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Volvo Articulated Haulers 34.5 t 57 km/h 457 hp

A35

A35

Benefit from a host of cutting-edge features designed to boost productivity and maximize uptime.



Productive, efficient and reliable hauling operations.

Take on tough jobs in tough conditions in the Volvo A35, built for exceptional off-road performance, operator comfort, and maximum uptime. With features including Volvo drivetrain with Terrain Memory, an intuitive operator interface, enhanced visibility, superb durability, and lower service costs, the A35 delivers peak productivity, profitability, and performance.

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

• Easy :

A new level in operator comfort

- Easy access/egress
- Direct field of vision which exceeds industry standards
- Lighting and cameras
- Enhanced storage options
- Easy cleaning
- Range of suspension configurations

Unbeatable off-road performance



- Volvo Automatic Traction control (ATC) with Terrain Memory
- Automatic drive combinations including 6x6 and 6x4
- All-terrain bogie
- Hydro-mechanical steering
- Downhill speed control
- Dynamic and predictive gear selection
- Superior tipping stability

Reduction in service costs



- 250-hour greasing intervals
- 1000-hour engine service intervals
- Industry leading service access
- Remote monitoring and service alerts
- Enhanced electrical service center

Haulers and beyond



- Haul Assist with On-Board Weighing
- Connected Map and Performance Indicator
- Future proofed software architecture
- Connected to Uptime
- Operator Training Program
- Service contracts
- Optimal pass-matching with Volvo loading tools

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 just two screens. The interactive, integrated Volvo Co-Pilot display offers easy control over essential functions like radio, 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.

Volvo Automatic Traction Control with Terrain Memory

Experience superb fuel efficiency without compromising on power and performance thanks to the world-renowned Volvo drivetrain, including Terrain Memory. The intelligent function identifies and remembers slippery road segments to ensure optimized traction control and outstanding offroad mobility.

Enhanced visibility

Visibility is key to a safe, efficient and productive working day and thanks to the redesigned cab panels and wider wiper coverage, operators benefit from a direct field of vision which exceeds industry standards. Work lights activated via the integrated Volvo Co-Pilot are now located on the pillar, providing increased illumination to further optimize visibility.

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.



Reduction in service costs

Reduce your service costs 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 1000 hour engine service intervals.

Unbeatable off-road performance

The A35 delivers unbeatable off-road performance in its class with features including the proven Volvo drivetrain, Automatic Traction Control system with Terrain Memory, automatic drive combinations (including 100% differential locks), all-terrain bogie and hydro-mechanical steering for unmatched traction, stability and precise control.



Volvo A35 in detail

Engine

V-ACT, 13 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

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	D13J
Max power - SAE J1995 Gross	kW	336
	hp	457
at engine speed	r/min	1 900
Max torque - SAE J1995 Gross	Nm	2 407
at engine speed	r/min	1 100
Displacement	1	12.8

Electrical system

All cables, sockets and pins are identified. Cables are enclosed in plastic conduits and secured to main frame. 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 nine forward gears and three reverse gears. The transmission has the

with fine forward gears and three 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).

Torque converter		2.1:1
Transmission	Volvo	PT 2529
Dropbox	Volvo	IL2 ATC
Axles	Volvo	ARB H35

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, $\pm 45^\circ$.

Steering system: including secondary steering fulfills 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

Mounted on rubber pads. Ergonomically designed. Unobstructed wide angle forward view. Operator centrally positioned above the front axle.

ergonomically positioned controls.

Electronic controled climate unit with automatice controled temperature and functionality with high thermal comfort and clean air.

The controls, switches, and instruments in the cab of the hauler machine are designed with a strong focus on ergonomics and the appropriateness of information content for the operator. These elements are strategically placed to provide operators with intuitive access to critical functions while minimizing distractions. Ergonomics play a pivotal role in the design, ensuring that controls are within easy reach and that their layout minimizes operator fatigue during long shifts. The primary 8" display, positioned directly in front of the operator, serves as a central hub for monitoring vital machine functions, displaying information in a clear and organized manner. The 12" secondary display complements this by enhancing situational awareness. The information presented on these displays is carefully curated to deliver the most pertinent data, alerts, and notifications enabling operators to make informed decisions swiftly and accurately. **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	112

Internal sound level with sound kit: 70 dB(A) External sound level with sound kit: 110 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. Two return oil filters with magnetic cores provide effective oil filtration

System max working pressure	MPa	28		
Dumping System	Dumping System			
Patented Load and Dump Brake. Dumping Cylinders: two single stage doublest two singlest age doublest two singlest ages and the stage doublest ages ages and the stage doublest ages ages ages ages ages ages ages ages	le acting cylinders	5.		
Tipping angle	o	71		
Tipping time with load	s	12		
Lowering time	S	10		
Body				
Plate thickness				
Front	mm	8		
Sides	mm	11		
Bottom	mm	14		
Chute	mm	16		
Material		HB450 steel		
Yield strength	N/mm²	1 150		
Tensile strength	N/mm²	1 350		

Load Capacity		
Standard Body		
Load capacity	kg	34 500
Body, struck	m³	16
Body, heaped 2:1	m³	21.3
With overhung tailgate		
Body, struck	m³	16.2
Body, heaped 2:1	m³	22

Suspension

Front suspension: Three point suspension consisting of a-stay fitted to the frame structure by a spherical rubber bushing, shock absorbers with accumulators and cross stays.

Reat suspension: 3-point bogie beam suspension consisting of a straddle-mounted bogie beam with maintenence free rubber bearings, flexible rubber pads, cross stays and a-stay



Specifications

REFILL CAPACITIES		
	A35J	
- 1	50	
1	563	
- 1	44	
- 1	207	
- 1	43	
1	9	
- 1	22/51	
- 1	199	
- 1	53	

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SPEED		
		A35J
Forward		
1	km/h	5.9
2	km/h	8.6
3	km/h	10.5
4	km/h	15.2
5	km/h	21.9
6	km/h	27.7
7	km/h	36.6
8	km/h	48.5
9	km/h	57
Reverse		
1	km/h	6.6
2	km/h	9.5
3	km/h	18

OPERATING WEIGHT UNLOADED		
		A35J
Tires		26.5R25*
Front	kg	16 430
Rear	kg	13 470
Total	kg	29 900
Payload	kg	34 500

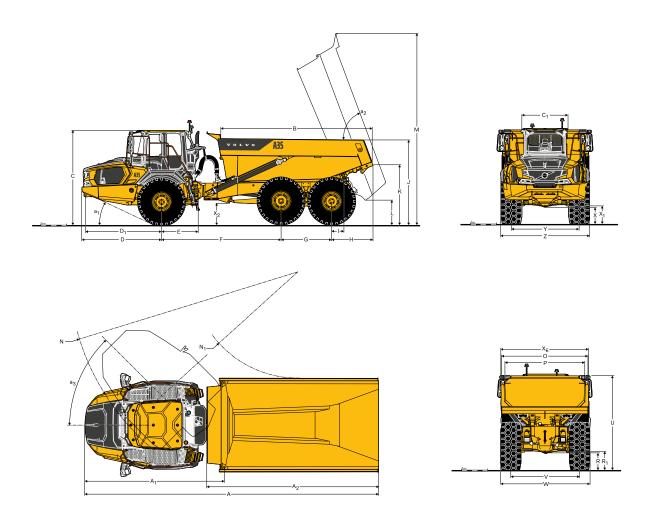
Operating weight includes all fluids and operator

iJ
25*
30
40
70

^{*)} A35J with tires 775/65R29, add 200 kg /axle

GROUND PRESSURE			
		A3	15J
Tires		26.5R25	775/65R29
Unloaded			
Front	kPa	138	117
Rear	kPa	56	49
Loaded			
Front	kPa	171	146
Rear	kPa	184	157

^{*)} A35J with tires 775/65R29, add 200 kg /axle



DIMENSIONS		
Pos	Unit	A35J
A	mm	11 261
A ₁	mm	5 459
A ₂	mm	6 418
В	mm	5 811
С	mm	3 568
C ₁	mm	1 819
D	mm	3 084
D ₁	mm	2 941
E	mm	1 277
F	mm	4 628
G	mm	1 940
Н	mm	1 609
L	mm	494
J	mm	2 940
K	mm	2 367
L	mm	855
М	mm	7 340
N	mm	9 118
N ₁	mm	4 429
0	mm	3 218

DIMENSIONS		
Pos	Unit	A35J
Р	mm	3 028
Q	mm	2 801
R	mm	586
R ₁	mm	677
S	mm	2 651
T	mm	3 401
U	mm	3 516
V	mm	2 690
W	mm	3 345
X	mm	522
X ₁	mm	607
X ₂	mm	758
Υ	mm	2 690
Z	mm	3 345
a ₁	0	24
a ₂	0	71
аз	0	45

A35J: Unloaded machine with 26.5R25

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

Rubber front suspension

Hydraulic front 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