VOLVO ARTICULATED HAULERS

A35Efs, A40Efs



MORE CARE. BUILT IN.



INNOVATION IS A VOLVO TRADITION

With the world's first hydraulic full suspension articulated haulers – A35E FS and A40E FS – Volvo makes yet another historic advance in development of the articulated hauler concept. The haulers in the FS-series (Full Suspension) combine maneuverability with high speed and comfort in a way few thought possible. Volvo made it possible.

It's no surprise that every other articulated hauler manufactured in the world today is a Volvo. We created the hauler concept in the 1960s, and since then, we've stayed ahead using the motto: being the first, keeping the lead.

World-class performance

Productivity and comfort get a whole new meaning with an FS-hauler. Imagine what it would mean for productivity if your hauler could run at highest speed, both loaded and empty, even where haul routes are very rough. Imagine what it would mean to operator comfort and effectiveness to work in a hauler with a minimum of vibrations. No, it's no longer just wishful thinking – the A35E FS and A40E FS are already here.

Matched drivetrain

As the world's biggest and leading manufacturer of engines for heavy equipment, Volvo has an unbeatable advantage. With in-house developed drivetrains – designed for the tough demands on articulated haulers – the A35E FS and A40E FS have the strength and durability needed for maximal productivity.

A partner to trust

Choosing an articulated hauler from Volvo gives you both a machine and a partner you can trust. Volvo A35E FS and Volvo A40E FS are two of the most reliable machines on the market. Volvo Construction Equipment's global dealer network and well-trained service technicians means always having a dedicated partner near yourself and your operation. This means peace-of-mind ownership, and you always have a machine that gives higher profitability and productivity.

Specifications	A35E FS		A40E FS	
Engine, Volvo	D12D AEE3*/A	FE3**	D16E AAE3*/A	BE3**
Max power at	30 r/s	1 800 r/min	30 r/s	1 800 r/min
SAE J1995 Gross	313 kW	419 hp	350 kW	469 hp
ISO 9249, SAE J1349	309 kW	414 hp	346 kW	464 hp
Max torque at	20 r/s	1 200 r/min	20 r/s	1 200 r/min
SAE J1995 Gross	2 100 Nm	1 549 lb ft	2 525 Nm	1862 lb ft
ISO 9249, SAE J1349	2 056 Nm	1 547 lb ft	2 493 Nm	1837 lb ft
Max. Speed	57 km/h	35.4 mph	57 km/h	35.4 mph
Load Capacity	33 500kg	37 sh tn	39 000 kg	43 sh tn
SAE 2:1 heap	20,5 m ³	26.8 yd ³	$24,0 \text{ m}^3$	31.4 yd^3
Net weight	28 500 kg	62 832 lb	30 600 kg	67 461 lb
Gross weight	62 000 ka	135 805 lb	69 600 ka	153 442 lb

^{*)} Meets US (EPA) Tier 3, California (CARB) Tier 3 and Europe (EU) Stage III.



^{**)} Meets Europe (EU) Stage IIIA



PROFIT FROM OUR EXPERIENCE

Throughout the years, Volvo's haulers have excelled at hauling different types of loads on rough off-road sites and in challenging ground conditions – without taking the long way around. Now, the A35E FS and A40E FS advances the articulated hauler concept. They get the job done quickly, smoothly, and cost-effectively, like all Volvo haulers – but a lot faster than any other hauler.

The unique FS-technology

Articulated haulers in the FS-series feature Volvo's unique Self-Compensating Hydraulic Full Suspension with automatic level and stability control. Instead of the traditional rubber suspension, there is a hydraulic cylinder installed at each wheel. The FS-system constantly monitors the load and ground conditions, and automatically adjusts level control to give a smooth and safe ride. This makes it possible to run the hauler, wether loaded or empty, at full speed, reducing bouncing and shaking.

Unique maneuverability

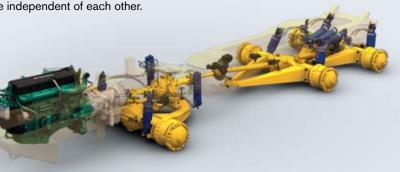
Where rigid haulers and trucks have to take the long way around or risk getting stuck, that's where the articulated hauler operates smoothly and safely, taking the shortest route between loading and dumping sites.

The unique maneuverability is due to the rotating hitch and the frame steering, making it possible for the tractor and trailer to move independent of each other. This reduces stresses on the frame in offroad operations and makes the machine easy to operate – even with a full load – since all the wheels have good ground contact.

Reliable in all applications

Throughout the years, the Volvo hauler concept has proven to be perfect for different types of earth-moving at major construction projects, such as road and dam construction. But the articulated hauler is also the optimal solution in many other applications, such as operations in sand and gravel pits, rock quarries, mines, tunnel construction, and on landfill sites, just to mention a few examples.

The common feature of all these work sites is that they often have demanding loading and dumping sites, large volumes have to be hauled, and often the work area has no roads – but still the vehicles must have the ability to maintain high speeds where there are roads.





Volvo Experience

Volvo invented the articulated hauler. The first production machine was in 1966 and the concept has been refined over 40 years of experience.

Volvo Innovation

The A35E FS and A40E FS significantly advances off-road hauling – increasing speeds through the toughest conditions; up to 35.4 mph (57 km/h) whether loaded or empty.

Articulated haulers in the FS-series feature Volvo's unique Self-Compensating Hydraulic Full Suspension with automatic level and stability control.

Volvo Reliability

Volvo Articulated Haulers are proven in different operating conditions to increase profitability and lower operating costs.







SPEED UP YOUR BUSINESS

Productivity increases are impressive with A35E FS and A40E FS on the work site. The FS-hauler enables the operator to run faster on rough haul roads, both loaded and empty, compared to traditional haulers. The longer the haul road, the clearer the advantages. The suspension also increases safety since the wheels have considerably improved ground contact. In addition, the need for road maintenance on the work site is greatly reduced.

More powerful engines

Volvo's new engines give A35E FS and A40E FS both more power and rimpull. The D12 and D16 engines feature Volvo Advanced Combustion Technology and get maximum energy from every drop of fuel. The turbocharged, low-emission diesel engines feature electronically-controlled direct-injection and intercooler.

Exact gearshifting with Powertronic

The proven and refined Powertronic, Volvo's automatic transmission, has given A35E FS and A40E FS even higher performance. Powertronic shifts smoothly at exactly the right time, giving high rimpull at all speeds. Shafts, planetary gears, and bearings are reinforced to handle higher torque, making the new transmission a perfect match for the new larger engines. New intelligent electronics allow for better and faster gear shifting with the possibility to skip gears in order to negotiate inclines and declines. The refined transmission provides more comfort and highest possible rimpull.

Minimum power losses

Volvo's in-line dropbox has less moving parts than a traditional dropbox, which means minimal power loss. The design enables high placement of the rear output shaft, giving high ground clearance, a high mounted hitch, and improved stability.

No daily service

There's no daily service needed for Volvo's haulers. Monitored checks of oil and fluid levels all add up to minimal service needs. Long intervals between every service mean more time for productive work.

Downtime during service is short, thanks to few service points and simple work. All filters are easy to access, the engine hood opens a full 90 degrees, and the swingdown front grill makes it easy to reach service points on the engine.

CareTrack provides remote monitoring of the machine's position, utilization and performance. With immediate availability of correct facts about your machines, you can analyze the situation shift by shift, and make decisions that result in higher productivity and shorter downtime.



Volvo D12 and D16 V-ACT Engine

Volvo's engines feature Volvo Advanced Combustion Technology, V-ACT, an emission-controlling solution based on simple yet proven technology.

Volvo's in-house engineered and manufactured engines provide for high power at low rpm for maximum fuel efficiency.

Vovlo's D12 and D16 engines meet all existing emission requirements according to Stage IIIA/Tier 3.

Volvo Heavy-Duty Transmission

Volvo planetary transmission features smooth shifting providing maximum rimpull at speeds.

Shafts, planetary gears and bearings are reinforced to handle higher torque.

Intelligent and fast gear shifting with gear skipping technology allows for proper rimpull when negotiating inclines and declines.

Maintenance and uptime

Electronic monitoring of fluid levels minimizes service needs and enhances reliability.

No daily service means more time for productive work.

Profitable flexibility

On good haul roads, the operator can choose 6x4-drive, to save tires and fuel – only Volvo haulers offer this choice. In rough off-road operation, the operator can choose 6x6-drive and 100% differential locks on one or all axles.







AT EASE, IN COMMAND

Operators can work effectively at a fast pace in the Volvo A35E FS and Volvo A40E FS, and stay sharp hour after hour. Several important features make the machine and operator a highly productive unit: the unique brake system, the effective retardation system, the powerful and exact dumping system, and the superior steering system.

Outstanding braking performance

Both A35E FS and A40E FS feature oilcooled wet disc brakes as standard, giving excellent and maintenance-free braking performance.

Safe retarder with fast response

The foot-operated retardation system is user-friendly, effective, and safe since the operator never has to let go of the steering wheel. The hydraulic retardation system is connected to the powerful wet disc brakes. The operator can maintain higher average speeds throughout the whole work cycle thanks to the retarder's fast response, high continuous availability, and high performance.

High-efficiency dumping

A fully loaded body is raised in only 12 seconds, and lowered in only 10 seconds – with ease and control. The explanation to the short dumping times is Volvo's single stage, double-acting hoist cylinders.

The effective dumping system makes it possible to place the load in exactly the right position, even on downhill grades.

Volvo's unique and user-friendly Load and Dump brake makes it possible to both increase productivity and decrease operating costs. With the simple push of a button, the transmission shifts to neutral and the trailer service brakes are activated.

Unique steering system

Volvo's hydro-mechanical and selfcompensating steering system is the market's best by far. It gives a unique feel for the road, only comparable to that steady automotive-type feel.

Steering angle always remains the same for a given steering wheel position, making it easy to stay on course. This makes Volvo's steering system superior to all other systems on the market, and gives the operator an outstanding control of the machine. Steering is stable at high speeds and powerful in rough off-road conditions – quite simply, a safe machine that's easy to operate.

Engine retarder for low brake wear

Volvo's engine retarder promotes low brake wear and higher average speeds.

Foot operated switch allows for safe actuation of engine retarding system.

Unique Load & Dump brake

A simple push of a button sets the transmission in neutral and all trailer brakes are activated.

Dumping downhill

Volvo's double-acting, singe-stage hoist cylinders have the performance needed to raise and lower the body on downhill grades.

Dump lever with built-in safety

Dumping and lowering of the body is controlled with the pilot-operated 4-position dump lever. The lever automatically goes to hold position when the operator leaves the seat.

Optional equipment

It's possible to adapt the body to all kinds of different materials, for example, with tailgates, body extensions, body heating, and spill guard.

Volvo's Unique Self-compensating Hydro-mechanical Steering

Powerful and accurate steering for safe operation and high productivity.









WORLD-CLASS OPERATOR'S ENVIRONMENT

Volvo's articulated haulers have always had a world-class operator's environment. On a good work site, the operator is happy and effective, which in turn means better results. A35E FS and A40E FS have the best working environment in their class thanks to the Volvo Care Cab and the FS-system, giving a minimum of vibrations.

Feel the difference

Never before have hauler operators experienced better comfort than in the A35E FS and A40E FS. With the unique hydraulic full suspension operators can stay sharp, even on those really long shifts. The excellent working environment promotes both high productivity and good operator health. The European Union has passed a WBV-directive (whole body vibration) which is to be in place and enforced by the year 2010 at the latest. It establishes limit values for body vibrations for employees in order to avoid injuries and poor health. Volvo's FS-haulers probably have the market's lowest WBV by far, making it possible for operators to work much longer without exceeding the new European vibrations legislation.

Space and comfort

Our articulated haulers feature the quiet, clean, and spacious Volvo Care Cab. The first thing you notice is how easy it is to get in to the A35E FS and A40E FS. The steps are well-matched, the door opening is wide and without a threshold. Inside the cab there's plenty of room for the operator as well as other items, such as boots and a lunchbox. Sound level is comfortably low, and the unique filtration system in the Volvo Care Cab provides a clean cab environment in a class of its own. The effective air-conditioning system makes sure that the cab temperature always keeps the operator comfortable.

The ergonomically designed operator's seat features air-suspension and is easily adjustable for true comfort. The steering wheel angle can be adjusted, and there's also a vertical height adjustment.

Focus on visibility

Good visibility all around the machine is an absolute condition for both high safety and high productivity. The operator sits up high in the centrally located operator's seat.



Full suspension

Reduces vibrations to provide an excellent operator's environment promoting high productivity and good operator health.

Volvo Care Cab

Volvo's world class operator's environment features a larger, more spacious interior and large storage compartments.

The Volvo Care Cab pressurizes and filters all incoming air twice, promoting a clean interior and a healthy, happy operator.

Contronic Monitoring System alerts the operator of machine status and maintenance needs, providing maximum availability and protection during the shift.

Good visibility, from the wide front windshield to the well placed rearview mirrors, allows for safe and productive work.







SUPPORT WITH INTELLIGENCE

By choosing a Volvo articulated hauler, important advantages will make your business really profitable. Volvo has developed several intelligent systems to help you make the right decisions for high profitability and optimum machine usage. Volvo is a partner you can trust. Our global dealer network ensures that you're never far from genuine Volvo spare parts and specially trained service technicians who know your specific machine.

Always on the right track

CareTrack is a telematic system developed to work with the Volvo machine's own diagnostics system. On a password-protected website, you can "see" the exact location of your machine, what the fuel consumption looks like, and when it's time for next service. With immediate availability of correct facts about your machines, you can analyze the situation shift by shift, and make decisions that result in higher productivity and shorter downtime. CareTrack is also excellent theft-protection, since you can use your computer to "lock in" the machine in a specified geographic area.

Real-time information

The built-in Contronic monitoring system enables the operator to always keep an eye on the machine's functions in real-time. The information display on the control panel gives continuous updates on the machine's functions, including outdoor temperature, fuel consumption, and fluid level.

Matris has the answers

Matris is a PC-based follow-up system which, when connected to the machine, measures and analyzes how the machine has been used. The operating history gives clear information in tables, circle or

bar diagrams, on, for example, use of the engine, brakes, and transmission, as well as fuel consumption.

A safe choice

Service and maintenance is the starting point for making your machine investment just as profitable as you want it to be. The key is to let your Volvo remain a Volvo. With genuine Volvo Parts you know that the machine's built-in values such as operating reliability, performance, safety, and comfort will endure, year after year.

Tailored to your needs

- The Volvo Articulated Hauler can be personalized in many ways to meet your specific operating needs based on conditions and applications.
- To adapt the machine further it offers a number of software parameters that can be set based on customer input.
- Machine software parameters can be set (adjusted) to enhance machine functionality, meeting your specific jobsite environments and demands.
- Service agreement or repair contract can boost your competitiveness and make your operation more profitable.

Contact your local dealer for further information.



CareTrack* advanced telematics

GPS positioning, mapping, Geo- & Timefence functions monitor your machine fleet.

GPRS and/or Satellite transfer of operating data, error codes**, logged machine data**.

Service reminders and alarms, including forwarding by E-mail and text message.

Machine utilization, including fuel consumption.

- *) Optional equipment
- **) Available with CareTrack Advanced

Contronic monitoring system

Overriding computerized electronic monitoring system, dependable and easy to use.

Coordination of reliable engine and machine computers for optimum performance and safety.

Display information in three categories

– current operating data, warning texts and error messages.

Monitors fuel consumption, cycle times and service intervals.

The system has built-in safety functions that automatically limit the engine's torque and power output in case of major malfunctions in order to protect the engine and transmission, thus reducing the risk of subsequent damage.









A MACHINE YOU CAN ALWAYS TRUST

Volvo's Unique Self-compensating Hydro-mechanical Steering

 Powerful and accurate steering for safe operation and high productivity.

Excellent Operator Environment

- A spacious and comfortable cab with centrally positioned operator contributes to high productivity throughout the shift.
- Ergonomically positioned controls, air-conditioning, air suspension seat with tilt/telescopic steering wheel, wide angle forward view for reduced operator fatigue and high safety.

Volvo Drive Train

- Correctly matched Volvo-designed components, specifically developed for hauler applications.
 Low power losses and long service life.
- 9-speed transmission gives smooth shifting and high power at all times.

6x4 and 6x6 with Five Operating Modes

 Easy to use drive combinations for every type of operating condition, reduces fuel consumption, driveline and tire wear and increases off-road mobility.

Exhaust Brake and Retarder

 Easy to operate powerful retardation in combination with wet-disc brakes reduces wear and operating cost.

Heavy-Duty Axles

• Purpose built with 100% dog clutch type diff-lock.

High-Capacity Cooling System

 Power and fuel saving, hydraulically driven, side mounted variable speed fan consumes power only when needed.



Purpose-built dropbox

· Proven in-line drop-box provides high ground clearance, gives stability and low internal power losses.



· Grouped engine filters and remote mounted drains reduce service time. Contronic System electronically monitors fluid

levels and systems for ease of service and troubleshooting. Serviceability No daily or weekly service. Volvo's Unique Self-compensating **Hydraulic Full Suspension Frames and Chassis** • Rotating hitch and articulated steering provides

· Hydraulic full suspension with automatic

leveling and stabilizer provides excellent offroad performance promoting higher speeds for improved productivity, safety and operator comfort.

- Box type design frames provides strong, weight optimized, high quality frames for long service life.
- good off-road mobility and less stress on the frames in tough applications. High positioned hitch provides high ground clearance and stability.

State-of-the-Art Hydraulic System

· Variable displacement piston pumps consume power only when required.

High strength steel 400 HB body

· High chute and tipping joint with 70° or greater dump angle promotes load retention and ejection.

IN HARMONY WITH THE ENVIRONMENT

Volvo's machines are built for minimal environmental impact. Caring for the environment is a natural extension of our dedication to giving maximal protection to operators and the environment. We are also convinced that highly developed environmental thinking gives both peace of mind as well as competitive advantages.

Use every drop of fuel

Volvo's V-ACT-engines are designed using an advanced method of fuel injection under higher pressure, a further development of the system for electronic engine control, as well as a smart system for internal exhaust gas recirculation. In short, it means that the exhaust valve opens slightly during the inlet stroke and lets a small amount of exhausts back into the cylinder. Presence of exhausts lowers the combustion temperature and reduces emissions of nitrous oxide.

Volvo - where recycling is natural

As another important part of our commitment to the environment, A35E FS and A40E FS are 95% recyclable. Engine, transmission, and hydraulics are overhauled and re-used in our component exchange system. For us, it's natural to assume our responsibility for the environment, of which we all are a part.

Quality

Volvo articulated haulers are manufactured in quality certified factories according to ISO 9001:2000.

Extensive product reliability growth test programs and improved component reliability standards ensure availability and greater productivity in the most demanding operating conditions.

All major components including transmission, axles, fuel tank, and hydraulic tank are well-protected from contamination with high-quality breather filters, only replaced every 2,000 hours to ensure long machine life and prevent oil misting.

All electrical wiring is routed through highquality conduits providing true protection from water, dust, vibration and abrasion.

Safety

Dual circuit wheel brake system.

The user-friendly operator's communication system includes safety features such as indication of raised dump body, unbuckled seatbelt, and open door.

The parking brake is activated automatically when the engine is switched off.

The cab has been tested and approved according to the requirements in ROPS ISO 3471 and FOPS ISO 3449.

Non-return valves prevent leakage of both hydraulic tank and fuel tank in case of roll-over.

Warning signs offer clear information in the form of symbols and illustrations.

Environment

Volvo articulated haulers are manufactured in environmentally certified factories according to ISO 14001:2004.

The Volvo D12 and D16 engines meet existing emissions requirements according to EU Stage IIIA and EPA Tier 3.

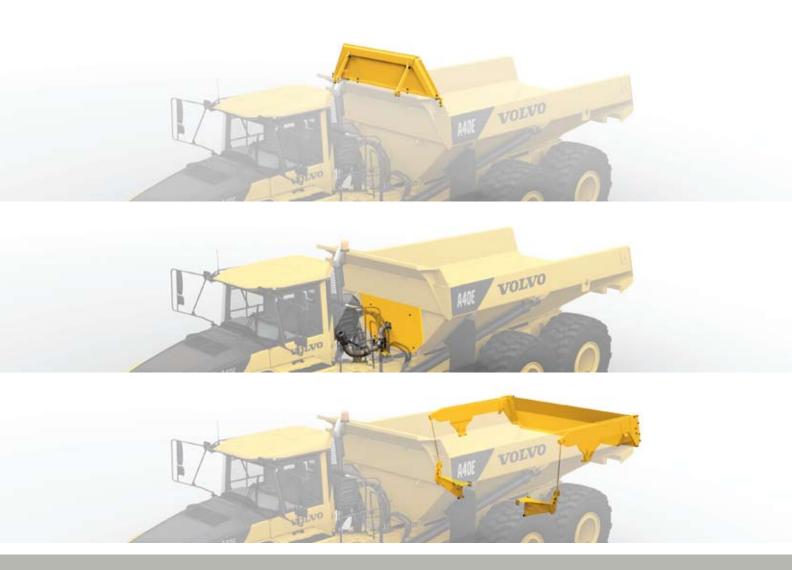
Optional biodegradable hydraulic oil allows environment-friendly operation.







ADAPTABLE DUMP BODY



Selection of Volvo adaptable dump body options

Extra Front spillguard

Reduces spill from careless loading and when hauling on steep downhill grades.

Body heating kit

Reduces the risk of material freezing or sticking to the body. The exhaust gases are routed along the bottom of the body via a flexible hose at the hitch and exit at the rear of the body.

Overhung Tailgate, Wire operated

The wire operated tailgate gives a large opening, and reduces spill when hauling, especially on steep grades. Designed for hauling gravel, sand and liquid masses.

NINE WAYS TO IMPROVE THE CAPACITY OF YOUR MACHINE



















Selection of Volvo equipment

Low profile tires

65% profile tires are perfect in demanding applications where low ground pressure, good stability and comfort are preferred.

Electrical hood opening

Makes hood opening easy and fast. An electric pump opens the hood in addition to the hand operated pump.

Rear vision system

Rearview camera system reduces blind spots, improves site safety and operator comfort when reversing.

Heavy-duty oil bath engine air cleaner

Increases functional reliability in extremely dusty conditions.

Anti-theft system

A four-digit code is entered via the Contronic to enable engine start.

Engine shut down timer

Delayed engine shut-down, easily activated with a switch on the instrument panel. The delay timer is set with the Controninc System. Gives the turbocharger time to cool down and ensure lubrication of the turbo.

Arctic / Siberian Kit

Adapts the machine for operation in extremely cold climates. Includes hoses accumulators, oils and lubricants for cold climates.

Fast fueling - bolt-on kit

Provides easy and fast fueling reducing contamination and spillage.

Care Track Telematics system

Remote monitoring of the machine's position, utilization and performance. Forwarding of error codes, alarms and service reminders. Position on map plus Geo&Time-fence functions.

VOLVO A35E FS, A40E FS IN DETAIL







Engine

Engine: Volvo, V-act Tier III, 6-cylinder in-line, direct injected electronically-controlled. Volvo's turbocharged and intercooled 4-stroke diesel engine, generates high torque at low rpm for quick response and low exhaust emissions. Cooling system: High-capacity cooling system with power and fuel saving, variable speed fans.

A35E FS

Engine	Volvo D12D AEE3*/AFE3**	
Max power at	30 r/s	1 800 r/min
SAE J1995 Gross	313 kW	419 hp
Flywheel power at	30 r/s	1 800 r/min
ISO 9249, SAE J1349 Net	309 kW	414 hp
Max torque at	20 r/s	1 200 r/min
SAE J1995 Gross	2100 Nm	1 549 lb ft
ISO 9249, SAE J1349 Net	2 056 Nm	1 547 lb ft
Displacement total	12 I	732 in ³

A40E FS

Engine	Volvo D16E AA	Volvo D16E AAE3*/ABE3**	
Max power at	30 r/s	1 800 r/min	
SAE J1995 Gross	350 kW	469 hp	
Flywheel power at	30 r/s	1 800 r/min	
ISO 9249, SAE J1349 Net	346 kW	464 hp	
Max torque at	20 r/s	1 200 r/min	
SAE J1995 Gross	2 525 Nm	1 862 lb ft	
ISO 9249, SAE J1349 Net	2 493 Nm	1 837 lb ft	
Displacement total	16 I	976 in3	

^{*)} Meets US (EPA) Tier 3, California (CARB) Tier 3 and Europe (EU) Stage III **) Meets Europe (EU) Stage IIIA

Engine brake	Exhaust retarder
Liigiiic blake	LAHAUST ICIAIUCI

Drivetrain

Torque converter: Built-in lock-up function. Transmission: Fully automatic Volvo PowerTronic planetary transmission with nine forward gears and three reverse gears. The transmission has the ability to skip gears for fast and accurate gear selection. Dropbox: Volvo-designed with high ground clearance. Axles: Heavy-duty, purpose built Volvo design with fully floating axle shafts, planetary type hub reductions and 100% dog clutch type diff-lock.

A35E FS

Torque converter	2,1:1
Transmission, Volvo	PT 2509
Dropbox, Volvo	IL2
Axles, Volvo	ARB/H35

A40E FS

Torque converter	2,1:1
Transmission, Volvo	PT 2509
Dropbox, Volvo	IL2
Axles, Volvo	ARB/H40





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.

A35E FS

Voltage	24 V
Battery capacity	2x170 Ah
Alternator	2,24 kW (80 A)
Starter motor	7,0 kW (9,5 hp)

A40E FS

Voltage	24 V
Battery capacity	2x225 Ah
Alternator	2,24 kW (80 A)
Starter motor	7,0 kW (9,5 hp)

Brake system

Fully hydraulic, wet multiple disc brakes with enclosed, forced oil-cooled multiple discs on all wheels. Two circuits. Separate brake cooling for each axle. Complies with ISO 3450 and SAE J1473 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. Compressor: Gear-driven by engine transmission. Retarder: Hydraulic, integrated in axles, controlled with a separate pedal.

Cab

Ergonimically designed. Unobstructed wide angle forward view. Operator centrally positioned above the front axle. Ergonomically positioned controls. Air-conditioning. Adjustable operators seat with retractable seat belt. Filtered fresh air and four speed fan. Operator Communication System: Contronic, user-friendly and easy-to-understand information, all vital machine functions are constantly monitored. Standard: ROPS/FOPS approved according to (ISO3471, SAE J1040) / (ISO3449, SAE J231).

A35E FS / A40E FS

Sound level in cab ISO 6396	74 dB(A)

VOLVO A35E FS, A40E FS IN DETAIL





Hydraulic System

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. Filter: One fiberglass filter with magnetic core.

A35E FS	Pump capacity per pump
Engine-dependent	143I/min (37.8 US gpm)
Engine speed	35,0 r/s (2 100 rpm)
Ground-dependent	202 I/min (53.4 US gpm)
at shaft speed	47,5 r/s (2 850 rpm)
Working pressure	25 MPa (3 626 psi)

A40E FS	Pump capacity per pump
Engine-dependent	143I/min (37.8 US gpm)
Engine speed	33,3 r/s (1 998 rpm)
Ground-dependent	202 I/min (53.4 US gpm)
at shaft speed	47,5 r/s (2 850 rpm)
Working pressure	25 MPa (3 626 psi)

Steering system

Cylinders: Two double-acting steering cylinders. Supplementary steering: Complies with ISO 5010 at total machine weight. Steering angle: 3,4 steering wheel turns lock-to-lock, $\pm 45^{\circ}$.

Body / Dumping

Load and dump brake: With the engine running, the service brakes on the rear axle are applied and transmission is shifted to neutral. Dumping Cylinders: Two single stage double acting cylinders.

A35E FS

Tipping angle	70° A
Tipping time with load	12 s
Lowering time	10 s

A40E FS

Tipping angle	72° A
Tipping time with load	12 s
Lowering time	10 s

Hydraulic Full Suspension

Hydraulic full suspension on all wheels with automatic leveling and stabilizer.

A35E FS

Cylinders	6
Cylinder bore front axle	115 mm (4.527')
Cylinder bore rear axles	150 mm (5.905')
Accumulators front axles	2
Accumulators rear axles	4

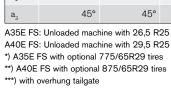
A40E FS

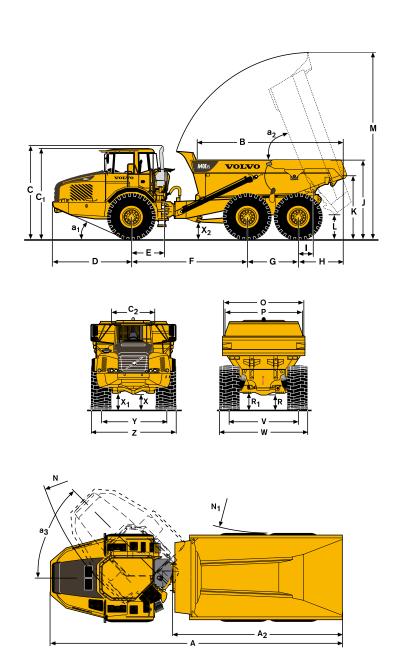
Cylinders	6
Cylinder bore front axle	115 mm (4.527')
Cylinder bore rear axles	1150 mm (5.905')
Accumulators front axles	2
Accumulators rear axles	4



SPECIFICATIONS

A35E FS A40E FS A35E FS A40E S A 11 182 11 265 36'8" 37'0" A2 6 242 6 404 20'6" 21'0" B 5 531 5 820 18'2" 19'1" C 3 716 3 768 12'2" 12'4" C1 3 545 3 596 11'8" 11'10" C2 1 769 1 769 5'10" 5'10" D 3 101 3 101 10'2" 4'2" E 1 278 4 518 15'0" 14'10" G 1 820 1 940 6'0" 6'4" H 1 683 1 706 5'6" 5'7" J 650 495 2'2" 1'7" J 2 939 3 152 9'8" 10'4" K 2 314 2 455 77" 8'1" L 899 841 2'11" 2'9" N 4 23 4 335 14'6" 14'3"		Metric	Metric (mm) Imperial (Feet)		
A2 6 242 6 404 20'6" 21'0" B 5 531 5 820 18'2" 19'1" C 3 716 3 768 12'2" 12'4" C1 3 545 3 596 11'8" 11'10" C2 1 769 1 769 5'10" 5'10" D 3 101 3 101 10'2" 10'2" E 1 278 1 278 4'2" 4'2" F 4 578 4 518 15'0" 14'10" G 1 820 1 940 6'0" 6'4" H 1 683 1 706 5'6" 5'7" J 2 939 3 152 9'8" 10'4" K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" N 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N ₁ 4 423 4 335 14'6"		A35E FS	A40E FS	A35E FS	A40E FS
B	Α	11 182	11 265	36'8"	37'0"
C 3716 3 768 12'2" 12'4" C ₁ 3 545 3 596 11'8" 11'10" C ₂ 1 769 1 769 5'10" 5'10" D 3 101 3 101 10'2" 10'2" E 1 278 4'2" 4'2" 4'2" F 4 578 4 518 15'0" 14'10" G 1 820 1 940 6'0" 6'4" H 1 683 1 706 5'6" 5'7" J 2 939 3 152 9'8" 10'4" K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N ₁ 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'10" 11'6" R 580 628 1'11"	A_2	6 242	6 404	20'6"	21'0"
C1 3 545 3 596 11'8" 11'10" C2 1 769 1 769 5'10" 5'10" D 3 101 3 101 10'2" 10'2" E 1 278 4 2" 4'2" 4'2" F 4 578 4 518 15'0" 14'10" G 1 820 1 940 6'0" 6'4" H 1 683 1 706 5'6" 5'7" I 650 495 2'2" 17" J 2 939 3 152 9'8" 10'4" K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N1 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'10" 11'6" P 2 870 3 074 9'5"	В	5 531	5 820	18'2"	19'1"
C2 1 769 1 769 5'10" 5'10" D 3 101 3 101 10'2" 10'2" E 1 278 1 278 4'2" 4'2" F 4 578 4 518 15'0" 14'10" G 1 820 1 940 6'0" 6'4" H 1 683 1 706 5'6" 5'7" I 650 495 2'2" 1'7" J 2 939 3 152 9'8" 10'4" K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N ₁ 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'2" 11'1" R 580 628 1'11" 2'1" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V	С	3 716	3 768	12'2"	12'4"
D 3 101 3 101 10'2" 10'2" E 1278 4'2" 4'2" F 4 578 4 518 15'0" 14'10" G 1820 1940 6'0" 6'4" 11 650 495 2'2" 17" 31 2 939 3 152 9'8" 10'4" 12" 12" 12" 11" 2'9" 11" 11" 11" 11" 11" 11" 11" 11" 11" 1	C ₁	3 545	3 596	11'8"	11'10"
E 1 278 1 278 4'2" 4'2" F 4578 4 518 15'0" 14'10" G 1 820 1 940 6'0" 6'4" 1 650 495 2'2" 1'7" J 2 939 3 152 98" 10'4" 1 2'9" 1 1 899 841 2'11" 2'9" 1 1 8826 8885 28'11" 29'2" 11'1" 1 1'9" 1 1'6" 1 1 6'10 6'58 2'0" 2'2" 11'1" 1 1'9" 1 1'1" 2'1" 1 1'9" 1 1'1" 2'1" 1 1'9" 1 1'1" 2'1" 1 1'9" 1 1'1" 2'1" 2	C ₂	1 769	1 769	5'10"	5'10"
F 4 578	D	3 101	3 101	10'2"	10'2"
G 1820 1940 6'0" 6'4" H 1683 1706 5'6" 5'7" I 650 495 2'2" 1'7" J 2939 3152 9'8" 10'4" K 2314 2455 7'7" 8'1" L 899 841 2'11" 2'9" M 7246 7284 23'9" 23'11" N 8826 8885 28'11" 29'2" N ₁ 4423 4335 14'6" 14'3" O 3106 3374 10'2" 11'1" O'** 3305 3497 10'10" 11'6" P 2870 3074 9'5" 10'1" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2534 2636 8'4" 8'8" V' 2625 W 3258 3432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2534 2636 8'4" 8'8" Y' 2625 Z 3258 3432 10'8" 11'3" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2534 2636 8'4" 8'8" Y' 2625 Z 3258 3432 10'8" 11'3" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2534 2636 8'4" 8'8" Y' 2625 Z 3258 3432 10'8" 11'3" Z')** 3410 3570 11'2" 11'9" A ₁ 233° 24,3° 233° 24,3° A ₂ 70° 72° 70° 72°	Е	1 278	1 278	4'2"	4'2"
H 1 683	F	4 578	4 518	15'0"	14'10"
I 650 495 2'2" 1'7" J 2 939 3 152 9'8" 10'4" K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N1 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'2" 11'1" O"" 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 1'11" 2'1" R1 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y' <td>G</td> <td>1 820</td> <td>1 940</td> <td>6'0"</td> <td>6'4"</td>	G	1 820	1 940	6'0"	6'4"
J 2 939 3 152 9'8" 10'4" K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N ₁ 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'2" 11'1" O"" 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8"	Н	1 683	1 706	5'6"	5'7"
K 2 314 2 455 7'7" 8'1" L 899 841 2'11" 2'9" M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N1 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'2" 11'1" O'''' 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 1'11" 2'1" R1 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y' 2 625 8'7" Z<	1	650	495	2'2"	1'7"
L 899 841 2'11" 2'9" M 7246 7284 23'9" 23'11" N 8826 8885 28'11" 29'2" N ₁ 4423 4335 14'6" 14'3" O 3106 3374 10'2" 11'1" O''' 3305 3497 10'10" 11'6" P 2870 3074 9'5" 10'11" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2534 2636 8'4" 8'8" V' 2625 8'7" W 3258 3432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2534 2 636 8'4" 8'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 3 432 10'8" 11'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 3 432 10'8" 11'11" Z 33 258 3 432 10'8" 11'3" Z 3 3 258 3 432 10'8" 11'9" A ₁ 23.3° 24,3° 23.3° 24,3° A ₂ 70° 72° 70° 72°	J	2 939	3 152	9'8"	10'4"
M 7 246 7 284 23'9" 23'11" N 8 826 8 885 28'11" 29'2" N ₁ 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'2" 11'1" O''' 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y' 2 534 2 636 8'4" 8'8" Y' 2 534 2 636 8'4" 8'8" Y' 2 534 2 636 8'4" 8'8"	K	2 314	2 455	7'7"	8'1"
N 8 826 8 885 28'11" 29'2" N ₁ 4 423 4 335 14'6" 14'3" O 3 106 3 374 10'2" 11'1" O''' 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" XN''' 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 3 432 10'8" 11'1" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 2 636 8'4" 11'3" Z')'' 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	L	899	841	2'11"	2'9"
N1 4 423 4 335 14'6" 14'3" 0 3 106 3 374 10'2" 11'1" 0"" 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'11" R 580 628 1'11" 2'1" R1 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y' 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z	М	7 246	7 284	23'9"	23'11"
O 3 106 3 374 10'2" 11'1" O''' 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 11'11" 2'1" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X 521 576 11'9" 11'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')'' 3 410 3 570 11'2" 11'9" X 11'3" X 521 576 11'9" 11'11" X 602 657 2'0" 2'2" X 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')'' 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	N	8 826	8 885	28'11"	29'2"
O''' 3 305 3 497 10'10" 11'6" P 2 870 3 074 9'5" 10'1" R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" X'' 3 410 3 570 11'2" 11'9" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')'' 3 410 3 570 11'2" 11'9"	N ₁	4 423	4 335	14'6"	14'3"
P 2870 3074 9'5" 10'1" R 580 628 11'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2534 2636 8'4" 8'8" V' 2625 8'7" W 3258 3432 10'8" 11'3" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2534 2636 8'4" 8'8" Y 2 534 2 636 8'4" 8'8" Y 2 534 3 432 10'8" 11'3" Z 3258 3 432 10'8" 11'3" Z 3410 3570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	0	3 106	3 374	10'2"	11'1"
R 580 628 1'11" 2'1" R ₁ 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" W')** 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y* 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	O***	3 305	3 497	10'10"	11'6"
R1 610 658 2'0" 2'2" V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" W')" 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')"* 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	Р	2 870	3 074	9'5"	10'1"
V 2 534 2 636 8'4" 8'8" V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" W')" 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')" 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	R	580	628	1'11"	2'1"
V' 2 625 8'7" W 3 258 3 432 10'8" 11'3" W')** 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y* 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	R ₁	610	658	2'0"	2'2"
W 3 258 3 432 10'8" 11'3" W')** 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	V	2 534	2 636	8'4"	8'8"
W')** 3 410 3 570 11'2" 11'9" X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y* 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	V*	2 625		8'7"	
X 521 576 1'9" 1'11" X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	W	3 258	3 432	10'8"	11'3"
X1 602 657 2'0" 2'2" X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	W*)**	3 410	3 570	11'2"	11'9"
X2 754 806 2'6" 2'8" Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	X	521	576	1'9"	1'11"
Y 2 534 2 636 8'4" 8'8" Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	X1	602	657	2'0"	2'2"
Y' 2 625 8'7" Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	X2	754	806	2'6"	2'8"
Z 3 258 3 432 10'8" 11'3" Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	Υ	2 534	2 636	8'4"	8'8"
Z')** 3 410 3 570 11'2" 11'9" a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72°	Y*	2 625		8'7"	
a ₁ 23.3° 24,3° 23.3° 24,3° a ₂ 70° 72° 70° 72° 45° 45° 45° 45°	Z	3 258	3 432	10'8"	11'3"
a ₂ 70° 72° 70° 72°	Z*)**	3 410	3 570	11'2"	11'9"
450 450 450	a ₁	23.3°	24,3°	23.3°	24,3°
450 450 450		70°	72°	70°	72°
	a ₃	45°	45°	45°	45°





Load capacity

	A35	E FS	A40	E FS
Standard Body				
Load capacity	33 500 kg	37 sh tn	39 000 kg	43 sh tn
Body, struck	16,0 m³	20.9 yd ³	18,5 m³	24.2 yd ³
Body, heaped	20,5 m³ 26.8 yd³		24,0 m³	31.4 yd ³
With overhung tailg	ate			
Body, struck	16,4 m³	21.5 yd ³	18,8 m³	24.6 yd ³
Body, heaped	21,4 m³	28.0 yd ³	24,6 m³	32.2 yd³

Weights

	A35	E FS	A40	E FS
Tires	26,51	R25*	29,5	R25**
Operating weight un	nloaded			
Front	14 800 kg	32 628 lb	15 800 kg	34 833 lb
Rear	13 700 kg	30 203 lb	14 800 kg	32 828 lb
Total	28 500 kg	62 832 lb	30 600 kg	67 461 lb
Payload	33 500 kg	73 855 lb	39 000 kg	85 980 lb
Total weight				
Front	17 800 kg	39 022 lb	19 750 kg	43 541 lb
Rear	44 200 kg	96 783 lb	49 850 kg	109 900 lb
Total	62 000 kg	135 805 lb	69 600 kg	153 442 lb

Body material

Front	8 mm	0.31"
Sides	12 mm	0.47"
Bottom	14 mm	0.55"
Chute	16 mm	0.63"
Yield strength	1000 N/mm ²	145 000 psi
Tensile strength	1250 N/mm ²	181 000 psi
Hardness	400 HB	

Speed

	A35	E FS	A40	E FS
Forward				
1	6,2 km/h	3.9 mph	5,8 km/h	3.6 mph
2	9,0 km/h	5.6 mph	8,4 km/h	5.2 mph
3	11,0 km/h	6.8 mph	10,4 km/h	6.5 mph
4	16,0 km/h	9.9 mph	14,9 km/h	9.3 mph
5	23,0 km/h	14.3 mph	21,6 km/h	13.4 mph
6	29,1 km/h	18.1 mph	27,3 km/h	17.0 mph
7	38,5 km/h	23.9 mph	36,0 km/h	22.4 mph
8	50,9 km/h	31.6 mph	47,6 km/h	29.6 mph
9	57 km/h	35.4 mph	57 km/h	35.4 mph
Reverse				
1	6,9 km/h	4.3 mph	6,5 km/h	4.0 mph
2	10,0 km/h	6.2 mph	9,4 km/h	5.8 mph
3	18,0 km/h	11.2 mph	18,0 km/h	11.2 mph

Fill capacities

	A35	E FS	A40	E FS
Crankcase	50 liter	13.2 US gal	55 liter	14.5 US gal
Fuel tank	480 liter	126.8 US gal	547 liter	144.5 US gal
Cooling system	100 liter	26.4 US gal	100 liter	26.4 US gal
Transmission, total	38 liter	10 US gal	38 liter	10 US gal
Dropbox	8,5 liter	2.25 US gal	8,5 liter	2.25 US gal
Axles, front/rear	21 liter	5.5 US gal	21 liter	5.5 US gal
Brake cooling tank	120 liter	31.7 US gal	120 liter	31.7 US gal
Hydraulic tank	262 liter	69.2 US gal	262 liter	69.2 US gal

Ground Pressure

	A35E FS			A40E FS				
Tires	2	26,5R25		65R29	29,	5R25	875/0	65R29
Unloaded								
Front	124 kPa	18.0 psi	106 kPa	15.4 psi	111 kPa	16.1 psi	97 kPa	14.1 psi
Rear	57 kPa	8.3 psi	50 kPa	7.3 psi	52 kPa	7.5 psi	46 kPa	6.7 psi
Loaded								
Front	149 kPa	21.6 psi	128 kPa	18.6 psi	139 kPa	20.1 psi	121 kPa	17.5 psi
Rear	185 kPa	26.8 psi	158 kPa	22.9 psi	175 kPa	25.4 psi	152 kPa	22.0 psi

At 15% sinkage of unloaded radius and specified weights.

Operating weight includes all fluids and operator

*) A35E FS with tires 775/65R29, add 200 kg (441 lb)/axle

*) A35E FS with tires 775/65R29, add 200 kg (441 lb)/axle

STANDARD EQUIPMENT

Safety	A35E FS	A40E FS	Cab	A35E FS	A40E FS
ROPS/ FOPS protected cab		•	Air suspended, heated, fully adjustable operator's seat		
Service platform for ease of service	•	•	Volvo Radio with CD player		
Anti-slip material on hood and fenders	•	•	rene riadie min ez piaye.		
Hazard lights					
Horn	•	•	Operator information interface	A35E FS	A40E FS
Protective grille for rear window		•	Gauges:	•	•
Rearview mirrors			Speedometer Tachometer	:	
Retractable 3-inch safety belt	-	•	Brake pressure	•	
Secondary steering		•	Fuel Transmission oil temperature	•	:
Steering joint locking assembly			- Hansmission on temperature		
Dump body lock			Warning lights grouped and easy to read	A35E FS	A40E FS
Windshield wipers with interval function			Central warning (3 levels) for all vital functions	AGGE FS	A-TOL FS
Windshield washers	-		Central warning (3 levels) for all vital functions		
Handrails on steps and platforms					
Tiandrails on steps and platforms			Central positioned information display:	A35E FS	A40E FS
Service and maintenance	A35E FS	A40E FS	Automatic pre-start checks	•	•
Electrical hood opening	ASSE FS	A4UE FS	Operation information, easy-to-find menu	•	•
Electrical flood opening		•	Troubleshooting diagnostics	•	•
Comfort	A2EE 50	A40E FS	Hour meter	•	•
	A35E FS	A4UE FS	• Clock	•	•
Tilt/telescopic steering wheel		•			
Cab heater with filtered fresh air and defroster	•	•	Drivetrain	A35E FS	A40E FS
Air-conditioning		•	Automatic transmission	•	•
Overhead console for radio	•	•	Torque converter with automatic lock-up in all gears	•	•
Sun visor	<u> </u>	•	Single stage dropbox	•	•
Tinted glass		•	6x4 or 6x6 operator selectable drive modes	•	•
Can holder /storage tray	•	•	100% longitudinal differential lock	•	•
Cigarette lighter	•	•	100% differential locks in all axles	•	•
Ashtray	•	•			
Space for lunch cooler	•	•	Brakes	A35E FS	A40E FS
Storage box	•	•	Two circuit, fully hydraulic brakes with enclosed, forced	•	•
Instructor seat with seat belt	•	•	oil-cooled multiple discs on all axles.		
Sliding window	•	•	Parking brake on prop shaft	•	•
Engine	A35E FS	A40E FS	Body	A35E FS	A40E FS
Direct injected, electronically controlled	•	•	Body prepared for exhaust heating	•	•
Turbocharged, intercooled	•	•			
Remote oil drain plug and hose	•	•	Suspension	A35E FS	A40E FS
Remote oil filters, for ease of access	•	•	All-wheel hydraulic full suspension	•	•
Preheater for easier cold starts	•	•	Automatic leveling and stability control	•	•
Exhaust retarder	•	•			
Delayed engine stop – engine cool down	•	•	Tires	A35E FS	A40E FS
	'		26.5R25	•	
Electrical system	A35E FS	A40E FS	29.5R25		•
80 A alternator	•	•			
Battery disconnect switch	•	•	Other	A35E FS	A40E FS
Extra 24 V socket for lunch cooler	•	•	Toolbox	•	•
Lights:	•	•	Care Track Telematics System	•	•
Headlights		•			
Parking lights Direction indicators	•				
Direction indicators Rear lights					
Back-up light	•	•			
Brake lights Cab lighting					
Cab lighting Instrument lighting	•				

OPTIONAL EQUIPMENT

Safety	A35E FS	A40E FS
Fire-extinguisher and first aid kit	•	•
Service and maintenance	A35E FS	A40E FS
Tool kit with tire inflation unit	•	•
Engine	A35E FS	A40E FS
Air cleaner, heavy-duty, dry type		•
Air cleaner, oil-bath type	•	
Electric engine heater (120V)		
External emergency engine stop	•	•
Electrical	A35E FS	A40E FS
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)	•	•
Cab	A35E FS	A40E FS
Electrically heated rearview mirrors	•	•
Cable kit for cab heater (120V)	•	•
Window tint film	•	•
Body	A35E FS	A40E FS
Body exhaust heating	•	•
Extra front spillguard	•	•
Overhung tailgate, wire operated	•	•
Wear plates	•	•
Tires	A35E FS	A40E FS
775/65R29	•	
875/65R29		•
	I	
External	A35E FS	A40E FS
Mudguard wideners for low profile tires	•	•
Other	A35E FS	A40E FS
Synthetic hydraulic oil (biologically degradable)		•
Arctic oil kit	•	•
Siberian kit, -40°C	•	
Fast fueling bolt-on kit	•	•



Volvo Construction Equipment is different. The company's products are designed, built and supported in a different way. That difference comes from our 175-year engineering heritage. A heritage of thinking first about the people who actually use the machines. About how to make them safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different - **More care. Built in.**



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.

