A60H
Volvo Articulated Haulers  55 t  673 hp
Pure uptime

Get continuous production with this bigger, durable and superior machine – always available and ready to work. Count on superb reliability thanks to the machine’s robust design, easy service access and outstanding Volvo dealer network. Guarantee pure uptime.

Guaranteed durability
Increase your uptime using heavy-duty front and rear frames, hitch and wet disk brakes. Volvo proven durability and the support of extensive warranty options means you never need to worry about getting the job done. Strength and durability are hallmarks of the Volvo articulated hauler.

Fifty years strong
Fifty years and fifty tonnes later, Volvo is the world’s leading manufacturer of articulated haulers. We invented the concept and have been developing and building these machines for over 50 years – it has come a long way from its original 10 tonne articulated hauler. With proven success over the years, the machines include innovative technology and the renowned Volvo engine.

Service access
With industry-leading access, servicing your machine is quick and easy. The front grill swings down, opening a service platform with anti-slip steps. The electric hood opens to 90 degrees, allowing full and safe access to the engine compartment.

Volvo dealer network
The exclusive Volvo dealer network is there to support you whenever you need it. Volvo offers a number of services, local knowledge and global experience, including telematics machine monitoring – CareTrack™ and MATRIS™ – as well as superb parts availability.
Get ready to work with the all new A60H. Designed for heavy hauling in severe off-road operation, the machine’s long service life, quality, reliability and durability is everything you expect from a Volvo. Hauling is easier and more efficient.
Reduce cost per tonne with a higher payload. The state-of-the-art design allows for more capacity while improving fuel efficiency so you can move more for less.
Move more, make more

Increase your business’s profitability by moving more for less. Industry-leading fuel efficiency, innovative technology and vital operational data tools help to optimize production and control your maintenance costs, maximising your return on investment.

Fuel efficiency guarantee
The A60H, powered by the world-renowned Volvo engine, delivers excellent fuel efficiency without compromising on power or performance. With guaranteed fuel efficiency, this machine will increase your profitability and improve your return on investment.

Maximise your investment
Meet your targets faster with the A60H. Increase your earnings with a higher payload and greater productivity for lower cost per tonne.

Control your maintenance costs
The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

Operational data
Receive valuable data to improve onsite efficiency and save costs. With intelligent systems from Volvo such as MATRIS™, CareTrack™ and the On Board Weighing system, you will optimize your production and minimise your operational costs.
Bigger and bolder

Achieve astounding productivity with the A60H. This machine is the ultimate hauler, featuring 100% off-road performance, proven Volvo technology and impressive payload – contributing to sustainable operations, year after year.

Articulated hauler concept

Go where others can’t. The A60H embodies the full articulated hauler concept and provides total versatility so you can access the entire jobsite and climb steeper gradients. Work in all seasons, terrains and applications using tailored machine configurations and tires, optimized for this 60 tonne machine.

The best articulated hauler

The ground-breaking A60H is the best articulated hauler on the market and the latest innovation from Volvo. With matched drivetrain, automatic drive combinations including 100% differential locks, all-terrain bogie, hydro-mechanical steering and active suspension, this machine is unbeatable.

Comfort at speed

A60H is fitted with active hydraulic front suspension – permitting high hauling speeds in tough conditions. This optimizes operator comfort and stability during travel. Move more material in a shorter time for unmatched productivity.

Load optimization

The On Board Weighing System guarantees the optimal load every cycle. This maximizes production, boosts fuel efficiency and reduces machine wear in all site conditions and operations.
The A60H can move more tonnes per hour and give a 100% in all conditions. The largest articulated hauler on the market has a bigger payload for your application, delivering up to 40% more productivity.
Simply the best and the biggest

Profitability

The state-of-the-art design allows for more capacity while improving fuel efficiency so you can move more for less.

Maximize your investment
Meet your targets faster. Increase your earnings with higher payload and greater productivity for lower cost per tonne.

Fifty years strong
Fifty years and fifty tonnes later, Volvo is the world’s leading manufacturer of articulated haulers.

Guaranteed durability
Increase your uptime using heavy-duty front and rear frames, hitch and wet disk brakes.

The best articulated hauler
The ground-breaking A60H is the best articulated hauler on the market and the latest innovation from Volvo.

Productivity

The A60H can move more tonnes per hour and give a 100% in all conditions.
Its comfortable cab and ease of operation, even in adverse conditions, makes operators choose this machine.

**Operator’s choice**

Designed for heavy hauling in severe off-road operation, its long service life, quality, reliability and durability is everything you expect from a Volvo.

**Fuel efficiency guarantee**

The A60H is powered by the world-renowned Volvo engine delivers excellent fuel efficiency without compromising on power or performance.

**Service access**

With industry-leading access, servicing your machine is quick and easy.

**Load optimization**

The On Board Weighing System guarantees the optimal load every cycle.

**Articulated hauler concept**

Go where others can’t. The machine embodies the full articulated hauler concept and provides total versatility.
When many other machines are onsite, most operators prefer the Volvo. Its comfortable cab and ease of operation, even in adverse conditions, makes operators choose this machine.
The ultimate operating environment

The A60H is the number one operator’s choice because of its industry-leading spacious cab and comfortable work environment. Its superior comfort, control, ease of operation and safety appeals to operators, maintaining productivity all day, every day.

Total operator control
Stay in control at all times. The dump support system, dynamic Volvo engine brake and load and dump brake, all help the operator to control the machine for extra productivity and safety.

Ease of operation
The ergonomic, comfortable controls are easy to understand and suit all operators, combined with automatic functions for increased ease of operation.

Operator comfort
Feel comfortable and spend more time in the A60H. The centrally positioned operator, superior steering, excellent suspension, low noise levels, climate control, space and visibility, reduce operator fatigue for more effective operations.

Safety
A number of safety features such as superior visibility and efficient lighting help to keep the operator and people working around the machine safe in the most demanding working environments – whether it’s the operator, trainers, mechanics or site workers.


Volvo A60H in detail

**Engine**

16 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.

<table>
<thead>
<tr>
<th>Engine model</th>
<th>Engine model</th>
<th>Max power - SAE J1995 Gross kW</th>
<th>Max power - ISO 9249, SAE J1349 Net kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volvo D16F</td>
<td></td>
<td>495</td>
<td>492</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>at engine speed r/min</th>
<th>at engine speed r/min</th>
<th>Flywheel power - ISO 9249, SAE J1349 Net kW</th>
<th>Flywheel power - ISO 9249, SAE J1349 Net kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 800</td>
<td>1 800</td>
<td>673</td>
<td>669</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Voltage V</th>
<th>Battery V</th>
<th>Battery capacity Ah</th>
<th>Alternator kW/A</th>
<th>Starter motor kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>2 x 12</td>
<td>2 x 225</td>
<td>2.264/80</td>
<td>9</td>
</tr>
</tbody>
</table>

**Drivetrain**

Torque converter with built-in lock-up function. Transmission: Fully automatic Allison planetary transmission with 6 forward gears and 2 reverse gears. Internal torsional damper in the torque converter. 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).

<table>
<thead>
<tr>
<th>Torque converter</th>
<th>Transmission</th>
<th>Dropbox</th>
<th>Axles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85:1</td>
<td>Volvo 6630 ORS</td>
<td>Volvo IL3 ATC</td>
<td>Volvo AHW80</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Hydraulic cylinders (struts), front/rear</th>
<th>Accumulators, oil-nitrogen, high pressure, front</th>
<th>Levelling sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/0</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**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 retarder retarder function and Volvo Engine Brake (VEB).

**Steering System**

Hydro-mechanical articulated steering, self compensating design. Two double-acting steering cylinders. Steering angle: ±4° Swing steer lock-to-lock, ±45°. Steering system, including secondary steering full lift ISO S010.

**Cab**


<table>
<thead>
<tr>
<th>Sound level in cab (ISO 6396) - LpA dB(A)</th>
<th>External sound level (ISO 6395) - LwA dB(A)</th>
<th>External sound level with sound kit: 111 dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>113</td>
<td></td>
</tr>
</tbody>
</table>

**Chassis**

Frames: box type, heavy duty, High strength steel, robot welded. Rotating hitch: 100% maintenance free, fully sealed, with permanently greased tapered roller bearings.

**Damping System**

Patented Load and Dump Brake. Damping Cylinders: two single stage double acting cylinders.

<table>
<thead>
<tr>
<th>Tipping angle °</th>
<th>Tipping time with load s</th>
<th>Lowering time s</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>12</td>
<td>10</td>
</tr>
</tbody>
</table>

**Load Capacity**

Load capacity kg: 55 000

<table>
<thead>
<tr>
<th>Body</th>
<th>Body, struck m³</th>
<th>Body, heaped 2:1 m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>25.8</td>
<td>33.6</td>
</tr>
<tr>
<td>With overhung tailgate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Body, struck m³</td>
<td>265</td>
<td></td>
</tr>
<tr>
<td>Body, heaped 2:1 m³</td>
<td>35.1</td>
<td></td>
</tr>
</tbody>
</table>

**Material**

HB400 steel

Yield strength N/mm²: 1 000

Tensile strength N/mm²: 1 250
### Specifications

#### Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crankcase</td>
<td>55 l</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>750 l</td>
</tr>
<tr>
<td>Cooling system</td>
<td>78 l</td>
</tr>
<tr>
<td>Brake cooling system</td>
<td>131 l</td>
</tr>
<tr>
<td>Transmission</td>
<td>58 l</td>
</tr>
<tr>
<td>Dropbox</td>
<td>12 l</td>
</tr>
<tr>
<td>Axles, front/bogie</td>
<td>74/147 l</td>
</tr>
<tr>
<td>Hydraulic tank</td>
<td>198 l</td>
</tr>
</tbody>
</table>

#### Operating Weight Unloaded

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tires</td>
<td>33.25R29</td>
</tr>
<tr>
<td>Front kg</td>
<td>22 350</td>
</tr>
<tr>
<td>Rear kg</td>
<td>21 050</td>
</tr>
<tr>
<td>Total kg</td>
<td>43 400</td>
</tr>
<tr>
<td>Payload kg</td>
<td>55 000</td>
</tr>
</tbody>
</table>

*Operating weight includes all fluids and operator*

#### Total Weight

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tires</td>
<td>33.25R29</td>
</tr>
<tr>
<td>Front kg</td>
<td>28 700</td>
</tr>
<tr>
<td>Rear kg</td>
<td>69 700</td>
</tr>
<tr>
<td>Total kg</td>
<td>98 400</td>
</tr>
</tbody>
</table>

#### Ground Pressure

<table>
<thead>
<tr>
<th>Component</th>
<th>Unloaded</th>
<th>Loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tires</td>
<td>33.25R29</td>
<td></td>
</tr>
<tr>
<td>Front kPa</td>
<td>125 kPa</td>
<td>159 kPa</td>
</tr>
<tr>
<td>Rear kPa</td>
<td>58 kPa</td>
<td>193 kPa</td>
</tr>
</tbody>
</table>

#### Speed

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>km/h</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>6.5</td>
</tr>
<tr>
<td>2</td>
<td>9.7</td>
</tr>
<tr>
<td>3</td>
<td>12.9</td>
</tr>
<tr>
<td>4</td>
<td>19.2</td>
</tr>
<tr>
<td>5</td>
<td>25.9</td>
</tr>
<tr>
<td>6</td>
<td>54.9</td>
</tr>
</tbody>
</table>

#### Reverse

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>km/h</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>7.5</td>
</tr>
</tbody>
</table>

#### Wheel Loader Pass Matching

<table>
<thead>
<tr>
<th>Number of passes</th>
<th>L220</th>
<th>L250</th>
<th>L350</th>
</tr>
</thead>
<tbody>
<tr>
<td>A60H</td>
<td>6</td>
<td>5</td>
<td>4</td>
</tr>
</tbody>
</table>

- Well matched, 2-4 buckets.
- Loader under capacity, 5 buckets or more.
- Loader undersized for optimum match, reach might be an issue.

#### Excavator Pass Matching

<table>
<thead>
<tr>
<th>Number of passes</th>
<th>EC480</th>
<th>EC750</th>
<th>EC950</th>
</tr>
</thead>
<tbody>
<tr>
<td>A60H</td>
<td>11</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

- Well matched, 4-6 buckets.
- Excavator under capacity, 7 buckets or more.
- Excavator undersized for optimum match.

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**A60H:** Unloaded machine with 33.25R29 tires.
# Equipment

## STANDARD EQUIPMENT

### Safety
- 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 protected Care Cab
- Secondary steering
- Steering joint lock
- Windshield washers
- Windshield wipers with interval function
- Dump support system

### Drivetrain
- 6x4 and 6x6 automatically engaged drive modes
- Dog clutch type 100% diff-locks in all axles
- Full automatic transmission
- Two stage dropbox with longitudinal diff-lock
- Torque converter with automatic lock-up

### Engine
- Direct injected, electronically controlled, turbocharged, intercooled
- Grouped oil filters, for ease of change
- Preheater for easier cold starts
- VEB (exhaust retarder EPG + compression brake)

### Electrical system
- 80 A alternator
- Battery disconnect switch
- Extra 24 V socket for lunch cooler
- Lights:
  - Back-up light
  - Brake lights
  - Cab lighting
  - Direction indicators
  - Headlights
  - Instrument lighting
  - Parking lights
  - Rear lights

### Brake system
- Hill assist
- Load & Dump Brake
- Retarder pedal
- Parking brake on propeller shaft
- Two circuit, fully hydraulic, wet discs on all axles

### Comfort
- ACC control panel
- Ashtray
- Cab heater with filtered fresh air and defroster
- Can holder / storage tray
- Cigarette lighter
- Instructor seat with seat belt
- Overhead console for radio
- Sliding window
- Space for lunch cooler
- Storage box
- Sun visor
- Tilt/telescopic steering wheel
- Tinted glass

### Operator information interface
- Gauges:
  - Brake pressure
  - Fuel
  - Speedometer
  - Tachometer
  - Wet disc brakes cooling oil temperature
  - On Board Weighing (OBW)
  - Warning lights grouped and easy to read
    - Central warning (3 levels) for all vital functions

### Central positioned information display
- Automatic pre-start checks
- Clock
- Hour meter
- Operational information, easy-to-navigate menu
- Troubleshooting diagnostics

### Body
- Body prepared for exhaust heating and optional equipment

### Exterior
- Front mudguard wideners and rear mudflaps

### Tires
- 33.25R29
- 800/80R29

### Service and maintenance
- Electrical engine hood and belly plate
- Machine Tracking Information System MATRIS
- Service platform integrated in the front grill
- Tool box
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.

### OPTIONAL EQUIPMENT

#### Safety
- Fire suppression system
- Warning triangle
- First aid kit and fire extinguisher
- Wheel chocks

#### Engine
- Air pre-cleaner, cyclone type
- Air pre-cleaner, oil-bath type
- Air filter, heavy duty, EON
- Engine heater, 120 V, USA
- Engine heater, 240 V
- Engine heater, diesel (Eberspächer)
- Engine auto shutdown
- Engine shut down timer
- External emergency engine stop
- Fuel filter, extra
- High engine idle speed

#### Electrical system
- Headlights, LED
- Warning beacon, LED
- Working lights, LED
- Entrance light
- Anti-theft system (pin code)
- Rear view camera
- Reverse alarm

#### Cab
- Noise reduction kit (fulfils 2000/14/EC)
- Anchorage, operator’s manual
- Cab heating/ventilation timer
- Cable kit, for cab heater 120 V/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

#### Body
- Body exhaust heating
- Front spillguard, extra
- Side extension, light material 850mm
- Tailgate, overhung, linkage-operated
- Tailgate, overhung, wire-operated
- Tailgate, underhung
- Wear plates, 450 HB

#### Tires
- 800/80 R29
- 33.25 R29

#### Service and maintenance
- Lube system, standard machine
- Tool kit

#### Other
- Siberian kit -40°C
- Arctic oil kit
- CareTrack
- Fast fuelling system
- Jump start connector, NATO-type

### SELECTION OF VOLVO OPTIONAL EQUIPMENT

<table>
<thead>
<tr>
<th>Rear view camera and monitor</th>
<th>Tailgate</th>
<th>Oil bath pre-cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Rear view camera and monitor" /></td>
<td><img src="image2.jpg" alt="Tailgate" /></td>
<td><img src="image3.jpg" alt="Oil bath pre-cleaner" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fast fuelling</th>
<th>Volvo fire suppression system</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4.jpg" alt="Fast fuelling" /></td>
<td><img src="image5.jpg" alt="Volvo fire suppression system" /></td>
</tr>
</tbody>
</table>