VOLVO MOTOR GRADERS

G970, G976, G990





TRADITIONAL VALUES. ADVANCED PERFORMANCE.

The G900 family of Motor Graders is firmly rooted in the technologies and values of Volvo worldwide.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.

You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.

Quality with confidence

No family of motor graders anywhere has been subject to more rigorous testing than Volvo G900 Motor Graders. By listening to customer needs and responding with design innovations like the industry's first 11-speed grader transmission with autoshift, the Volvo continuous improvement program leads the G900 family to ongoing quality leadership.

At home in the Volvo fleet

From end-to-end, from the ground up, the G900 Motor Graders are fit and finished to take their place in your fleet. Design details and their renowned Volvo Care Cab provide a familiar work environment inside and out for owners and operators of any Volvo machine.

Care for the environment, one of the Volvo core values, is reflected in the environmental performance of the G900 Motor Graders. The G900 family meets EU Stage IIIA and US Tier 3 Emission Regulations as well as EU noise standards. Volvo engineering minimizes whole body vibration to maximize operator productivity.

For grader operators and owners everywhere, the G900 Motor Graders means a new standard in grading performance and productivity.

The Volvo standard.

Volvo Motor Graders industry firsts

1975

- Full perimeter rear frame with modular powertrain design
- Optional first-user frame warranty now including maintenance-free articulation pins and bearings

1984

• First electronically controlled transmission with on board diagnostics

1991

- Duramide[™], the first synthetic circle support bearing material that prevents metal to metal contact
- Hydraulically operated, oil-bathed multiple disc brakes standard
- Dual crossover brake circuits

1999

- "Creep Mode", a front-wheel-only hydrostatic drive system
- AWD with separate variable displacement pumps
- Glare-reducing paint scheme

2002

- Tier II emission compliant
- Most powerful All Wheel Drive Grader
 2006
- Tier 3 emission compliant
- 11-speed grader transmission with switchable manual auto-shift and transport modes
- Shuttle shift capability with straight line forward to reverse shift pattern
- High performance three sided cooling module with a swing out fan for easy cleaning

2008

- Two person training cab
 ROPS / FOPS certified
- European Union directive EN474:2006 compliant
- Fuel saving engine 'Power' mode standard with optional 'Speed' mode (N/A within EU market)



Volvo G900 Motor Graders

‡ With All Wheel Drive engaged

Model		G 970	G 976	G 990
Base operating weight - approximate	lb (kg)	41,660 (18 900)	43,650 (19 800)	48,720 (22 100)
Engine model/displacem	ent	D9B/9.4 L	D9B/9.4 L	D9B/9.4 L
Base range net power	hp (kW)	210 (156)	225‡ (168‡)	225 (168)
Mid range net power	hp (kW)	230 (171)	245‡ (183‡)	245 (183)
High range net power	hp (kW)	250 (186)	265 [‡] (198 [‡])	265 (198)





STRONGER. TOUGHER. FINER. SMARTER.

From heavy cutting to fine finishing, G900 Motor Graders work with grader operators to perform every task efficiently, profitably.

Power on demand

With the G900 Motor Graders, Volvo puts the keys to new levels of profitable grader performance in your hands. What you'll notice first, is the power. Dig into the job and Volvo digs in with you. Volvo engines are renowned for high torque at low RPMs, producing responsive, fuel-efficient performance under all operating conditions. When you call for power to muscle through heavy overburden or to hold and turn loads smoothly under power, your Volvo G900 Motor Grader comes through without hesitation.

Then there's the touch

Highly responsive industry-standard controls give skilled operators the sure feel they need to do what they do best. Wide stance blade lift cylinders coupled with the low angle side shift cylinder provide the most stable grading platform in the industry. Heavy-duty inching clutches and a powerful twingear direct-drive circle turn system translate responsive control into precise earthmoving results. You get more one-pass finishes with cost-saving accuracy.

Precise and predictable

Volvo's Proportional Demand Flow (PDF) hydraulic system, balances flow between all grading functions for consistent and predictable implement control. The G900 PDF hydraulic system is ideally suited for all leading Automatic Blade Control systems.

Gearing up for the bottom line

Volvo HTE transmissions, including standard 8-speed and optional 11-speed models, translate engine output into intelligent power for faster, simpler duty cycles. With selectable Manual, optional Autoshift and Travel modes, your choice of G900 Motor Graders offers power and speed the way you want it, when you want it. With the Volvo Autoshift mode, you just select your gear and go. Your Volvo HTE transmission does the rest to get you up to speed in your working or travel gear ranges quickly, economically and smoothly. Volvo shuttle shift, a standard feature on all Volvo Grader transmissions, allows operators to make effortless, forward-to-reverse shifts (and vice versa) without stopping or using the inching pedal. In jobs that require frequent direction changes, shuttle shifting means faster cycle times, less fatigue and more work done at day's end.

Turning the Corner

The G900 Series introduced a new concept to motor grader thinking: a longer wheelbase that can turn in tighter circles! The long G900 wheelbase ensures greater stability and fine grade control and also improves the sight line to the leading tandem wheels, helping operators run closer to grade markers. For improved mobility in tight spaces, a low maintenance front axle gives the G900 Series a reduced turning circle with its 50° steering range and a large 21° articulation angle. The G900 Graders not only make the grade but follow it, too.







THE RIGHT TOOLS IN THE RIGHT HANDS.

Volvo knows that you only get the best from your machine when you get the best from your operator – so we made experienced operators part of our design team!

New ideas for old hands

Any tool is only as good as the person using it. So when Volvo designed the G900 Motor Graders, we started with grader operators.

Making the best, better

Of course, we began with familiar, industry-standard grader controls that come easily to hand. But we gave them a more responsive feel, plus low-effort levers and low-effort pedals to make long hours easier. We added a Volvo Contronic Monitoring System with a smart display console that tells operators everything they need to know about the machine at a glance, in multiple languages. But we also cleared exterior lines of sight with exceptional floor-to-roof visibility through the front, down to the moldboard and close in to the sides.

Accurate grading

When site specifications call for precise grade control, the Volvo G900 comes through. Volvo worked with the leading manufacturers of Automatic Blade Control systems and developed the G900 family with the contractor in mind. The result – optional mounting brackets, hydraulic and electrical connections designed exclusively for machine control systems. Even the pedestal head has mounting locations for grade displays. So no matter what brand of machine control you currently use, the G900 is ready.

Know what you're getting into

Open the cab door to your Volvo Motor Grader – then, with automatic illumination set for the steps and handholds, you step up to the industry's easiest entry and exit. With extensive noise and vibration suppression designed into the cab and with the quiet-running Volvo engine behind, operators spend the day in peace and quiet.

For hard-working people

Volvo works hard to keep operators at their best all day long. A high capacity, 12-speed fan pushes fresh, double-filtered air throughout the cab via 10 well-placed outlets. Window options on the front and sides open wide for natural ventilation or to minimize glare. High capacity air conditioning and heating systems keep temperatures comfortable in any season. A wide range of comfort amenities and ergonomic design features make G900 Motor Graders a great place to spend the working day.

Optional joystick controls

Volvo joystick controls offer predictable and proportional response for hydraulic functions, articulation, steering and the transmission. Volvo joysticks have available buttons/triggers for the control of all main attachments. Design offers a choice of steering via joysticks up to the speed of 30 Km/h (18 mph) or with the steering wheel.





The Volvo Care Cab:

Standard:

- 72 dB(A) Enclosed cab
- Contronic Monitoring System
- 50,000 BTU heater with 10 outlets
- Two high capacity air filters
- Interior lights
- Illuminated entry
- Non-skid steps
- Cup holder and ashtray
- Coat hook
- Storage compartments

Optional:

- Joystick controls
- 30,000 BTU air conditioner
- Wide-angle wiper pattern (for low profile cab)
- Air suspension seat
- Opening side windows
- Opening lower front windows
- Lunch box and thermos
- Radio/CD player with four speakers

...and much more!





RELAX. IT'S A VOLVO!

There's a new benchmark for performance in the grading industry, backed by Volvo.

All in the family

Built on a solid foundation of field proven Volvo components including the D9B engine, Volvo transmissions and the Contronic Monitoring System. G900 Motor Graders have been engineered with years of reliable service already built in.

Keep on rolling

Trust Volvo G900 Motor Graders for a long life of hard work.

The modular Volvo assembly process and precise welding technology ensure uniform end-to-end strength in all structural components for lasting durability.

With their modular powertrain design concept, G900 Motor Graders simplify maintenance on major components and allow new levels of flexibility for optimal service scheduling.

Volvo Planetary Reduction Axles with operator-controlled hydraulic clutch differential lock deliver power to the ground efficiently while ensuring dependable long-life service. In every detail, G900 Motor Graders reflect the Volvo commitment to lasting value.

Fade resistant, hydraulically actuated, wet multiple disc service brakes located at the 4 tandem drive wheels are fully sealed and maintenance free. System features crossover dual braking circuits for uniform braking on both sides of the grader. Includes reserve power assist and operator warning system.

Day after day

At Volvo, the details make the difference in day-to-day reliability: extra-strength abrasion resistant hydraulic hoses; sealed electrical connectors; fuse panel connections kept clean and dry inside the cab; premium O.R.F.S. hydraulic couplings along with smart routing of hoses and wiring resist wear and abrasion.

An innovative tandem drive chain design, that maintains its strength and durability while reducing downtime, eliminates the need for press-fit master links and the special tools that are needed to service them.

Exclusive Volvo Contronic Monitoring System provides three levels of intelligence to keep your grader at its peak: continuous minute-by-minute function monitoring; detailed data storage for easy service and troubleshooting; and is easily updated by your Volvo technician. Backed by Volvo Customer Service, G900 Motor Graders bring together the people and the technology for reliable everyday performance.

Year after year

Built for work in the real world and offering superb customer protection, the G900 frame is available with an optional first user lifetime warranty. This industry exclusive warranty also includes the maintenance-free articulation pins and bearings for continuous peace of mind. Ask for G900 warranty documentation. See the details!









Real world flexibility

G900 Motor Graders are purposebuilt with a true tool-carrier frame designed to withstand the rigors of all-season service. Field-proven through years of grader service, the Volvo full perimeter rear frame is designed not only to provide effective support for all rear and side attachments, but also permits modular mounting of all major powertrain components. As a result, the powertrain is easily serviced while being well protected from the severe load stresses of ripping, scarifying, plowing, pushing and snow clearing.

With attachments built and approved by Volvo, G900 Motor Graders adapt to year-round duties without compromising design integrity.





MORE UPTIME. LESS UPKEEP.

G900 Motor Graders reflect the Volvo commitment to equipment that spends more time on the job, less time in the shop.

Ease of service, low maintenance demands

Start every day easy. G900 Motor Graders carry on the Volvo approach to maximum uptime: minimize the machine's need for service, then simplify the service tasks it does require.

Sensible service design starts with easy ground-level fueling and minimal grease points, with no daily greasing required. Sight glasses and level sensors make daily checks virtually effortless.

Exclusive long-wearing Duramide™ circle support bearings prevent metal-to-metal contact to keep critical tolerances tight and the circle turning smoothly.

Changing the Duramide bearings on the moldboard slide rail is fast and easy - simply remove 4 bolts and slide the lower sleeve bearing out!

The G990 top and bottom moldboard rails are shim-adjustable to maintain tight blading tolerances.

Open for business

With an "Easy Lift" rear hood, gull-wing side panels and removable hydraulic tank cover, G900 Motor Graders are unrivaled for easy routine service. The complete rear cowling opens wide to allow quick, thorough service checks, then back to work quickly.

Keep it simple, smart

The hydraulic system is designed for fast manual or pressure fills through the top of the tank. All added fluids must pass

through a large, full flow return filter to prevent accidental contamination in the reservoir that could lead to down time. Hoses are routed over the surface of the frame for simple inspections.

The Volvo cooling module eliminates stacked cores. Instead, multiple cooling cores are positioned to receive fresh, cool ambient air continuously. A thermostatically controlled, hydraulically driven fan maximizes available power and fuel savings. An auto-reversing cooling fan option allows continuous self-cleaning to further improve cooling performance and reduce service needs.

CareTrack:

Everything you want to know

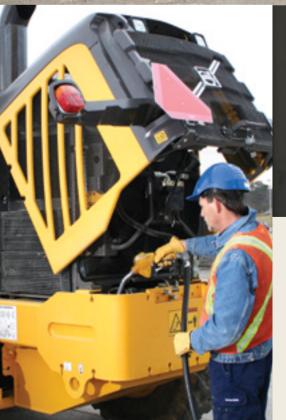
All G900 Motor Graders can be equipped with CareTrack, a remote monitoring system developed by Volvo Construction Equipment. The system collects machine data which can be wirelessly transferred to a computer. The machine data displayed remotely includes: machine position, operating hours, fuel consumption, alarms and more*.

CareTrack makes it easier to plan for service and reduces costly downtime. It also helps eliminate unauthorized usage and theft by using virtual fences to restrict the operating area of the machine.

*May vary by machine model and/or subscription.









V-ACT

The new generation of D9B engines with Volvo Advanced Combustion Technology (V-ACT) is tailored for grader applications, designed to run cleanly and efficiently without the extra service requirements of additional equipment or after-treatment of exhaust gases.



ALL-PURPOSE ALL WHEEL DRIVE.

The All Wheel Drive G976 Motor Grader is unmatched for pure versatility.

The drive to succeed

When you're looking for excellence in every grader task, Volvo All Wheel Drive is the grader that gets you there. Having a Volvo AWD is like having three drive systems in one: a highly efficient 4-wheel tandem drive, a powerful 6-wheel drive plus the exclusive Volvo Creep Mode, the industry's original hydrostatic front-wheel-only drive for exceptional fine-grading control.

A firm footing for AWD

The Volvo AWD system is built around two variable displacement axial piston pumps feeding direct drive wheel motors: no planetary gear reductions, no clutch packs. Pump displacement is controlled in response to the aggression switch setting for precise wheel power control. The system requires no flow divider valve, providing efficient transmission of power from the pumps to the motors with minimal pressure drops.

Hydraulic hoses for the front wheel drive are positioned high up, safely out of harm's way. AWD monitoring is integrated with the Contronics system, ensuring extensive safeguards for lasting reliability.

Biggest is best

The G976 Motor Grader stands out as the largest AWD machine in its class. With a base weight of 43,650 lb (19 800 kg) and its Volvo D9B engine generating up to 277 hp (207 kW), the G976 gives you the most of what you're looking for to get maximum AWD performance.

When the going gets tough

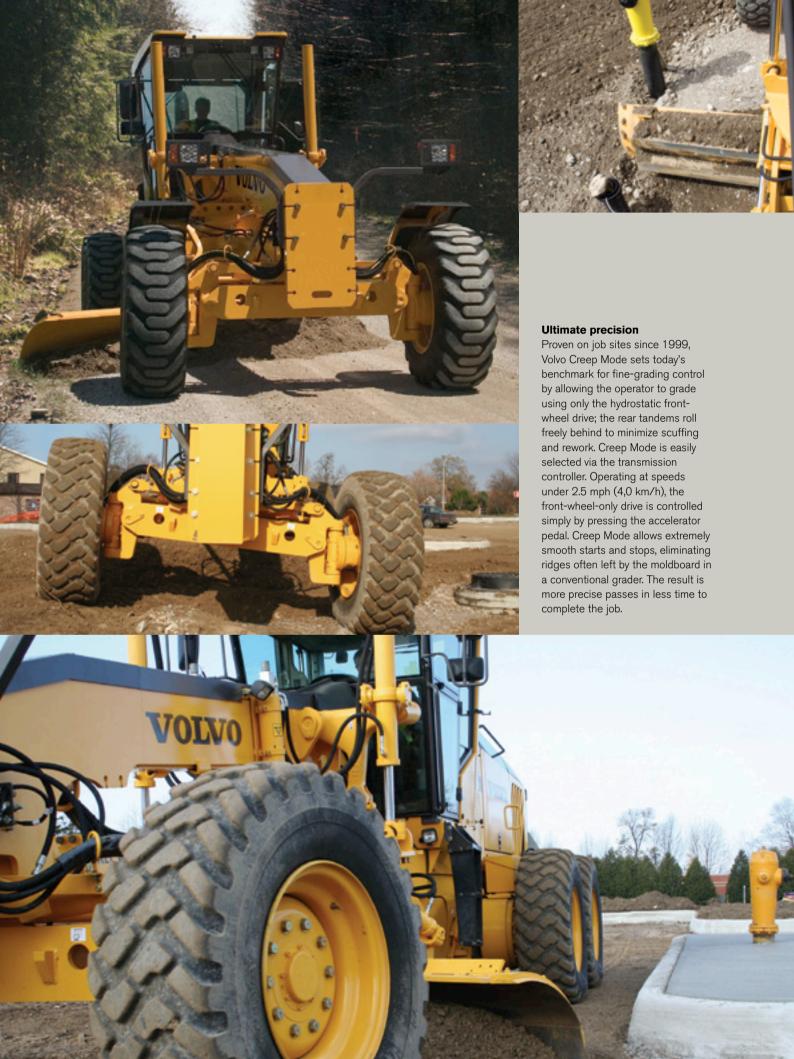
Volvo All Wheel Drive can deliver up to 8,500 lb (3 855 kg) of additional rim pull at the front wheels for increased blade loads. With 16 selectable levels of aggression, operators can match traction to any operating conditions. With high start-up torque capability, Volvo AWD performance raises the bar industry-wide for starting high blade loads from a full stop.

Reaching a top speed up to 23.8 mph (38,1 km/h) in 10th gear with the optional* HTE1160S transmission in AWD mode, the G976 is today's top-of-the-line for optimum snow-clearing operations or any high speed AWD application.

When fine-grading deadlines are tight, G976 Creep Mode gets you to the finish line first with ultimate precision and effortless control.

^{* 20.3} mph (32,5 km/h) with standard HTE840S transmission





A MACHINE YOU CAN ALWAYS TRUST

Contronics

- · Detailed real time display of system status for the operator
- Up to 25 points of interest for service diagnostics
- Monitor fuel consumption, cycle times, and service intervals

Volvo Power

- · Volvo D9B US Tier 3/EU Stage IIIA engine
- V-ACT technology with three power levels
- · High capacity cooling system
- Hydraulically driven, variable-speed fan with optional auto-reversing
- Planetary rear axle with clutched differential lock

 G976 all-wheel-drive model with 3 easy-to-use operating modes and 16 selectable levels of aggression

Easy To Keep

- No daily greasing or weekly servicing required
- . "Easy Lift" rear hood for easy access to the radiator
- Large lockable engine panels
- Convenient ground level refueling
- Sight glasses at tandems, final drive hydraulic tank for quick level checks
- Optional 500-hour engine oil change interval
- Large capacity hydraulic filter

Volvo Transmissions

- Choice of transmissions designed expressly for motor graders
- Shuttle shift for effortless forward/reverse shifts
- Standard HTE840S with full power shift
- Optional Autoshift on HTE840S
- Optional 11-speed HTE1160S with Autoshift included
- Manual, Autoshift and Travel modes optimize performance and fuel economy

Volvo Grader Frame

- Rugged front and rear frames support a full range of attachments
- Full-perimeter rear frame isolates powertrain from attachment stresses and vibration



Volvo Care Cab

- · Industry-standard operating controls
- Ergonomic low-effort, short-throw levers; adjustable
- · Enclosed ROPS/FOPS compartment lives up to every expectation for industry-leading comfort, safety and efficiency
- · Wide-angle visibility reduces operator fatigue, increases productivity and maximizes safety
- Interior and exterior mirrors provide clear wide-angle view to the sides and rear

VOLVO

Volvo Circle Turn

- Twin-gear direct-drive circle turn system
- Teeth cut on outside of circle provide ability to hold or turn the moldboard smoothly while moving under full load
- Two direct-acting hydraulic cylinders, 90° out of phase
- Maximum load handling strength with fewer moving parts

Blade Control

- · Wide-stance blade lift cylinders for fine grading stability
- Wide range of moldboard positions for banking or ditching
- · Easily replaceable moldboard slide bearings
- · Optional blade widths available with extensions and cutting edges

PDF Hydraulics

- "Proportional Demand Flow" intelligent closed center, load-sensing system
- · Variable displacement axial piston pump for excellent multi-function control
- · Minimal connections for high reliability, low service requirements
- · Separate hydraulic fan-drive improves efficiency, reducing fuel consumption

Balance Of Power

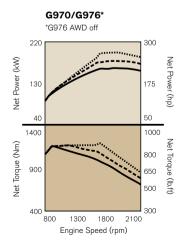
- · Weight and power balanced for optimum blade down force and drawbar pull values
- · Purpose-built front axle with high center ground clearance and tight turning radius

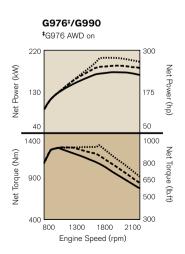
SPECIFICATIONS

		G 970	G 976	G990
Base operating weight - approximate				
Weights shown include enclosed low profile c	ab with ROPS, all			
operating fluids, operator and standard equipm	nent.			
Base - Total	lb (kg)	41,660 (18 900)	43,650 (19 800)	48,720 (22 100)
On front wheels	lb (kg)	11,680 (5 300)	12,340 (5 600)	13,670 (6 200)
On rear wheels	lb (kg)	29,980 (13 600)	31,310 (14 200)	35,050 (15 900)
Maximum combined capacity	lb (kg)	50,000 (22 680)	51,500 (23 360)	60,000 (27 200)
Maximum weight - front	lb (kg)	18,500 (8 390)	18,500 (8 390)	18,500 (8 390)
Maximum weight - rear	lb (kg)	34,100 (15 470)	35,000 (15 880)	42,000 (19 050)
Note that adding weight and attachments to t	he base grader may n	ecessitate a tire upgrade as max	imum weight capacity of tire may	/ be exceeded.
Productivity (Standard equipment)				
Blade pull at base weight	lb (kg)	26,982 (12 240)	36,679 (16 635)	31,545 (14 310)
0.9 traction co-efficient)				
Blade pull at maximum base weight	lb (kg)	30,690 (13 923)	40,000 (18 147)	37,800 (17 145)
0.9 traction co-efficient)				
Blade down force capability	lb (kg)	20,420 (9 253)	21,574 (9 776)	24,457 (11 058)
Blade down force is the maximum downward t	force which may be ap	pplied at the cutting edge.		
Engine data				
Model		Volvo D9B	Volvo D9B	Volvo D9B
urbocharged, aftercooled with replaceable we	et-type cylinder liners.			
No. of cylinders		In Line 6	In Line 6	In Line 6
Bore & stroke	in	4.76 x 5.51	4.76 x 5.51	4.76 x 5.51
	(mm)	(120 x 138)	(120 x 138)	(120 x 138)
Displacement	cu in (I)	573 (9,4)	573 (9,4)	573 (9,4)
Engine certified to US EPA Tier 3/EU Stage II	IIA exhaust emission s	standards.		
Electrical system		24 volt - 80 amp	24 volt - 80 amp	24 volt - 80 amp
		(1920 watt) alternator	(1920 watt) alternator	(1920 watt) alternator
	ar duty	1125 CCA	1125 CCA	1125 CCA
Batteries (two 12 volt) maintenance free, heav	ry duty	1120 00/1	1120 00/1	

Engine performance curve

Legend High Range Mid Range Base Power Engine Power





Engine Torque

3 Range engine power control		G970 G976 AWD off	G976 AWD on	G99 0
Base range power				
Rated net brake horsepower @ 1900 RPM§	hp (kW)	210 (156)	225 (168)	225 (168)
Torque @1200 RPM	lb.ft (N.m)	857 (1 162)	910 (1 234)	910 (1 234)
Mid range power				
Rated net brake horsepower @ 1900 RPM§	hp (kW)	230 (171)	245 (183)	245 (183)
Torque @1400 RPM	lb.ft (N.m)	860 (1 165)	913 (1 237)	913 (1 237)
High range power				
Rated net brake horsepower @ 2100 RPM§	hp (kW)	250 (186)	265 (198)	265 (198)
Maximum net horsepower @ 1700 RPM	hp (kW)	262 (195)	277 (207)	277 (207)
Torque @1550 RPM	lb.ft (N.m)	876 (1 188)	929 (1 260)	929 (1 260)

No engine de-rating required up to 9,800 ft (3 000 m) altitude. Rated net horsepower SAE J1349/ISO 9249.

Transmission

Fully sequential, direct drive, Volvo powershift transmission. Engine cannot be started if transmission is in gear. Single lever electronic transmission controller provides self-diagnostics and overspeed protection. Optional HTE1160S has automatic shifting and travel mode as standard equipment.

Approximate values - ground speeds may vary based upon tire brand

	G970, G976	G970, G976	G970, G976, G990		G970, G976	G970, G976	G970, G976	G 990	G970, G990
Transmission	нт	E840S 8-Spe	ed*			нте	1160S 11-Sp	eed	
Tire Size	14:00	17.5	16:00		14:00	17.5	16:00	16:00	20.5
Gear @ RPM	mph (km/h)	mph (km/h)	mph (km/h)	Gear @ RPM	mph (km/h)	mph (km/h)	mph (km/h)	mph (km/h)	mph (km/h)
F1 @ 2100	2.6 (4,1)	2.5 (4,1)	2.6 (4,2)	F1 @ 2100	2.0 (3,2)	2.0 (3,2)	2.1 (3,4)	2.1 (3,3)	2.2 (3,5)
F2 @ 2100	3.6 (5,8)	3.6 (5,7)	3.7 (5,9)	F2 @ 2100	2.6 (4,2)	2.6 (4,1)	2.7 (4,4)	2.7 (4,3)	2.8 (4,5)
F3 @ 2100	5.1 (8,1)	5.0 (8,0)	5.2 (8,3)	F3 @ 2100	3.5 (5,6)	3.4 (5,5)	3.6 (5,8)	3.6 (5,7)	3.7 (6,0)
F4 @ 2100	7.1 (11,3)	7.0 (11,1)	7.2 (11.6)	F4 @ 2100	4.5 (7,2)	4.5 (7,1)	4.7 (7,5)	4.6 (7,4)	4.9 (7,8)
F5 @ 2100	9.4 (15,0)	9.2 (14,7)	9.8 (15,7)	F5 @ 2100	5.9 (9,5)	5.8 (9,3)	6.2 (9,9)	6.1 (9,7)	6.4 (10,2)
F6 @ 2100	10.0 (16,0)	9.9 (15,8)	10.3 (16.4)	F6 @ 2100	7.7 (12,3)	7.6 (12,1)	8.0 (12,8)	7.8 (12,6)	8.2 (13,2)
F7 @ 2100	20.3 (32,5)	19.9 (31,8)	21.2 (34,0)	F7 @ 2100	10.2 (16,2)	10.0 (16,0)	10.6 (17,0)	10.4 (16,6)	10.9 (17,5)
F8 @ 2100	28.4 (45,4)	27.7 (44,4)	29.7 (47,4)	F8 @ 2100	14.0 (22,4)	13.7 (21,9)	14.6 (23,4)	14.3 (22,9)	14.8 (23,6)
				F9 @ 2100	18.2 (29,1)	17.7 (28,4)	19.0 (30,4)	18.6 (29,7)	19.2 (30,6)
				F10 @ 2100	23.8 (38,1)	23.3 (37,2)	24.9 (39,8)	24.4 (39,0)	25.1 (40,2)
				F11 @ 2100	30.8 (49,3)	30.1 (48,2)	32.2 (51,5)	31.5 (50,5)	32.5 (52,0)
R1 @ 2100	2.5 (4,1)	2.5 (4,0)	2.6 (4,2)	R1 @ 2100	2.0 (3,2)	2.0 (3,1)	2.1 (3,3)	2.0 (3,3)	2.1 (3,4)
R2 @ 2100	5.0 (7,9)	4.9 (7,8)	5.1 (8,1)	R2 @ 2100	3.4 (5,5)	3.4 (5,4)	3.6 (5,7)	3.5 (5,6)	3.7 (5,9)
R3 @ 2100	9.9 (15,8)	9.7 (15,6)	10.1 (16,1)	R3 @ 2100	5.8 (9,3)	5.7 (9,2)	6.1 (9,7)	6.0 (9,5)	6.3 (10,0)
R4 @ 2100	20.0 (32,0)	19.5 (31,2)	20.9 (33,4)	R4 @ 2100	7.7 (12,3)	7.6 (12,2)	8.1 (12,9)	7.9 (12,6)	8.3 (13,3)
				R5 @ 2100	13.8 (22,0)	13.5 (21,5)	14.4 (23,0)	14.1 (22,6)	14.5 (23,2)
				R6 @ 2100	23.4 (37,5)	22.9 (36,6)	24.5 (39,2)	24.0 (38,4)	24.7 (39,5)

^{* 20.5} tires available for G970 and G990 with HTE840S transmission

	Transmission Gear					
Engine Power Range	Volvo HTE840S	Volvo HTE1160S				
Base	F1, F2 R1	F1, F2, F3 R1, R2				
Mid	F3, F4, F5 R2, R3	F4, F5, F6, F7 R3, R4				
High	F6, F7, F8 R4	F8, F9, F10, F11 R5, R6				

Optional, operator controlled Power / Speed Engine Mode allows 2100 RPM in Base and Mid power ranges. Not available in the European Union.

		G 970	G 976	G 990
Tandems				
Depth	in (mm)	8.9 (226,5)	8.9 (226,5)	8.9 (226,5)
Height	in (mm)	24.25 (616)	24.25 (616)	24.25 (616)
Thickness				
inner wall	in (mm)	1 (25)	1 (25)	1 (25)
outer wall	in (mm)	.78 (20)	.78 (20)	.78 (20)
Center distance	in (mm)	61 (1 550)	61 (1 550)	66 (1 675)
Drive chain pitch	in (mm)	2 (51)	2 (51)	2 (51)
Oscillation	degrees ±	15°	15°	15°
Differential / Final drive				
Model		Volvo APR90	Volvo APR90	Volvo APR90
Planetary final reduction with an operator contr	olled wet multiple dis	c lock/unlock differential.		
Wheels & tires (Standard equipment)				
Tire size		14:00 x 24, G-2	14:00 x 24, G-2	16:00 x 24, G-2
Ply rating (PR)		12	12	12
Rim size	in (mm)	10 (254)	10 (254)	10 (254)
		One piece rim	Three piece rim	One piece rim
Bolt-on rims interchangeable between front an	d rear	Yes	No	Yes
Front axle and articulation				
Wheel lean	degrees R & L	18°	18°	18°
Oscillation	degrees up & down	16°	16°	16°
Ground clearance	in (mm)	23.2 (590)	23.2 (590)	24.2 (615)
Minimum turning radius using front axle steering	g, ft (mm)	25'3" (7 700)	25'1" (7 640)	26'9" (8 150)
articulation, wheel lean and unlocked differentia	al			
Steering arc	degrees	50°	50°	50°
Frame articulation angle	degrees	21°	21°	21°

Anti-drift lock valve ensures stable operation. Articulation lock standard.

Hydrostatic power steering of front wheels incorporating two steering cylinders. Meets SAE J1511 FEB. 94, ISO 5010:1992, EN12643:1997 with optional secondary steering.

Brakes

Service Brakes: Foot operated

Fade resistant, hydraulically actuated, wet multiple disc service brakes located at the 4 tandem drive wheels are fully sealed and maintenance free. System features crossover dual braking circuits for uniform braking on both sides of the grader. Includes reserve power assist and operator warning system (visual and audible).

Parking Brake

Spring applied hydraulically released enclosed wet multiple disc type parking brake in final drive. Effective on all 4 tandem drive wheels.

Transmission cannot be engaged with park brake on.

Braking systems comply to SAE J/EN ISO 3450:1996.

Volvo uses asbestos free brake components.

		G970	G 976	G990
Front Frame Fabricated - Robotically welde		105 105	105 105	105 105
Minimum dimensions of box section	in (mm)	10.5 x 13.5 (267 x 340)	10.5 x 13.5 (267 x 340)	10.5 x 13.5 (267 x 340)
Plate thickness sides, top & bottom	in (mm)	1 & 1.2 (25 & 30)	1 & 1.2 (25 & 30)	1.2 & 1.6 (30 & 40)
Vertical section modulus at arch	cu in (cm ³)	163 (2 671)	163 (2 671)	185 (3 032)
minimum	cu in (cm³)	137.7 (2 256)	137.7 (2 256)	157.9 (2 588)
maximum	cu in (cm³)	283.9 (4 652)	283.9 (4 652)	324.3 (5 626)
Rear Frame - Full perimeter type				
Minimum dimensions of side rail	in	12 x 4	12 x 4	12 x 4
	(mm)	(305 x 100)	(305 x 100)	(305 x 100)
Optional first user lifetime warranty on frame,	includes maintenance fr	ee articulation pins and bearin	gs.	
Moldboard				
Standard moldboard with replaceable end bit	s in	1.0 x 29 x 12'	1.0 x 29 x 12'	1.0 x 31 x 14'
	(mm)	(25 x 737 x 3 658)	(25 x 737 x 3 658)	(25 x 787 x 4 267)
Moldboard material		SAE 1050	SAE 1050	SAE 1050
		high carbon steel	high carbon steel	high carbon steel
Edge: through hardened	in (mm)	6 x 5/8 (152 x 16)	6 x 5/8 (152 x 16)	8 x 1 (203 x 25)
		boron steel	boron steel	boron steel
Bolt spacing	in (mm)	6 (152)	6 (152)	6 (152)
Bolt size	in (mm)	5/8 (16)	5/8 (16)	3/4 (19)
Slide rails supported by Duramide™ bearings		Yes	Yes	
Slide rails supported with adjustable metallic	bearings			Yes
Moldboard range: Moveable Blade Con	trol System			
(Dimensions shown with standard tires and n	noldboard)	Left/Right	Left/Right	Left/Right
Reach outside tires - articulated frame	in	118/117.5	118/117.5	121.5/121
	(mm)	(2 997/2 985)	(2 997/2 985)	(3 086/3 073)
Reach outside tires - straight frame	in	78/77	78/77	89/89
	(mm)	(1 970/1 960)	(1 970/1 960)	(2 260/2 260)
Moldboard slide	in	26.5/26.5	26.5/26.5	26.5/26.5
	(mm)	(673/673)	(673/673)	(673/673)
Circle side shift	in	30.5/29.5	30.5/29.5	30/29.5
	(mm)	(775/749)	(775/749)	(762/749)
Maximum bank sloping angle, left - right	degrees	90°/90°	90°/90°	90°/90°
7 Position Blade Control system linkage		YES	YES	YES
Moldboard ground clearance	in (mm)	18.0 (460)	18.0 (460)	17.5 (450)
Moldboard cutting depth	in (mm)	30.5 (775)	30.5 (775)	32.5 (825)
Moldboard tilt range	degrees forward	45°	45°	46°
	degrees back	6°	6°	13°

		G 970	G 976	G 990
Circle				
Pitch diameter	in (mm)	64 (1 626)	64 (1 626)	64 (1 626)
Thickness	in (mm)	1.25 (32)	1.25 (32)	2.0 (51)
Adjustable guide shoes - standard / optional		3/5	3/5	5/-
Adjustable clamp plates - standard / optional		3/5	3/5	5/-
Upper circle wear plates - standard / optional		3/5	3/5	5/-

Circle to drawbar support is provided by Duramide™ wear plates and bearings at the clamp and guide shoes. Duramide™ prevents metal-to-metal contact and provides maximum service life.

Circle drive

The Volvo dual gear Circle Drive System uses direct acting hydraulic power for exceptional turning and holding capability under full load. Circle Drive System uses two hardened drive pinions and is protected against impact damage by an overload relief valve as standard equipment.

Rotation	degrees	360°	360°	360°
Drawbar				
Dimensions of box section	in (mm)	6.5 x 6.5 (165 x 165)	6.5 x 6.5 (165 x 165)	6.5 x 6.5 (165 x 165)
Plate thickness	in (mm)	1 & .75 (25 & 19)	1 & .75 (25 & 19)	1.5 & .75 (38 & 19)
Cab & controls				
Low profile cab with ROPS/FOPS				
Interior height	in (mm)	64 (1 620)	64 (1 620)	64 (1 620)

An optional full height cab is available with an inside height of 72.5" (1 837 mm).

All Volvo Grader cabs and canopies are designed to meet or exceed SAE J/ISO 3471-1:2004 and EN 13510:2000 ROPS requirements and SAE J/pr EN ISO 3449:2005 Level 2 FOPS requirements.

The retractable seatbelt is 3" (76 mm) wide and meets SAE J386 NOV. 97 and EN ISO 6683:1999. Industry standardized control lever arrangement. Interior operator noise levels average 72 dB(A) per ISO 6394:1998 (enclosed cab).

Implement hydraulics

Circuit type: Closed center, load sense Proportional Demand Flow (PDF) Hydraulic System, with O-ring face seal hose connections.

Main implement pump type		Axial piston type	Axial piston type	Axial piston type
Maximum pressure	psi (Bar)	3,000 (207)	3,000 (207)	3,000 (207)
Output 2100 RPM	gpm (lpm)	55 (208)	55 (208)	55 (208)
Stand by pressure	psi (Bar)	350 (24)	350 (24)	350 (24)

Large capacity, replaceable in-tank filter. Filters both system and re-fill oil. Low level and high temperature operator warning.

Hydraulic fan drive pump

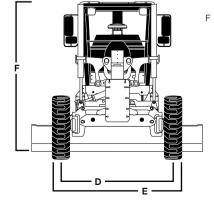
Separate axial piston pump dedicated to the variable speed cooling fan. Reversible cooling fan optionally available.

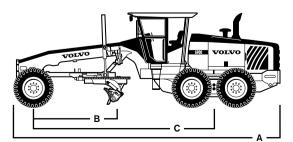
		G 970	G 976	G990
Capacities		4370	u3/0	G 330
Fuel tank	U.S. Gal. (I)	132 (500)	132 (500)	132 (500)
	U.S. Gal. (I)	16 (61)	16 (61)	16 (61)
Final drive	U.S. Gal. (I)	6 (23)	6 (23)	6 (23)
Tandems (each)	U.S. Gal. (I)	35.9 (135.8)	35.9 (135.8)	38.8 (147)
Hydraulic oil tank	U.S. Gal. (I)	24 (91)	38 (144)	24 (91)
Coolant antifreeze protection to -58° F (-50° C) approx	U.S. Gal. (I)	12.4 (47)	12.4 (47)	12.4 (47)
Engine oil	U.S. Gal. (I)	10 (39,0)	10 (39,0)	10 (39,0)
Attachments				
(Optional unless otherwise stated as standard equ	ipment)			
Push Block	lb (kg)	1,138 (515)	1,138 (515)	1,138 (515)
Ripper includes rear frame arch support and links	lb (kg)	3,340 (1 515)	3,340 (1 515)	3,340 (1 515)
Mid Mount Scarifier	lb (kg)	1,995 (905)		
Front Mount Scarifier	lb (kg)	1,575 (715)	1,575 (715)	
Dozer: 9' (2,7 m)	lb (kg)	2,515 (1 140)	2,515 (1 140)	
10' (3,0 m)	lb (kg)	2,600 (1 180)	2,600 (1 180)	2,600 (1 180)
All Wheel Drive				
Maximum operating pressure	psi (Bar)		5,000 (345)	
Minimum operating pressure	psi (Bar)		500 (34)	
Top speed with AWD engaged	mph (km/h)		20.4 (33)	
Maximum rim pull	lb (kg)		8,500 (3 855)	

When equipped with the HTE840S transmission, the Volvo high torque All Wheel Drive System operates in forward gears 1-7 and reverse gears 1-4. When equipped with the HTE1160S transmission, the Volvo high torque All Wheel Drive System operates in forward gears 1-10 and reverse gears 1-6. System provides the operator with the ability to fine grade in Creep Mode using only hydrostatic front wheel drive, between 0 - 2.5 mph (0 - 4 km/h).

in (mm)

Dimensions			G 970	G 976	G 990
All dimensions are approximate.	Α	in (mm)	374 (9 500)	374 (9 500)	383 (9 730)
	В	in (mm)	110 (2 790)	110 (2 790)	116 (2 935)
	С	in (mm)	257 (6 531)	257 (6 531)	263 (6 681)
	D	in (mm)	88 (2 239)	88 (2 239)	92 (2 340)
	Е	14:00 in (mm) 17.5 in (mm) 16:00 in (mm) 20.5 in (mm)	109 (2 780) STD 112 (2 845) 111 (2 820) 119 (3 020)	109 (2 780) STD 112 (2 845) 111 (2 820)	- - 110 (2 800) STD 119 (3 020)





127 (3 225)

Legend

127 (3 225)

- A = Overall length
- B = Bladebase per ISO 7134

129 (3 280)

- C = Wheelbase
- D = Width Front tire center lines
- $\mathsf{E} = \mathsf{Width}$ Outside tires
- F = Overall height with Low Profile Cab Add 8.5" (217 mm) for full height cab

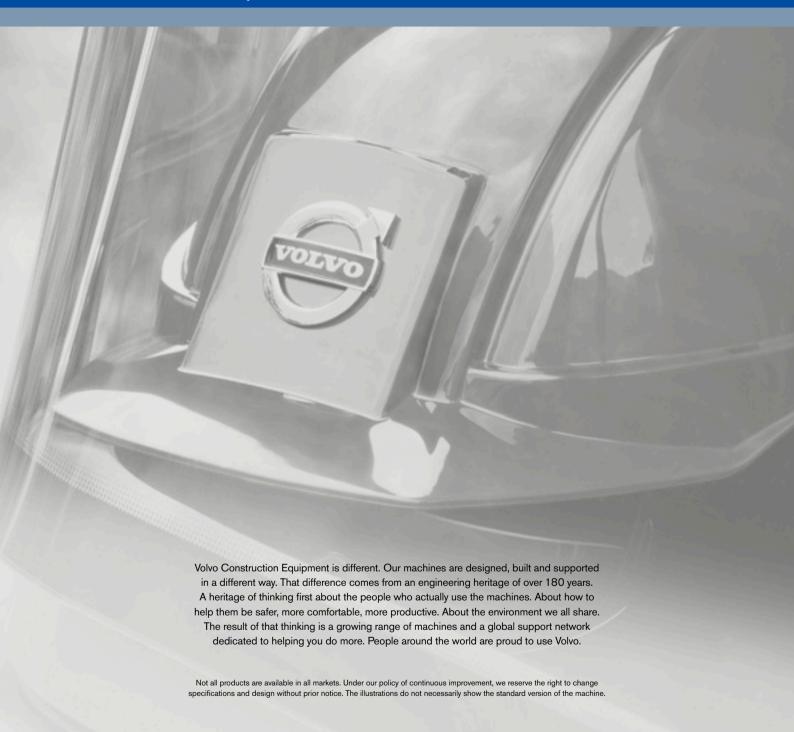
STANDARD FEATURES / OPTIONAL EQUIPMENT

Model (S - Standard / O - Optional)	G 930	G940	G946	G960	G 970	G976	G990
Powertrain							
Volvo engines are certified to US Tier 3/EU Stage IIIA emission criteria	S	S	S	S	S	S	S
Rear axle, operator controlled, lock/unlock differential with planetary final reduction	S	S	S	S	S	S	S
4 wheel wet disc braking system with crossover dual circuits and reserve power assist	S	S	S	S	S	S	S
Spring applied wet multiple disc park brake with operator warning alarm and indicator	S	S	S	S	S	S	S
Electronic hand throttle with RPM hold and resume functions	S	S	S	S	S	S	S
Operator controlled Power/Speed engine mode (N/A in the European Union)	0	0	0	0	0	0	0
Direct drive, power shift Volvo HTE840S transmission with 8 forward and 4 reverse gears	S	S	S	S	S	S	S
Single transmission control lever, with electronic over speed protection, advanced	S	S	S	S	S	S	S
memory shift and park position lockout with hinged transmission guard	3	3	3	3	3		3
Transmission Autoshift and Travel functions	0	0	0	0	0	0	0
Direct Forward to Reverse shuttle shift capability without using the Inching pedal	S	S	S	S	S	S	S
Volvo HTE1160S Transmission - 11 speeds forward 6 speeds reverse includes Autoshift and travel functions	0	0	0	0	0	0	0
Hydraulically driven - variable speed cooling fan	S	S	S	S	S	S	S
Reversible cooling fan - manual or automatic modes	0	0	0	0	0	0	0
Automatic engine protection lowers engine torque and speed if critical conditions occur	S	S	S	S	S	S	S
Electrical							
Cab mounted headlights with dimmer switch	S	S	S	S	S	S	S
Lights; backup, tail, stop and directional	S	S	S	S	S	S	S
Backup alarm 112 dB(A)	S	S	S	S	S	S	S
Moldboards work lights - 2 or 4	0	0	0	0	0	0	0
Rear work lights - 2 or 4	0	0	0	0	0	0	0
LED stop and tail lights	0	0	0	0	0	0	0
Corner cab work lights - left or right - 2	0	0	0	0	0	0	0
110 amp (2460 watt) alternator	0	0	0	0	0	0	0
24 volt to 12 volt converter - 30 or 60 amp (600 or 1440 watt) with power point	0	0	0	0	0	0	0
Productivity							
Heavy duty circle support system	0	0	0	0	0	0	S
Metallic lower moldboard slide bearing	0	0	0	0	0	0	S
Hinged cooling module fan door for easy trash clean out	S	S	S	S	S	S	S
Ground level fueling	S	S	S	S	S	S	S
Lockable tool box with storage space for scarifier shanks	S	S	S	S	S	S	S
Brackets for Automatic Blade Control System installation	0	0	0	0	0	0	0
Under side rear guards	0	0	0	0	0	0	0
Front fenders/lean and steer with tire - plastic	0	0	0	0	0	0	0
Rear fenders - oscillates with tandem - steel	0	0	0	0	0	0	0
Hydraulics (K. Landelle, M. Lan	C	C	0	C	0	C	6
Proportional Demand Flow hydraulic system with short throw, low effort control levers	S	S	S	S	S	S	S
10 section hydraulic control valve - includes two spare sections with levers	S	S	S	S	S	S	S
Circle turn relief located integral with main manifold	S	S S	S S	S S	S S	S S	S
Hydraulic oil level monitor via Contronics	0				0	0	0
Blade Lift Float Control, independent right and left detent style	0	0	0	0	0	0	0
Front attachment float control, detent style, independent of other float valves	0	0	0	0	0	0	0
Up to 5 additional remote valve locations for attachments	0	0		0	0	0	
Blade lift accumulators – operator controlled from cab	0	0	0	0	0	0	0
Secondary steering (power assisted) Other	U	U	0	U	0	U	U
First user lifetime frame warranty – includes articulation pins and bearings	0	0	0	0	0	0	0
Low ambient fluids for extreme cold conditions below -14° F (-10° C)	0	0	0	0	0	0	0
Sound reduction packages (Standard in EU markets)	0	0	0	0	0	0	0
Rear licence plate bracket	0	0	0	0	0	0	0
Air compressor - engine driven with tank capable of operating hand tools	0	0	0	0	0	0	0
Volvo CareTrack - remote monitoring system	0	0	0	0	0	0	0
voire durant formate monitoring system							

Model (S - Standard / O - Optional)				G930	G940	G946	G960	G970	G976	G990
Operator Cab										
Two lockable operator cab doors complete with inside and g	ground le	evel releases		S	S	S	S	S	S	S
Illuminated entry when cab doors are opened - enclosed cal		S		S	S	S	S	S	S	
Adjustable steering control pedestal with tilt head for maximum operator comfort				S	S	S	S	S	S	S
Volvo joystick controls				0	0	0	0	0	0	0
Gauges include: coolant temperature, engine oil pressure, fuel level, hourmeter, articulation angle indicator				S	S	S	S	S	S	S
Multi-function Volvo Contronic Monitoring System with visual and audible warnings				S	S	S	S	S	S	S
Deluxe, cloth covered, fully adjustable suspension seat when grader is equipped with an enclosed cab - 3" (75 mm) retractable seatbelt			S	S	S	S	S	S	S	
Deluxe air suspension, cloth covered, fully adjustable suspension seat - 3" (75 mm) retractable seatbelt				0	0	0	0	0	0	0
Left and right outside dual rear view mirrors				S	S	S	S	S	S	S
Fold-away left and right outside dual rear view mirrors			0	0	0	0	0	0	0	
Heated outside left and right dual rear view mirrors				0	0	0	0	0	0	0
Dual interior rear view mirrors				S	S	S	S	S	S	S
Enclosed Low Profile Cab with ROPS and FOPS - left and right cab door with steps				S	S	S	S	S	S	S
Enclosed High Profile Cab with ROPS and FOPS - left and right cab door with steps				0	0	0	0	0	0	0
Cab heater - 50,000 BTU with cab pressurizer and replacea	able filte	rs, 10 outlets		S	S	S	S	S	S	S
Air conditioner - 35,000 BTU • HFC-134a (non-CFC refrige	erant) wi	th cab heater	h cab heater		0	0	0	0	0	0
Defroster fan with 5 outlets directed at front windows and de	loors				0	0	0	0	0	0
Radio/CD player with 4 concealed speakers in head liner				0 0 0		0	0	0	0	0
Single arm front cab wiper and washer, enclosed cab				S	S S		S	S	S	S
Single arm wiper and washer - rear window				0	0	0	0	0	0	0
Single arm wiper and washer - lower windows front left & rig	ght			0	0	0	0	0	0	0
Dual arm front windshield, increased coverage, Low Profile (- Cab only	,		0	0	0	0	0	0	0
Intermittent wipers on all wipers ordered				0	0	0	0	0	0	0
Window - lower front - opening				0	0	0	0	0	0	0
Window - left/right side - opening sliders with multiple posit	tion ope	nings		0	0	0	0	0	0	0
Lower cab shield, encloses bottom of cab to frame		, and the second		0	0	0	0	0	0	0
										_
Model (S - Standard / O - Optional)		G 930	G 940	G946	G	960	G 970	G 97	76	G990
Model (S - Standard / O - Optional) Tires and Rims - Availability and approximate weight increase.	ase from			G946	G G	960	G 970	G 97	76	G 990
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering	ase from	base operati	ng weight		G G					G 990
Tires and Rims - Availability and approximate weight increa	ase from	base operati	ng weight	G94 6	G	960	G970	S		G990
Tires and Rims - Availability and approximate weight increa Tires - Consult your Volvo dealer for full offering 14:00 x 24 Bias	ase from	base operati	ng weight					S		G 990
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering 14:00 x 24 Bias 14:00 x 24 Radial		base operati	ng weight	S	35) 410	S	S	S 410 (185)	G990
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering 14:00 x 24 Bias 14:00 x 24 Radial 17.5 x 25 Bias	lb (kg)	s base operation S 410 (185)	ng weight S 410 (185)	S 410 (18	25) 410 20) 265	S) (185)	S 410 (185)	S) 410 (185)	G990
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering. 14:00 x 24 Bias. 14:00 x 24 Radial. 17.5 x 25 Bias. 17.5 x 25 Radial. 17.5 x 25 Radial.	lb (kg) lb (kg)	S 410 (185) 265 (120)	ng weight S 410 (185) 265 (120)	S 410 (18 265 (12	25) 410 20) 265	S) (185) 5 (120)	S 410 (185) 265 (120)	S) 410 () 265 () 615 (185) 120) 280)	G990
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering 14:00 x 24 Bias 14:00 x 24 Radial 17.5 x 25 Bias 17.5 x 25 Radial 16:00 x 24 Bias 16:00 x 24 Bias	lb (kg) lb (kg) lb (kg) lb (kg) lb (kg)	S 410 (185) 265 (120)	ng weight S 410 (185) 265 (120)	S 410 (18 265 (12	25) 410 20) 265	S) (185) 5 (120)	S 410 (185) 265 (120) 615 (280)	S) 410 () 265 () 615 (3	185) 120) 280)	
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering 14:00 x 24 Bias 14:00 x 24 Radial 17.5 x 25 Bias 17.5 x 25 Radial 16:00 x 24 Bias 16:00 x 24 Bias	lb (kg) lb (kg) lb (kg) lb (kg)	S 410 (185) 265 (120)	ng weight S 410 (185) 265 (120)	S 410 (18 265 (12	25) 410 20) 265	S) (185) 5 (120)	S 410 (185) 265 (120) 615 (280) 685 (310)	S) 410 () 265 () 615 () 685 () 1,125 (185) 120) 280) 310) (510) 4	S
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering. 14:00 x 24 Bias. 14:00 x 24 Radial. 17.5 x 25 Bias. 17.5 x 25 Radial. 16:00 x 24 Bias. 16:00 x 24 Bias. 16:00 x 25 Bias. 17.5 x 25 Bias.	lb (kg) lb (kg) lb (kg) lb (kg) lb (kg)	S 410 (185) 265 (120)	ng weight S 410 (185) 265 (120)	S 410 (18 265 (12	25) 410 20) 265	S) (185) 5 (120)	S 410 (185) 265 (120) 615 (280) 685 (310) 1,125 (510	S) 410 () 265 () 615 () 685 () 1,125 (185) 120) 280) 310) (510) 4	S 140 (200)
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering. 14:00 x 24 Bias. 14:00 x 24 Radial. 17.5 x 25 Bias. 17.5 x 25 Radial. 16:00 x 24 Bias. 16:00 x 24 Bias. 16:00 x 25 Bias. 17.5 x 25 Bias.	lb (kg) lb (kg) lb (kg) lb (kg) lb (kg) lb (kg)	S 410 (185) 265 (120)	ng weight S 410 (185) 265 (120)	S 410 (18 265 (12	25) 410 20) 265	S) (185) 5 (120)	S 410 (185) 265 (120) 615 (280) 685 (310) 1,125 (510) 980 (445)	S) 410 () 265 () 615 () 685 () 1,125 (185) 120) 280) 310) (510) 4	S 140 (200) 285 (130)
Tires and Rims - Availability and approximate weight increase. Tires - Consult your Volvo dealer for full offering 14:00 x 24 Bias 14:00 x 24 Radial 17.5 x 25 Bias 17.5 x 25 Radial 16:00 x 24 Bias 16:00 x 24 Bias 16:00 x 24 Bias 16:00 x 25 Bias 16:00 x	lb (kg) lb (kg) lb (kg) lb (kg) lb (kg) lb (kg)	S 410 (185) 265 (120)	ng weight S 410 (185) 265 (120)	S 410 (18 265 (12	25) 410 20) 265	S) (185) 5 (120)	S 410 (185) 265 (120) 615 (280) 685 (310) 1,125 (510) 980 (445)	S) 410 () 265 () 615 () 685 () 1,125 (185) 120) 280) 310) (510) 4	S 140 (200) 285 (130)
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Partial listing of available options. Certain features may be standard or not available within specific market. Consult your Volvo Motor Grader distributor for more information.

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