### V O L V O



Volvo Articulated Hauler 29.0 t 53 km/h 360 hp

**A30** 

# **A30**

The best articulated hauler in its class, the Volvo A30 articulated hauler is the perfect choice for general construction, heavy infrastructure and quarrying. Look no further for optimum productivity, profitability, and performance.



## مرا

### 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



### **Productive performance**

- Outstanding tipping stability
- Width under 3-meters (including tailgate) for easy and convenient transport

# The best articulated hauler in its class

The best articulated hauler in its class, get ready to take on the most challenging projects across general construction, heavy infrastructure, quarrying and more. With key features including Volvo drivetrain with Terrain Memory, an intuitive operator interface, visibility which exceeds industry standards, superior durability and lower maintenance costs; count on the A30 Volvo Articulated Hauler to deliver exceptional off-road performance, operator comfort and maximum uptime.

### Unbeatable off-road performance



- Proven Volvo drivetrain
- Automatic traction control (ATC), including Terrain Memory\*
- Automatic drive combinations (including 100% differential locks)
- All-terrain bogie and hydro-mechanical steering
- Volvo Dynamic Drive



### Total operator control

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

### **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



### Designed for uptime

- 250-hour greasing intervals
- 1 000-hour engine service intervals
- Industry leading service access
- Robust access
- Remote monitoring and service alerts
- Enhanced electrical service center
- Service contracts
- Enhanced fuel filter water separator system
- Harness anchor points

### Ultimate operator experience



- Easy access/egress
- Ergonomic gear lever
- Enhanced storage options
- Easy cleaning
- Durable gas-hydraulic suspension
- Operator Training Program

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### **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

<sup>\*</sup> In markets with CareTrack

### Unbeatable off-road performance

The Volvo Articulated Hauler delivers best-in-class off-road performance with features including the 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.

### 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.

### Haul Assist with On-Board Weighing

Haul Assist, powered by the integrated Volvo Co-Pilot, is a set of tools designed to help you get even more productivity and efficiency from your Volvo Articulated Hauler. A key feature of Haul Assist is On-Board Weighing, which provides real-time payload information which can help to eliminate carry-back and overloading. The result is peak productivity, reduced fuel consumption and less machine wear.

### Volvo DNA throughout the powertrain

Experience superb fuel efficiency without compromising on power and performance thanks to the world-renowned Volvo drivetrain, complete with automatic traction control (ATC), including Terrain Memory\*. The intelligent function identifies and remembers slippery road segments to ensure optimized traction control and outstanding off-road mobility.



<sup>\*</sup> In markets with CareTrack

### **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.



### Volvo A30 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.

Engine Model		D11M
Max power - ECE R120 Net/ (ISO 14396 GROSS)	kW	265
	hp	360
at engine speed	rpm	2 100
Max torque - ISO 9249, SAE J1349 Net	Nm	2 040
at engine speed	rpm	1 100
Displacement	lit	10.8

### **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	2 x 12
Battery capacity	Ah	2 x 170
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 with six forward gears and two reverse gears. The transmission has the

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		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.

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	111
Internal sound level with sound kit	dB	70
External sound level with sound kit	dB	109



### Hydraulic System

Tensile strength

Pumps: 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.

Two return oil filters with magnetic cores provide effective oil filtration.

System max working pressure	MPa	25
Dumping System		
Patented Load and Dump Brake. <b>Dumping Cylinders:</b> two single stage double	e acting cylinders.	
Tipping angle	۰	70
Tipping time with load	s	12
Lowering time	s	10
Body		
Plate thickness		
Front	mm	6
Sides	mm	10
Bottom	mm	14
Chute	mm	14
Material		
Yield strength	N/mm²	1 150

N/mm²

1 350

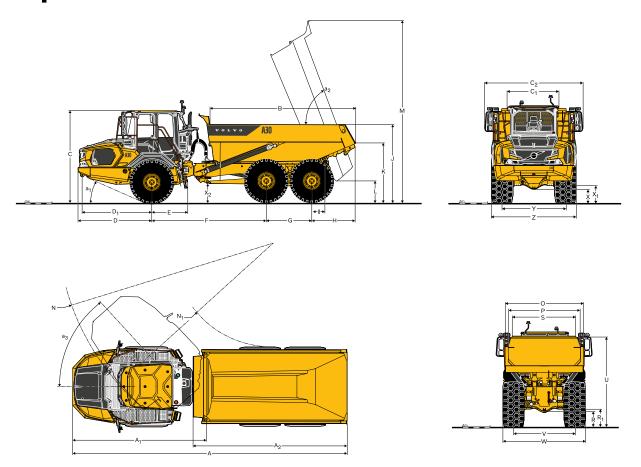
Load Capacity		
Standard Body		
Load capacity	kg	29 000
Body, struck	m³	14.2
Body, heaped 2:1	m³	17.8
With overhung tailgate		
Body, struck	m³	14.6
Body, heaped 2:1	m³	18.4
Suspension		

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

Hydraulic cylinders (struts), front/rear 2/0



## **Specifications**



DIMENSIONS		
Pos	Unit	A30J
Α	mm	10 344
A*	mm	10 436
A <sub>1</sub>	mm	4 953
A <sub>2</sub>	mm	5 851
В	mm	5 382
С	mm	3 406
C <sub>1</sub>	mm	1 819
C <sub>2</sub>	mm	3 457
D	mm	2 762
D <sub>1</sub>	mm	2 607
E	mm	1 210
F	mm	4 264
G	mm	1 690
Н	mm	1 628
1	mm	501
J	mm	2 906
K	mm	2 187
L	mm	650
М	mm	6 559
N	mm	8 175

DIMENSIONS		
Pos	Unit	A30J
N <sub>1</sub>	mm	4 190
0	mm	2 810
0*	mm	2 978
Р	mm	2 604
R	mm	527
R <sub>1</sub>	mm	650
S	mm	2 264
U	mm	3 331
V	mm	2 216
W	mm	2 991
X	mm	475
X <sub>1</sub>	mm	601
X <sub>2</sub>	mm	689
Υ	mm	2 216
Z	mm	2 991
a <sub>1</sub>	۰	24
a <sub>2</sub>	۰	72
аз	٥	45

A30J: Unloaded machine with 750/65R25

<sup>\*</sup> Dimension with overhung tailgate

REFILL CAPACITIES				
		A30J		
Crankcase	- 1	35		
Fuel tank	1	380		
Cooling system	- 1	45		
Brake cooling system	1	52		
Transmission	- 1	48		
Dropbox	I	9.0		
Axles, front/bogie	- 1	24/50		
Hydraulic tank	1	170		
DEF/AdBlue®	- 1	36		

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SPEED			
		A30J	
Forward			
1	km/h	8.0	
2	km/h	12	
3	km/h	21	
4	km/h	30	
5	km/h	38	
6	km/h	53	
Reverse			
1	km/h	8.0	
2	km/h	14	

OPERATING WEIGHT UNLOADED			
		A30J	
Tires		750/65R25*	
Front	kg	13 500	
Rear	kg	11 200	
Total	kg	24 700	
Payload	kg	29 000	

Operating weight includes all fluids and operator

TOTAL WEIGHT				
		A30J		
Tires		750/65R25*		
Front	kg	15 900		
Rear	kg	37 800		
Total	kg	53 700		

<sup>\*)</sup> A30J with tires 23.5R25, decrease 200 kg / axle

GROUND PRESSURE				
		A30J		
Tires		23.5R25	750/65R25	
Unloaded				
Front	kPa	131	111	
Rear	kPa	52	45	
Loaded				
Front	kPa	158	133	
Rear	kPa	186	156	

<sup>\*)</sup> A30J with tires 23.5R25, decrease 200 kg / axle

### **Equipment**

### STANDARD EQUIPMENT

### Cab/Operator envionment

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.

Air suspended / heated operator seat

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

### Engine

Preheater for easier cold starts

VEB (exhaust retarder EPG + compression brake)

### Wheels and tires

26.5R25

### Electric powertrain

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

Battery disconnect switch

Electrical Interface

Charging studs

Power outlets

USB-C 2.0 (2)

USB-A 3.0 (1)

24V (2)

Exterior and Interior lights (all LED)

### 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

### STANDARD EQUIPMENT

### **Dumping System**

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 Care Cab

Secondary steering

Dump support system

Positioning indicators (front and rear)

Entrance camera

### Service and Maintenance

Grouped service points and filters

Electrical fuel priming pump

Prepared for fast fueling equipment

Ambient and service lights (LED)

Electrical engine hood

Belly plate with integrated service hatches

Drainage hoses

Tool box

Front service ladder

### **OPTIONAL EQUIPMENT**

### Engine

Air filter, heavy duty

Engine heater, electric

Engine heater, diesel

Engine shutdown timer

External emergency engine stop

#### **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 operator seat with head restraint (air suspended, cooled / heated), 2-point belt

Premium operator seat with head restraint (air suspended, cooled / heated), 3-point belt  $\,$ 

Armrest for operator seat

Hands-free microphone

Radio AM / FM / DAB

### Wheels and tires

### 775/65R29

### Drivetrain

Long haul kit, dropbox cooling

Speed limiter (25/30 km/h)

### Electrical system

Warning beacon, LED

Seatbelt indicator, external

Working lights front and rear, LED

Rear view camera

Front view camera

Reverse alarm

PDS interface, Safemine

Tire Pressure Monitoring System

### **OPTIONAL EQUIPMENT**

### Suspension

Gas hydraulic suspension

### **Dumping System**

Body exhaust heating

Front spillguard, extra

Side extension, 200 mm

Side extension, light material

Tailgate, overhung, wire-operated

Tailgate, overhung, linkage-operated

Tailgate, underhung

Wear plates, 450 HB

Wear plates heavy duty, 450 HB

### Safety and security

Fire suppression system

Warning triangle

First aid kit and fire extinguisher

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

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.

### V O L V O