

CASE
CONSTRUCTION

GRADERS

845B VHP | 865B VHP | 885B VHP



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Technological innovation for high performance and excellent results

Case has a commitment to its customers to produce results. For this very reason we are always constantly investing in technology, in new engineering techniques and on improved operator comfort. The end result is greater output from your machine. Innovations to the 800B Series Motor Graders include the most up-to-date technological and ergonomic concepts as well as low-cost maintenance. This translates into higher profitability and on-the-job productivity.

The transmission on the 845B, 865B and 885B models has a torque converter lock-up system. This converter provides an increase in torque for heavy jobs and can be locked for lighter jobs such as spreading. This increased flexibility lets you get the best results.

The redesigned cab now offers a larger field of vision, more comfort and a more comfortable interior for the operator. The Roll-Away mouldboard plough provides effortless cutting resulting in lower fuel consumption and longer component life span.

All models come equipped with low fuel consuming, high-power, high torque engines. These factors all combine to provide optimum performance. Get to know our 800B Series graders. They are all guaranteed by Case. Possibly the best-known brand name in this sector the world over.





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ENGINE

More power with better economy

Series 800B Graders are supplied with an easy-to-operate, economical, turbocharged, high-performance Common Rail Tier3 engine. The 845B and 885B models comes with a FPT Dual Horse Power Tier 3, 173 HP and 234 HP engine.

The 865B model comes with a FPT Triple Horse Power Tier 3, 220 HP engine.

TRANSMISSION

Flexibility for improved all-round efficiency

Case offers ZF types of transmission: with torque converter lock-up on the 845B, 865B and 885B. This transmission works in two modes. With lock-up disengaged, it operates with the torque converter. With lock-up engaged, it operates in Direct-Drive with electronic shift change for the 6 forward and 3 reverse gears.

The torque converter is a hydraulic coupling that provides a torque increase of up to 70% making it the ideal tool for jobs needing extra traction. Jobs such as this include forward, reverse and cutting operations. The converter is also ideal for working on flat terrain needing final finishing.





Transmission with automatic and manual mode

Another great advantage of this transmission is the option of operating in either automatic or manual mode. The operator can manually shift gear or opt for automatic. Automatic mode offers the operator increased comfort and easier gear changes. “Limp-Home”. The 845B and 865B and 885B models have a “Limp-Home” system, which is a safety mode in the event of transmission failure.

“Limp-Home”.

The Limp-Home system engages automatically and lets an operator drive the vehicle to an appropriate location for maintenance.

Transmission Control Unit

The TCU electronic processor manages all the input data provided when the transmission is operating and ensures optimised performance.

This guarantees greater productivity, longer vehicle life span and improved driver comfort. The transmission has a diagnostic system that detects potential problems and displays them as error codes on the panel or via laptop connection.

Lock-up applications

When lock-up is engaged, the transmission operates in Direct-Drive mode. This mode is ideal for levelling and spreading. As these jobs do not call for extra torque, the Direct-Drive transmission system further increases fuel economy.

Lock-up engages automatically to match torque and engine speed. The system engages as long as the preset electronic transmission module parameters are met.

Lock-up can be disengaged with the button on the right of the operator’s console. Once disengaged, the transmission goes back to working with just the torque converter

De-clutch system

The De-clutch system on the transmission provides better handling speeds for tools such as the blade, ripper, and scarifier.

The De-clutch system is activated when the operator uses the brakes. This directs all the engine power to the hydraulic system as at that moment the engine is disengaged from the transmission.

As a result, the De-clutch system prevents any loss of power and provides better fuel economy.



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AXLES

Rugged for tougher operations

Series 800B Grader axles are extremely rugged to guarantee improved traction on the ground. The front axle has a welded steel structure with high-resistance cast iron components. Its straight line geometry offers 580 mm ground clearance over its entire length.

The wheel lean angle is 12° to the right or left with up to 15° of oscillation to facilitate working on irregular terrains.

The cast iron tandem type rear axle has a welded steel plate structure specially designed to help the grader cope with extreme operating conditions. Tandem oscillation is 20° to each side. The 845B Grader comes with a proportional torque Limited Slip differential.

The 865B and 885B models come with an electro-hydraulic differential lock that is manually engaged by the operator from the console.

BRAKES

The brakes are dual circuit oil bath cooled self-adjusting multidiscs with two circuits.

There is once circuit to each side of the rear axle.

This guarantees a long life span in addition to complete efficiency and precise stopping power.

For greater safety, the brakes have two nitrogen accumulators, one for each circuit, that enable the operator to stop the machine if a hydraulic system or diesel motor failure should occur. The parking brakes are discs that are integrated with the transmission.



HYDRAULIC SYSTEM

Complete precision of movement and reliability

The hydraulic system is Load Sensing, which is very useful when ground resistance is high and the hydraulic system pressure needs to be increased. In these situations, the Load Sensing, system reduces hydraulic flow and since the machine needs force and not flow, this preserves the engine. Models 845B, 865B and 885B have a variable flow axial piston pump. Series 800B Motor Graders are also fitted with a 9-section closed centre hydraulic distributor located in a protected area under the operating platform. The Series 800B Motor Grader hydraulic system was specially designed to optimise blade control and accuracy. Improvements made to the lifting gear provide greater blade control and accuracy as well as higher operating speed and efficiency.

ELECTRICAL SYSTEM

The 24-volt electrical system is powered by two 12-volt maintenance-free batteries, connected in series with a total capability of 100 Ah. The batteries are stored in an easily-accessible location. Vehicles are fitted with various front, rear, and blade lights to offer the operator maximum visibility.

STEERING

Safety with operational versatility and precision.

The orbital valve hydrostatic steering is powered by a gear pump and provides a steering angle of 48° to both sides. Chassis articulation is 25° to the right or left, is hydraulically powered and features a locking system. The turning radius is 7.250 mm which enables the operator to perform jobs in restricted areas with greater ease as well as offering faster steering.

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CAB

More visibility - improved comfort - better productivity

Series 800B Motor Graders feature a ROPS/FOPS cab.

The new design is more rounded with an improved glassed-in area providing greater all round visibility.

This spacious cab has redesigned ergonomics to offer more operator space and comfort. All the controls have been specially positioned to offer easy access and faster control.



Improvements to the cab

- Improved side, front and rear visibility.
- Optional front interior window: greater blade visibility that enables better finishing, improved operator comfort and better control over the work surface.
- Larger storage compartments: greater convenience.
- More powerful air-conditioning with better positioned outlets, new air intake and filter to enhance air supply: increased operator comfort and improved window demisting.
- Radio repositioned to be closer to the operator: ease of use and convenience.
- The right side console is now closer to the operator as well as being more inclined and higher up with new easily identified buttons: improved ergonomics and comfort.
- Optional rear window.
- Windscreen wiper water reservoir enlarged: less frequent refilling.
- Seat lowered by 50 mm: improved operator comfort.
- New central control panel with warning lights: transmission fluid temperature, hydraulic system, engine cooling liquid and fuel level gauges; hour meter, transmission lever position; clutch engaged, auto/manual mode and much more.
- The control panel shows engine rpm, vehicle speed, fuel consumption, battery power and much more. All displays are positioned on the front panel to prevent the operator from being distracted.
- Electronic panel with digital communication systems enabling more precise troubleshooting.
- Fixed control valve command levers on the floor: better blade visibility.
- Hood prop mounted directly on the chassis: reduced vibration and cab noise.
- Electrical systems governed by ignition key: greater operational ease and guaranteed data recording by ECUs (timer on key). This prevents the operator from leaving the key in the ignition and thus incurring power losses and flat batteries.



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ATTACHMENTS

Versatility in improving productivity.

Moldboard

The Series 800B Grader mouldboard has a high cutting capacity and is recognised as the best on the market. Made from score resistant high carbon content steel, the mouldboard has a multi-radius Roll-Way profile that facilitates operations and minimises mechanical load. This is due exclusively to its shape which induces material roll-off. The result is lower fuel consumption and greater component life span. The blade circle has an unrestricted 360° rotation angle which offers a multitude of operational choices.



Scarifier, ripper, and dozer blade

Series 800B graders offer a collection of attachments that provide greater operational versatility. The scarifier is mounted on the front and offers a choice an option of 5 or 11 teeth versions. The parallelogram shaped dozer blade is interchangeable with the scarifier.

Series 800B graders offer the following rear attachments:

- Model 845B: 5-tooth rear *ripper*.
- Models 865B and 885B: 3 or 5 tooth rear ripper and 5 or 9 tooth rear scarifier.



	845B	865B	885B
Power output (SAE J1995 /Gross)	(FPT Tier3) 173 hp (129 kW)	(FPT Tier3) 220 hp (164 kW)	(FPT Tier3) 234 hp (175 kW)
Operating weight	14605 kg	15587 kg	17210 kg
Moldboard (standard)	3658 mm	3962 mm	4267 mm



Parts and Service

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CE

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