

MOTORGRADER MASTERBUILDER

Volvo has played a major role in the development of roads around the world since 1875 more than 120 years. Today, with markets in 95 countries, Volvo Construction Equipment is one of the largest producers of motor graders worldwide. With the introduction of its B-series motor graders, a comprehensive line of seven production-class models, Volvo Construction Equipment had set new standards in motor grader design, engineering and performance capabilities.

The Volvo B-series grader class is a new generation line of machines that offers enhanced productivity, fuel efficiency, servicing access, operating control and operator comfort. The B Series line of motor graders comprises of five-tandem drive and two all wheel drive models, of which are suited to all public and private sector tasks. The tandem drive machines range in operating weight from 14,099 kg to 19,783 kg and in engine output from 105 kW to 181 kW, while the all-wheel drive operating weights range from 16,046 kg to 16,639 kg and from 148 kW to 181 kW.

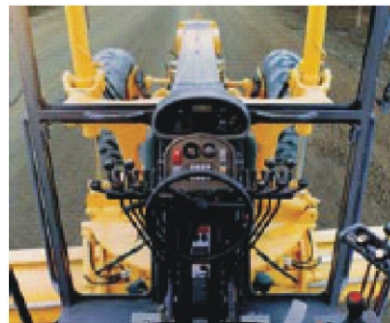
Powered by Volvo 7.1 and 9.6 litre Tier II compliant engines, the B-series were developed not only for optimum fuel efficiency and low emissions, but also to provide high torque at low rpm for precise power control at all speeds, in all grading applications. The flat torque curve delivered by Volvo engines reduces the need for downshifting, which makes the job easier for the operator, especially in fine grading. Cooling of the Volvo grader engines is accomplished with a hydraulically-driven, thermostatically controlled variable-speed fan that regulates fan speed depending on cooling demand to optimize power and to further improve fuel economy.

In response to Motor Graders customers for an improved hydraulic response and reliability, Volvo Construction Equipment introduced a new hydraulic system for all B Series



motor graders. The foundation of the new system is a 284 lpm axial piston hydraulic pump offering increased efficiency and optimum pump life. A larger hydraulic reservoir ensures continuous flow with minimum heat.

Productivity in the grader is achieved with variable horsepower, which matches transmission speeds and power-to-weight ratios. This ensures maximum blade down pressure and blade pull, delivering more power to the ground, and in turn, fast cycle times and maximum job site efficiency.



The Contronics electronic monitoring system has been the friend of Volvo equipment operators for many years. Contronics tells the operator what is happening with all major machine operating functions and VCADS Pro (Volvo Computer Aided Diagnostic System Professional), a software tool, allows the service technician to review the machine operating characteristics history for diagnostics and maintenance. In short, the primary function of these systems keeps the grader in peak condition, which translates into longer machine life.

Customers/ Operators will also be happy to know that the Volvo B-series motor grader design was specifically focused on ease of maintenance and long service intervals. The design 'opens up' the entire powertrain to immediate and complete access to the engine compartment, cooling module and hydraulic area for cleaning, maintenance and service. In just 8 seconds, the entire engine compartment and cooling module is ready for servicing.

The cooling module is the combination of the thermostatically controlled hydraulic fan and a series of strategically located coolers, wrapped around four sides of the module. The hydrostatic fan drive provides optimum cooling fan speed for any temperature, saving fuel and limiting noise. There are no "stacked" cores in the B-series cooling system, making the system much less susceptible to fouling by dirt and debris.

For heavy-duty operations, the Volvo G746B is the ideal solution, promising to raise all-wheel drive grading to a new level in productivity and performance. At 16,639 kg and with 181 kW, the Volvo G746B is the highest-performance all-wheel drive motor grader built today. Also ideal for road construction, road maintenance, ditch cutting, ditch cleaning, snow clearing, the Volvo G746B develops 13,730 kg of blade pull for remarkable cutting and pushing performance.

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