VOLVO ARTICULATED HAULERS
A25D, A30D, A35D, A40D
Volvo haulers
– for higher productivity

Everyday, our haulers prove their power, flexibility and operational reliability on work sites all over the world. Now, we’ve developed the new generation of articulated haulers. The D-series, with increased payload and body capacities, can haul bigger loads, and faster – at a lower cost. Regardless of terrain and ground conditions. Volvo haulers are designed to ensure effectiveness through high availability – making your operation even more efficient.

The objective of Volvo’s machine development is to boost your productivity. That’s why we have developed our haulers even further and equipped them with new features that improve the efficiency of your operation. The comfortable operator environment is based on a proven cab design concept and suspension. In combination with new engines and transmission, it allows you to operate at higher average speeds. Our new patented Load & Dump brake and faster dumping hydraulics are just a couple of examples of how we’ve stepped up the pace and work capacity on loading and dumping sites.

**Higher load capacity**
Haul even bigger loads. The dump body holds a bigger volume, and load capacity has been increased.

**Faster dumping**
Gain time at the dumping site. The steering system makes it easy to position the hauler with great accuracy. The dumping system and the Load & Dump brake provide ease of operation, stability and effectiveness.

**Optimized work environment**
Keeps the operator going on long shifts. Good operator comfort means high productivity.

**Excellent off-road performance**
Takes you anywhere. Volvo haulers feature superior off-road characteristics.

**Higher availability**
For maximized uptime. Volvo haulers offer high availability. Service needs have been minimized.

**Safe downhill operation**
Easy to maintain speed downhill. The user-friendly retardation system facilitates control of the machine regardless of the terrain.

**Increased rimpull**
Faster uphill operation. Shifting is automatic, and the operator simply selects the most suitable drive combination.
Volvo haulers
– for lower operating costs

All main components for our haulers are developed in-house by Volvo, for example, the drivetrain, frame, cab, electronics and software. This generates results: higher productivity, higher reliability and service friendliness. That’s how we’ve been able to reduce the already low operating costs even more.

Better serviceability
Less downtime for service. The hauler concept is designed for optimal serviceability and access.

Minimized maintenance
Extended service interval times. Fewer oil and filter changes give higher availability, lower operating costs and reduced environmental impact. Automatic level checks and fewer lube points for more uptime.

Flexible operating modes
Minimizes drivetrain and tire wear. Various drive combinations give you flexibility: 6x4 drive on good ground conditions results in less tire wear and lower fuel consumption. 100% differential locks on all axles when operating off-road. Operator selectable on the move.

Long lasting value
Maintain a high resale value. Long-life components assure fewer repairs and a high second-hand value.

Fuel efficient
Save all the way. Volvo haulers have low fuel consumption – in fact, the industry’s lowest per hauled ton.
Volvo haulers
– for a high level of safety

Volvo haulers have excellent maneuverability, powerful steering and reliable brakes. Productivity increases, just like safety – in all stages of your operation. The D-series features Volvo’s frontrunner technology, automatically giving you overall peace of mind.

**Improved access for service**
Ease of servicing. Required maintenance work is reduced. Level checks are handled by the information system. Slip resistant surfaces and handrails provide easy and safe access to move around on the machine.

**Enhanced visibility**
Minimize blind spots. Volvo haulers are designed for good visibility around the machine.

**Automatic emergency brake**
Ensure secondary braking readiness. The automatic emergency brake function helps provide for hauler safety.

**Intelligent communication system**
The operator’s communication system warns the operator if, for example, the dump body is up and also indicates that the seat belt is unbuckled or the door is open.

**Meet environmental requirements**
Invest for the future. Volvo haulers fulfill current governing legislation with regards to emissions, external noise level and recycling.

**Reduced waste**
Reduce the amount of waste oil. Extended service intervals and fewer oil changes save limited resources.

**Recycling**
Prepared for recycling – from the beginning. The haulers are developed for recycling of components and oil.

**Cleaner air**
Save fuel. New engine with the industry’s lowest fuel consumption per hauled ton. Electronic engine controls help provide for lower emissions.
Operator environment and comfort – for a more effective work environment

**Volvo haulers offer a world-class operator’s environment.**

The foundation is the ergonomically designed cab with low sound levels, as well as the proven and simple yet comfortable front suspension. Rough operating conditions do not affect the operator’s concentration and have no effect on the operator’s performance during long shifts. Steering and braking have good reactions to the operator, similar to the steering feel of a truck.

**Passive safety**

The new, well-designed cab is an award winner. It is built using high-strength steel and meets ROPS/FOPS standards. Operator awareness is enhanced with features such as indication of raised dump body, unbuckled seat belt and open door.

The instructor’s seat is located so that the instructor has access to important controls (within easy reach).

The operator’s position is high for optimal visibility, yet protected by the front plate of the dump body.

**Active safety**

Volvo’s self-compensating, hydro-mechanical steering system gives an accurate feel for the road – similar to the steering feel of a truck.

The steering is stable at high speeds and powerful when operating in off-road conditions. The heavy-duty design of the system ensures consistent steering performance for the entire life of the machine.

These features make the Volvo steering system superior to all other systems on the market.

The rounded and sloped hood improves visibility for the operator.

**Great cab to work in**

It’s easy to access the cab. Correctly sized and positioned cab steps and a wide door opening without a threshold. The cab is sound-insulated, spacious and pleasant with a well-designed, modern and practical interior.

The cab features a centrally located operator’s seat and large glass areas. In combination with well-placed cab pillars and large rear-view mirrors, it offers exceptional visibility all around the machine. Excellent visibility means less operator fatigue, higher productivity and a safe work area.

Well-placed and user-friendly controls, ergonomic operator’s seat, tilt-telescopic steering wheel and an effective climate control system all contribute to maintaining high operator efficiency and long-term high productivity.

**Clear information**

The user-friendly operator’s communication system provides simple and easy-to-understand information. The system registers and saves operating information during the work cycle. All information is displayed in order of importance. The reliable communication system helps to make maximum production possible, even in severe operating conditions.

**Practical interior**

The cab’s interior is characterized by excellent practical and ergonomic solutions, and it’s easy to keep clean.

When lowered, the instructor’s seat becomes a table, next to a convenient 24 volt outlet. There is plenty of storage space for a lunchbox or cooler. To keep the floor clear, the hauler is equipped with several storage compartments, inside and outside the cab.

**Optional equipment**

If you want to enhance the operator’s environment further, there is a wide range of optional equipment, from sun visors and air conditioning to a rear vision system.

The three-point suspension allows the operator to sit straight and comfortably, even when operating over rough ground and uneven surfaces.
Electronic engine control
Volvo haulers are equipped with turbo-charged high-performance low-emission diesel engines, featuring electronically controlled injection and intercooler. Cooling is thermostat controlled, with a variable speed fan that only runs when there's a cooling demand, which means optimal use of power and lower fuel consumption.

The engine is electronically controlled by the machine’s advanced electronic system. Downtime for service is minimized and uptime is maximized for high productivity.

Optimal shifting quality
Volvo’s automatic planetary transmission, Powertronic, gives high shifting quality. The transmission has been designed so that shifting takes place at the right time to optimize rimpull and fuel economy and to extend drivetrain life. The dropbox is also optimized for the hauler concept, giving high ground clearance under the hitch. Transmission cooling is controlled by need.

Power – when and where it's needed
Volvo’s haulers offer superior flexibility. On good haul roads, you can select 6x4 drive, which reduces tire wear and fuel consumption since fewer drive components are engaged. Only Volvo gives operators the option of selecting 6x4 drive.

When operating in rough conditions, you can select 6x6 drive – and 100% differential locks on one or all axles. Volvo’s drive combinations and 100% differential locks have been field-proven for years and are extremely reliable. The operator can engage and disengage different drive combinations on the move. This is a distinct and important advantage, especially when ground conditions change, as they often do, between the haul road and the dumping site. We also equip our haulers with various tire options for different applications.

Rimpull when shifting

The electronically controlled transmission allows the Volvo haulers to maintain high and constant speed during shifting.
Brakes and retarder
— increase productivity and reduce costs

Volvo haulers have service brakes on all wheels, and are not dependent on drivetrain components during braking. A40D is equipped with fully sealed, oil-cooled wet disc brakes, while the other hauler models are equipped with dry disc brakes. Fully sealed wet brakes are available as optional equipment for the A35D. The brake system has two separate circuits. If the pressure in both circuits should fail at the same time, the automatic emergency brake function is activated through application of the parking brake.

User-friendly retardation system
All Volvo haulers have a hydraulic retarder integrated in the transmission.

The retarder’s quick response and good sustained braking action makes it easier for the operator to run the hauler with optimum average speed throughout the cycle, at the same time reducing wear on the service brakes.

The foot-operated system is a user-friendly and effective alternative, allowing the operator to keep both hands on the steering wheel.

In the A35D and A40D, the retarder works together with a Volvo-patented engine brake: VEB (Volvo Engine Brake). The A25D and A30D are equipped with an exhaust retarder.

Unique Load & Dump brake
The new generation of Volvo’s articulated haulers feature the new and Volvo-patented load and dump brake. With a simple press of a button, the transmission is shifted to neutral and all load unit service brakes are activated.

The brakes are released automatically when the gearshift control lever is moved past the neutral position once again.
The steering, drivetrain, frame components and the machine’s centers of gravity are designed to work together. The combination allows our haulers to operate with high stability and control at high average speeds, even on long and difficult haul routes. The high ground clearance, the robust steel construction of the underbody and skid plates, as well as excellent bogie movement mean that our haulers can handle the roughest and hardest-to-reach loading and dumping sites. The frame design of the previous hauler generation has been improved with bearings of new design that minimize or eliminate lubrication needs.

**Heavy-duty suspension**

All axles have a maintenance-free three-point suspension. Three-point suspension makes it possible for each axle to move independently in rough operating conditions, which gives less stress on the frame, optimal ground contact and rimpull while the body remains level.

The well-functioning, reliable and proven design with rubber springs and shock absorbers provide very good operator comfort.

Volvo’s proven bogie system, well-known for its reliability and long suspension stroke, is at work under the load unit. The bogie system is centered around a heavy-duty bogie member rubber bushing.

**Rugged frame**

The underside of the machine has no fragile plastic parts or exposed joints. It’s made of steel right through. All components are well-protected either above or in the frame construction.
Body and dump system
– For faster dumping

The Volvo hauler’s exceptional capacities for steering, maneuvering and mobility make it easy to get the hauler into the right position for loading. It’s easy to load the body. Its shape promotes even distribution of the load regardless of loading tool. The load body is a rugged flat plate design made of impact-resistant high-strength steel. The front has a spill guard that effectively protects the frame joint components from material spills. The load body chute has the right length and angle to prevent spills, for example, when hauling uphill. The dumping system has all the needed power, even for dumping up a steep slope.

High-efficiency dumping
When dumping, the shape of the load body promotes release of the load and ensures that it ejects far beyond the rear wheels. The machine’s high ground clearance, high placement of the dump hinge and the shape of the load body make it possible to run the machine forward with the body up, without displacing the dumped material or contact with the dump edge when dumping over an edge. The need for dozers on the dumping site is minimized.

The new dumping hydraulics with higher pressure and greater oil flow have reduced dumping times. The two powerful double-acting hoist cylinders quickly lift and lower a full load with optimal control.

Optional equipment
The load body can be adapted to different materials with optional equipment such as tailgates, body side extensions, body heating and extra front spill guard.
Service and maintenance
– For higher availability

The new haulers have stepped into the future, where the demand for minimized service and reduced service downtime is becoming more important. When you operate Volvo haulers, the daily service requirements are reduced by using monitored oil and fluid level checks as well as new advanced types of bearings. We have succeeded in reducing the service needs to a low level.

Coordination advantages
At pace with the ever-increasing environmental requirements, electronics are making their way into the machines – and we’ve used that to the greatest extent.

By coordinating electronic development for the machines, we have attained several advantages: Volvo has one system, whereas others are forced to handle and maintain several different systems. Volvo’s system can read off various machine data, which allows direct analyses of machine operation and quick diagnostics. Performance of Volvo haulers is optimized due to communication between components.

Since other Volvo CE products and Volvo trucks also use these systems, component coordination and experience are great advantages.

Easy access for service – high serviceability
Volvo haulers feature new and practical solutions, like the easily accessed filters and better accessibility around the engine. These are just a couple of all the improvements we’ve introduced to make the Volvo D-series the world’s most service-friendly hauler!

Required service points have good access, and servicing is easy from conveniently located service platforms or from the ground level. Slip-resistant material around the cab and handrails along the cab roof facilitate work, such as washing windshields and side windows.

Spare parts and service contracts
Volvo is the frontrunner when it comes to worldwide service. One of the great challenges we face is training mechanics and supporting them with an organization for quick distribution of spare parts.

At Volvo, we put considerable effort and work into coordinating components between the different machine types, all to minimize the amount of parts.

We also offer special tools as well as service and support contracts.
The A25D – A30D in detail

Service
The computerized information system monitors all fluid levels, minimizing daily and weekly service times. Time to next service and the status of vital vehicle systems is shown to the operator on a display in the instrument panel.

Service accessibility: Fold-down front grill with access ladder to remote filter bank, located in front of engine. Large, 90° opening hood for total engine access. Remote drain hoses and swing-out radiator for easy cleaning.

Fill capacities

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<th>Component</th>
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<tr>
<td>A30D</td>
<td>175 l</td>
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</table>

Engine

Volvo inline 6-cylinder, direct injected weletronically controlled, turbocharged, intercooled 4-stroke low-emission diesel engine with wet cylinder liners.

Fan: Hydrostatically driven, thermostatically controlled variable speed radiator fan consuming power only when needed.

Engine brake: Exhaust retarder.

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 waterproofing as necessary.

Voltage........................................ 24 V
Battery capacity............................ 2 x 170 Ah
Alternator................................. 2.24 kW (305 hp)
Starter motor.................................. 7 kW (9.4 hp)

Brake system

Dual circuit system with air-hydraulic disc brakes. Meets ISO 3450 and SAE J1473 at total machine weight.

Service brakes: Dry discs on all wheels.

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 up to 18%.

When the parking brake is applied, the longitudinal differential is locked.

Compressor: Gear-driven by engine transmission.

Retarder: Hydraulic, infinitely variable, integrated in transmission. Total retarding capability including transmission retarder and exhaust retarder, see graph.

Steering system

Hydromechanical self-compensating articulated steering for safe and accurate high speed hauling. Fast acting, low effort steering with 3,4 turns lock-to-lock for slow speed maneuverability.

Cylinders: Two double-acting steering cylinders.

Supplementary steering: Complies with ISO 5010 at total machine weight.

Steering angle: ±45°

Suspension

Volvo’s unique maintenance-free 3-point suspension system. The axles are suspended at three points, which results in independent movement needed in rough terrain.

Front axle: One hollow rubber spring on each side. A cross stay provides the stability. Two shock absorbers on each side.

Bogie: Volvo’s unique terrain bogie permits long suspension travel and independent wheel movement, keeps the body level, retaining the load.

Transmission

Fully automatic planetary transmission with six forward gears and two reverse gears, with a built-in variable hydraulic retarder.

Drivetrain

Volvo components, specifically designed for hauler applications.

Torque converter: Single-stage with free-wheeling stator and automatic lock-up on all gears.

Transmission: Fully automatic planetary transmission with six forward gears and two reverse gears, with a built-in variable hydraulic retarder.

Dropbox: Volvo design, single-stage.

Axles: Volvo design with fully floating axle shafts and planetary type hub reductions.

Differential locks: One longitudinal and three transverse with 100% lock-up function, operator selectable on the move.

Configuration: 6x4 or 6x6 drive, operator selectable on the move.

A25D & A30D

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<th>Parameter</th>
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Speed

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<td>13</td>
<td>13</td>
<td>13</td>
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</table>
Hydraulic system
Load-sensing variable displacement piston pumps consume power only when needed.

| Pumps | Engine-driven variable displacement load-sensing piston pumps driven by the flywheel PTO. One ground-dependent piston pump for secondary steering mounted on the dropbox.

Filter: One fibreglass filter with magnetic core.

Pump capacity per pump:
Engine-dependent: 101 l/min, Ground-dependent: 43 l/min at shaft speed of 52.5 r/s (3 150 r/min).
Working pressure: 25 MPa

Body
Load and dump brake: With the engine running, the service brakes on the rear axle are applied and transmission is shifted to neutral.

Body material: Hardened and tempered steel body, flat plate design made of high-strength steel.

<table>
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<tr>
<th>Tires</th>
<th>A25D</th>
<th>A30D</th>
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<tbody>
<tr>
<td>Front</td>
<td>12 160 kg</td>
<td>12 500 kg</td>
</tr>
<tr>
<td>Rear</td>
<td>10 560 kg</td>
<td>11 560 kg</td>
</tr>
<tr>
<td>Total</td>
<td>21 560 kg</td>
<td>23 060 kg</td>
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</table>

Payload:
Front: 12 160 kg, Rear: 10 560 kg, Total: 21 560 kg

Payload:
Front: 14 140 kg, Rear: 31 420 kg, Total: 45 560 kg

Operating weight:
Unloaded:
Front: 12 160 kg, Rear: 10 560 kg, Total: 21 560 kg

Total weight:
Front: 14 140 kg, Rear: 31 420 kg, Total: 45 560 kg

Load Capacity
Body volume according to SAE 2:1

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<tr>
<td>23,5R25</td>
<td>750/65R25</td>
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<tr>
<td>Front</td>
<td>123 kPa</td>
<td>101 kPa</td>
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<tr>
<td>Rear</td>
<td>48 kPa</td>
<td>43 kPa</td>
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<tr>
<td>Total</td>
<td>144 kPa</td>
<td>121 kPa</td>
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</table>

Operating weight includes all fluids and operator. At 15% sinkage of unloaded radius and specified weights.

Heating and defrosting:
Filtered fresh air, four-speed fan and pressurized cab to maintain a clean operating environment. Multi-level air outlets and separate defroster vents for all windows.

Operator's seat:
Adjustable operator's seat with flameproof upholstery. Retractable seat belt.

Sound level in cab, ISO 6396 74 dB (A)

Cab


Heater and defroster:
Filtered fresh air, four-speed fan and pressurized cab to maintain a clean operating environment. Multi-level air outlets and separate defroster vents for all windows.

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Front: 14 140 kg, Rear: 31 420 kg, Total: 45 560 kg

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### Specifications A25D – A30D

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</table>

A25D: Unloaded machine with 23.5R25 tires
A30D: Unloaded machine with 750/65R25 tires
* A30D with optional 23.5R25 tires
# STANDARD EQUIPMENT A25D – A30D

### Safety
- ROPS/FOPS protected cab
- Service platform for ease of service
- Anti-slip material on hood and fenders
- Hazard lights
- Horn
- Protective grille for rear window
- Rear-view mirrors
- Retractable 9-inch safety belt
- Secondary steering
- Steering joint locking assembly
- Dump body lock
- Windshield wipers with interval function
- Windshield washers

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

### Operator information interface
- Gauges:
  - Speedometer
  - Tachometer
  - Brake pressure
  - Fuel
  - Transmission oil temperature
- Pilot lights for all switches
- Warning lights grouped and easy to read
- Central warning (3 levels) for all vital functions
- Central positioned information display:
  - Automatic pre-start checks
  - Operation information, easy-to-find menu
  - Troubleshooting diagnostics
  - Hour meter
  - Clock
  - Machine settings

### Drivetrain
- Automatic transmission
- Torque converter with automatic lock-up
- Dropbox, single-stage
- Hydraulic variable retarder
- 6x4 or 6x6 operator selectable drive modes
- 100% longitudinal differential lock
- 100% differential locks in all axles

### Brakes
- Air-hydraulic disc brakes
- Two circuit brake system
- Parking brake on prop shaft

### Body
- Body prepared for exhaust heating
- Load and Dump brake

### Tires
- A25D: 23.5R25
- A30D: 750/65R25

### Other
- Air drier

---

# OPTIONAL EQUIPMENT A25D – A30D
(Standard on certain markets)

### Safety
- Fire extinguisher and first aid kit

### Service and maintenance
- Tool kit with tire inflation unit
- Electrical hood opening

### Engine
- Extra air cleaner, heavy-duty
- Electric engine heater (120V or 240V)
- External emergency engine stop
- Delayed engine stop

### Electrical
- Work lights, roof mounted
- Work lights, rear-facing, fender-mounted
- Rotating beacon, collapsible mount
- Back-up alarm
- Rear vision system
- Anti-theft system (prevents engine start)
- Headlights for left-hand traffic

### Cab
- Air suspended, electrically heated operator’s seat
- Electrically heated rear-view mirrors
- Air conditioning
- Radio installation kit
- Cable kit for cab heater (120V or 240V)
- Window tint film

### Body
- Body exhaust heating kit

### A25D
- Underhung tailgate, link operated
- Overhung tailgate, link operated (only in combination with underhung gate)
- Overhung tailgate, wire operated

### A30D
- Underhung tailgate, link operated
- Overhung tailgate, wire operated
- Wear plates
- Extra front spillguard
- Upper side extension, 200 mm

---

*Under our policy of continual product 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.*
The A35D – 40D in detail

**Service**

The computerized information system monitors all fluid levels, minimizing daily and weekly service times. Time to next service and the status of vital vehicle systems is shown to the operator on a display in the instrument panel.

**Service accessibility:** Fold-down front grill with access ladder to remote filter bank, located in front of engine. Large, 90° opening hood for total engine access. Remote drain hoses and swing-out radiator for easy cleaning.

**Fill capacities**

<table>
<thead>
<tr>
<th></th>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crankcase</td>
<td>50 l</td>
<td>50 l</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>48 l</td>
<td>48 l</td>
</tr>
<tr>
<td>Cooling system</td>
<td>117 l</td>
<td>117 l</td>
</tr>
<tr>
<td>Transmission total</td>
<td>48.5 l</td>
<td>48.5 l</td>
</tr>
<tr>
<td>Dropbox</td>
<td>10.5 l</td>
<td>10.5 l</td>
</tr>
<tr>
<td>Per axle</td>
<td>48 l</td>
<td>55 l</td>
</tr>
<tr>
<td>Brake cooling tank</td>
<td>100 l</td>
<td>100 l</td>
</tr>
<tr>
<td>Hydraulic tank</td>
<td>250 l</td>
<td>250 l</td>
</tr>
</tbody>
</table>

**Engine**

Volvo inline 6-cylinder, direct injected electronically controlled, turbocharged, intercooled 4-stroke low-emission diesel engine with wet replaceable cylinder liners.

**Fan:** Hydrostatically driven, thermostatically controlled variable speed radiator fan consuming power only when needed.

**Engine brake:** VEB (Volvo Engine Brake) includes compression and exhaust brake.

**A35D**

<table>
<thead>
<tr>
<th>Make, model</th>
<th>Volvo D12C AAE2*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max power at</td>
<td>30 r/min (1 800 r/min)</td>
</tr>
<tr>
<td>SAE J1995 Gross</td>
<td>289 kW (393 hp)</td>
</tr>
<tr>
<td>Flywheel power at</td>
<td>30 r/min (1 800 r/min)</td>
</tr>
<tr>
<td>SAE J1349 Net, DIN 6271***</td>
<td>285 kW (388 hp)</td>
</tr>
<tr>
<td>Max torque at</td>
<td>20 r/min (1 200 r/min)</td>
</tr>
<tr>
<td>SAE J1995 Gross</td>
<td>1 950 Nm</td>
</tr>
<tr>
<td>SAE J1349 Net, DIN 6271***</td>
<td>1 915 Nm</td>
</tr>
<tr>
<td>Displacement total</td>
<td>1 210 l</td>
</tr>
</tbody>
</table>

**A40D**

<table>
<thead>
<tr>
<th>Make, model</th>
<th>Volvo D12C ACE2**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max power at</td>
<td>30 r/min (1 800 r/min)</td>
</tr>
<tr>
<td>SAE J1995 Gross</td>
<td>313 kW (426 hp)</td>
</tr>
<tr>
<td>Flywheel power at</td>
<td>30 r/min (1 800 r/min)</td>
</tr>
<tr>
<td>SAE J1349 Net, DIN 6271***</td>
<td>309 kW (420 hp)</td>
</tr>
<tr>
<td>Max torque at</td>
<td>20 r/min (1 200 r/min)</td>
</tr>
<tr>
<td>SAE J1995 Gross</td>
<td>2 100 Nm</td>
</tr>
<tr>
<td>SAE J1349 Net, DIN 6271***</td>
<td>2 056 Nm</td>
</tr>
<tr>
<td>Displacement total</td>
<td>1 210 l</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 waterproofing as necessary.

**Voltage** 24 V
**Battery capacity** 2x170 Ah
**Alternator** 1,54 kW (55 A)
**Starter motor** 7,2 kW (10 hp)

**Drivetrain**

Volvo components, specifically designed for hauler applications.

**Torque converter:** Single-stage with freewheeling stator and automatic lock-up on all gears.

**Transmission:** Electronically controlled, fully automatic planetary transmission with six forward gears and two reverse gears, with an integral variable hydraulic retarder.

**Dropbox:** Volvo design with high and low function, power take-off and differential with 100% lock-up function. Separate dropbox oil cooling.

**A40D:** Automatic upshift low range to high range in 6th gear.

**Axles:** Volvo design with fully floating axle shafts and planetary type hub reductions.

**Differential locks:** One longitudinal and three transverse with 100% lock-up function, operator selectable on the move.

**Configuration:** 6x4 or 6x6 drive, operator selectable on the move.

**A35D**

<table>
<thead>
<tr>
<th>Make, model</th>
<th>Volvo D12C AAE2*</th>
<th>Volvo D12C ACE2**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque converter</td>
<td>1,95:1</td>
<td>1,95:1</td>
</tr>
<tr>
<td>Transmission, Volvo</td>
<td>PT 1862</td>
<td>PT 1862</td>
</tr>
<tr>
<td>Dropout, Volvo</td>
<td>FL 992</td>
<td>FL 1002</td>
</tr>
<tr>
<td>Axles, Volvo</td>
<td>AH 64</td>
<td>AHW 71</td>
</tr>
</tbody>
</table>

**A40D**

<table>
<thead>
<tr>
<th>Make, model</th>
<th>Volvo D12C ACE2**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque converter</td>
<td>1,95:1</td>
</tr>
<tr>
<td>Transmission, Volvo</td>
<td>PT 1862</td>
</tr>
<tr>
<td>Dropout, Volvo</td>
<td>FL 1002</td>
</tr>
<tr>
<td>Axles, Volvo</td>
<td>AHW 71</td>
</tr>
</tbody>
</table>

**Speed:**

<table>
<thead>
<tr>
<th>Low gear forward</th>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 km/h</td>
<td>6 km/h</td>
</tr>
<tr>
<td>2</td>
<td>8 km/h</td>
<td>9 km/h</td>
</tr>
<tr>
<td>3</td>
<td>15 km/h</td>
<td>16 km/h</td>
</tr>
<tr>
<td>4</td>
<td>21 km/h</td>
<td>24 km/h</td>
</tr>
<tr>
<td>5</td>
<td>27 km/h</td>
<td>31 km/h</td>
</tr>
<tr>
<td>6</td>
<td>35 km/h</td>
<td>41 km/h</td>
</tr>
</tbody>
</table>

**High gear forward**

<table>
<thead>
<tr>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9 km/h</td>
</tr>
<tr>
<td>2</td>
<td>13 km/h</td>
</tr>
<tr>
<td>3</td>
<td>13 km/h</td>
</tr>
<tr>
<td>4</td>
<td>34 km/h</td>
</tr>
<tr>
<td>5</td>
<td>43 km/h</td>
</tr>
<tr>
<td>6</td>
<td>56 km/h</td>
</tr>
</tbody>
</table>

**Low gear reverse**

<table>
<thead>
<tr>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5 km/h</td>
</tr>
<tr>
<td>2</td>
<td>9 km/h</td>
</tr>
</tbody>
</table>

**High gear reverse**

<table>
<thead>
<tr>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8 km/h</td>
</tr>
<tr>
<td>2</td>
<td>14 km/h</td>
</tr>
</tbody>
</table>

**Brake system**

**A35D**


**Service brakes:** Dry discs on all wheels.

**A40D**

Fully hydraulic brakes with enclosed, forced oil-cooled multiple discs on all axles. Two circuits. Separate brake cooling for each axle. Meets ISO 3450 and SAE J1473 at total machine weight.

**Service brakes:** Wet multiple disc brakes on all wheels.

**Circuit division:** One circuit for front axle and one for bogie axles.
### Weights
Operating weight includes all fluids and operator

<table>
<thead>
<tr>
<th>Tires</th>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td>26,5R25*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29,5R25**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ground Pressure
At 15% sinkage of unloaded radius and specified weights.

<table>
<thead>
<tr>
<th>Tires</th>
<th>26,5R25</th>
<th>775/65R29</th>
<th>29,5R29</th>
<th>875/65R29</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>Unloaded</td>
<td>128 kPa</td>
<td>110 kPa</td>
<td>115 kPa</td>
</tr>
<tr>
<td>Rear</td>
<td>54 kPa</td>
<td>46 kPa</td>
<td>53 kPa</td>
<td>47 kPa</td>
</tr>
<tr>
<td>Total</td>
<td>28 300 kg</td>
<td>31 270 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payload</td>
<td>32 500 kg</td>
<td>37 000 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total weight</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>17 770 kg</td>
<td>19 170 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear</td>
<td>43 030 kg</td>
<td>49 100 kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>60 800 kg</td>
<td>68 270 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*) A35D with tires 775/65R29, add 200 kg/ axle
**) A40D with tires 875/65R29, add 300 kg/ axle

### Load Capacity
Body volume according to SAE 2:1

<table>
<thead>
<tr>
<th>Tires</th>
<th>A35D</th>
<th>A40D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Parking brake: Spring-applied disc brake on the propeller shaft, designed to hold a loaded machine on a grade up to 18%. When the parking brake is applied, the longitudinal differential is locked.

Compressor: Gear-driven by engine transmission.

Retarder: Hydraulic, infinitely variable, integrated in transmission. Total retarding capability including transmission retarder and exhaust retarder, see graph.

Volvo Engine Brake: Standard. Operator selectable application together with service brakes or when accelerator pedal is released. Always engaged together with retarder. Total retarding capability including transmission retarder and engine brake, VEB, see graph.

Steering system
Hydromechanical self-compensating articulated steering for safe and accurate high-speed maneuverability.

Cylinders: Two double-acting steering cylinders.

Secondary steering: Meets ISO 5010 at total machine weight.

Steering angle: ±45°

Suspension
Volvo’s unique maintenance-free 3-point suspension system. The axles are suspended at three points, which results in independent movement needed in rough terrain.

Front axle: The front suspension consists of one rubber spring, a stabilizer and three shock absorbers on each side.

Bogie: Volvo’s unique terrain bogie permits long suspension travel and independent wheel movement, keeps the body level, retaining the load.

Cab


Heater and defroster: Filtered fresh air, four-speed fan and pressurized cab to maintain a clean operating environment. Multi-level air outlets and separate defroster vents for all windows.

Operator’s seat: Fully adjustable, mechanically or air suspended operator’s seat with flameproof upholstery. Retractable seat belt.

Train seat: Standard, with seat belt and back rest.

Sound level in cab: ISO 6396 ... 72 dB (A) at max. speed.................. 76 dB (A)

Hydraulic system
Load-sensing variable displacement piston pumps consume power only when needed.

Pumps: Six engine-driven, variable displacement, load-sensing piston pumps driven by the flywheel PTO. One ground-dependent piston pump for secondary steering mounted on the dropbox.

Filtration: Through two glass fibre glass with magnetic cores.

Pump capacity per pump:
Engine-dependent........................................ 143 l/min
Ground-dependent....................................... 202 l/min
at shaft speed................................. 47,5 r/s (2 850 r/min)
Working pressure................................... 25 MPa

Body
Load and dump brake: With the engine running, the service brakes on bogie axles are applied and transmission is shifted to neutral.

Body material: Hardened and tempered steel body, flat plate design made of high-strength steel.

Front................................................. 8 mm
Sides................................................. 12 mm
Bottom/ Chute..................................... 16 mm
Yield strength ................................. 1 000 N/mm²
Tensile strength................................. 1 250 N/mm²
Hardness........................................... 400 HB

Dump Cylinders: Two single-stage double-acting cylinders.

Tipping angle.......................... 70°
Tipping time with load...................... 12 s
Lowering time................................. 10 s
## Specifications A35D – A40D

<table>
<thead>
<tr>
<th>Pos</th>
<th>Metric (mm)</th>
<th>Imperial (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A35D</td>
<td>A40D</td>
</tr>
</tbody>
</table>
| A   | 11 178 | 11 287 | 36'8" | 37'0"
| A₁  | 6 224  | 6 428  | 20'5" | 21'1"
| B   | 5 527  | 5 730  | 18'2" | 18'10"
| C   | 3 681  | 3 746  | 12'1" | 12'3"
| C₁  | 3 560  | 3 626  | 11'8" | 11'11"
| C₂  | 1 768  | 1 768  | 5'10" | 5'10"
| C₃  | 3 887  | 4 093  | 13'1" | 13'5"
| D   | 3 103  | 3 103  | 10'2" | 10'2"
| E   | 1 275  | 1 275  | 4'2"  | 4'2"
| F   | 5 001  | 4 448  | 14'9" | 14'7"
| G   | 1 620  | 1 940  | 6'0"  | 6'4"
| H   | 1 754  | 1 796  | 5'9"  | 5'11"
| I   | 725    | 638    | 2'5"  | 2'1"
| J   | 2 912  | 3 075  | 9'7"  | 10'1"
| K   | 2 302  | 2 492  | 7'7"  | 8'2"
| L   | 915    | 906    | 3'0"  | 3'0"
| M   | 7 242  | 7 384  | 23'9" | 24'3"
| N   | 8 720  | 8 863  | 28'7" | 29'1"
| N₁  | 4 397  | 4 238  | 14'5" | 13'11"
| O   | 3 103  | 3 288  | 10'2" | 10'9"
| P   | 2 870  | 3 078  | 9'5"  | 10'1"
| R   | 584    | 654    | 1'11" | 2'2"
| R₁  | 670    | 751    | 2'2"  | 2'6"
| U   | 3 528  | 3 590  | 11'7" | 11'9"
| V   | 2 515  | 2 636  | 8'3"  | 8'8"
| V₁  | 2 625  | 8'7"   | ----- | ----- |
| W   | 3 208  | 3 432  | 10'6" | 11'3"
| W₁²  | 3 410 | 3 570 | 11'2" | 11'9"
| X   | 572    | 617    | 1'11" | 2'2"
| X₁  | 606    | 639    | 1'0"  | 2'1"
| X₂  | 720    | 765    | 2'4"  | 2'6"
| Y   | 2 515  | 2 636  | 8'3"  | 8'8"
| Y₁  | 2 625  | 8'7"   | ----- | ----- |
| Z   | 3 208  | 3 432  | 10'6" | 11'3"
| Z₁²  | 3 410 | 3 570 | 11'2" | 11'9"
| a₁  | 23°   | 25°    | 23°   | 25°   |
| a₂  | 70°   | 70°    | 70°   | 70°   |
| a₃  | 45°   | 45°    | 45°   | 45°   |

A35D: Unloaded machine with 26,5R25
A40D: Unloaded machine with 29,5R29
* A35D with optional 775/65R29 tires
** A40D with optional 875/65R29 tires
### STANDARD EQUIPMENT A35D – A40D

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safety</strong></td>
<td>ROPS/FOPS cab</td>
</tr>
<tr>
<td></td>
<td>Anti-slip material on fenders and hood</td>
</tr>
<tr>
<td></td>
<td>Dump body lock</td>
</tr>
<tr>
<td></td>
<td>Hazard flashers</td>
</tr>
<tr>
<td></td>
<td>Handrails on fenders</td>
</tr>
<tr>
<td></td>
<td>Horn</td>
</tr>
<tr>
<td></td>
<td>Protective grille for rear window</td>
</tr>
<tr>
<td></td>
<td>Rear-view mirrors</td>
</tr>
<tr>
<td></td>
<td>Retractable 9-inch wide side belt</td>
</tr>
<tr>
<td></td>
<td>Secondary steering</td>
</tr>
<tr>
<td></td>
<td>Service platform for ease of service</td>
</tr>
<tr>
<td></td>
<td>Steering joint locking assembly</td>
</tr>
<tr>
<td></td>
<td>Windshield wipers with interval function</td>
</tr>
<tr>
<td></td>
<td>Windshield washers</td>
</tr>
</tbody>
</table>

### Electrical system
- Alternator
- Battery disconnect switch
- Electrical outlets, 24V in cab
- Headlights, main/dipped
- Parking lights
- Direction indicators
- Rear lights
- Back-up lights
- Brake lights
- Cab lighting
- Instrument lighting
- Control panel lighting
- Pilot lights for all switches

### Operator information interface
- Gauges:
  - Speedometer
  - Tachometer
  - Brake pressure
  - Fuel
  - Transmission oil temperature
- Warning lights grouped and easy to read
- Central warning (3 levels) for all vital functions

### Drivetrain
- Automatic transmission, electronically controlled
- Torque converter with automatic lock-up
- Variable hydraulic transmission retarder
- Dropbox with high/flow range
- 6x4 or 6x6 operator selectable drive modes
- 100% longitudinal differential lock
- 100% differential locks in all axles

### Brakes
- **A35D**
  - Two circuit, fully hydraulic disc brakes on all axles.
- **A40D**
  - Two circuit, fully hydraulic brakes with enclosed, forced oil-cooled multiple discs on all axles.
  - Separate brake cooling for each axle.

### Body
- Body prepared for exhaust heating
- Load and Dump brake

### Cab
- Heated, mechanically or air suspended, fully adjustable operator’s seat
- Air conditioning
- Armrests
- Head restraint
- Cable kit for cab heater (120V or 240V)
- Electrically heated rear-view mirrors
- Radiol installation kit
- Radio
- Window tint film, side windows

### Brakes
- **A35D**: Fully hydraulic, forced oil-cooled wet disc brakes
- Brake guards

### Tires
- **A35D**: 775/65R29
- **A40D**: 875/65R29

### External
- A40D: Mudguard wideners (for 875/65R29 tires)
- Rear mudflaps

### Other
- Synthetic hydraulic oil (biologically degradable)
- Arctic oil kit

### OPTIONAL EQUIPMENT A35D – A40D
(Standard on certain markets)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safety</strong></td>
<td>Fire-extinguisher and first aid kit</td>
</tr>
<tr>
<td></td>
<td>Tool kit with tire inflation unit</td>
</tr>
<tr>
<td></td>
<td>Electrical hood opening</td>
</tr>
<tr>
<td></td>
<td>Extra air cleaner, heavy-duty</td>
</tr>
<tr>
<td></td>
<td>Engine coolant pre-heater (120 V or 240 V)</td>
</tr>
<tr>
<td></td>
<td>Exterior emergency stop</td>
</tr>
<tr>
<td></td>
<td>Delayed engine stop</td>
</tr>
<tr>
<td></td>
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### Electrical
- Work lights, roof-mounted
- Work lights, rear-facing, fender-mounted
- Rotating beacon, collapsible mount
- Back-up alarm
- Rear vision system
- Anti-theft system (prevents engine start)
- Headlights for left-hand traffic

### Tires
- **A35D**: 775/65R29
- **A40D**: 875/65R29

### External
- A40D: Mudguard wideners (for 875/65R29 tires)
- Rear mudflaps

### Other
- Synthetic hydraulic oil (biologically degradable)
- Arctic oil kit
Technology on Human Terms

Volvo Construction Equipment is one of the world’s leading manufacturers of construction machines, with a product range encompassing wheel loaders, excavators, articulated haulers, motor graders and more.

The tasks they face vary considerably, but they all share one vital feature: technology which helps man to perform better: safely, efficiently and with care of the environment. We refer to it as Technology on Human Terms.

The sheer width of the product range means it is always possible to choose exactly the right machine and attachment for the job. Each machine also comes with the quality, continuity and security which is represented by the Volvo name. The strength of the service and parts organizations; the security of always having immediate access to leading-edge research and technical development are part of the Volvo name. A machine from Volvo meets the very highest demands in all kinds of jobs, under all conditions, the world over.

Volvo Construction Equipment develops, manufactures and markets construction equipment. We are a Volvo company with production facilities on four continents and a market presence in over 100 countries.

For more information please visit our website: www_volvo.com

All products are not available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice. The illustrations do not necessarily show the standard version of the machine.