VOLVO

Volvo Articulated Haulers 34.5 t 57 km/h 457 hp

A35

Volvo Construction Equipment

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

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
- 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 off-road 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.

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		
13 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats.		
Engine model	Volvo	D13F
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	1 000
Displacement	l	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.		
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.

Steering system

Hydro-mechanical articulated steering, self compensating design.

Chassis

Frames: box type, heavy duty. High strength steel, robot welded.

Cab

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

Sound level in cab (ISO 6396) - L_{pA}	dB	72
External sound level (ISO 6395) - L_{wA}	dB	112

Internal sound level with sound kit: 70 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		
Patented Load and Dump Brake.		
Tipping angle	°	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.

Specifications

REFILL CAPACITIES

		A35J
Crankcase	l	50
Fuel tank	l	563
Cooling system	l	44
Brake cooling system	l	207
Transmission	l	43
Dropbox	l	9
Axles, front/bogie	l	22/51
Hydraulic tank	l	199

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	57.0
Reverse		
1	km/h	6.6
2	km/h	9.5
3	km/h	18

OPERATING WEIGHT UNLOADED

		A35J
Tires		**26.5R25***
Front	kg	16 330
Rear	kg	13 470
Total	kg	29 800
Payload	kg	34 500

Operating weight includes all fluids and operator

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

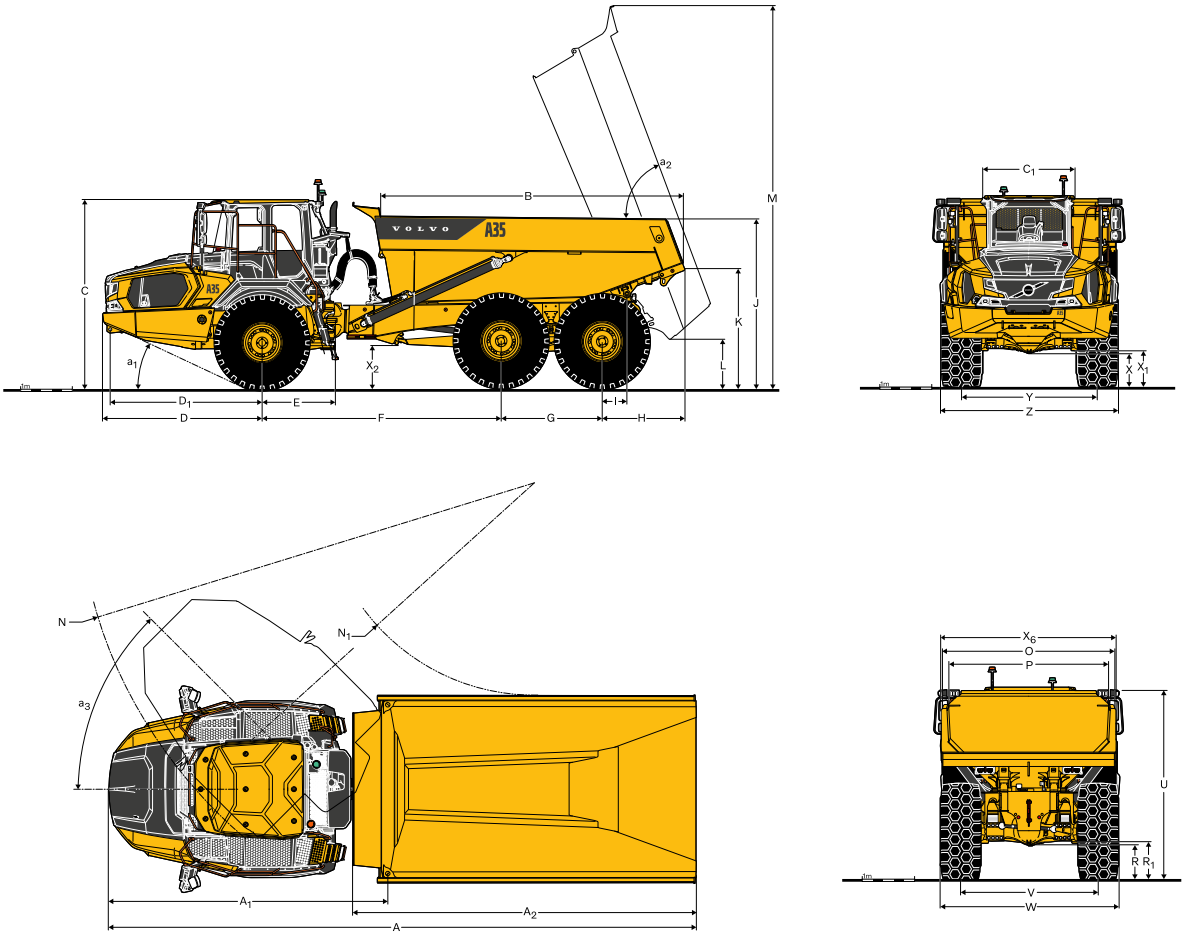
TOTAL WEIGHT

		A35J
Tires		**26.5R25***
Front	kg	20 330
Rear	kg	43 940
Total	kg	64 270

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

GROUND PRESSURE

		A35J	
Tires		**26.5R25**	**775/65R29**
Unloaded			
Front	kPa	138	117
Rear	kPa	56	49
Loaded			
Front	kPa	171	146
Rear	kPa	184	157



DIMENSIONS		
Pos	**Unit**	**A35J**
A	mm	11 261
A_1	mm	5 459
A_2	mm	6 418
B	mm	5 811
C	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
H	mm	1 609
I	mm	494
J	mm	2 940
K	mm	2 367
L	mm	855
M	mm	7 340
N	mm	9 118
N_1	mm	4 429
O	mm	3 218

DIMENSIONS		
Pos	**Unit**	**A35J**
P	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
Y	mm	2 690
Z	mm	3 345
a_1	°	23.8
a_2	°	71
a_3	°	45

A35J: Unloaded machine with 26.5R25

Equipment

STANDARD EQUIPMENT
Cab/Operator envioment
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
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
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
Dumping System
Body prepared for exhaust heating and optional equipment

STANDARD EQUIPMENT
Safety and security
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
Suspension
Rubber front suspension
Hydraulic front suspension

OPTIONAL EQUIPMENT
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.