

**V O L V O**



Volvo Articulated Hauler 55.1 t / 60.6 ST TN / 121,250 lb 35.4 mph 630 hp

**A60**

Volvo Construction Equipment

# A60

With up to 15% more fuel efficiency and 5% more productivity compared to the previous generation, count on the Volvo A60 to deliver outstanding results in quarry, mining and heavy infrastructure projects.



## Intuitive in-cab interface

- All essential in-cab information conveniently displayed on just two screens
- Interactive, integrated Volvo Co-Pilot display
- Dynamic instrument cluster in-front of steering wheel



## 5% more productivity, 15% more fuel efficiency

- New transmission and axles enabling full power to be utilized in all gears
- OptiShift
- Automatic traction control and the intelligent Terrain Memory (in markets with CareTrack)
- Volvo Dynamic Drive

# The biggest and the best

The largest 6x6 articulated hauler in the industry, the Volvo A60 is a machine designed to deliver maximum productivity at the lowest cost per tonne. Featuring a new Volvo transmission, the A60 delivers up to 15% more fuel efficiency and 5% more productivity compared to the previous generation. Combine this with a host of features which deliver unrivalled off-road performance, exceptional operator comfort and maximum uptime, and the Volvo A60 Articulated Hauler is a machine ready to deliver outstanding results in quarry, mining and heavy infrastructure projects.

## Unbeatable off-road performance



- Active hydraulic front suspension, enabling high hauling speeds in the toughest conditions
- Proven Volvo drivetrain
- Automatic drive combinations (including 100% differential locks)
- All terrain bogie
- Hydro mechanical steering
- Volvo Dynamic Drive
- Outstanding tipping stability

## Enhanced visibility



- Redesigned hood and cab panels
- Wider wiper coverage
- Direct field of vision which exceeds industry standards
- Optional work lights located on the pillars
- Optional front and rear cameras; standard entrance camera
- Camera views easily managed using Volvo Co-Pilot

## Ultimate operator experience



- Easy access/egress
- Ergonomic gear lever
- Enhanced storage options
- Easy cleaning
- Operator Training Program

## Best in class braking and retarder systems



- Downhill speed control
- Volvo Engine Brake
- Wet brakes on all wheels

## Total operator control



- Hill assist
- Cruise control
- Downhill speed control
- Load and dump brake
- Dump support system
- Dynamic Volvo Engine Brake

## Designed for uptime



- Reinforced axles
- 250-hour greasing intervals
- 1,000-hour engine service intervals
- Industry leading service access
- Remote monitoring and service alerts
- Enhanced electrical service center
- Harness anchor points

## Smarter Solutions



- Haul Assist with On-Board Weighing
- Connected Map and Performance Indicator
- Future proofed software architecture
- CareTrack
- My Equipment app
- Site Optimization consultancy service

## More productivity, more fuel efficiency

With a new Volvo powertrain, Volvo quality runs throughout every element of the A60, with the new transmission and axles enabling full power to be utilized in all gears. The result is up to 15% more fuel efficiency and 5% more productivity. With the addition of proven Volvo features such as OptiShift – which enables faster directional changes when moving between forwards and reverse – automatic traction control and the intelligent Terrain Memory\* function, which identifies and remembers slippery road segments to ensure optimized traction control and outstanding off-road mobility. Get ready for more fuel efficiency, more productivity and Volvo-renowned quality and reliability throughout.

\* In markets with CareTrack

## Unbeatable off-road performance

Go where other 60Ton machines cannot, in all seasons, terrains and applications, thanks to the unbeatable off-road performance of the A60. Fitted with active hydraulic front suspension, enabling high hauling speeds in the toughest conditions, the A60 features proven Volvo drivetrain, automatic drive combinations (including 100% differential locks), all-terrain bogie and hydro-mechanical steering for unmatched traction, stability and precision control. With Volvo Dynamic Drive, dynamic and predictive gear selection adapts to the operating conditions at hand, for improved comfort and fuel efficiency. What's more, the intelligent design is optimized for maximum efficiency in high payload applications, with outstanding tipping stability for safe and productive operations.

## Intuitive operator interface

Operators can stay in-the-know and focussed on the task at hand thanks to all essential in-cab information conveniently displayed on two screens. The interactive, integrated Volvo Co-Pilot display offers easy control over essential functions such as media, camera settings, climate control, and machine status. This is combined with the dynamic instrument cluster, positioned in front of the steering wheel, which provides essential vehicle data at a glance.

## Reinforced axles

Take on the most challenging work environments and off-road conditions in the A60 thanks to the reinforced axles, which withstand heavier loads, higher levels of torque and stress. The added strength and stability provided by the axles contributes to higher uptime, reduced wear, longer service intervals and lower maintenance costs.

## Total operator control

Features including hill assist, cruise control, downhill speed control, load and dump brake and dynamic Volvo Engine Brake help operators achieve optimum results all day, every day.



## Lower maintenance costs

Keep service costs to a minimum thanks to simplified servicing, longer change intervals and easy component access. Servicing your machine is quick and easy thanks to industry leading service access and essential maintenance points accessible from the ground. What's more, eliminate daily or weekly greasing thanks to industry leading greasing intervals of 250 hours for maximum uptime.

## 5% reduction in service costs

Reduce service costs by up to 5% over 12,000-hours of operation thanks to simplified servicing, longer change intervals and easy component access. Benefit from industry leading greasing intervals of 250 hours for maximum uptime, along with Volvo Engine Oil and High Performance Filters which offer 1,000 hour engine service intervals.



# Volvo A60J 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	
Max power - SAE J1995 Gross	kW (hp)	470 (630)
at engine speed	rpm (rps)	1,910 (31.8)
Max torque - SAE J1995 Gross	Nm (lbf ft)	2,960 (2,183)
at engine speed	rpm (rps)	980 (16.3)
Displacement	lit (in <sup>3</sup> )	16.1 (982)

## Electrical System

All cables, sockets and pins are identified. Cables are enclosed in plastic conduits and secured to main frame. LED head- and work lights. Prewired for options. Connectors meet IP67 standard for water-proofing as necessary.

Voltage	V	24
Battery	V	2 x 12
Battery capacity	Ah	2 x 225
Alternator	kW/A	2.264 / 80
Starter motor	kW	9

## Drivetrain

Torque converter with built-in lock-up function.

**Transmission:** Fully automatic Volvo planetary transmission with 9 forward gears and 3 reverse gears. Internal torsional damper in the torque converter.

**Dropbox:** Volvo, 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	2,0:1	
Transmission	Volvo	PT3209
Dropbox	Volvo	IL4 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 longitudinal 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 fulfils 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

The Volvo cab features excellent all-around visibility created by a centrally positioned operator station, sloping hood, large rear-view mirrors and entrance camera. The one piece wide front windshield with large swipe area further enhances visibility.

The central instrument cluster, the integrated Co-pilot, gearshift lever, tipping lever and easy to reach switches ensure ease of operation.

The spacious cab meets the ROPS/FOPS safety standards according to ISO3471, SAE J1040 / ISO3449, SAE J231. Controls are ergonomically designed and easy to understand. Large storage compartments and a cooled/heated box improves the operator comfort.

Sound level in cab (ISO 6396) - L <sub>PA</sub>	dB	72
External sound level (ISO 6395) - L <sub>WA</sub>	dB	113
Internal sound level with sound kit	dB	70
External sound level with sound kit	dB	111



### 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 filters with magnetic cores provide effective oil filtration.

System max working pressure	MPa (psi)	28 (4,061)
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### Dumping System

Patented Load and Dump Brake. Dump system with auto rpm.  
**Dumping Cylinders:** two single stage double acting cylinders.

Tipping angle	°	70
Tipping time with load	s	13
Lowering time	s	10

### Body

#### Plate thickness

Front	mm (in)	8 (0.31)
Sides	mm (in)	14 (0.55)
Bottom	mm (in)	16 (0.63)
Chute	mm (in)	16 (0.63)

#### Material

Yield strength	N/mm <sup>2</sup> (psi)	1,000 (145,038)
Tensile strength	N/mm <sup>2</sup> (psi)	1,250 (181,297)

### Load Capacity

#### Standard Body

Load capacity	kg (sh tn)	55,000 (60.6)
Body, struck	m <sup>3</sup> (yd <sup>3</sup> )	25.8 (33.7)
Body, heaped 2:1	m <sup>3</sup> (yd <sup>3</sup> )	33.6 (43.9)

#### With overhung tailgate

Body, struck	m <sup>3</sup> (yd <sup>3</sup> )	26.5 (34.7)
Body, heaped 2:1	m <sup>3</sup> (yd <sup>3</sup> )	35.1 (45.9)

### Suspension

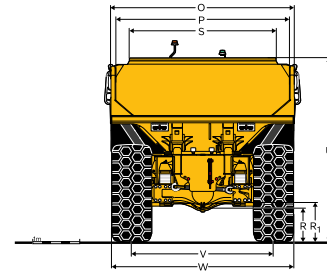
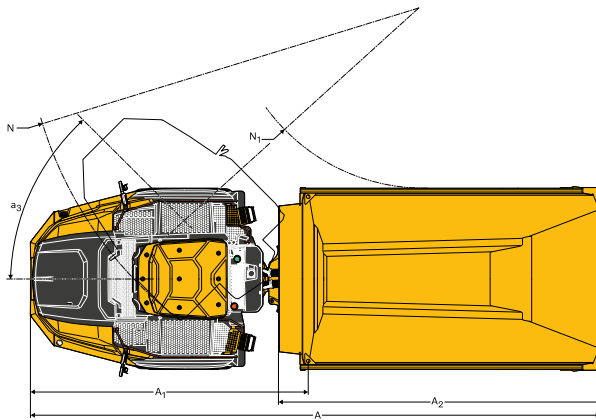
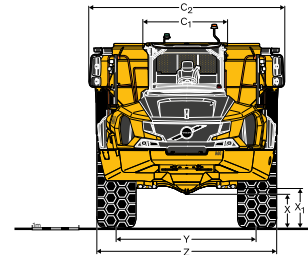
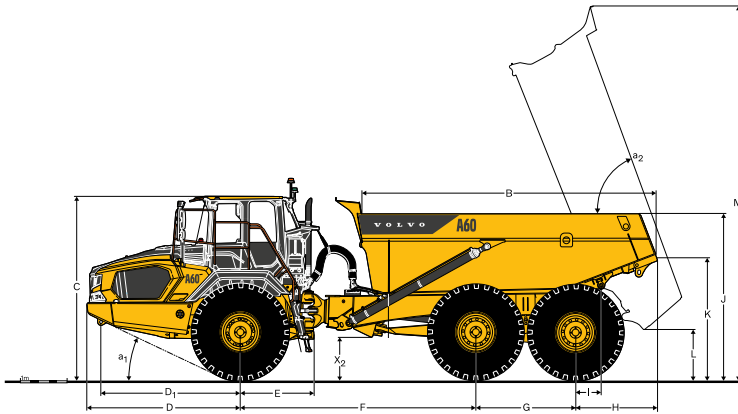
**Front suspension:** Unique, full hydraulic, with automatic leveling and stabilizer.

**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



# Specifications



DIMENSIONS				
Pos	Unit		A60J	
A	mm	ft in	12,224	40'1"
A*	mm	ft in	12,333	40'6"
A <sub>1</sub>	mm	ft in	5,872	19'3"
A <sub>2</sub>	mm	ft in	6,893	22'7"
B	mm	ft in	6,309	20'8"
C	mm	ft in	3,860	12'8"
C <sub>1</sub>	mm	ft in	1,819	6'0"
C <sub>2</sub>	mm	ft in	4,348	14'3"
D	mm	ft in	3,288	10'9"
D <sub>1</sub>	mm	ft in	2,986	9'10"
E	mm	ft in	1,439	4'9"
F	mm	ft in	5,050	16'7"
G	mm	ft in	2,140	7'0"
H	mm	ft in	1,745	5'9"
I	mm	ft in	543	1'9"
J	mm	ft in	3,507	11'6"
K	mm	ft in	2,654	8'8"
L	mm	ft in	1,026	3'4"
M	mm	ft in	7,957	26'1"
N	mm	ft in	10,014	32'10"

DIMENSIONS				
Pos	Unit		A60J	
N <sub>1</sub>	mm	ft in	4,761	15'7"
O	mm	ft in	3,989	13'1"
O*	mm	ft in	4,112	13'6"
P	mm	ft in	3,673	12'1"
R	mm	ft in	686	2'3"
R <sub>1</sub>	mm	ft in	807	2'8"
S	mm	ft in	3,126	10'3"
U	mm	ft in	3,839	12'7"
V	mm	ft in	3,010	9'11"
W	mm	ft in	3,874	12'9"
X	mm	ft in	611	2'0"
X <sub>1</sub>	mm	ft in	734	2'5"
X <sub>2</sub>	mm	ft in	850	2'9"
Y	mm	ft in	3,010	9'11"
Z	mm	ft in	3,874	12'9"
a <sub>1</sub>	°		25.4	
a <sub>2</sub>	°		70	
a <sub>3</sub>	°		45	

A60J: Unloaded machine with 33.25R29 tires.

\*Dimension with overhung tailgate

REFILL CAPACITIES				
			A60J	
Crankcase	l	gal	51	13.5
Fuel tank	l	gal	750	198.1
Cooling system	l	gal	80	21.1
Brake cooling system	l	gal	210	55.5
Transmission	l	gal	65	17.2
Dropbox	l	gal	11	2.9
Axles, front/bogie	l	gal	76 / 158	20.0 / 41.7
Hydraulic tank	l	gal	173	45.7
DEF	l	gal	60	15.9

SPEED				
			A60J	
<b>Forward</b>				
1	km/h	mph	6.0	3.7
2	km/h	mph	9.0	5.6
3	km/h	mph	13	8.1
4	km/h	mph	18	11.2
5	km/h	mph	23	14.3
6	km/h	mph	28	17.4
7	km/h	mph	38	23.6
8	km/h	mph	49	30.4
9	km/h	mph	57	35.4
<b>Reverse</b>				
1	km/h	mph	6.0	3.7
2	km/h	mph	9.0	5.6
3	km/h	mph	17	10.7

OPERATING WEIGHT UNLOADED				
			A60J	
<b>Tires</b>			<b>33.25R29</b>	
Front	kg	lb	22,800	50,270
Rear	kg	lb	21,000	46,300
Total	kg	lb	43,800	96,570
Payload	kg	lb	55,000	121,250

TOTAL WEIGHT				
			A60J	
<b>Tires</b>			<b>33.25R29</b>	
Front	kg	lb	28,900	63,710
Rear	kg	lb	69,850	153,990
Total	kg	lb	98,750	217,700

Operating weight includes all fluids and operator

GROUND PRESSURE				
			A60J	
<b>Tires</b>			<b>26.5R25</b>	
<b>Unloaded</b>				
Front	kPa	psi	125	18.1
Rear	kPa	psi	58	8.4
<b>Loaded</b>				
Front	kPa	psi	160	23.2
Rear	kPa	psi	193	28.0

# Equipment

## STANDARD EQUIPMENT

### Engine

Preheater for easier cold starts

VEB (exhaust retarder EPG + compression brake)

### Wheels and tires

33.25R29

### Drivetrain

6x4 and 6x6 Automatic Traction Control (ATC)

Dog clutch type 100% diff-locks in all axles

Cruise Control

Dropbox with longitudinal diff-lock

Torque converter with automatic lock-up in all gears

### Electrical system

Service battery disconnect switch, (LOTO)

Electrical Interface

Charging studs

Power outlets

USB-C 2.0 (2)

USB-A 3.0 (1)

12V (1) / 24V (1)

Exterior and Interior lights (all LED)

On Board Weighing

### Brake system

Two circuit, fully hydraulic, wet discs on all axles (externally cooled)

Down Hill Speed Control

Hill assist

Load & Dump Brake

Retarder pedal

Parking brake on propeller shaft

### Body

Body prepared for exhaust heating and optional equipment

### Safety

Anti-slip steps and platforms with handrails

Dump body lock

Steering joint lock

Harness anchor points

Rear-view mirrors

Retractable 3-inch 2-point safety belt

ROPS/ FOPS protected cab

Secondary steering

Dump support system

Positioning indicators

Entrance camera

## STANDARD EQUIPMENT

### Cab/Operator environment

Operator seat with head restraint (air suspended and heated)

Electronic Climate Control

Cup holder / storage tray

Cell phone holder

Instructor seat with seat belt

Overhead console for CC Radio, Tachograph, etc.

Sliding window

Cooled / Heated storage box

Front sun visor

Tilt/telescopic steering wheel

Loud speakers (4)

Dynamic instrument cluster and integrated Co-Pilot

Automatic pre-start checks

Troubleshooting diagnostics

### Service and Maintenance

Grouped service points and filters

Electrical fuel priming pump

Prepared for fast fueling equipment

Ambient and service lights (LED)

Electrically operated engine hood

Electrically operated belly plate

Drainage hose

Tool box

Front service ladder

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**OPTIONAL EQUIPMENT**

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**Engine**

Air filter, heavy duty  
Engine heater, electric  
Engine heater, diesel  
Engine auto shutdown  
Engine shutdown timer  
External emergency engine stop  
High engine idle speed  
Fuel filter, electrically heated (-25°C / -13°F)  
Fuel filter, electrically and coolant heated (-35°C / -31°F)

**Drivetrain**

Speed limiter (25/30 km/h (15.5/18.6 mph))

**Electrical system**

Warning beacon, LED  
Seatbelt indicator, external  
Work lights front and rear, LED  
Rear view camera  
Front view camera  
Reverse alarm  
PDS (Proximity Detection System) interface, Safemine  
Tire Pressure Monitoring System

**Operator Environment**

Noise reduction kit (fulfils 2000/14/EC)  
Anchorage, operator's manual  
Cab heating / ventilation timer  
Cable kit, for cab heater  
Cab air filter (Asbestos dust protection)  
Cab air filter (Carbon)  
Rear view mirrors, adjustable, el.heated  
Sun blinds, side windows  
Universal key  
Premium ISRI seat with head restraint (air suspended, cooled/heated), 2-point belt  
Premium ISRI seat with head restraint (air suspended, cooled/heated), 3-point belt  
Armrest for operator seat  
Hands-free microphone  
Radio AM/FM/DAB

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**OPTIONAL EQUIPMENT**

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**Dumping System**

Standard body without wear plates  
Body exhaust heating  
Front spillguard, extra  
Side extension, 200 mm (7.87 in)  
Side extension, 400 mm (15.75 in)  
Side extension, light material  
Tailgate, overhung, wire-operated  
Wear plates, 450 HB  
Wear plates heavy duty, 450 HB

**Safety**

Fire suppression system  
Warning triangle  
Fire extinguisher, external  
Wheel chocks

**Service and Maintenance**

Auto Lube system  
Centralized greasing  
Tool kit

**Other**

Arctic oil kit  
Fast fuelling system  
Jump start connector, ISO-type  
Anti-theft system (pin code)

**V O L V O**