

CASE
CONSTRUCTION

GRADERS

845B | 865B | 885B SERIES 2





TECHNOLOGICAL INNOVATION FOR HIGHER PERFORMANCE AND EXCELLENT RESULTS.

CASE is committed to its customers' results. Because of that, it is always investing in technology, new engineering techniques and more comfort to the operator. All that for you to achieve better operational machine output.

The **800B Series 2** motor graders offer more comfort and ergonomics to the operator, as well as low maintenance cost. It means high profitability and productivity for your working site.

Transmission with torque converter and *lock-up* in the three models, **845B**, **865B** and **885B Series 2**. The converter offers higher torque for heavy duty tasks, and lock-up is ideal for lighter work, such as material spreading. Maximum flexibility so that you have always better results.

The cab, which already included a large viewing area, comfort and ergonomic commands to make the operation easier, now also features a more efficient air conditioner.

The moldboard with Roll-Away makes the cut effortless, resulting in less **fuel consumption** and extended lifetime to the components.

All models are equipped **with high power** engine, raising torque and lowering consumption. Everything to improve performance.

Get to know the **800B Series 2** motor graders.

They have **CASE** guarantee, a brand established globally.

ENGINE.

HIGHER POWER AND MORE ECONOMY.

The **800B Series 2** motor graders are equipped with high performance turbocharged, common rail electronic engine, with low consumption, low pollutant emission, high ease of maintenance and Tier 3 certification.

The engines are **VHP (Variable Horse Power)** type and equipped with electronic power curve set, which is selected automatically according to the gear applied. The advantage is that the machine operates with the optimal power at the ideal speed, bringing a better power and fuel consumption relation.

The **845B and 885B Series 2** models feature engines with two power curves (**150/173 hp and 220/234 hp**, respectively). The **865B Series 2** model features three power curves (**193/205/220 hp**).



TRANSMISSION.

FLEXIBILITY FOR MORE EFFICIENCY IN ALL ACTIVITIES.

All models are equipped with torque converter transmission with lock-up, that works with two functions. With the lock-up disabled, it works with torque converter. And, when enabled, it works as **Direct Drive**, with electronic gear change commands, feature six forward gears and three reverse gears.

The torque converter is a type of hydraulic coupling that offer up to 70% torque increase, making it the ideal instrument for work where **higher traction power** is required. This type of work includes rear and front scarification and dozer cut.

LOCK-UP USE.

When the *lock-up* is applied, the transmission works as **Direct Drive**. This way, it is perfect for light leveling and spreading works. Since these activities require no extra torque, the **Direct Drive** transmission increases fuel saving even more.

The *lock-up* is enabled/disabled **automatically** according to the engine speed and input torque for each gear. It is driven every time the parameters reach the values set in the electronic transmission module.

DECLUTCH DEVICE.

The device included in this transmission offers faster implement motion, such as the dozer and scarifier.

Actuated on the right side, this device is enabled when the operator steps on the brake.

This way, all engine power is directed to the hydraulic system, since it is this moment that the engine is decoupled from the transmission. Therefore avoiding power waste and offering more fuel economy.



AUTOMATIC AND MANUAL MODE TRANSMISSION.

Another major advantage of this transmission is the option to work in automatic and manual modes. The operator can work changing gears manually or use the automatic gear change. In the automatic mode, the operator has more comfort during operation and motion.

LIMP-HOME.

The 800B Series 2 motor graders have a Limp-Home system, which is a safety operational mode in case of transmission pane. The Limp-Home actuates automatically and allows

the operator to move the machine to the appropriate location, where the maintenance will be performed.

TRANSMISSION CONTROL UNIT.

The electronic TCU processor manages all information during the transmission operation and offers a set of optimized operation. It ensures more productivity, extended machine lifetime and more comfort to the operator. The transmission has a fault diagnostic system that detects, by means of a code on the panel and connection to a laptop, any problems that occur to the equipment.

AXLES. ROBUSTNESS FOR THE TOUGHEST OPERATIONS.

The 800B Series 2 motor graders axles ensure robustness and higher surface transfer capacity. The front axle has a welded steel frame, with high resistant cast parts. Its straight geometry offers a 580-mm clearance throughout its extension.

The wheels lateral inclination, at 20°, to the right or to the left, and 15° swing to each side allows them to adjust to the irregularities on the ground.

The cast iron rear axle and the rectangular profile tandem frame welded to steel sheet were dimensioned to sustain the toughest efforts.

The tandem swings 20° to each side. The 845B Series 2 motor grader is equipped with differential torque that offers Limited Slip. A differential axle with electro-hydraulic lock is optional.

The 865B and 885B Series 2 models are equipped with electro-hydraulic lock differential actuated by the operator on the frontal panel.

BRAKES.

The self-regulated oil immersed multi-disc brakes have two circuits, one for each rear axle. It ensures long lifetime, in addition to total efficiency and precision.

For more safety, the brakes have two nitrogen accumulators, one for each circuit, that allow the

operator to break the machine in case of fault to the hydraulic system or diesel engine stall. It has disc parking brakes and are integrated into the transmission.

ELECTRICAL SYSTEM.

The 24 volts electrical system is powered by two 12 volts each maintenance-free batteries, connected in series and 100 Ah total capacity, located in an easy access place.

A set of front, rear and over the moldboard headlights perfectly lightens up the working area in all directions.





HYDRAULIC SYSTEM. TOTAL PRECISION AND RELIABILITY DURING MOVEMENTS.

The hydraulic system is **Load Sensing** style, which is very useful for situations where there is high ground resistance and the pressure to the hydraulic system tends to increase. In these situations, the **Load Sensing system** causes a reduction to the hydraulic flow, since the machine needs power, not flow, saving the engine.

The three models, **845B**, **865B** and **885B Series 2**, have a variable flow axial piston pump.

The **800B Series 2** motor graders are also equipped with closed center hydraulic distributor, positioned in a protected location below the operator platform.

The **800B Series 2** motor graders hydraulic system was improved to optimize the moldboard precision control. The lifting spool improvement offers more precision when controlling the moldboard, as well as higher speed and efficiency during the work.

STEERING. SAFETY WITH VERSATILITY AND PRECISION DURING OPERATIONS.

The steering wheel is hydrostatic, orbitrol type, powered by the **gear pump**, with 42° steering angle for both sides. The chassis articulation, 25° to the right or left, is hydraulically actuated and is

equipped with a lock system. It offers a 7.250 mm slewing radius, allowing the operator to perform work in **restricted areas** more easily and perform winding curves in less time.

CAB. VISIBILITY AND ERGONOMICS, MORE PRODUCTIVITY.

The 800B Series 2 motor graders are equipped with ROPS/FOPS cab. Its design is more rounded and the glass area is bigger, offering visibility in all directions. The ergonomics of the

spacious cab has been redesigned to offer more convenience and comfort to the operator. All commands are positioned in order to offer easy access and quicker control.



- + Larger glass area – sides, front and rear: **better visibility**.
- + Lower front window optional: more blade visibility, offerer better finishing, **more comfort to the operator** and greater control over the work surface.
- + Larger stowage: more convenience.
- + More powerful air conditioning, better positioned output ducts, new air intake and filter to maximize the air intake: more comfort and better glass defogging.
- + Radio positioned next to the operator for **convenience and comfort**.
- + Rear defog optional.
- + Higher volume windshield wiper water tank: **longer interval between supply**.
- + Seats with armrests and settings.
- + **Central panel** with fault indicators: temperature gauges for transmission fluid, hydraulic system and engine coolant; fuel level gauge; hour meter; transmission level position; engaged gear, auto or manual mode and more.
- + The panel shows data on engine speed, machine speed, fuel consumption, battery voltage and more.
- + **All displays are centralized on the front panel**, preventing operator distraction.
- + Electronic panel with digital communication with machine systems, offering easier **fault diagnosis**.
- + Fixed control valve control lever on the floorboard: **better moldboard visibility**.
- + Hood support installed on the chassis: **vibration and cab noise reduction**.
- + Electrical general switch controlled by the ignition switch: **easier operation and guarantee of data recorded by the (timer electronic center in the key)**. It prevents the operator from forgetting the ignition on, causing load loss and battery discharge.

The 800B Series 2 motor graders cab may have low or high profile and are assembled on the rear chassis, making it easier to perform **rear maneuver execution** and to directly check the chassis articulation degree.



ACCESSORIES.

VERSATILITY TO INCREASE YOUR PRODUCTIVITY.

CENTRAL MOLDBOARD.

The 800B Series 2 motor graders central moldboard offers high cutting capacity and is known as the best in the market. Manufactured on high carbon steel – highly resistant to abrasion –, the central moldboard has an engaging profile (Roll-Way), for easier work, minimizing machine effort. This is only possible due to its shape, cause material rolling.

The result is lower fuel consumption and higher component lifetime. The moldboard circle has a 360° slew, with no restrictions, which offers more work alternatives.



REVERSIBLE PROPELLER.

The 800B Series 2 motor graders has an optional cooling propeller with reversible system and hydraulic actuation.

This functionality allows to clean the radiators, which is important for applications with high suspended particle concentration, and with no need to stop the machine, offering higher productivity and increasing the equipment lifetime.

SCARIFIER, RIPPER AND FRONT DOZER.

The 800B Series 2 motor graders is equipped with a set of accessories that offer higher versatility and operability.

The scarifier is installed on the front, with 5 or, alternatively, 11 teeth.

The front dozer, parallelogram type, is interchangeable with the scarifier. As rear accessories, the 800B series motor graders offer:

- + 845B Series 2 Model: light *ripper* with 5 small teeth or medium *ripper* with 3 large teeth and 5 small teeth.
- + 865B and 885B Series 2 Model: medium *ripper* with 3 to 5 large teeth and 5 to 9 small teeth.



	845B Series 2	865B Series 2	885B Series 2
Engine	FPT F4HE9687W*J108	FPT F4HE9687C*J109	FPT F4HE9687K*J111
Raw power (SAE J1995)	150/173 hp (112/129 kW)	193/205/220 hp (144/153/164 kW)	220/234 hp (164/175 kW)
*Operational weight	15.425 kg (34.006 lb)	16.936 kg (37.338 lb)	18.120 kg (39.948 lb)
Moldboard width (standard)	3.658 mm (12')	3.962 mm (13')	4.267 mm (14')

*Machine with front counterweight and rear ripper.



SUPPORT PROVIDED AS STANDARD.

CASE Care is a unique program that includes several services, from preventive and corrective maintenance to your machine to satellite fleet management. It offers *on-line* and free training course for operators for all CASE line.

Knowing the importance of a higher equipment availability, CASE offers SystemGard® a fluid monitoring program. This program checks and monitors the machine internal components health. See all types of CASE Care services in our portal www.casece.com/latam/pt-br.



SOLID PRODUCT SUPPORT SOLUTIONS

Your CASE dealer knows how you can maximize the investment and your equipment life-cycle – with genuine parts, specialized service and a full variety of CASE product support solutions. CASE dealers have exclusive access to the Electronic Service Tool (EST) diagnosis that quickly identifies faults in the machine. Contact your dealer for additional information. Access the site www.caseceonline.com.br and see a complete list of genuine parts with even more competitive prices.





FLEXIBLE FINANCIAL OPTIONS



Specialized financing programs put you on a CASE equipment operator seat, while incredible warranties and broad protection plan ensure the equipment is protected. All this through the Banco CNH Industrial Capital, CASE's bank. As the single finance company dedicated to CASE, we offer solid products and services developed according to your specific needs. We are the only company supported by your CASE dealer skilled service professionals. See <https://www.cnhindustrialcapital.com/> and get familiar with our products.







CASE client can count on a direct communication channel to the brand. It is the **CASE Customer Assistance**, a differentiated customer service program, offering the agility you need and the quality you deserve. So, wherever you are, if you need **CASE's** support, just call us. We are connected to you 24/7. **CASE Customer Assistance**. By your side, wherever you are.

 **ARGENTINA: 0800-266-1374**  **+54 11 48535831**

 **BRASIL: 0800-727-2273**  **+55 31 2107-2045**

 **COLÔMBIA: 01-800-944-8372**

 **PERU: 0800-77-270**

Fábricas:

Contagem – Minas Gerais – Brasil

Av. General David Sarnoff, 2.237

Inconfidentes – CEP 32210-900

Tel.: +55 31 2104-3392

Sorocaba – São Paulo – Brasil

Av. Jerome Case, 1.801

Éden – CEP 18087-220

Tel.: +55 15 3334-1700

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