlled used for fan, brake cooling and brake power supply. One ground-dependent piston pump for secondary steering mounted on the dropbox. One return oil filters with magnetic cores provide effective oil filtration.								
System max working pressure	MPa (psi)	25 (3,626)						
Dumping System								
Patented Load and Dump Brake. Dumping Cylinders: two single s	tage double acting	cylinders.						
Tipping angle	o	70						
Tipping time with load s								
Lowering time s								
Body								
Plate thickness								
Front	mm (in)	6 (0.24)						
Sides	mm (in)	10 (0.39)						
Bottom	mm (in)	14 (0.55)						
Chute	mm (in)	14 (0.55)						
Material								
Yield strength	N/mm² (psi)	1,150 (166,793)						
Tensile strength	N/mm² (psi)	1,350 (195,801)						

Load Capacity		
Standard Body		
Load capacity	kg (sh tn)	29,000 (32)
Body, struck	m³ (yd³)	13.9 (18.2)
Body, heaped 2:1	m³ (yd³)	17.8 (23.3)
With overhung tailgate		
Body, struck	m³ (yd³)	14.2 (18.6)
Body, heaped 2:1	m³ (yd³)	18.4 (24.1)
Suspension		

Front suspension: Gas-hydraulic struts. Soft and progressive. Independent wheel movement via a 3-point mounting system.

Specifications

REFILL CAPACITIES

			A3	0G
Crankcase	I	gal	35	9.2
Fuel tank	I	gal	380	100.4
Cooling system	1	gal	48	12.7
Brake cooling system	I	gal	35	9.2
Transmission	I	gal	41	10.8
Dropbox	I	gal	9	2.4
Axles, front/bogie	I.	gal	31/63	8.2/16.6
Hydraulic tank	I	gal	137	36.2
DEF	1	gal	39	10.3

SPEED				
			A	30G
Forward				
1	km/h	mph	8.3	5.2
2	km/h	mph	11.9	7.4
3	km/h	mph	21.1	13.1
4	km/h	mph	30.3	18.8
5	km/h	mph	38.4	23.9
6	km/h	mph	52.7	32.7
Reverse				
1	km/h	mph	7.7	4.8
2	km/h	mph	13.7	8.5

OPERATING WEIGHT UNLOADED							
			A3	0G			
Tires				5R25*			
Front	kg	lb	12,900	28,440			
Rear	kg	lb	10,700	23,589			
Total	kg	lb	23,600	52,029			
Payload	kg	lb	29,000	63,934			

TOTAL WEIGHT	-			
			A3	0G
Tires			750/6	5R25*
Front	kg	lb	15,600	35,613
Rear	kg	lb	36,900	81,351
Total	kg	lb	52,600	115,963

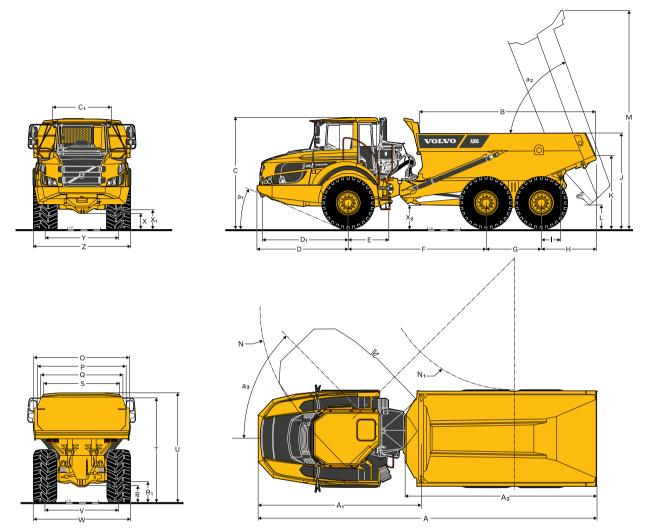
Operating weight includes all fluids and operator

*) A30G with tires 23.5R25, decrease 200 kg (440 lb)/axle

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GROUND PRESSURE

			A30G				
Tires			750/65R25 23.5R25				
Unloaded							
Front	kPa	psi	108	15.7	131	19	
Rear	kPa	psi	43	6.2	50	7.3	
Loaded							
Front	kPa	psi	130	18.9	157	22.8	
Rear	kPa	psi	152	22	184	26.7	



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DIMENSIONS					
Pos	U	nit	A30G		
А	mm	ft in	10,296	33'9"	
A ₁	mm	ft in	4,954	16'3"	
A ₂	mm	ft in	5,811	19'1"	
В	mm	ft in	5,384	17'8"	
С	mm	ft in	3,366	11'1"	
C ₁	mm	ft in	1,772	5'10"	
D	mm	ft in	2,762	9'1"	
D ₁	mm	ft in	2,607	8'7"	
E	mm	ft in	1,209	4'	
F	mm	ft in	4,175	13'8"	
G	mm	ft in	1,670	5'6"	
н	mm	ft in	1,688	5'6"	
1	mm	ft in	609	2'	
J	mm	ft in	2,866	9'5"	
К	mm	ft in	2,183	7'2"	
L	mm	ft in	688	2'3"	
Μ	mm	ft in	6,562	21'6"	
N	mm	ft in	8,109	26'7"	
N ₁	mm	ft in	4,048	13'3"	
0	mm	ft in	2,976	9'9"	

DIMENSIONS					
Pos	Unit		A30G		
Р	mm	ft in	2,690	8'10"	
Q	mm	ft in	2,472	8'1"	
R	mm	ft in	524	1'9"	
R ₁	mm	ft in	639	2'1"	
S	mm	ft in	2,288	7'6"	
Т	mm	ft in	3,196	10'6"	
U	mm	ft in	3,325	10'11"	
V	mm	ft in	2,216	7'3"	
W	mm	ft in	2,954	9'8"	
Х	mm	ft in	466	1'6"	
X1	mm	ft in	592	1'11"	
X ₂	mm	ft in	680	2'3"	
Υ	mm	ft in	2,216	7'3"	
Z	mm	ft in	2,954	9'8"	
a ₁	0		23.2		
a2	٥		70		
a ₃	٥		45		

A30G: Unloaded machine with 750/65R25

Equipment

STANDARD EQUIPMENT	STANDARD EQUIPMENT	
Engine	Comfort	
Direct injected, electronically controlled, turbocharged, intercooled	ACC control panel	
Grouped oil filters	Ashtray	
Preheater for easier cold starts	Cab heater with filtered fresh air and defroster	
VEB (exhaust retarder EPG + compression brake)	Can holder /storage tray	
Wheels and tires	Instructor seat with seat belt	
750/65R25	Overhead console for radio	
Drivetrain		
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	
Dropbox with longitudinal diff-lock	Tilt/telescopic steering wheel	
Torque converter with automatic lock-up	Tinted glass	
Electrical System	Operator information interface	
120 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	
Body	Machine Tracking Information System MATRIS	
Body prepared for exhaust heating and optional equipment	Service platform integrated in the front grill	
Safety and security	Tool box	
Anti-slip steps and platforms		
Dump body lock		
Handrails on steps and platforms		
Hazard lights		
Horn		
Protective grill for cab rear window		
Rear-view mirrors		

Retractable 3-inch safety belt

ROPS/ FOPS - certified cab Secondary steering

Steering joint lock

Windshield washers

Windshield wipers with interval function

Dump support system

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Engine	Safety and security
Air filter, heavy duty, EON	Fire suppression system
Engine heater, 120 V, USA	Warning triangle
Engine heater, 240 V	First aid kit and fire extinguisher
Engine heater, diesel (Eberspächer)	Fire extinguisher
Engine auto shutdown	Wheel chocks
Engine shutdown timer	Service and maintenance
External emergency engine stop	Lube system, standard machine
Fuel filter, extra	Lube system, tailgate
High engine idle speed	Lubrication hose, ground level greasing
Wheels and tires	Tool kit
23.5R25	Other
Electrical System	Siberian kit -40°C
Headlights, LED	Arctic oil kit
Warning beacon, LED	CareTrack
Working lights, halogen	Fast fuelling system
Working lights, LED	Jump start connector, NATO -type
Entrance light	Frame extension
Anti-theft system (pin code)	Bogie extension
Rear view camera	Haul Assist - On-Board Weighing
Reverse alarm	Haul Assist - Tire Pressure Monitoring System
CAN-BUS interface, extra	
Cab	
Noise reduction kit (fulfils 2000/14/EC)	
Anchorage, operator's manual	
Cab heating/ventilation timer	
Cable kit, for cab heater 240 V	
HEPA cab air filter	
Bluetooth radio kit	
Rear view mirrors, adjustable, el.heated	
Seat belt XXL, non-retractable	
Sun blinds, side windows	
Universal key	
Air suspended, heated, fully adjustable seat	
Armrest for operator seat	
Headrest for operator seat	
Low profile cab	
Body	
Body exhaust heating	
Front spillguard, extra	
Side extension, 200 mm / 7.9 in	
Side extension, light material	
Tailgate, overhung, linkage-operated	
Tailgate, overhung, wire-operated	
Tailgate, underhung	
Wear plates, 450 HB	
Underground body	





V O L V O