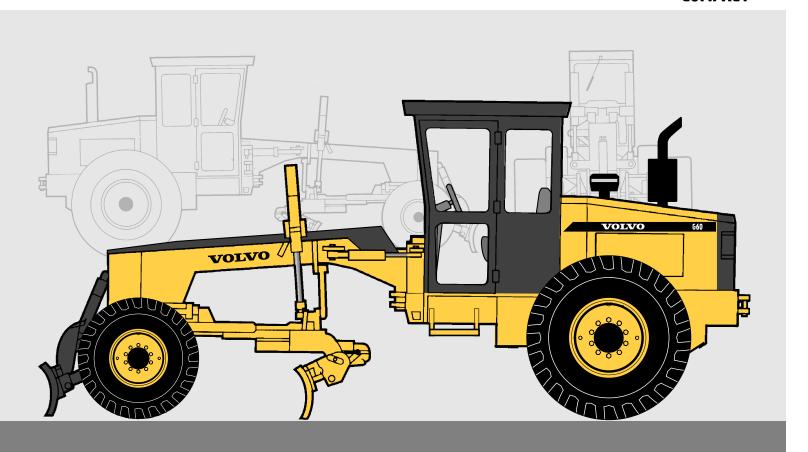
VOLVO MOTOR GRADER

G60/G66

COMPACT



KEY FEATURES:

- Infinitely variable ground speeds 0-20 mph (0-32 km/h)
- ROPS canopy or fully enclosed cab ROPS
- Tight turning radius 16'6" (5 029 mm)
- Full range of front and rear attachments
- Fully adjustable, low effort, operator friendly controls
- Single axle drive or All Wheel Drive
- Dual lever speed and directional controls
- Hydraulically Boosted Dual Braking System with reserve power assist
- Heavy duty positive traction differential
- 2 speed rear axle gearbox with neutral position
- 10' (3 048 mm) hydraulic sliding moldboard

MODEL	G60	G66
Configuration	Articulated Frame Single Axle Drive	Articulated Frame All Wheel Drive
Engine	Cummins 4B3.9	Cummins 4B3.9
Output (SAE J1349)	85 hp (63 kW)	85 hp (63 kW)
Operating weight	12,800 lb (5 810 kg)	13,400 lb (6 080 kg)
Turning Radius	16'6" (5 029 mm)	





OPERATING WEIGHTS

G60

Total	12,800 lb	5 810 kg
Front wheels	3,870 lb	1 760 kg
Rear wheels	8,930 lb	4 050 kg

G66

Total	13,400 lb	6 080 kg
Front wheels	4,200 lb	1 910 kg
Rear wheels	9,200 lb	4 170 kg

Weights shown include ROPS canopy with FOPS protection, all operating fluids and operator.



ENGINE DATA

G60 / G66 Standard

85 hp (63 kW)

G60 / G66 Optional

Make/Model Cummins 4BT3.9

Type 4 cycle, turbocharged, diesel
No. of cylinders In line 4
Bore & stroke 4.02" x 4.72"

(102 mm x 120 mm)

Displacement 239 cu in (3.92 L)

Horsepower @ 2500 RPM

110 hp (82 kW)

Engine equipped with a dual element, drytype air cleaner with evacuator. 12 volt starting and electrical system with 65 amp (780 watt) alternator.

Performance: Rated gross horsepower to SAE J1995 standard conditions with water pump, lubricating oil pump and fuel system.



TRANSMISSION

(34 500 kPa)

Туре	Hydrostatic
Control	
Transmission is "declutche	ed" by brake pedal.
Mechanical neutral lockou	ut with neutral start
switch.	
Operating pressure	3,000 PSI
	(20 700 kPa)
Maximum pressure	5,000 PSI

Heavy duty hydrostatic drive gives complete control to the operator over operating ground speeds. This permits very smooth increases or decreases in operating speeds, essential when fine grading. Easy forward or reverse selection without the need for clutching makes repetitive operation, such as pad work, simpler. Infinitely variable motor control provides faster job site cycle times.

SPEEDS @ 2500 RPM

	Forward and Reverse
Working	0-10 mph
Ü	(0-16 km/h)
Roading	0-20 mph
-	(0-32 km/h)

Foot controlled forward and reverse pedal available as an option.



DIFFERENTIAL / FINAL DRIVE

Positive traction differential consists of 4 bevel gears and automatic lock-up. Heavy duty flanged sleeve construction is supported by tapered roller bearings, allowing fully floating, non-load carrying drive axles. A heavy duty two speed gearbox provides work and travel modes as well as a neutral position for towing.

Ground clearance16" (406 mm)



WHEELS & TIRES

Front

15 x 19.5, TL, G-2
8
.12.25" (311 mm)
16.9 x 24, TL
6
15" (381 mm)
as an option



BRAKES

Service BrakesFoot operated Fade resistant, hydraulically actuated drum brakes effective on rear wheels. System features dual braking circuits for even braking on both sides of the grader. Includes reserve power assist and operator warning system (visual and audible). Hydrostatic drive provides dynamic braking.

All braking systems meet SAE Standard J1473 OCT 90, SAE Recommended Practice J1152 APR 80 and ISO 3450: 1985.



FRONT AXLE

Front axle type: fully welded steel truss, gusseted for torsional strength and rigidity. Single oscillation pin with replaceable pin supports.

Oscillation	35° up and down
Ground clearance	16" (406 mm)
Wheel lean (standa	rd on G66, optional
on G60)	Hydraulic, 15° R or L



STEERING

Type Hydraulic power steering
Turning radius (outside front wheel)
- articulated frame - G66 16'6"
(5 029 mm)
(turning radius on G60 same when
equipped with optional leaning wheel cylinder)
Operating pressure1,000 PSI
(6 900 kPa)
Ct

Steering system operates from separate hydraulic pump.



FRAME

Rear	12" (305 mm)
	heavy gauge box channel
Front	welded box type
	0.5" x 8" x 8"
	(13 mm v 203 mm v 203 mm)

Full front and rear frame sections



ARTICULATION

4" (102 mm) diameter pivot pins, turning on 4 tapered roller bearings. 2 hydraulic cylinders mounted with replaceable ball joints and dust shields.

Articulation angle 37°



CIRCLE ASSEMBLY



CIRCLE DRIVE



DRAWBAR

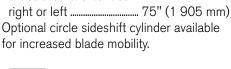
Main drawbar (solid) 4" (102 mm) square Cross bar (solid).......1" x 4"

(25 mm x 102 mm)

"T" bar designed for maximum visibility and support. Connected to frame by shim adjustable ball stud.



MOLDBOARD





CAPACITIES

39 gallon (148 L)
30 gallon (114 L)
4.5 gallon (17 L)
4.5 gallon (17 L)



CAB & CONTROLS



All hydraulic controls are located on the fully adjustable steering pedestal. 8 low effort, direct acting hydraulic control levers are arranged in accordance with the industry standard for optimum operator convenience, visibility and comfort. Full hydraulic controls provide operation of circle turn, left and right blade lift and float control, articulation, moldboard slide, and optional leaning wheel and front blade/scarifier.

Pedestal instrument cluster: engine temperature gauge; engine oil pressure gauge; fuel level gauge; volt meter; tachometer.

A right hand console houses the transmission controller, throttle, hour meter, all electrical switches, heater controls and ignition switch.



HYDRAULICS

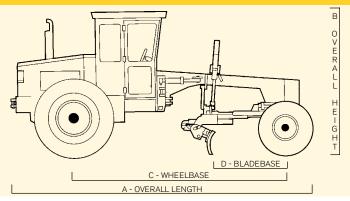
Standard "Single Flow" hydraulic system with feathering blade lift controls provides smooth response.

"Twin Flow" hydraulic system available as an option.



FILTERS

DIMENSIONS



- C Wheelbase15'4" (4 674 mm)
- D Bladebase6'2" (1 880 mm)

Overall width

- front tires 7'2" (2 184 mm)



G66 ALL WHEEL DRIVE

G66 AWD operates in low range, forward and reverse speeds from 0-10 mph (0-16 km/h).

Automatically disengages when the operator presses the brake pedal or shifts the transmission to neutral. All wheel drive provides optimum traction in all working conditions. System maintains equalized traction to both front wheels in turns and in all traction situations. Grader retains full front axle mobilities of oscillation and wheel lean.

ATTACHMENTS

Counter Weight
Front Mounted 7' (2 134 mm)
Blade/Scarifier
Front Mounted 8' (2 438 mm)
Blade/Scarifier
Front Mounted "V" Scarifier
Rear Mounted Rippifier
Rotary Broom
Side Dozer
Utility Front End Loader
Windrow Eliminator

Automatic Blade Control

STANDARD EQUIPMENT

Cummins 4B3.9 85 hp (63 kW) Hydrostatic drive "Single Flow" hydraulic system Heavy duty positive traction differential 2 speed rear axle gearbox with neutral position ROPS canopy, with FOPS protection, c/w fully adjustable control pedestal, low effort, industry standard controls, feathering type blade lift controls 10' (3 048 mm) hydraulic sliding moldboard Hydraulically Boosted Dual Braking System with reserve power assist Power steering Hydraulic leaning front wheels (G66) Ratchet type park brake with operator

Gauges: engine temperature and oil pressure, volt meter, fuel level, tachometer, hour meter
Moldboard float control valves
Muffler
12 volt electrical system
Backup alarm
Seatbelt
Steps and grab handles
Lockable engine side panels
Backup lights

Front and rear directional, brake and tail

2 dual beam headlights Inside convex rear view mirror External lockable battery box

lights and hazard lights

warning alarm and indicator



With scarifier teeth
Size7' x 17" x 5/8"
(2 134 mm x 422 mm x 16 mm)
8' x 17" x 5/8"
(2 438 mm x 422 mm x 16 mm)
Blade ground clearance 16" (406 mm)
Replaceable, standard grader cutting edge
Number of teeth4
Mounted on front blade. Replaceable tips
Cutting depth6" (152 mm)
below blade
Cutting width 43" (1 092 mm)

OPTIONAL EQUIPMENT

"Twin Flow" hydraulic system All Wheel Drive (available as G66) Enclosed ROPS cab with FOPS protection Cummins 4BT3.9 110 hp (82 kW) Hydraulic blade tilt Electronic blade controls Forward-Neutral-Reverse foot control Foot pedal accelerator 7' (2 134 mm) Front Mounted Blade with scarifiers 8' (2 438 mm) Front Mounted Blade with scarifiers Rear Tires: Diamond Tread 16.9 x 24 Traction Lug 16.9 x 24 or 18.4 x 28 Cab heater Windshield defroster Beacon light Working lights Windshield wipers Windshield washers Air cleaner service indicator Outside rear view mirrors Rear glass in canopy

Hydraulic leaning wheels

Your safety and the safety of those around you depends on using care and judgement when operating and servicing your grader. Do not operate the grader until you read and understand the warnings and instructions in the operator's manual. www.volvo.com

Under our policy of continuous product development and 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.

